## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 001

NATIONAL MINERAL INVENTORY: 103A11 Lst1

PAGE:

REPORT: RGEN0100

LAREDO LIMESTONE, ARISTAZABAL ISLAND, PACIFIC RIM, LORINA, LAREDO, NORTH PACIFIC NAME(S):

STATUS: Past Producer Open Pit MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103A11E

UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE:

NORTHING: 5837510 LONGITUDE: 129 03 01 W EASTING: 496602 ELEVATION: 15 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centred on quarry (Geology, Exploration and Mining in

British Columbia 1969).

COMMODITIES: Limestone **Building Stone** Marble

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Dolomite Pyrite Pyrrhotite Phlogopite Forsterite

Spinel Gráphite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound Massive CLASSIFICATION: Sedimentary Industrial Min. Limestone

TYPE: R09 DIMENSION: 200 Metres STRIKE/DIP: 308/46W TREND/PLUNGE:

COMMENTS: Surface width of limestone. Attitude given for banding just north of

the quarry.

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Unknown **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation Unnamed/Unknown Group

Mesozoic-Cenozoic Coast Plutonic Complex

LITHOLOGY: Limestone

Marble

Hornblende Diorite Monzonite Gneiss

Granodiorite Dike

Absolute ages and the relationship of sediments and intrusives are uncertain (Geological Survey of Canada Map 1328A). HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander

INVENTORY

ORE ZONE: LAREDO REPORT ON: Y

> CATEGORY: YEAR: 1990 Probable

43250000 Tonnes QUANTITY: COMMODITY

Limestone 100.0000 Per cent

COMMENTS: Probable reserves for Areas 1, 2, and 3 are 20.50 million tonnes high calcium limestone and 22.75 million tonnes limestone.

REFERENCE: Assessment Report 22189.

ORE ZONE: LAREDO REPORT ON: Y

> CATEGORY: Proven YEAR: 1990

28750000 Tonnes QUANTITY: **GRADE** 

100.0000 Per cent COMMENTS: After 1990 work, proven reserves were upgraded to 16.25 million

tonnes high calcium limestone and 12.50 million tonnes limestone for

Aris 1, 2 and 3 together.

REFERENCE: Assessment Report 22189.

COMMODITY

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### INVENTORY

ORE ZONE: TOTAL REPORT ON: Y

> YEAR: 1990 CATEGORY: Combined

QUANTITY: 72000000 Tonnes COMMODITY

**GRADE** 100.0000 Per cent **Cimestone** 

COMMENTS: Total proven and probable reserves are 36.75 million tonnes high

calcium limestone and 35.25 million tonnes limestone, for a total of 72 million tonnes.

REFERENCE: Assessment Report 22189.

#### CAPSULE GEOLOGY

A roof pendant of limestone is enclosed in hornblende diorite, monzonite and gneiss of the Tertiary to Jurassic Coast Plutonic Complex. It outcrops along the northeast coast of Aristazabal Island just north of Quarry Bay southeastward for 1.8 kilometres, and extends inland for 5 kilometres. The limestone is intruded by a few northwest trending, steeply dipping granodiorite dikes averaging a metre in width, and by a small stock of hornblende diorite along the shore at Quarry Bay. A northwest trending fault cuts the limestone along Quarry Bay. North of Quarry Bay, banding (bedding?) strikes north-northeast and dips 55 to 60 degrees west. To the south, the banding strikes northwest (308 degrees) and dips 35 to 65 degrees southwest.

The deposit is comprised mostly of snowy white, coarse-grained high-calcium limestone (marble) with some light to dark grey, finegrained variably dolomitic bands 0.02 to 1.25 metres thick. A bed of dolomitic limestone outcrops on the western and southwestern portions of the deposit with a surface width of approximately 200 metres. limestone is contaminated by variable amounts of pyrite, pyrrhotite, forsterite, serpentinite, spinel and graphite. A sample composed of chips taken at 0.15 metre intervals across a 12 metre thick band of coarse-grained white limestone in the quarry on the southeast corner of Lot 299 contained: 53.93 per cent CaO, 1.33 per cent MgO, 0.17 per cent insolubles, 0.09 per cent R2O3, 0.05 per cent Fe2O3, trace MnO, 0.01 per cent P205, 0.002 per cent sulphur and 43.75 per cent ignition loss (Geology, Exploration and Mining in British Columbia 1969).

Proven (measured geological) and probable (indicated) reserves have been determined for two zones within the deposit. Area 1 is estimated to contain 9.5 million tonnes of proven reserves and 10.0 million tonnes of probable reserves of calcium and high calcium limestone respectively; while Area 2 is estimated to contain 5.25 million tonnes of proven reserves and 36.0 million tonnes of probable reserves of calcium and high calcium limestone respectively (Property File - Rotzein, J.L., 1989).

In 1952, 10,886 tonnes of limestone averaging 98 per cent CaCO3 was quarried by Wood & McLay Limited. In 1969, Laredo Limestone Ltd. acquired 6 limestone leases and conducted stripping and quarrying. Reserves were estimated at 18,000,000 tonnes per 30 metres of depth. In August 1972 Kamad Silver Co. Ltd. acquired the property. In 1973 they drilled 25 holes totalling 38 metres. Laredo Limestone Ltd. had planned to commence quarrying in early 1990 at a rate of 8000 tonnes per day.

In December 1990 Laredo Limestone Ltd. drilled one hole and collected 24 surface samples in Area 3, between Areas 1 and 2, to confirm the continuity of limestone along strike and dip of the limestone beds, and upgrade the amount of reserves. The proven reserves were upgraded to 16.25 million tonnes high calcium limestone and 12.50 million tonnes limestone for the combined Areas 1, 2 and 3. Probable reserves were upgraded to 20.50 million tonnes high calcium limestone and 22.75 million tonnes limestone for the combined Areas 1,2,and 3. The total proven and probable reserves are 36.75 million tonnes of high calcium limestone, and 35.25 million tonnes limestone, for a total of 72.00 million tonnes. In 1994, a new owner, North Pacific Stone, resampled the area to better define the specific areas

of high calcium limestone on the property.

The Laredo 1, 2, and 4-6 claims are held in good standing until late in 1999 by North Pacific Stone Limited of Surrey. They drilled 28 holes totalling 760 metres in 1999. Orinda Investments and North Pacific Stone plan to develop the deposit as a source of high-brightness filter for the plastics, paper and paint industries.

### **BIBLIOGRAPHY**

EM EXPL 1999-1-11; 2000-1-8 EM INF CIRC 2000-1, pp. 16, 19 EMPR AR 1952-A259; 1968-311 PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

EMPR ASS RPT 16188, 19595, \*22189, 23723 EMPR EXPL 1989, pp. 17,39 EMPR GEM \*1969-389-392; 1972-602,603; \*1973-550 EMPR OF 1992-1; 1992-9; 1992-18, p. 58; 1994-1 EMPR PF (Fawley, A.P. (1968): Aristazabal Island Mineral Claims, British Columbia, of Pacific Rim Mines Ltd., Report and Map,
May 1968; Prospectus, Laredo Limestone Ltd. 1988; Report on
Laredo Limestone claims by Rotzein, J.L. 1989; Report on Limestone
deposits of the Pacific Northwest, p. 5 (in 092L 279 file)) EMR MP CORPFILE (Laredo Limestone Ltd.; Kamad Silver Co. Ltd.) GSC MAP 9-1966; \*1328A; 1385A GSC MEM 372 GSC P 66-25 CANMET RPT 811, Part V, p. 171 GCNL #39, 1969; #95, 1970; #145, 1979

CODED BY: GRF REVISED BY: JMR DATE CODED: 1986/04/14 FIELD CHECK: N DATE REVISED: 1999/06/30 FIELD CHECK: N

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 002

NATIONAL MINERAL INVENTORY: 103A9 Cu1

NAME(S): HIDDEN LAKE, H AND C, ROD, POOLEY (JAMES) ISLAND, MOULT (L.1553), MARION 1, MAR 7-14

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103A09W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

LATITUDE: 52 40 58 N LONGITUDE: 128 16 46 W NORTHING: 5837227 EASTING: 548710

ELEVATION: 250 Metre: LOCATION ACCURACY: Within 1 KM Metres

COMMENTS: Occurrence on Geological Survey of Canada Map 1328A, east side of

Griffin Passage on Pooley Island.

COMMODITIES: Copper Silver Gold Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Bornite** Molybdenite Pyrite Arsenopyrite

Silicific'n

ALTERATION: Garnet
ALTERATION TYPE: Skarn
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Skarn

Vein Replacement

**Epithermal** 

TYPE: K01 Cu skarn DIMENSION:

Metres

STRIKE/DIP: 120/60S

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Triassic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Undefined Group Unnamed/Unknown Formation

Unnamed/Unknown Informal Unknown

LITHOLOGY: Altered Limestone Schist

Quartz Diorite **Banded Limestone Garnet Schist** 

Stratigraphic ages uncertain (Geological Survey of Canada Map 1328A). HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

0.7000

0.3020

TERRANE: Alexander METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Greenschist Regional

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core YEAR: 1995 Assay/analysis

COMMODITY Copper

**GRADE** 

Per cent

Grams per tonne

Gold COMMENTS: Average over 7 metres.

REFERENCE: Assessment Report 24020.

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1971 Assay/analysis

COMMODITY **GRADE** 

Silver 99.4300 Grams per tonne Copper 2.9000 Per cent

COMMENTS: Sample of the copper mineralization.

REFERENCE: National Mineral Inventory Card 103A9 Cu1.

CAPSULE GEOLOGY

The occurrence is associated with a skarn zone consisting of altered intercalated limestone and garnet schist in contact with quartz diorite. Mineralization consisting of chalcopyrite, pyrite, arsenopyrite, some bornite and an occasional speck of molybdenite

> MINFILE NUMBER: 103A 002

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

occurs in quartz stringers and as disseminations in the skarn. mineralized zone strikes 120 degrees and dips 60 degrees south. Quartz diorite occupies the footwall while on the hangingwall the zone grades into banded limestone and garnetiferous schist carrying sparser mineralization.

In 1929 assays gave the following values of 1.37 grams per tonne gold, 13.71 grams per tonne silver and 1.6 per cent copper. In 1971 a sample of the mineralization assayed 99.43 grams per tonne silver and 2.9 per cent copper (National Mineral Inventory Card 103A9 Cul).

Minor surface work was done on the Hidden Lake property by the Granby Consolidated Mining and Smelting Company in 1928. The owner, W.H. Mault carried out open cutting totaling 335 metres in 1929. Rainbow Mines conducted 60 metres of trenching and 185 metres of diamond drilling in 1963. In 1966 further trenching and 1200 metres of drilling were done. In 1971, Rainbow Mines changed its name to Greenfields Development Corporation Ltd.
In 1995, Verdstone Gold Corporation and Amcorp Industries

conducted rock, silt and soil sampling, and trench and drill sampling (2 holes) on the property, which was renamed the Marion claims (including the MAR 7-14 claims). The results indicate the favourable skarn horizon extends to 300 metres in length. An induced polarization survey was recommended to evaluate the down-dip and strike extensions of the mineralized skarn zone.

### **BIBLIOGRAPHY**

EMPR AR 1928-C67; \*1929-C67; 1963-21; 1966-54 EMPR ASS RPT 24020 EMR MP CORPFILE (Greenfields Development Corporation Ltd.) GSC MAP 9-1966; \*1328A; 1385A GSC MEM 372, p. 99 GSC P 66-25

CODED BY: GRF REVISED BY: JMR DATE CODED: 1986/04/21 FIELD CHECK: N DATE REVISED: 1999/06/29 FIELD CHECK: N

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 003 NATIONAL MINERAL INVENTORY: 103A8 Au1

NAME(S): HEBREW (L.9), NEEKAS, MOSS & MCKAY

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103A08E BC MAP:

LATITUDE: 52 28 04 N LONGITUDE: 128 10 10 W

**ELEVATION:** Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Occurrence on Geological Survey of Canada Map 1328A, north of Neekas Inlet. Located on Crown granted Lot 9, showing No. 1 from Figure 3 (Assessment Report 16148). See also Neekas (103A 004).

Silver COMMODITIES: Zinc Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite Sphalerite **Pvrite** 

ASSOCIATED: Quartz ALTERATION: Epidote Calcite Garnet

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Concordant **Podiform** 

CLASSIFICATION: Skarn TYPE: K01 Replacement Igneous-contact

Cu skarn SHAPE: Tabular

DIMENSION: STRIKE/DIP: 310/90S TREND/PLUNGE:

COMMENTS: Bedding strikes approximately 310 degrees and dips near vertically.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Triassic Unnamed/Unknown Group Unnamed/Unknown Formation

Unknown Unnamed/Unknown Informal

LITHOLOGY: Biotite Hornblende Schist

Greenstone Marble Granodiorite

HOSTROCK COMMENTS: Stratigraphic ages uncertain.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) TERRANE: Alexander

METAMORPHIC TYPE: Contact Regional RELATIONSHIP: Syn-mineralization GRADF: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

YEAR: 1987

CATEGORY: Assay/analysis SAMPLE TYPE: Chip **COMMODITY GRADE** 

310 degrees and dips near vertically.

Copper 0.1500 Per cent Zinc 2.1200 Per cent

COMMENTS: The sample width is 2.5 metres. REFERENCE: Assessment Report 16148.

**CAPSULE GEOLOGY** 

The occurrence is associated with a band of epidote-garnet skarn which averages one to three metres in width, in a belt of intercalated marble, greenstone, and biotite-hornblende schist.

These rocks are of probable Triassic age and may represent a pendant or inclusion in the granodiorite batholithic rocks. Mineralization consists of lenticular masses of pyrrhotite and pyrite with some

sphalerite and a little chalcopyrite occurring along lines of schistosity and also along planes of jointing.

The property was Crown Granted to McKay and M. Moss in 1882. In 1931 W.A. Robbins drove a 6.7-metre adit from the west bank at

the mouth of the Neekas River.

The adit appears to follow bedding planes within the intercalated greenstone and marble. Bedding strikes approximately

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UTM ZONE: 09 (NAD 83)

NORTHING: 5813392

EASTING: 556421

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### CAPSULE GEOLOGY

In 1952 the area surrounding the Hebrew Crown Grant was staked as the Neekas 1 to 12 claims (see Neekas, 103A 004). Workings on the Neekas consisted of a series of open cuts which exposed the mineralized zones about 1200 metres to the northwest and 250 metres to the southwest of the adit. Kennco Explorations Canada Limited and American Smelting and Refining examined the property in 1953.

In 1987 the area was staked as the Neekas claim by Lac Minerals, who conducted an exploration program of soil and stream sediment sampling and geological mapping. A 2.5-metre chip across the adit mouth on the old Hebrew Crown grant assayed 2.12 per cent zinc and 0.15 per cent copper (Assessment Report 16148). In 1991, Cascadia Prospecting Syndicate staked the area including the Hebrew and Neekas showings and conducted rock, silt and soil sampling, hoping to find evidence of volcanogenic massive sulphide mineralization. The work confirmed that the showings are skarns. The best grab sample returned an a value of 10.72 per cent zinc (Assessment Report 22139).

The Hebrew claim is held in good standing until July 2002 by Brian Hall of Bowen Island.

### **BIBLIOGRAPHY**

EMPR AR 1896-562; \*1931-A34; 1953-A166 EMPR ASS RPT \*16148, 22139 GSC MAP 9-1966; 1328A; 1385A GSC MEM 372

GSC P 66-25

DATE CODED: 1986/04/22 DATE REVISED: 1999/08/03 CODED BY: GRF REVISED BY: JMR FIELD CHECK: N

MINFILE NUMBER: 103A 003

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 004

NATIONAL MINERAL INVENTORY: 103A8 Au1

NAME(S): **NEEKAS**, HEBREW

STATUS: Showing REGIONS: British Columbia NTS MAP: 103A08E BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

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LATITUDE: 52 28 19 N NORTHING: 5813852 EASTING: 556114

TREND/PLUNGE:

LONGITUDE: 128 10 26 W ELEVATION: 140 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing No. 2 from figure 3 (Assessment Report 16148). Located 800

metres west of north end of Neekas Cove. See also Hebrew

(103A 003).

COMMODITIES: Zinc Silver Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Galena Pyrite Chalcopyrite Covellite Pyrrhotite 1 ASSOCIATED: Calcite Quartz Garnet Pyroxene **Phlogopite** 

**Epidote** ALTERATION TYPE: Pyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Disseminated

CLASSIFICATION: Igneous-contact Skarn TYPE: KO2

Pb-Zn skarn DIMENSION: Metres STRIKE/DIP: 310/90S

COMMENTS: Bedding strikes approximately 310 degrees and dips near vertically.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Triassic Undefined Group Unnamed/Unknown Formation

Unknown Unnamed/Unknown Informal

LITHOLOGY: Volcanic Rock

**Gneissic Diorite** Coarse Grained Marble Amphibolite Mafic Volcanic Foliated Tonalite Tonalite

Mafic Dike

HOSTROCK COMMENTS: Stratigraphic ages uncertain (Geological Survey of Canada Map 1328A).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1987

SAMPLE TYPE: Chip

**COMMODITY** 10.3000 Silver Grams per tonne Copper 0.4400 Per cent 9.9900 Per cent Zinc

COMMENTS: The sample width is 2.0 metres. REFERENCE: Assessment Report 16148.

CAPSULE GEOLOGY

The stratigraphy in the Neekas-Hebrew area consists of a central zone of mixed sedimentary rocks, volcanics, and limestone, surrounded by gneissic diorites. The stratified rocks strike northwesterly from the mouth of the Neekas Creek to Salmon Bay, and is on average 150 metres wide. The enclosing diorites appear to be younger, suggesting that the stratified rocks are a roof pendant. Ages of both units are unknown. It is most likely that the diorites are part of the Mesozoic Coast Plutonic

Complex. The stratified rocks may be as old as Devonian and may

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

be correlative with the Sicker Group. The stratified rocks face steeply to the southwest. The structurally lowest (so presumably the oldest) rocks on the property are, dark green, melanocratic, foliated, medium-grained massive mafic volcanics, which are locally metamorphosed to amphibolite. Immediately to the south and enclosing other units of mafic volcanics is a mixed package of banded metasediments and volcanics, including calcareous bands. Metamorphic biotite, chlorite, garnet and albite are present. This mixed unit is roughly 300 metres thick. Two or more bands of white, coarse-grained marble averaging 25 metres in thickness, are interbedded with the stratified rocks. The marble bands host or are in close proximity to the mineralization on this property. Spatially associated with the marble are two phases of skarn, the first has marble as a protolith, the second has the mixed stratified unit as a protolith. Garnet, pyroxene, phlogopite, sulphides, plus quartz and calcite are present. Bordering the upper contact of the stratified rocks along the southern margin are a series of foliated tonalites. A series of unfoliated porphyritic tonalites outcrop north of the stratified rocks. Unfoliated mafic dikes crosscut all of the aforementioned

Mineralization consists of sulphide veins (sphalerite, pyrite, pyrrhotite, galena and chalcopyrite), and of blebs, pods and disseminations of the above minerals, and covellite, in the mafic volcanics. Skarn minerals; garnet, pyroxene, phlogopite and epidote, are associated with the veins.

In 1952 the area surrounding the Hebrew Crown Grant (103A)

003) was staked as the Neekas 1 to 12 claims. Workings on the Neekas consisted of a series of open cuts which exposed the mineralized zones about 1200 metres to the northwest and 250 metres to the southwest of the adit. Kennco Explorations Canada Limited and American Smelting and Refining examined the property in 1953.

In 1987 the area was staked as the Neekas claim by Lac Minerals, who conducted an exploration program of soil and stream sediment sampling and geological mapping. The geochemistry indicated anomalously high zinc values along the volcanic zone. A 2-metre chip sample of massive sulphide on the outer Neekas claim assayed 9.99 per cent zinc, 0.44 per cent copper, and 10.3 grams per tonne silver. A 2.5-metre chip across the adit mouth on the old Hebrew Crown grant assayed 2.12 per cent zinc and 0.15 per cent copper (Assessment Report 16148). In 1991, Cascadia Prospecting Syndicate staked the area including the Hebrew and Neekas showings and conducted rock, silt and soil sampling, hoping to find evidence of volcanogenic massive sulphide mineralization. The work confirmed that the showings are skarns. The best grab sample returned a value of 10.72 per cent zinc (Assessment Report 22139).

### **BIBLIOGRAPHY**

EMPR ASS RPT \*16148, 22139 GSC MAP 9-1966; 1328A; 1385A GSC MEM 372 GSC P 66-25

DATE CODED: 1987/11/10 DATE REVISED: 1999/08/03

CODED BY: LDJ REVISED BY: JMR FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 005

NATIONAL MINERAL INVENTORY:

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MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5779174 EASTING: 560653

REPORT: RGEN0100

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NAME(S): **DENNY ISLAND** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103A01E BC MAP:

LATITUDE: 52 09 35 N

LONGITUDE: 128 06 48 W ELEVATION: Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Located near Bella Bella.

COMMODITIES: Perlite

**MINERALS** 

SIGNIFICANT: Perlite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Magmatic Industrial Min.

TREND/PLUNGE: DIMENSION: STRIKE/DIP: 160/90S

COMMENTS: Dykes strike between 145 and 175 degrees and have near vertical dips.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Triassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

Unnamed/Unknown Informal Tertiary

LITHOLOGY: Glass Dike

Intrusive

HOSTROCK COMMENTS: Amorphous dykes most likely associated with andesitic rocks of the

Bella Bella Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander

**CAPSULE GEOLOGY** 

Black, highly fractured, amorphous glass dykes are part of a group of numerous dykes in the area that cut batholithic rocks. The dykes strike 145 degrees to 175 degrees and have a vertical dip.

**BIBLIOGRAPHY** 

GSC SUM RPT 1921, Part A, p. GSC MEM 372, p. 79 GSC MAP 9-1966; 1328A; 1385A Part A, p. 27A

GSC P 66-25

DATE CODED: 1986/04/14 DATE REVISED: 1988/11/25 CODED BY: GRF REVISED BY: JNR FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103A 005

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 006

NATIONAL MINERAL INVENTORY:

NAME(S): SUZETTE BAY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103A08W BC MAP: LATITUDE: 52 24 11 N

NORTHING: 5806012 EASTING: 537588

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LONGITUDE: 128 26 51 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centered on limestone outcrop on south shore of Suzette Bay

as shown on GSC map 1328A.

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R09 Limestone
COMMENTS: Limestone trends west. Massive Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER **FORMATION** Coast Plutonic Complex

LITHOLOGY: Limestone

Quartz Diorite

HOSTROCK COMMENTS: Absolute age uncertain (Geological Survey of Canada Map 1328A).

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Teslin Plateau

TERRANE: Alexandér

**CAPSULE GEOLOGY** 

A narrow mass of limestone extends for a kilometre along the south side of Suzette Bay on the west coast of Dowager Island. The limestone is bounded to the south by foliated quartz diorite of the

Coast Plutonic Complex.

**BIBLIOGRAPHY** 

GSC MAP 9-1966; 1328A; 1385A GSC MEM 372

GSC P 66-25

DATE CODED: 1986/04/14 DATE REVISED: 1989/07/28 CODED BY: GRF REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103A 006

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 007

NATIONAL MINERAL INVENTORY:

NAME(S): PRINCESS ROYAL ISLAND

STATUS: Past Producer Open Pit REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

BC MAP: LATITUDE: 52 54 07 N

NORTHING: 5861468 EASTING: 531893

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LONGITUDE: 128 31 33 W ELEVATION: 58 Metres

NTS MAP: 103A15E

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on Lots 146 and 147 as shown on NTS topographic map

COMMODITIES: Limestone Marble

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz

Pyrite Mica

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: ROS Lime Massive Industrial Min.

Limestone

DIMENSION: 300 Х 15 Metres STRIKE/DIP: COMMENTS: Dips gently westward.

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

LITHOLOGY: Limestone

Schist Granite Quartzite

HOSTROCK COMMENTS: Absolute age uncertain (Geological Survey of Canada Map 1328A). Sit-

uated in a metasedimentary roof pendant of the Coast Plutonic Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Alexander

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Coast Plutonic Complex

INVENTORY

ORE ZONE: QUARRY REPORT ON: N

> YEAR: 1944 CATEGORY: Assay/analysis SAMPLE TYPE: Grab

COMMODITY **GRADE** 

Per cent 96.1600 Limestone

COMMENTS: Equivalent to 53.88 per cent CaO. REFERENCE: Canmet Report 811, Part 5, pages 171,176.

CAPSULE GEOLOGY

A band of limestone 12 to 15 metres thick is exposed for a length of 300 metres. The white limestone is coarse-grained,

contains many siliceous impurities and is cut by numerous dykes.

A gently westward dipping 12 to 15 metre thick bed of limestone is exposed for 300 metres along the east shore of Princess Royal Island on Lots 146 and 147, 11 kilometres south of the village of Swanson Bay. The bed is overlain by schist in contact with granite of the Coast Plutonic Complex. Dykes frequently intrude the limestone.

The deposit is composed of white coarse grained limestone

(marble) containing inclusions of schist and quartzite that parallel the bedding. Quartz veins and streaks of mica and pyrite are common. A sample of the purest limestone exposed in a quarry contained 53.88 per cent CaO, 0.72 per cent MgO, 1.56 per cent SiO2, 0.25 per cent Al2O3, 0.18 per cent Fe2O3 and 0.02 per cent sulphur (Canmet Report 811, p. 176).

Limestone was produced here from two quarries earlier this century for the pulp mill at Swanson Bay.

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1992-18, p. 62 GSC MAP 9-1966; \*1328A; 1385A GSC MEM 372 GSC P 66-25 CANMET RPT \*811, Part 5, p. 171,176

DATE CODED: 1986/04/15 DATE REVISED: 1989/07/28 CODED BY: GRF REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103A 007

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 008

NATIONAL MINERAL INVENTORY:

NAME(S): MUSSEL INLET

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103A16E BC MAP: LATITUDE: 52 54 59 N

NORTHING: 5863421 EASTING: 566006

PAGE:

REPORT: RGEN0100

14

LONGITUDE: 128 01 06 W ELEVATION: Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located at the northeast end of Mussel Inlet in Poison Cove (GSC

Summary Report 1921, Part A, page 25).

COMMODITIES: Graphite

MINERALS SIGNIFICANT: Graphite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Industrial Min.

TYPE: P03 Microcrystalline graphite

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE
Upper Paleozoic GROUP Undefined Group

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Graphitic Schist

Schist

Biotite Hornblende Schist

Limestone

HOSTROCK COMMENTS: Absolute age uncertain (Geological Survey of Canada Map 1328A).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE:

**CAPSULE GEOLOGY** 

Finely disseminated graphite occurs in schists at the northeast

end of Mussel Inlet.

The schists occur within a metasedimentary belt about 8

kilometres wide that extends northwest from Cascade Inlet to the head

of Mussel Inlet and farther north into the Douglas Channel area. Typically, this Upper Paleozoic(?) package is comprised of

biotite-hornblende schist, quartzite and limestone.

**BIBLIOGRAPHY** 

GSC SUM RPT \*1921, Part A, p. 25A

EMPR AR 1929-C67 GSC MAP 9-1966; \*1328A; 1385A; 1424A

GSC MEM 372

GSC P 66-25

DATE CODED: 1986/04/22 DATE REVISED: 1999/03/17

CODED BY: GRF REVISED BY: GJP

FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 009

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5816345

EASTING: 517990

REPORT: RGEN0100

15

NAME(S): WANDA, MOLLY 1-6, LM 22

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103A07E 103A10E BC MAP:

LATITUDE: 52 29 49 N LONGITUDE: 128 44 06 W

**ELEVATION:** Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on the north side of Higgins Passage, on the east side of

Kitasu Hill within an old quarry.

COMMODITIES: Molybdenum Gold

**MINERALS** 

SIGNIFICANT: Pyrite Molybdenite ASSOCIATED: Quartz Calcite

ALTERATION: Limonite
ALTERATION TYPE: Oxidation Pyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Vein

CLASSIFICATION: Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE Triassic **FORMATION** GROUP IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation Undefined Group

LITHOLOGY: Meta Volcanic

Meta Sediment/Sedimentary

HOSTROCK COMMENTS: Triassic (?) metasediments and metavolcanics.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander METAMORPHIC TYPE: Regional TERRANE:

RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1981 Assay/analysis

SAMPLE TYPE: Chip <u>GR</u>ADE COMMODITY

0.0690 Gold Grams per tonne

COMMENTS: 0.3 metre chip sample taken across a quartz vein.

REFERENCE: Property File - Heard, R.T., 1981.

**CAPSULE GEOLOGY** 

Rocks in the area of the Wanda claims are Triassic (?) metasediments and metavolcanics in contact or overlain by basaltic flows of the Lake Island Formation to the northeast and by Permian (?) gneissic diorites to the north and west.

A molybdenite showing was reported on the Molly 1-6 claims in 1973 by a Mr. C.L.M. Giggey. The showing occurs on the claims in the vicinity of an old rock quarry which was excavated during the construction of the Kitasu radio tower.

The Wanda claims cover the area around this old quarry site.

quarry is within metavolcanics which host abundant pyrite and subsequent limonite staining. The volcanics are cut by quartz and quartz-calcite veins which range up to 10 metres in width.

In 1981, a 0.3 metre chip sample taken across a quartz vein along a faulted zone within the quarry assayed less than 0.069 grams per tonne gold, 0.02 grams per tonne silver and less than 0.01 per cent lead and zinc. The molybdenite showing reported was not located.

**BIBLIOGRAPHY** 

GSC MEM 372

GSC MAP 9-1966; 1385A

GSC P 66-25

EMPR PF (Heard, R.T., (1981): \*Preliminary Report on the Wanda Mineral Prospect, Higgins Passage, Skeena Mining District,

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

British Columbia, May 1981, in Prospectus for Interstate Energy Corp., Mar. 10, 1983; Interstate Energy Corp., Statement of Material Facts #59/88, dated Jun. 30, 1988)

DATE CODED: 1988/02/23 DATE REVISED: / /

CODED BY: LLD REVISED BY:

FIELD CHECK: N FIELD CHECK:

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 010

NATIONAL MINERAL INVENTORY:

NAME(S): BLACK LEAD

STATUS: Showing REGIONS: British Columbia NTS MAP: 103A16E BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

LATITUDE: 52 47 30 N LONGITUDE: 128 00 07 W NORTHING: 5849562 EASTING: 567301

IGNEOUS/METAMORPHIC/OTHER

MINFILE NUMBER: 103A 010

LONGITUDE: 128 00 07 W ELEVATION: 50 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The location is for the Black Lead claim located at the mouth of the creek that drains into Desbrisay Inlet (a small inlet on the porth side of Kynoch Inlet). A sketch man shows the Black Lead

north side of Kynoch Inlet). A sketch map shows the Black Lead and Black Lead 1 to 5 claims attached in line and extending west from the creek. The above location conflicts with the written location that describes the claims extending west from Kainet ("River") Creek (Prospectus, Western Canada Graphite (Property File). Kainet Creek actually empties into a smaller bay several kilometres east of Desbrisay Inlet (Prospectus, Western Canada Graphite (Property

File)). See Gem (093D 019) for further details.

COMMODITIES: Graphite

**MINERALS** 

SIGNIFICANT: Graphite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Industrial Min.

TYPE: P05 Vein graphite

COMMENTS: The character of the graphite occurrence is supsect due to the poor documentation. An early GSC Summary Report documents a disseminated

graphite showing on Mussel Inlet (see 103A 008).

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

Upper Paleozoic Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Biotite Hornblende Schist

Quartzite Limestone

HOSTROCK COMMENTS: Age uncertain.

**GEOLOGICAL SETTING** 

STRATIGRAPHIC AGE

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges TERRANE: Undivided Metamorphic Assembl.

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

Graphite is reported to occur at the Black Lead occurrence on Kynoch Inlet, about 70 kilometres north of Bella Bella.

**FORMATION** 

The mineralized rocks occur within a metasedimentary belt about 8 kilometres wide that extends northwest from Cascade Inlet to the head of Mussel Inlet and farther north into the Douglas Channel area. Typically, this Upper Paleozoic(?) package is comprised of biotite-hornblende schist, quartzite and limestone.

Several graphite occurrences, staked in the 1920s, were held by Western Canada Graphite Limited of Vancouver, of which the Black Lead was one. In a highly promotional prospectus (in Property File) published in 1929, the company described several graphite occurrences along Kynoch Inlet and one near Mussel Inlet to the north. The report states that graphite "has been found running through all these claims in such masses as to make the working of it practically a stoping or quarrying proposition. The veins containing it vary from 4 feet (1.2 metres) to 300 feet (91 metres); and the assays of

samples taken show from 15% to 100% pure graphite."

Besides the Black Lead, the other graphite properties were Giant (103A 011), Green Giant (093D 018), Gem (093D 019), Grey Giant (093D 020) and Zenith (093D 021). No record of development exists for these properties.

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR \*1929-C67

EMPR PF (\*Prospectus, Western Canada Graphite Limited, 1929 (with sketch map of claim locations; Letter by Joseph T. Mandy (resident government mining engineer) disputing prospectus

information)

GSC MAP 9-1966; 1328A; 1385A; 1424A GSC MEM 372 GSC P 66-25

GSC SUM RPT 1921, Part A, p. 25A

DATE CODED: 1999/03/10 DATE REVISED: 1999/03/10 CODED BY: GRF REVISED BY: GJP FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103A 010

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 011

NATIONAL MINERAL INVENTORY:

NAME(S): GIANT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103A16E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 52 55 48 N LONGITUDE: 128 08 04 W ELEVATION: 50 Metres NORTHING: 5864834 EASTING: 558181

LOCATION ACCURACY: Within 500M

COMMENTS: The Giant 1-4 claim were located (in 1929) west of Feeder Creek which empties into Oatswish Bay at the bend in Mussel Inlet. The Giant claims are shown to run from the shore in a northwest line (Sketch

Map - Property File).

COMMODITIES: Graphite

**MINERALS** 

SIGNIFICANT: Graphite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein
CLASSIFICATION: Industrial Min.
TYPE: P05 Vein graphite

COMMENTS: The character of the graphite occurrence is supsect due to the poor documentation. An early GSC Summary Report documents a disseminated

graphite showing on Mussel Inlet (see 103A 008).

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u>

Upper Paleozoic Undefined Group **FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Biotite Hornblende Schist

Quartzite Limestone

HOSTROCK COMMENTS: Age uncertain.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Kitimat Ranges

TECTONIC BELT: Coast Crystalline TERRANE: Undivided Metamorphic Assembl.

METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

Graphite is reported to occur at the Giant occurrence on Mussel

Inlet, about 70 kilometres north of Bella Bella.

The mineralized rocks occur within a metasedimentary belt about 8 kilometres wide that extends northwest from Cascade Inlet to the

8 kilometres wide that extends northwest from Cascade Inlet to the head of Mussel Inlet and farther north into the Douglas Channel area. Typically, this Upper Paleozoic(?) package is comprised of biotite-hornblende schist, quartzite and limestone.

Several graphite occurrences, staked in the 1920s, were held by Western Canada Graphite Limited of Vancouver, of which the Giant was one. In a highly promotional prospectus (in Property File) published in 1929, the company described several graphite occurrences along Kynoch Inlet and one near Mussel Inlet to the north. The report states that graphite "has been found running through all these claims in such masses as to make the working of it practically a stoping or quarrying proposition. The veins containing it vary from 4 feet (1.2) quarrying proposition. The veins containing it vary from 4 feet  $(1.2 \, \text{metres})$  to 300 feet (91 metres); and the assays of samples taken show from 15% to 100% pure graphite."

Besides the Giant, the other graphite properties were called Black Lead (103A 010), Green Giant (093D 018), Gem (093D 019), Grey Giant (093D 020) and Zenith (093D 021). No record of development

exists for these properties.

**BIBLIOGRAPHY** 

EMPR AR \*1929-C67

EMPR PF (\*Prospectus, Western Canada Graphite Limited, 1929 (with sketch map of claim locations (in 103A 010 (Black Lead) file); Letter by Joseph T. Mandy (resident government mining engineer) discussing prospectus information (in 103A 010 (Black Lead) file). GSC MAP 9-1966; 1328A; 1385A; 1424A

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 372 GSC P 66-25 GSC SUM RPT 1921, Part A, p. 25A

DATE CODED: 1999/03/10 DATE REVISED: 1999/03/10 CODED BY: GRF REVISED BY: GJP FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103A 011

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 012

NATIONAL MINERAL INVENTORY:

NAME(S): **DANNY**, DAN 1-4

STATUS: Showing REGIONS: British Columbia NTS MAP: 103A07E BC MAP:

MINING DIVISION: Skeena

LATITUDE: 52 24 33 N LONGITUDE: 128 37 36 W ELEVATION: 0 Metres

UTM ZONE: 09 (NAD 83) NORTHING: 5806614

PAGE:

REPORT: RGEN0100

21

**EASTING: 525395** 

LOCATION ACCURACY: Within 500M COMMENTS: Location of southern boundary of claim block at the shoreline.

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite Quartz ASSOCIATED: Pyrite Marcasite ALTERATION: Chlorite Epidote MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein Discordant

CLASSIFICATION: Hydrothermal TYPE: K07 Mo sk Skarn **Epigenetic** Mo skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Mesozoic Coast Plutonic Complex Tertiary Coast Plutonic Complex

LITHOLOGY: Gneissic Diorite

Amphibolite Dike Skarn Chert

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Milbanke Strandflat

### **CAPSULE GEOLOGY**

The Danny property is located on the east shore of Price Island. Two molybdenite showings are located on the claim. The showings were first discovered by a trapper in the 1930s. In the 1950s a fisher noted that crabs caught in the area had black shells, searched for the cause, and found the showings again. Four claims were located in 1980 by M.S. Elson to cover the main showing. They were sold to V.L. Paulger and Associates in March 1981. Mr Paulger had twenty additional claim units located in March 1981, and then turned the claims over to Brinks Energy Corporation. That same year Brinks Energy Corporation established an 8-kilometre grid over the property and conducted a geochemical sampling program. Several weakly anomalous zones having a northeast orientation were indicated by the results.

The regional map shows that most of the Danny claim is underlain by gneissic diorite of the Coast Plutonic Complex, which contain inclusions of metasedimentary rocks and amphibolitic dikes. These rocks are intruded in the north part of the claim block by Late Tertiary syenite.

Two skarn zones are developed over an areal extent of several hundred square feet around the showings. The skarn is dark green to medium brown on weathered surface. It is very calcareous to pure calcite in part with quartz stringers and chert nodules as en echelon inclusions. The whole area appears to have been affected by thrusting from the east.

Molybdenite occurs as blebs and rosettes to two centimetres in diameter and as continuous streaks to twenty centimetres in length. These mineralized streaks have a preferred orientation of 070 degrees. The host is a white aphanitic quartz. Two showings exist. The primary one displays molybdenite mineralization in a quartz vein or bed having dimension of one by three metres. The mineralization cuts across the layering at right angles to the strike. The showing proper is in an outcrop about seven by three metres in size. Footwall rocks are skarn and very basic chloritized and epidotized dike rocks, while hanging wall rocks are granitic.

MINFILE NUMBER: 103A 012

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33

The second showing is about 15 metres away from the first. It contains blebs of molybdenite in a quartz vein system in the skarn.

Pyrite and marcasite occur in the area but are not associated

with the molybdenite.

The two main showings are on the beach and are covered or surrounded by the sea at high tide.

**BIBLIOGRAPHY** 

EMPR ASS RPT 10646 GSC MAP 1327A GSC MEM 372

DATE CODED: 1999/08/26 DATE REVISED: / /

CODED BY: JMR REVISED BY:

FIELD CHECK: N

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REPORT: RGEN0100

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MINFILE NUMBER: 103A 012

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 001 NATIONAL MINERAL INVENTORY: 103B13 Fe1

NAME(S): **IRON DUKE** 

STATUS: Developed Prospect REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

NTS MAP: 103B13E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 52 59 29 N NORTHING: 5874586 LONGITUDE: 131 43 16 W ELEVATION: 335 Metres **EASTING: 317474** 

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, located north of Waste Creek approximately 4 kilometres west of

Girard Point on northeastern Louise Island (Bulletin 54).

COMMODITIES: Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite Pyrite Chalcopyrite

COMMENTS: Rare chalcopyrite

ALTERATION: Magnetite
ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Industrial Min.

CLASSIFICATION: Skarn Replacement Fe skarn

TYPE: K03 SHAPE: Tabular MODIFIER: Faulted

DIMENSION: 290 x 60 x 40 Metres STRIKE/DIP: 045/30N TREND/PLUNGE:

COMMENTS: Wedge-like magnetite ore zone with digitated margins.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Kunga Sadler Upper Triassic Vancouver Karmutsen

Kano Plutonic Suite Tertiary

ISOTOPIC AGE: 34.3 +/- 0.6 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Limestone

Basaltic Greenstone Greenstone

Diorite Granodiorite Diorite Porphyry Dacite Porphyry

Skarn

HOSTROCK COMMENTS: Age date from the Geological Survey of Canada Paper 90-10, page 64,

Figure 3.

GEOLOGICAL SETTING
TECTONIC BELT: Insular

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional RFI ATIONSHIP: GRADE: Greenschist Contact

Hornfels

INVENTORY

ORE ZONE: IRON DUKE REPORT ON: Y

> CATEGORY: Combined YFAR: 1962

> QUANTITY: 495276 Tonnes

COMMODITY 46.0000

COMMENTS: Proven and probable ore. Grade is 46% iron as magnetite; sulphur may average 2%. An additional possible 32,655 tonnes may be present.

REFERENCE: Bulletin 54, page 182.

CAPSULE GEOLOGY

The property is on the slope north of Waste Creek about 4 kilometres west of Girard Point on the northeast coast of Louise

Island

The showings were discovered and staked in 1911 and subsequently

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

optioned to the Western Steel Co., of Irondale, Washington. The property was owned in 1913 by H.K. Owen, of Seattle. Most of the early development work was done in 1918 by the owners, Messrs. Rogers, Benson, and Larson. An adit was driven for 23 metres and at a point 15 metres from the portal a crosscut was driven across a 4-metre wide dike. The 10 claim property, Lots 2331-2340, was Crown-granted in 1921. A small amount of additional work was reported in 1922.

By the late 1950's the property had been acquired by Campbell M. Robertson and associates, of New Westminster. Work began with an examination and magnetometer survey by Silver Standard Mines Limited in 1959. During 1961 exploration initiated by Campbell Robertson included a geological examination and an attempt to build a road to the property from the shore near Mathers Creek. In the autumn the property was optioned by Magnum Consolidated Mining Co. Ltd., who made a magnetometer survey of the property and a geological map of the vicinity. Two diamond drills were moved to the Iron Duke late in 1961, and in January and February 1962, 15 AX holes were drilled totalling 931 metres. Later in the year Silver Standard optioned the property and drilled 33 FX holes totalling 1465 metres. Most of the known magnetic and the magnetic anomaly are on Iron Duke No. 2 claim (Lot 2333), but both extend uphill onto the southwest corner of Iron Duke No. 1 (Lot 2332).

In the Iron Duke occurrence area, a thick grey limestone bed of the Upper Triassic Sadler Formation (Lower Jurassic to Upper Triassic Kunga Group) overlies chloritized basaltic (greenstone) rocks of the Upper Triassic Karmutsen Formation (Vancouver Group). The limestones strike north to northeast and dip gently west. The rocks are intruded by altered diorite to granodiorite and some diorite to dacite porphyries related to the Tertiary Kano Plutonic Suite. The limestones and greenstones are extensively skarned and replaced by magnetite and minor iron sulphides.

The magnetite ore occurs in a dislocated northeast trending zone along the limestone-greenstone contact. The ore zone and host rocks are cut by three steep post-ore faults trending about 120 degrees with 15 to 90 metre left-hand offsets. The ore zone is wedge-shaped with highly digitized margins. It strikes 045 degrees, dips 30 degrees north and measures 260 by 60 by 40 metres. Mineralization consists principally of magnetite and pyrite and rare chalcopyrite. Skarn minerals are disseminated and intercalated within the ore zone and also form an envelope around the ore zone. Combined (proven and probable) reserves are 495,276 tonnes of 46 per cent iron as magnetite; sulphur may average 2 per cent; an additional possible 32,655 tonnes may be present (Bulletin 54, page 182).

### **BIBLIOGRAPHY**

EMPR BULL \*54, pp. 180-182
EMPR AR 1911-77; 1913-104; 1918-40,41; 1921-39; 1922-386; 1927-481;
 1961-17; 1962-13
EMPR PF (Dunn, W. (1960): Report on Investigation of Aeromagnetic
 Anomalies, Louise Island and Tasu Sound, Mar.9, 1960 for Silver
 Standard Mines Ltd.; \*Campbell, D.D. (1962): Report on the
 Iron Duke Property for Silver Standard Mines Ltd., Oct. 1962;
 Sketch Maps by P.R. Wilson, 1962)
EMPR OF \*1988-28, pp. 79,80; 1992-1; 1992-9
GSC P 86-20; 88-1E, pp. 213-216,221-227; 89-1H, pp. 7-11, 95-116;
 90-10, pp. 59-87
GSC MAP 278A; 1385A; 2-1990
GSC EC GEOL 3, \*Vol.1, 1926, pp. 27-30
EMR MP CORPFILE (Magnum Consolidated Mining Co. Ltd.; Silver Standard Mines Limited)
EMR MP RESFILE (Iron Duke)
MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/06/25 DATE REVISED: 1999/10/30 CODED BY: LDJ REVISED BY: PSF

FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 103B 002

NATIONAL MINERAL INVENTORY: 103B6 Cu18

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5802235

**EASTING: 349477** 

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NAME(S): GEORGE ISLAND, COPPER ISLANDS

STATUS: Past Producer

REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 20 59 N

LONGITUDE: 131 12 36 W ELEVATION: 30 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of George Island, off the southeastern corner of Burnaby Island. See also Skincuttle Island (103B 021) and East Copper

Island (103B 022).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Magnetite Pyrite Bornite Tennantite Cuprite

ASSOCIATED: Quartz ALTERATION: Garnet ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Vein

Vančouver

CLASSIFICATION: Skarn Replacement

TYPE: K08 Garnet skarn

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Kunga Sadler Karmutsen

Upper Triassic LITHOLOGY: Amygdaloidal Andesite

TERRANE: Wrangell

Amygdaloidal Basalt

Skarn Garnet Skarn Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

The Copper Islands showings are located off the south-eastern corner of Burnaby Island, on three small islands, Skincuttle, George, and East Copper.

These showings were discovered by Francis Poole while prospecting for Queen Charlotte Mining Company in 1862-3. There is

no record of this company as a Canadian incorporation.

In 1900 the showings were rediscovered by A. Heino who staked three mineral claims, the Skincuttle Entrance, Golden Gate, and Trust, on East Copper Island. Mr. Heino worked the claims until about 1930. Development consisted of a 30-metre shaft with a 55-metre crosscut, a 12-metre shaft, and a 46-metre adit. In 1907 Abe Johnson restaked the Red Raven claim on the south side of East Copper Island. He drove a 11-metre adit and a 3-metre crosscut on the property. In 1917 the East Copper Island showings (103B 022), held as the Quinitsa claim, produced 36.2 tonnes of copper ore which was shipped to the Granby smelter.

The Skincuttle Island showings (103B 021) were held in 1902-07 by Messrs. Law, Hamilton and Raper. Development work on the three claims, Skincuttle, Poole, and Margaret, included 6.7-metre and 9.1-metre shafts, two crosscut adits, 6 open cuts, and some trenching. The showings were later staked by A. Heino.

The George Island showing was owned by W. Campbell in 1910. In the mid 1960's the Copper Islands showings were held as follows: Skincuttle Island, part of Jib "B" group; George Island, Sandy Nos. 1 to 4; East Copper Island, Elma group - five claims. Work done at this time included a minor amount of packsack drilling on East Copper Island, and a magnetometer survey at sea off the island by Burnaby Iron Mines Limited in 1964.

The Copper Islands are underlain by grey limestone of the

MINFILE NUMBER: 103B 002

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

Upper Triassic Sadler Formation (Kunga Group) and intrusive sills of amygdaloidal andesite to basalt of the probable Upper Triassic Vancouver Group, Karmutsen Formation. The strata strikes east, dips 10 to 30 degrees north, and is cut by small steep block faults oriented north-northwest and west.

The showings are mainly in garnet-rich skarns, which replace the

volcanics for several hundred metres along strike, but are rarely over 3 metres thick. Mineralization occurs as disseminated chalcopyrite and minor magnetite, pyrite, bornite, tennantite and cuprite. Chalcopyrite also occurs disseminated in adjacent unskarned limestone as veinlets transecting the bedding in and near skarns and in quartz veins associated with the block faults.

The George Island showings were worked from 1903 to 1912, producing a very minor amount of copper ore (Production records are not available).

### **BIBLIOGRAPHY**

EMPR AR \*1903-211; 1909-71; \*1910-84; 1911-76; \*1912-110 EMPR BULL \*54, pp. 197,198 GSC MAP 1385A GSC P 86-20; \*88-1E, pp. 221-227; 89-1H; 91-1A, pp. 383-391 MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/16 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 002

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 003

NATIONAL MINERAL INVENTORY: 103B12 Cu2

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5842426 EASTING: 309941

REPORT: RGEN0100

27

NAME(S): LAST CHANCE, JONES, MERRY K, D, SWEDE

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B12W

BC MAP:

LATITUDE: LONGITUDE: 131 48 46 W ELEVATION: 60 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adits, map 30 (Assessment Report 6005); main horizon is 500 metres

to Northwest. Location is just south of McEchran Cove, near

Darwin Sound.

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Chalcocite Copper **Bornite** 

ALTERATION: Epidote Chlorite

Chloritic

ALTERATION TYPE: Epidote
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Vein CLASSIFICATION: Volcanogenic TYPE: D03 Volcanic redbed Cu

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Upper Triassic GROUP Vancouver **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Karmutsen Triassic-Jurassic Kunga Undefined Formation

LITHOLOGY: Amygdaloidal Andesite Tuff

Limestone Diabase Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist

Post-mineralization

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1976 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY

Silver 0.0800 Grams per tonne 0.5500 Per cent

Copper COMMENTS: 3.3 metre chip sample.

REFERENCE: Assessment Report 6005, Figure 3.

CAPSULE GEOLOGY

The property is located south of McEchran Cove. A work history

of the area is included with the Swede (103B 009).

The dominant rock type in the area is a Vancouver Group, amygdaloidal andesite of the Upper Triassic Karmutsen Formation which has undergone greenschist grade regional metamorphism. The volcanics contain interbedded tuffs and limestones, overlain by minor Jurassic to Triassic Kunga limestone and are cut by diabase dikes.

Copper mineralization occurs in several locations, however two main horizons, 500 metres apart, have been tested by adits and drilling. Mineralization consists of disseminated and fracture and vesicle filled chalcopyrite, commonly associated with epidote, chlorite and quartz within the volcanics. Chalcocite, native copper and bornite are usually present in the more intensely mineralized zones. A 3.3-metre chip sample assayed 0.55 per cent copper and 0.08 gram per tonne silver (Assessment Report 6005).

> MINFILE NUMBER: 103B 003

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

EMPR AR 1907-70,71; 1908-61; 1909-71; 1910-85; 1914-162; 1916-87; 1918-40; 1928-65; 1967-58

EMPR ASS RPT \*662, \*6005, 11603, 12760, 13991, 17719

EMPR BULL \*54, pp. 215,216

EMPR EXPL 1976-E161; 1983-492; 1985-C363

EMPR PF (Selnes, W.E., (1970): Ana Lake Mining Ltd., Copper Mineralization Potentialities and Proposed Future Development Program, Brandy Mineral Claims Group. Queen Charlotte Islands; Ana Lake Brandy Mineral Claims Group, Queen Charlotte Islands; Ana Lake
Mining Ltd., Prospectus dated September 14, 1971 and Prospectus
dated May 15, 1973 - refer to Swede - 103B 009)

EMR MP CORPFILE (\*Ana Lake Mining Ltd.) GSC MAP 278A; 1385A GSC P 86-20; 88-1E, pp. 221-227; 89-MIN REV March/April 1988, pp. 19-24 221-227; 89-1H

DATE CODED: 1986/07/10 DATE REVISED: 1989/03/08 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 003

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 004

NATIONAL MINERAL INVENTORY: 103B13 Zn1

PAGE:

REPORT: RGEN0100

29

NAME(S): **HAWKES NEST**, ANNEY FR. (L.138), BLUE BELL (L.135), LILLY (L.137), MAND (L.136), HAWKE'S NEST FR. (L.139)

STATUS: Showing Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B13E

UTM ZONE: 09 (NAD 83) BC MAP: NORTHING: 5856672 EASTING: 321740 LATITUDE:

LONGITUDE: 131 38 46 W ELEVATION: 150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Figure 4 (Assessment Report 8902); located at the east end of

Talunkwan Island.

COMMODITIES: Gold Zinc Copper

Chlorite

**MINERALS** 

SIGNIFICANT: Sphalerite Chalcopyrite Pyrrhotite ASSOCIATED: Quartz ALTERATION: Epidote Calcite Epidote

ALTERATION TYPE: Propylitic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic TYPE: \* Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen Oligocene Kano Plutonic Suite

ISOTOPIC AGE: 33.8 +/- 0.6 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Amygdaloidal Basalt

Dioritic Dike Quartz Monzonite

HOSTROCK COMMENTS: Age date of quartz monzonite phase of southern Louise Island Pluton

(GSC Paper 90-10, p. 65).

**GEOLOGICAL SETTING** TECTONIC BELT: Insular

ORE ZONE: SAMPLE

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Svn-mineralization Regional GRADF: Greenschist Post-mineralization Hornfels

INVENTORY

CATEGORY: YEAR: 1980 Assay/analysis SAMPLE TYPE: Rock

**GRADE COMMODITY** 

Gold 2.0000 Grams per tonne

COMMENTS: Grab sample - diorite dyke. REFERENCE: Assessment Report 8902.

**CAPSULE GEOLOGY** 

The showing is located between sea level and 305 metres

elevation on the east end of Talunkwan Island.

The Hawks Nest group of 5 claims was owned by Messrs. Hamming and Magee from about 1908. During 1909 the claims were surveyed and

REPORT ON: N

two adits driven. In 1911 the Blue Bell, Maud, Lilly, Anney Fraction, and Hawk's Nest Fraction (Lots 135-139, respectively) were Crown-granted to Elizabeth A.O. Hemming.

J.T. Shearer prospected and sampled the property in 1979 and 1980.

The claims are underlain by shattered, massive, chloritized amygdaloidal basalt of the Vancouver Group, Upper Triassic Karmutsen Formation which has undergone low grade greenschist regional metamorphism. To the west, a quartz monzonite pluton occurs west of the north trending Louscoone Fault zone. The monzonitic pluton is

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

related to the Eocene to Oligocene Kano Plutonic Suite. The volcanics are cut by diorite dikes and calcite-quartz-epidote veinlets.

Minor amounts of sphalerite, chalcopyrite and pyrrhotite occur disseminated in the volcanics and diorite dikes. A sample from a dike returned 2.0 grams per tonne gold (Assessment Report 8902).

### **BIBLIOGRAPHY**

EMPR AR 1908-62; 1909-71; 1910-85; 1911-287; 1963-128 EMPR ASS RPT 481, \*7917, \*8902 EMPR BULL \*54, p. 220 EMPR EXPL 1980-369,370 EMPR PF (Selnes, W.E., (1970): Ana Lake Mining Ltd., Copper EMPR PF (Selnes, W.E., (1970): Ana Lake Mining Ltd., Copper Mineralization Potentialities and Proposed Future Development Program, Brandy Mineral Claims Group, Queen Charlotte Islands; Ana Lake Mining Ltd., Prospectus dated September 14, 1971 and Prospectus dated May 15, 1973 - refer to Swede - 103B 009)

EMR MP CORPFILE (\*Ana Lake Mining Ltd.)

GSC MAP 278A; 1385A

GSC P 86-20; 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112, 117-120; 90-10, pp. 59-87, 465-487; 92-1A, pp. 351-360

DATE CODED: 1986/06/26 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 004

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REPORT: RGEN0100

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MINFILE NUMBER: 103B 005

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5828846 EASTING: 339179

REPORT: RGEN0100

31

NAME(S): **RAMSAY ISLAND** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B11W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 52 35 09 N LONGITUDE: 131 22 26 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: North end of Ramsay Island.

COMMODITIES: Bitumen

**MINERALS** 

SIGNIFICANT: Bitumen MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein
CLASSIFICATION: Fossil Fuel
TYPE: T MIS Industrial Min.

MISCELLANEOUS

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Masset

**Undefined Group** Tertiary Unknown Unnamed/Unknown Informal

ISOTOPIC AGE: 35.9 +/- 1.4 Ma DATING METHOD: Potassium/Argon

LITHOLOGY: Agglomerate

HOSTROCK COMMENTS: Age date from basalt on east shore of Ramsay Island (GSC Paper 88-1E,

page 271; Figure 4, page 273; Table 1).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

Bitumen occurs in fissures within agglomerate rocks of the Tertiary Masset Formation on the northern and eastern shores of Ramsay Island, on House Island, on Agglomerate Island and on the

Tar Islands.

**BIBLIOGRAPHY** 

EMPR AR 1901-1002 EMPR BULL 54, Fig. 5

EMPR FIELDWORK 1997, pp. 19-1-19-14

GSC MAP 1385A

GSC P 86-20; \*88-1E, pp. 221-227, 269-274; 89-1H; 91-1A, pp. 383-391

CODED BY: LDJ REVISED BY: PSF DATE CODED: 1986/06/25 DATE REVISED: 1999/08/31 FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 005

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 006

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5814507

EASTING: 337952

REPORT: RGEN0100

32

NAME(S): **HUXLEY ISLAND** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06W BC MAP:

LATITUDE: 52 27 24 N LONGITUDE: 131 23 06 W

**ELEVATION: 5** Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showings, Figures 16, 8, 3 (Assessment Report 8251) on Huxley Island,

located just northwest of Burnaby Island.

Silver COMMODITIES: Copper 7inc Gold

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Podiform

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: K SHAPE: Irregular SKARN

E03 Carbonate-hosted disseminated Au-Ag MODIFIER: Faulted

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Kunga Sadler Upper Triassic Kunğa Peril

Kano Plutonic Suite Eocene

ISOTOPIC AGE: 43.7 +/- 1.1 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Hornblende

LITHOLOGY: Siliceous Limestone

Limestone Black Limestone Andesitic Dike

Age date from andesite dike of the Carpenter Bay dike swarm (GSC HOSTROCK COMMENTS:

Paper 90-10, page 71, Table 2).

TECTONIC BELT: Insular

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> Assay/analysis YEAR: 1980

CATEGORY: Assay SAMPLE\_TYPE: Rock

COMMODITY **GRADE** 

Gold 0.8000 Grams per tonne

COMMENTS: Grab sample.

REFERENCE: Assessment Report 8251.

**CAPSULE GEOLOGY** 

The northwest part of Huxley Island is underlain by massive grey limestone and thin bedded black limestone of the Late Triassic Sadler and Peril Formations (Kunga Group), which are cut by andesitic dikes of the Eocene-Oligocene Kano Plutonic Complex (Burnaby Island Dike The rocks are also cut by north-northwest trending faults Swarm). related to the Louscoone Inlet-Rennell Sound fault zone.

Pods of massive pyrite, chalcopyrite and sphalerite occur in silicified grey limestone adjacent to andesite dikes. A sample to A sample taken about 500 metres northeast of these showings assayed 0.8 gram per tonne of gold (Assessment Report 8251). In 1979, a 2.0-metre chip sample taken from silicified limestone assayed 0.14 gram per tonne gold, 450.0 grams per tonne silver and traces of antimony (Assessment Report 8094).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8094, \*8251

EMPR BULL 54

EMPR EXPL 1979-240; 1980-364

GSC MAP 1385A

GSC P 86-20; 88-1E, pp. 221-227; 89-1H, pp. 95-112, 117-120; 90-10, pp. 59-87, 163-172, 465-487; 91-1A, pp. 383-391

DATE CODED: 1986/07/08 DATE REVISED: 1999/08/31 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103B 006

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 007

NATIONAL MINERAL INVENTORY:

NAME(S): **ALDER GOLD** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

MINING DIVISION: Skeena

NTS MAP: 103B06W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

34

LATITUDE: 52 26 49 N NORTHING: 5813293 EASTING: 341974

LONGITUDE: 131 19 31 W

**ELEVATION: 1** Metres LOCATION ACCURACY: Within 500M

COMMENTS: Gold showing, Figures, 5, 7, 14 (Assessment Report 8251). Location on Alder Island, just north of Burnaby Island.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold Sphalerite COMMENTS: Free Gold. ASSOCIATED: Quartz ALTERATION: Silica Calcite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: E03 Carbo **Epigenetic** 

Carbonate-hosted disseminated Au-Ag Н **FPITHERMAI** 

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Kunga Peril

LITHOLOGY: Siliceous Limestone Black Limestone

Limestone Andesitic Dike Granitic Intrusive Volcanic Rock

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Svn-mineralization GRADE: Greenschist Regional Post-mineralization Hornfels

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1980 Assay/analysis

SAMPLE TYPE: Rock COMMODITY

Grams per tonne

COMMENTS: Grab sample from Alder Zone.

REFERENCE: Assessment Report 8251.

CAPSULE GEOLOGY

Alder Island is underlain by complex geology, including folded limestone and argillite of the Jurassic to Triassic Kunga Group, Middle Jurassic Yakoun Group volcanics, Lower Cretaceous Longarm

Formation sandstones and Tertiary Masset Formation basalts.
Granitoid intrusives related to the Middle to Late Jurassic Burnaby Island plutonic suite intrude both Kunga and Yakoun Group rocks.

Visible gold with minor sphalerite occurs in brecciated, silicified, thin-bedded, black limestone of the Peril Formation of the Kunga Group. The best assay obtained was 10.9 grams per tonne

gold over 15 centimetres (Assessment Report 8251).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8094, \*8251

EMPR BULL 54

EMPR EXPL 1979-240; \*1980-364

GSC MAP 1385A

GSC P 86-20; 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10,

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

pp. 163-172; 91-1A, pp. 383-391

DATE CODED: 1986/07/08 DATE REVISED: 1999/08/31 FIELD CHECK: N FIELD CHECK: N CODED BY: LDJ REVISED BY: PSF

MINFILE NUMBER: 103B 007

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 008 NATIONAL MINERAL INVENTORY: 103B12 Cu1

NAME(S): APEX, STAR, ALPINE

STATUS: Developed Prospect REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

NTS MAP: 103B12W BC MAP: LATITUDE: 52 41 44 N NORTHING: 5842333

LONGITUDE: 131 53 36 W ELEVATION: 800 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Ore zone, located between Botany Inlet and Anna Lake (McDougall,

COMMODITIES: Iron Magnetite Silver Copper

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite Pyrrhotite

ASSOCIATED: Garnet Calcite Epidote

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Skarn TYPE: K03 Fe ska Massive

Industrial Min. Replacement

Fe skarn

DIMENSION: 100 x 3 COMMENTS: Ore zone x 15 x 35 Metres STRIKE/DIP: TREND/PLUNGE: 345/15

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Kunga Sadler

Upper Triassic

Upper Jurassic San Christoval Plutonic Suite

ISOTOPIC AGE: 170-175 +/- 5 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Limestone

Volcanic Rock Hornblende Diorite Basalt Dike Feldspar Porphyry Dike

Skarn

Age date from the Geological Survey of Canada (R.G. Anderson, personal HOSTROCK COMMENTS:

communication, 1989).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: APEX REPORT ON: Y

> CATEGORY: YEAR: 1963 Inferred

QUANTITY: 181420 Tonnes **GRADE** 

COMMODITY Copper 0.9000 Per cent Iron 34.0000 Per cent

Silver 24.6000 Grams per tonne

COMMENTS: Assuming continuity between 2 exposures and 3 packsack holes. REFERENCE: Property File - McDougall, 1964.

**CAPSULE GEOLOGY** 

The showings are on the ridge between Botany Inlet of Tasu Sound

and Anna Lake at an elevation of 823 to 853 metres.

The showings were discovered by Messrs. Davies, Bell, and Harris in 1907 and staked as the Apex group. Annual assessment work was carried out for several years. In 1912 the property was optioned to E.M. Morgan and associates. A crosscut adit 15 metres below the surface workings was driven 61 metres and drifts run in a westerly direction. The claims subsequently lapsed. In 1926 the property was held as the Star group of 6 claims, owned by R. Morrison, Rand McDonald and W.H. Watson, of Lockeport. The old workings at that time were reported to consist of a 91 metre on the Star claim and a

> MINFILE NUMBER: 103B 008

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UTM ZONE: 09 (NAD 83)

**EASTING: 304486** 

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RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

30 metre adit on the Nellie L claim. The claims apparently lapsed in the 1930's.

In the 1960's the property consisted of two located claims, Alpine No. 1 and No. 2 held by Wesfrob Mines Limited. Exploration work included sampling, and in 1963 three packsack holes totalling 98 metres drilled to confirm the continuity between the two exposures. "Assuming this continuity, Young and Uglow calculated the reserves as about 300,000 tons of ore. Calculations based on the drilling indicate somewhat less ore with a grade of close to 50 per cent iron and possibly 1 per cent copper" (BCDM Bulletin 54, page 192).

The Apex ore zone consists of a chalcopyrite-bearing magnetite

skarn at the base of a small roof pendant near the eastern margin of a hornblende diorite pluton of the Late Jurassic San Christoval Plutonic Suite. The pendant consists of grey limestone of the Upper Triassic Sadler Formation (Lower Jurassic to Upper Triassic Kunga Group), cut by basalt and feldspar porphyry dikes. The bedding strikes approximately 160 degrees and dips about 70 degrees east. the east are volcanics which are probably correlative to the Upper

Triassic Karmutsen Formation (Vancouver Group).

The ore zone, measuring roughly 100 by 35 by 15 metres, trends 345 degrees and plunges 10 to 15 degrees. Skarn and magnetite replace limestone, minor volcanics and hornblende diorite at the base of the pendant. Garnet, calcite and epidote occur as replacement minerals. Pyrite and pyrrhotite are present in minor amounts.

Individual samples of magnetite yielded values of 28 to 53 per cent iron and 0.24 to 1.96 per cent copper.

Inferred reserves are 181,420 tonnes grading 34 per cent iron,

0.9 per cent copper and 24.6 grams per tonne silver; assuming continuity between two exposures and three packsack holes (McDougall, 1964).

#### **BIBLIOGRAPHY**

EMPR AR \*1908-61; 1909-71-79; 1910-85; 1911-77; 1912-110; 1913-99; 1926-67; 1930-64 EMPR BULL \*54, p. 192 EMPR OF \*1988-28, p. 83; 1992-1; 1992-9 EMPR PF (\*McDougall, J.J. (1964): Summary Report on Apex (Alpine) Copper-Magnetite, Feb.4, 1964) EMR MIN BULL MR 223 B.C. 279 EMR MP RESFILE (Star Group Apex) GSC EC GEOL \*3, Vol. GSC MAP 278A; 1385A Vol.1 (1926), pp. 30,31 GSC PA 86-20; 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87, 163-172 GSC SUM RPT \*1909, pp. 79,80 MIN REV March/April 1988, pp. 19-24 EMPR OF 1998-10

DATE CODED: 1986/07/10 DATE REVISED: 1989/03/06 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIFI D CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 009

NATIONAL MINERAL INVENTORY: 103B12 Cu2

PAGE:

NORTHING: 5843709

EASTING: 308769

REPORT: RGEN0100

38

NAME(S): **SWEDE**, BRANDY, D, LAST CHANCE, ANA LAKE, WET,

EAGLE, LOCK, RAVEN

Underground MINING DIVISION: Skeena

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B12W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 52 42 34 N LONGITUDE: 131 49 51 W

Metres

ELEVATION: 20 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Old adits, Plan #3 (Assessment Report 13991); located south of Anna

COMMODITIES: Copper **Platinum** Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite Palladium **Bornite** Pyrite Pyrrhotite Gold

Platinum Gallium

COMMENTS: Platinum and palladium occur in trace amounts.

ALTERATION: Chlorite
ALTERATION TYPE: Silicific'n Epidote **Epidote** Chloritic

MINERALIZATION AGE: Unknown

DEPOSIT

Breccia Vein

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic TYPE: D03 Volcar SHAPE: Irregular

Volcanic redbed Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen Triassic-Jurassic **Undefined Formation** Kunga

LITHOLOGY: Amygdaloidal Basalt

Basalt Greenstone

Andesite Agglomerate

Ignimbrite I imestone Black Limestone Limy Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

METAMORPHIC TYPE: Regional RFI ATIONSHIP: Syn-mineralization GRADF: Greenschist

Post-mineralization

INVENTORY

ORE ZONE: ADIT REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1967

SAMPLE TYPE: Chip **COMMODITY** 

20.5700 Silver Grams per tonne

Copper 1.7000 Per cent

COMMENTS: 4.5 metre sample from South Wall Adit. REFERENCE: Property File: Selnes, W.E., 1970, Figure 3A.

CAPSULE GEOLOGY

The property includes the whole of the Swede Peninsula on the east side of Anna Inlet in Klunkwoi Bay, Moresby Island. It is

**GRADE** 

located between sea level and 457 metres elevation.

The Swede group, consisting of 8 claims, was staked in January 1907 by Messrs. Larsen, Pearson, and Rogers. The adjoining Last Chance group (103B 003), consisting of 6 claims, was staked late in 1907 by Messrs. Wintermite, McEachern, and Jones. A few open cuts were developed on the properties.

In 1908 the property was bonded to J. Wulffsohn, who by 1910 had carried out development work in 3 adits. The main adit, 24 metres

> MINFILE NUMBER: 103B 009

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

above sea level, was driven for 52 metres. Another adit, 24 metres to the east and on the same level as the main adit, is a drift 10 metres in length. A third adit, at an elevation of 137 metres, was driven for 17 metres.

In 1916 The Granby Mining Company Limited carried out 607 metres of diamond drilling in 9 holes.

In 1951 Granby made a further reconnaissance examination of the property.

During 1956 New Jersey Zinc Explorations Company (Canada) Limited optioned the property. Exploration consisted of geological mapping, sampling, and the drilling of 3 diamond drill holes totalling 99 metres. Queen Charlotte Resources Ltd. acquired the property during 1961, and carried out geological and geophysical surveys.

In 1967 Cosmic-Lode Mines Ltd. acquired the property under option from Fleetwood Resources Ltd. Work on the property, then known as the "D" claims, included 5 trenches totalling 305 metres and 11 diamond drill holes totalling 305 metres.

In the fall of 1968 the area was restaked as the Brandy group and later transferred to Ana Lake Mining Ltd. During 1969, the company conducted a program of bulk sampling of the mineral zones exposed in the adits and trenches, deepened old trenches and trenched new areas. Preliminary geological mapping and topographical surveys were carried out. X-ray diamond drilling totalling 921 metres was done to obtain geological and structural information on the mineralized zones. An airborne magnetometer survey was completed in August 1969.

In 1983, J.S. Christie and G.G. Richards sampled and mapped the Eagle, Lock and Raven claims. Diamond International Industries Inc. sampled in 1985 and drilled 3 holes (261.5 metres) in 1988.

sampled in 1985 and drilled 3 holes (261.5 metres) in 1988.

The property is underlain mainly by Vancouver Group, Upper Triassic Karmutsen Formation volcanics consisting of andesitic agglomerate, pillow lavas, ignimbrite, amygdaloidal basalt and minor sandstone and limestone. The volcanics are overlain by massive grey limestone, black limestone and limy argillites of the Triassic to Jurassic Kunga Group. The rocks are cut by dacite, andesite and diorite dikes related to the Eocene-Oligocene Kano Plutonic Suite.

The peninsula is bounded by two north trending major faults, thought to be block faults. Weak shearing, brecciation and silicification have developed between the two faults.

Mineralization is confined to the amygdaloidal basalts and consists of fine disseminations, blebs, veinlets and stringers of chalcopyrite and bornite. The sulphides show preferential concentration with areas of chloritized and epidotized amygdules. Pyrite and pyrrhotite occur in minor amounts.

Copper mineralization is low-grade (0.5 to 2 per cent) over a 100 metre length. Some samples from the "Bornite" adit assayed small values in silver, gold, platinum and trace palladium and gallium (Selnes, W.E., 1970, page 24).

Three adits sampled in 1967 assayed from 3.5 per cent copper up to 2.5 per cent copper with silver values ranging from 6.86 grams to 20.57 grams per tonne silver (Selnes, W.E., 1970, Figure 3A).

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EMPR AR 1907-69,70; 1908-61; 1909-71-82; 1910-85; 1911-77; 1912-110; 1913-99-104; 1914-162; 1915-75; 1916-87; 1918-40; 1920-44; 1921-39; 1923-43; 1925-65; 1926-67; 1927-59; 1928-65,66; 1929-57,58; 1930-64; 1956-22; 1962-134; 1967-58
EMPR ASS RPT *426, 662, 1889, 6005, *11603, 12760, 13991, 17719
EMPR BULL *54, pp. 215,216
EMPR EXPL 1976-E161; 1983-492; 1985-C363
EMPR OF *1986-7, pp. 34,35
EMPR PF (*Selnes, W.E., (1970): Ana Lake Mining Ltd., Copper Mineralization potentialities and Proposed Future Development Program, Brandy Mineral Claims Group, Queen Charlotte Islands in Prospectus for Ana Lake Mining Ltd., dated May 15, 1973; Ana Lake Mining Ltd. Prospectus dated September 14, 1971 - includes report by Selnes, W.E., dated December 2, 1970; Livingston, E., (1956): Geological Report on the Swede Group, Moresby Island B.C., Queen Charlotte Islands, August 21, 1956)
EMR MP CORPFILE: (Ana Lake Mining Ltd.; New Jersey Zinc Exploration Company (Canada) Ltd.)
GSC MAP 1385A
GSC P 86-20; 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87, 465-487; 92-1A, pp. 351-360
GSC SUM RPT 1909, pp. 78,79
GCNL #4, 1983; #91, 1984; #11,#171, 1985; #46, 1986
MIN REV March/April 1988, pp. 19-24
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PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

N MINER March 14, 1985 PERS COMM (R.G. Anderson, March 1989) USGS Prof. Paper 630 pp. 28,29 V STOCKWATCH Dec.11, 1987

DATE CODED: 1986/07/10 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF

MINFILE NUMBER: 103B 009

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 010

NATIONAL MINERAL INVENTORY: 103B12 Au2

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

PAGE:

NORTHING: 5838916 EASTING: 316762

REPORT: RGEN0100

41

NAME(S): SHUTTLE ISLAND PLACER, TICKSEY

STATUS: Past Producer Open Pit

MINING DIVISION: Skeena REGIONS: British Columbia, Queen Charlotte Islands UTM ZONE: 09 (NAD 83)

NTS MAP: 103B12E BC MAP:

LATITUDE: 52 40 09 N LONGITUDE: 131 42 36 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Shuttle Island located in Darwin Sound.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Placer

TYPE: C03 Marine placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Group Unnamed/Unknown Formation Recent Upper Triassic Karmutsen Vancouver

LITHOLOGY: Unconsolidated Gravel

Volcanic

HOSTROCK COMMENTS: Placer gold source most likely from auriferous veins in Vancouver

Group, Upper Triassic Karmutsen volcanics.

GEOLOGICAL SETTING
TECTONIC BELT: Insular

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The beach placer deposit is located on the north part of Shuttle Island in Darwin Sound. Gold nuggets up to \$15 in value were discovered in 1918 by employees of a timber company in the gravel on the beach. The beach was subsequently staked as the Ticksey placer

claim. In 1919 owner J. Hendricks hauled beach gravel by boat to a small creek about 0.8 kilometre away for washing. About 1679 grams of gold recovered from this operation were sent to the Dominion

Government Assay Office, in Vancouver, the owner keeping an additional estimated \$300-\$400 worth of nuggets. In 1921 a pump was

installed to supply water for sluicing and about 186 grams gold were recovered during 1922. Another sluicing operation began in December

1933 373 grams of gold were recovered.

Gold occurs in beach gravels derived from erosion of small gold-bearing quartz veins in volcanic rocks of the Upper Triassic Vancouver Group, Karmutsen Formation (refer to Ellen - 103B 012).

Recorded production from the beach placer deposit of Shuttle Island during the years 1919, 1922 and 1933 totals 2468 grams of gold (National Mineral Inventory Card 103B12 Au2).

**BIBLIOGRAPHY** 

EMPR AR 1918-105; 1921-39; 1922-42; 1933-40

EMPR BULL 28, p. 48; 54, pp. 174,218

GSC MAP 1385A

GSC P 86-20; 88-1E, pp. 221-227; 89-1H; 90-10; 92-2A, pp. 351-360

CMJ May 21, p. 389

DATE CODED: 1986/07/10 CODED BY: FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/03/09 FIELD CHECK: N

MINFILE NUMBER: 103B 010

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

Industrial Min.

FORMATION Undefined Formation

Karmutsen

MINFILE NUMBER: 103B 011

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5797187

EASTING: 352829

IGNEOUS/METAMORPHIC/OTHER

Kano Plutonic Suite

REPORT: RGEN0100

42

NAME(S): ARCHIE - ADIT CREEK, ADIT CREEK

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E BC MAP:

52 18 19 N 131 09 31 W LATITUDE: LONGITUDE:

ELEVATION: 120 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adits, Figure 1 (Assessment Report 8197). Located on the hill slopes

north of Ikeda Cove, approximately 2 kilometres southwest of Ikeda

Point.

COMMODITIES: Iron

Copper

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite

ASSOCIATED: Calcite ALTERATION: Epidote Quartz Pyrite

COMMENTS: Calc-silicate alteration assemblage prevalent.

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Podiform Massive CLASSIFICATION: Skarn Replacement

TYPE: K03 Fe skarn

SHAPE: Regular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Kunga STRATIGRAPHIC AGE

Triassic-Jurassic Upper Triassic Vancouver

Tertiary

ISOTOPIC AGE: 43.7 +/- 1.1 Ma

DATING METHOD: Potassium/Argon MATERIAL DATED: Hornblende

LITHOLOGY: Limestone

Skarn

Magnetite Skarn Massive Magnetite

Argillite Greenstone Volcanic Rock Felsic Sill

HOSTROCK COMMENTS: Age date from andesite dike of Carpenter Bay Dike Swarm (GSC Paper

90-10, page 71, Table 2).

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TECTONIC BELT: Insular

TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADF: Greenschist Regional

Post-mineralization Hornfels

CAPSULE GEOLOGY

The area is underlain by limestone and argillite of the Jurassic to Triassic Kunga Group which is intruded by felsic sills related to the Eocene-Oligocene Kano Plutonic Suite (Carpenter Bay Dike Swarm). The Kunga limestones are conformably underlain by Vancouver Group,

Upper Triassic Karmutsen Formation volcanics.

Iron skarn mineralization occurs in limestone adjacent to a felsic sill near the Karmutsen contact. The skarn is a pod of massive magnetite, 1.5 to 3 metres wide and 10 metres long with a selvage (less than a metre) of pyrite, magnetite and chalcopyrite.

Between 1979 and 1982, Placer Development Limited conducted sampling and geological mapping. In 1987, G.G. Richards sampled the

property.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8197, 8714, 10198, 16225, 17507, 19026

EMPR BULL 54

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR EXPL 1980-365; 1981-231; 1987-C346
GSC MAP 1385A
GSC P 86-20; 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112, 117-120; 90-10, pp. 59-87, 163-172; 91-1A, pp. 383-391
MIN REV March/April 1988, pp. 19-24

FIELD CHECK: N DATE CODED: 1986/07/17 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF

MINFILE NUMBER: 103B 011

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 103B 012

NAME(S): ELLEN, BUD, AEROPLANE, SHUTTLE ISLAND, GEORGIA MAC, BALD EAGLE FR.

STATUS: Past Producer

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B12E

BC MAP:

LATITUDE: 52 40 04 N LONGITUDE: 131 42 36 W ELEVATION: 20 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Old workings, Figure 2 (Assessment Report 12215); located in Shuttle

Island in Darwin Sound.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold

COMMENTS: Free gold in quartz veins.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Epigenetic **Epithermal** 

TYPE: H03 Hot spring Au-Ag

HOST ROCK

DOMINANT HOSTROCK: Volcanic

GROUP Vancouver TRATIGRAPHIC AGE

Upper Triassic

**FORMATION** Karmutsen

IGNEOUS/METAMORPHIC/OTHER

NATIONAL MINERAL INVENTORY: 103B12 Au1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5838761 EASTING: 316756

PAGE:

REPORT: RGEN0100

44

LITHOLOGY: Greenstone

Limestone Tuff Argillite Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

## CAPSULE GEOLOGY

The property is located on Shuttle Island, in Darwin Sound. The discovery in 1918 of placer gold on the adjacent beach by a timber company employee led to the staking of 23 claims. Developmen work began in sinking an 8-metre shaft at the intersection of the Development two veins. In 1919 a drift adit was driven 20 metres on the smaller vein. From 45 tonnes of ore produced from this operation, 560 grams

of gold were recovered by mortaring and panning.

In 1921 the property consisted of 4 claims, the Ellen, Georgia
Mac, Bald Eagle Eraction, and Aeroplane, owned by a Mr. Edwards and partner. By that time the adit following the smaller vein had been extended to a length of 30 metres, to the junction with the main vein; the main vein was then drifted for 7.6 metres. The property was optioned early in 1921 to Archie McVittie. The 'Ellen Group' Gold Mining Company, Limited, was incorporated in April 1921 to acquire and develop the property, however, very little further work was reported and the company charter was surrendered in 1925.

In the early 1960's the property was held by Pamoil Limited as the Bud 1-13 claims. A geophysical survey of the property was carried out in 1963.

R. Woolverton conducted surveys in 1979 and 1984. Shuttle Island is underlain by Vancouver Group, Upper Triassic Karmutsen Formation rocks consisting of greenstones, tuffs and intercalated limestone and argillite. The rocks strike about 015 degrees and dip 70 degrees east.

Free gold mineralization occurs in two small intersecting brecciated quartz veins within a 20 to 30 metre wide tuff-limestone unit. The steeply dipping veins strike north and northeast for a distance of about 100 metres and are up to 2.5 centimetres wide. In 1919, about 49 tonnes of ore was shipped from the property.

From this ore about 560 grams of gold were recovered.

MINFILE NUMBER: 103B 012

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1918-41,105; 1919-40; 1920-44; 1921-39; 1922-42; 1923-43; 1924-43; 1963-128

EMPR ASS RPT \*482, 8071, \*12215

EMPR BC METAL MM00729

EMPR BULL \*54, p. 218

EMPR EXPL 1980-366; \*1984-360

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EMPR INDEX 3-195

EMPR INDEX 3-195

EMR MP CORPFILE (The "Ellen Group" Gold Mining Company, Limited)

GSC MAP 278A; 1385A GSC P 86-20; 88-1E, pp. 221-227; 89-1H; 90-10; 92-1a, pp. 351-360 GCNL #73, 1981

Chevron File

DATE CODED: 1986/07/10 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 012

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 013

NATIONAL MINERAL INVENTORY: 103B12 Fe1

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5838818 EASTING: 319391

REPORT: RGEN0100

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 $\label{eq:NAME} \mbox{NAME(S): } \underbrace{\mbox{LOBSTALK}}_{\mbox{BUD}}, \mbox{ MARVEN, VALLEY} \,,$ 

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B12E

BC MAP:

LATITUDE: 52 40 09 N
LONGITUDE: 131 40 16 W
ELEVATION: 20 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Figure 34 (Bulletin 54); located on the western shore of Lyell Island.

COMMODITIES: Iron

Pyrite

MINERALS
SIGNIFICANT: Magnetite
ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown

CLASSIFICATION: Skarn TYPE: K03 Fe skarn

Industrial Min. Replacement

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

GROUP Vancouver STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER **FORMATION** Upper Triassic Karmutsen

LITHOLOGY: Greenstone Limestone

Magnetite Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell RELATIONSHIP: GRADE: Greenschist

METAMORPHIC TYPE: Regional

CAPSULE GEOLOGY

The property is located on the west side of Lyell Island, Queen Charlotte Islands, northwest of Lyell Bay. The showings are less than 30 metres from shore.

The property was held in 1965 as the Marven group of 10 located claims. During the year Falconbridge Nickel Mines, Limited, put down 2 short packsack diamond drill holes; one bottomed in skarny magnetite at 27 metres; the other ended in greenstone at 23 metres. In 1964 a detailed magnetometer survey of the property was carried out by Placid Oil Company.

Pyritic magnetite replaces regionally metamorphosed greenstone and minor limestone of the Vancouver Group, Upper Triassic Karmutsen Formation. The rocks strike 150 degrees and dip about 50 degrees east.

Magnetite exposures and a magnetic anomalous area cover 14 square metres. A drill hole encountered magnetite skarn at 27 metres depth.

**BIBLIOGRAPHY** 

EMPR AR 1963-128; 1965-245 EMPR ASS RPT \*482, \*645

EMPR BULL \*54, p. 192

EMPR PF (McDougall, J.J., (1956): Report on Properties at Ikeda Bay, Queen Charlotte Islands, pp. 30-32 - refer to the Lily Mine,

103B 028) GSC MAP 1385A

GSC P 86-20; 88-1E, pp. 221-227; 89-1H; 90-10; 92-1A, pp. 351-360 MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/11 DATE REVISED: 1989/03/09 CODED BY: LDJ REVISED BY: LLC FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 014

NATIONAL MINERAL INVENTORY: 103B11 Sds1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5827922 EASTING: 334439

REPORT: RGEN0100

NAME(S): HOTSPRING ISLAND

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B11W BC MAP:

LATITUDE: 52 34 34 N LONGITUDE: 131 26 36 W ELEVATION: 10 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: West shore of Hotspring Island; located about 6.4 kilometres south

of Lyell Island.

COMMODITIES: Hotspring Sodium Sulphate

MINERALS
SIGNIFICANT: Chloride Sulphate

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown

CLASSIFICATION: Hydrothermal Industrial Min.

TYPE: TÓ2 Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Masset

Lower Cretaceous Undefined Group Longarm

LITHOLOGY: Agglomerate Siltstone

Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The hot mineral spring is located at a 9-metre elevation on the west shore of Hotspring Island which lies 26 kilometres

south of Lyell Island.

Analysis of the spring was taken in 1901.

The wallrock consists of a volcanic hypabyssal porphyry plug of the Tertiary Masset Formation, intruding siltstone and greywacke of the Lower Cretaceous Longarm Formation. These rocks are cut by

quartz veins up to several centimetres wide.

The hotspring issues from several fissures within agglomerates at a rate of about 0.06 cubic metres per minute. The issuing temperature is 72 degrees celsius and the pH at 23 degrees celsius is 8.1. An analysis of the water gave 28.5 grains per litre of chlorides and 1.2 grains per litre of sulphates. Elemental content of the water, in parts per million, is as follows: Si - 46, Ca - 61, Na - 784, K - 48, Cl - 1742, SO4 - 199 and HCO3 - 24.

The hotspring may be a saline spring recirculating warmed meteoric waters with added seawater.

meteoric waters with added seawater.

**BIBLIOGRAPHY** 

EMPR AR \*1901-1001,1002

EMPR BULL 54, Fig. 34

GSC MAP 1385A

GSC P 73-18, pp. 230,238; 86-20; 88-1E, pp. 221-227; 89-1H; 90-10;

91-1A, pp. 383-391 McDonald, J.J., (1978): Hotsprings of Western Canada, A Complete

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DATE CODED: 1986/06/25 CODED BY: FIELD CHECK: N DATE REVISED: 1989/03/09 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 014

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 015

NATIONAL MINERAL INVENTORY: 103B5 Mo1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5809462

EASTING: 327194

San Christoval Plutonic Suite

PAGE:

REPORT: RGEN0100

48

NAME(S): YAKULANAS

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B05E BC MAP:

LATITUDE: 52 24 29 N LONGITUDE: 131 32 26 W

ELEVATION: 1 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 34 (Bulletin 54); located on the western shore of Yakulanas Bay on the west side of Moresby Island.

COMMODITIES: Molybdenum

Copper

**MINERALS** 

SIGNIFICANT: Molybdenite Chalcopyrite Pyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: L PORP **Epigenetic** Igneous-contact PORPHYRY

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Upper Triassic Vancouver Karmutsen

Middle Jurassic

ISOTOPIC AGE: 170-175 +/- 5 Ma

DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Amphibolite Gneiss

Quartz Diorite

HOSTROCK COMMENTS: San Christoval Plutonic Suite is dated Middle Jurassic; age dates from

Geological Survey of Canada 1989 research work-Pers.Comm.:Anderson,R.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Svn-mineralization GRADE: Amphibolite Regional

Post-mineralization

**CAPSULE GEOLOGY** 

The showing is located at sea level on the southwest side of Yakulanas Bay on the west side of Moresby Island.

Irregular quartz veins with coarse molybdenite, pyrite and chalcopyrite, occur in Vancouver Group, Upper Triassic Karmutsen Formation amphibolite gneiss adjacent to quartz diorite of the Middle Jurassic San Cristoval Plutonic Suite.

**BIBLIOGRAPHY** 

EMPR BULL \*54, p. 220

GSC MAP 1385A

GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 92-1E, pp. 117-123

MIN REV March/April 1988, pp. 19-24 PERS COMM (R.G. Anderson, March 1989)

DATE CODED: 1986/06/26 DATE REVISED: 1989/03/03 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 016

NATIONAL MINERAL INVENTORY: 103B6 Ni1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5809821

EASTING: 339404

Burnaby Island Plutonic Suite

REPORT: RGEN0100

49

NAME(S): **JOHNSON NICKEL** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B06W BC MAP:

LATITUDE: 52 24 54 N

LONGITUDE: 131 21 41 W ELEVATION: 25 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figures 12, 13 (Assessment Report 8251); located near Section

Cove, Burnaby Island.

COMMODITIES: Nickel Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite Bravoite

COMMENTS: Minor nickeliferous minerals occur.

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown

CLASSIFICATION: Magmatic TYPE: M02 TI Igneous-contact Tholeiitic intrusion-hosted Ni-Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Kunga Undefined Formation Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Gabbro Limestone

Argillite

HOSTROCK COMMENTS: Diorite stock & gabbroic dikes related to Jurassic Burnaby Island

Plutonic Suite. Age date: R.G. Anderson (GSC), Pers. Comm., March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

Regional METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Greenschist Hornfels

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: YEAR: 1963 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Copper 1.0000 Per cent Nickel 1.0000 Per cent

REFERENCE: Bulletin 54, page 216.

CAPSULE GEOLOGY

The property is located at the northwestern end of Burnaby Island. The original discovery lies in the bottom of the westernmost north-flowing creek, about 183 metres from the shore.

The showing was apparently discovered by a Nick Johnson, who staked 2 claims. Silver Standard Mines Limited and Jedway Iron Ore Limited, a subsidiary of The Granby Mining Company Limited, optioned the 2 claims and staked an additional 138 claims. Joint exploration of the property was carried on from January 3rd to June 5th, 1963, and included geological mapping, magnetometer, electromagnetic, and geochemical soil surveys, trenching, and 565 metres of packsack diamond drilling in 30 holes. The diamond drilling showed the original discovery was confined to a small pocket. The geophysical work located other bodies of similar mineralization, none of which The geophysical were considered to be large enough to warrant further work.

The area is underlain by limestones and argillites of the Jurassic to Triassic Kunga Group. These are intruded by small heterogeneous diorite stocks and later gabbro dikes and plugs related

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

to the Middle to Late Jurassic Burnaby Island Plutonic Suite. The rocks are cut by north-northwest faults related to the Louscoone  $\,$ 

Inlet-Rennell Sound fault zone.

An outcrop, about 5.5 metres in diameter, consists of gabbro mineralized with pyrrhotite, chalcopyrite and bravoite with minor nickeliferous minerals. The occurrence contains about 1 per cent nickel and 1 per cent copper (Bulletin 54, page 216). The mineralized gabbro body is very localized, however, another mineralized outcrop was located several metres to the south.

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DATE CODED: 1986/07/07 DATE REVISED: 1989/03/06 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 016

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### MINFILE MASTER REPORT

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MINFILE NUMBER: 103B 017

NATIONAL MINERAL INVENTORY: 103B6 As1

Industrial Min.

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5812969

**EASTING: 342436** 

IGNEOUS/METAMORPHIC/OTHER

Burnaby Island Plutonic Suite

Hornfels

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51

NAME(S): **ALDER ISLAND** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B06W BC MAP:

LATITUDE: 52 26 39 N LONGITUDE: 131 19 06 W

ELEVATION: 60 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main east showing, Figures 5, 6, 17 (Assessment Report 8251); located on Alder Island, just north of Burnaby Island.

COMMODITIES: Copper Nickel

Antimony

Molybdenum Gold Arsenic

Hvdrothermal

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite Molybdenite Magnetite Allemontite

Replacement

COMMENTS: Arsenical allemontite and nickeliferous pyrrhotite. ASSOCIATED: Calcite

Actinolite

Diopside

Zoisite

Skarn Carbonate

ALTERATION: Garnet
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive Vein Disseminated

CLASSIFICATION: Skarn

Cu skarn TYPE: K01

SHAPE: Irregular MODIFIER: Faulted

COMMENTS: Mineralization occurs intermittently along the north trending

fault for about 700 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Yakoun STRATIGRAPHIC AGE

Middle Jurassic

Lower Cretaceous **Undefined Group** Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma

DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Cherty Siltstone Layered Carbonate

Skarn

Garnet Actinolite Diopside Skarn

Actinolite Diopside Zoisite Skarn

Mylonite

Vólcanic Rock Hornblende Monzonite

HOSTROCK COMMENTS:

Yakoun volcanics & Longarm sandstone intruded by dikes of Burnaby Is. Plutonic Suite. Age date:R.G. Anderson (GSC), Pers.Comm., March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**FORMATION** 

Longarm

Undefined Formation

RELATIONSHIP: Syn-mineralization METAMORPHIC TYPE: Contact GRADF: Greenschist Regional

CAPSULE GEOLOGY

The showing is located near sea level on Alder Island, 800 metres off the north end of Burnaby Island. It was staked in 1922 as

Post-mineralization

two recorded claims.

Alder Island is underlain by complex geology, including folded limestone and argillite of the Jurassic to Triassic Kunga Group, Middle Jurassic Yakoun Group volcanics, Lower Cretaceous Longarm Formation sandstones, Tertiary Masset Formation basalts and granitoid dikes related to the Middle to Late Jurassic Burnaby Island Plutonic

Suite.

An intense fault-mylonite zone extends the entire east side of the island. The mylonite is composed of shattered country rock, which is mainly Yakoun volcanics in the south and skarn, variabl variably developed in Longarm sandstones in the north. A silicified, chilled contact occurs between a hornblende monzonite and sheared greenstones

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#### **CAPSULE GEOLOGY**

to the east.

The massive to poorly bedded garnet-actinolite-diopside-zoisite skarn is interbedded with baked cherty siltstone and layered carbonate. Massive pyrrhotite pods with accessory chalcopyrite, molybdenite and magnetite occur along the skarn and fault-mylonite zones. Allemonite is associated with calcite veins and the pyrrhotite mineralization, which is sometimes nickeliferous.

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DATE CODED: 1986/07/08 DATE REVISED: 1989/03/05 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 017

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 018

NATIONAL MINERAL INVENTORY:

NAME(S): NICK'S SHOWINGS

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06W BC MAP:

LATITUDE: 52 25 39 N LONGITUDE: 131 18 41 W

ELEVATION: 60 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showings, Figures 10, 11 (Assessment Report 8251); located in the

northern part of Burnaby Island.

Cu skarn

COMMODITIES: Copper

Molybdenum

Nickel

MINERALS SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown

Chalcopyrite

Pyrrhotite

Molybdenite

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Skarn TYPE: K01 ( SHAPE: Irregular Igneous-contact

Replacement

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic

Kunga

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Burnaby Island Plutonic Suite

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5811101 EASTING: 342849

REPORT: RGEN0100

53

Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Argillite Skarn Hornfels

Limestone Quartz Monzonite

HOSTROCK COMMENTS:

Monzonitic intrusives related to Burnaby Is. Plutonic Suite. Age date from R.G. Anderson (GSC), Personal Communication: March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

METAMORPHIC TYPE: Contact

RELATIONSHIP: Syn-mineralization Post-mineralization GRADE: Greenschist

Hornfels

CAPSULE GEOLOGY

The area is underlain by argillite and limestone of the Jurassic to Triassic Kunga Group in contact with the monzonitic intrusives of the Middle to Late Jurassic Burnaby Island Plutonic Suite.

Copper, molybdenum and nickel showings occur in skarn and

hornfelsed argillite near the contact with quartz monzonite. The mineralization consists of disseminated chalcopyrite, pyrrhotite, The

pyrite and minor molybdenite.

Regional

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GSC P 88-1E, pp. 213-216,\*221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87, 163-172; 91-1A, pp. 383-391
MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/08 DATE REVISED: 1989/03/09

CODED BY: REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 019

NATIONAL MINERAL INVENTORY: 103B6 Fe3

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5809677

EASTING: 343843

Burnaby Island Plutonic Suite

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54

NAME(S): MAC, JONES MAGNETITE, BURNABY

STATUS: Developed Prospect

MINING DIVISION: Skeena REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06W BC MAP:

LATITUDE:

52 24 54 N 131 17 46 W LONGITUDE:

Metres ELEVATION: 80 LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 5, Sheet A (Bulletin 54);located in the northern part of Burnaby Island.

COMMODITIES: Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite ALTERATION: Garnet ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Skarn Massive

**Epigenetic** Industrial Min. Replacement

TYPE: K03 Fe skarn

SHAPE: Regular MODIFIER: Faulted

DIMENSION: 0075 x 0045 x 0005 STRIKE/DIP: 045/35N Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Sadler Karmutsen

Upper Triassic Upper Triassic Kunga Vančouver

Jurassic ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Limestone Massive Magnetite

Greenstone Skarn Monzonite

HOSTROCK COMMENTS: Karmutsen greenstones & Kunga limestones are intruded by Burnaby Is.

Plutonic Suite. Age date: R.G. Anderson (GSC), Pers. Comm., March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Greenschist Regional

Post-mineralization Hornfels

INVENTORY

ORE ZONE: MAC REPORT ON: Y

> YEAR: 1964 CATEGORY: Inferred

QUANTITY: 1360800 Tonnes COMMODITY **GRADE** 

Iron 45.0000 Per cent

COMMENTS: Possible reserve grading between 40 to 50 per cent iron.

REFERENCE: George Cross News Letter No.102, 1964.

CAPSULE GEOLOGY

The property is located on Burnaby Island, Queen Charlotte ds. The showings on the Mac No. 1 claim outcrop between Islands. elevations of 61 and 122 metres on the north side of an easterly

flowing stream 5.2 kilometres southwest of Scudder Point

The showings were discovered by A. Hino in about 1906 but little

exploration work was done other than a dip-needle survey.

Merrican International Mines Ltd. acquired the Mac group of 12 claims in 1962 and subsequently expanded the property to 57 claims. Work by the company during 1963-1964 included a ground magnetometer survey, trenching, 11 X-ray drill holes totalling 364 metres and 16

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GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

#### CAPSULE GEOLOGY

EX diamond drill holes totalling 1678 metres.

The company has stated possible reserves of 1,360,778 tonnes, grading between 40 and 50 per cent iron (George Cross Newsletter No. 102, 1964). Considering the drilling pattern which was largely enforced by topography, and the resulting acute intersections of strata and ore, the results would require caution in interpretation (Brown, 1968).

The area is underlain by limestone of the Upper Triassic Sadler Formation (Kunga Group) and greenstone of the Vancouver Group, Upper Triassic Karmutsen Formation. Both are intruded by monzonitic stocks of the Middle to Late Jurassic Burnaby Island Plutonic Suite. The stratified rocks strike 045 to 060 degrees and dip 35 to 55 degrees northwest. Fine-grained basic dikes and sills cut the limestone.

A concordant body of magnetite occurs as a replacement at the limestone and greenstone contact. The body is about 75 metres long and varies in thickness from 1.5 metres at the west to 7.6 metres at the east, where it abuts against a greenstone dike. A steeply dipping northwest fault cuts the magnetite zone, offsetting the east half 25 metres to the northwest. The main showing is almost pure magnetite with rare garnet crystals. Other skarn minerals or sulphides are seemingly absent in the ore.

Diamond drilling encountered magnetite with a downward extension of 45 metres. An average assay for mineralized sections gave 49 per cent iron. Inferred reserves are 1,360,800 tonnes grading between 40 to 50 per cent iron (George Cross Newsletter No.102, 1964).

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CMH 1972, p. 73 GCNL #102, 1964 MIN REV March/April 1988, pp. 19-24 Placer Dome File

DATE CODED: 1986/07/08 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/03/05 REVISED BY: LLD FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 020 NATIONAL MINERAL INVENTORY: 103B6 Fe2

NAME(S): JIB, POOLE, UNDERLIME

STATUS: Developed Prospect REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NTS MAP: 103B06W BC MAP:

NORTHING: 5802650 EASTING: 346081

LATITUDE: 52 21 09 N LONGITUDE: 131 15 36 W ELEVATION: 1 Metros ACCURACY: ... LOCATION ACCURACY: Within 500M

COMMENTS: Two orebodies lie approximately 75 and 210 metres below sea level

respectively, near Bluejay Cove on Burnaby Island (Bulletin 54).

COMMODITIES: Iron Magnetite Titanium Copper

**MINERALS** 

SIGNIFICANT: Magnetite Pyrite Chalcopyrite Pyrrhotite Sphalerite COMMENTS: Rare chalcopyrite, pyrrhotite and sphalerite. ALTERATION: Garnet **Epidote** Actinolite Pyroxene Chlorite

Hematite Quartz Calcite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Skarn TYPE: K03 Replacement Industrial Min.

Fe skarn DIMENSION: 120 x 12 Metres STRIKE/DIP: TREND/PLUNGE: 170/

COMMENTS: Underlime orebody.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

GROUP Kunga **FORMATION** TRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Sadler Upper Triassic Vancouver Karmutsen

Upper Jurassic Burnaby Island Plutonic Suite

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

> LITHOLOGY: Greenstone Limestone

> > Basalt Greenstone Sill Diorite Porphyry Basalt Andesité Dike Monzonite Quartz Monzonite

Skarn

HOSTROCK COMMENTS: Age date from the Geological Survey of Canada (R.G. Anderson, personal

communication, March 1989).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional GRADE: Greenschist RFI ATIONSHIP: Contact

Hornfels

INVENTORY

ORE ZONE: TOTAL REPORT ON: Y

> CATEGORY: Unclassified YEAR: 1965 QUANTITY: 7438220 Tonnes

COMMENTS: Estimated total reserves. Grade is soluble iron. Leitch Gold Mines

Limited, 1965 Annual Report. REFERENCE: Bulletin 54, page 197.

COMMODITY

CAPSULE GEOLOGY

The property is located in the Queen Charlotte Islands, at the

southeast corner of Burnaby Island, between Pelican and Bluejay

**GRADE** 

Coves.

The shoreline in this vicinity was prospected during the period 1862-64 by Francis Poole, apparently for The Queen Charlotte Mining

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

and Prospecting Company, Limited. Several small garnet skarn zones containing chalcopyrite and magnetite, occurring at intrusive-limestone contacts, were the targets of Poole's work, which included a 4-metre shaft and a 4-metre adit. Further work was reported on the Poole showings in 1902 by owner J. Raper who extended the shaft to 9 metres and the adit to 5 metres.

Denison Mines Limited carried out an aeromagnetic survey over the area in 1961. A magnetic anomaly was located offshore but the claims then located were allowed to lapse.

The ground, including the old Poole showings, was restaked in September 1962 as the 9 claim Jib group under a joint exploration agreement between Leitch Gold Mines Limited and Highland-Bell, Limited (or its wholly owned subsidiary Mastodon-Highland Bell Mines Limited). A ground magnetometer survey in the fall of 1962 defined three magnetic anomalies of 5,000 to 10,000 gamma relief at and just offshore. The drilling of angle holes from shore began in January 1963 and 3721 metres of drilling in 18 holes was completed. Under the joint exploration agreement a new company, Burnaby Iron Mines Limited, was incorporated in January 1964. During 1964 a combined magnetic and sounding survey was carried out over the offshore claims. In 1965 an additional 2053 metres of diamond drilling was carried out in deepening 6 holes and the drilling of 5 new holes. This work increased the indicated reserves to approximately 7,257,480 tonnes having an average grade of 49.5 per cent iron (Leitch Gold Mines Limited, 1965 Annual Report). All but a small fraction of the deposit is more than 61 metres below the bedrock bottom of Hecate Strait and hence should be amenable to standard underground mining methods.

Teck Corporation in 1971 acquired the assets of Highland-Bell, Limited and Leitch Mines Limited (changed from Leitch Gold Mines Limited in 1970); Highland and Leitch were dissolved in 1974 and 1975 respectively, leaving Burnaby Iron Mines Limited under the direct control of Teck Corporation.

Massive chloritized amygdaloidal basalts of the Upper Triassic Karmutsen Formation (Vancouver Group) are overlain by about 250 metres of grey massive limestone and black flaggy limestone of the Upper Triassic Sadler and Peril formations (Lower Jurassic to Upper Triassic Kunga Group). To the north are monzonites and quartz monzonites of the Late Jurassic Burnaby Island Plutonic Suite. stratified rocks are intruded by basaltic greenstone sills likely related to Karmutsen volcanism, by skarned diorite porphyries, and by late basalt to andesite dikes.

The strata generally strikes northeast and dips gently northwest with minor west trending, 10 to 20 degree plunging folds. Three prominent trends of steep dipping block faults are 130 to 140 degrees,

60 to 70 degrees, and 10 to 20 degrees.

Two distinct orebodies lie offshore at about 75 and 210 metres below sea level, respectively. The Underlime orebody, the deepest, is generally conformable, replacing the uppermost part of the Karmutsen volcanics and to a lesser extent the basal Sadler limestone. The body trends about 170 degrees for over 120 metres, with widths from 12 to 45 metres in the south part. The orebody is separated from adjacent greenstone or limestone by a thin sheath of skarn.

The upper orebodies are concentrated about greenstone sills and are less regular than the Underlime orebody, but are generally higher grade and thicker (up to 60 metres). Skarn is a common transitional rock between ore and greenstone or limestone, but does not form a continuous sheath. The thicker sections appear to be related to the faults, particularly the main fault (striking 125 degrees) through the ore zone.

The ore is generally pure magnetite with gradations to skarn

with trace amounts of magnetite and hematite. Sulphides are erratic with mainly pyrite and rare chalcopyrite, pyrrhotite and sphalerite. The average content of the ore is 0.02 per cent copper, 0.2 per cent sulphur, 0.05 per cent phosphorous, 0.08 per cent titanium, 7.5 per cent silica and 1.5 per cent alumina (Open File 1988-28, page 86). Skarn minerals are variably developed and include garnet,

epidote, actinolite, pyroxene, chlorite, quartz and calcite.
 Estimated total reserves are 7,438,220 tonnes grading 49.45 per
cent soluble iron (Bulletin 54, page 197).

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MIN REV March/April 1988, pp. 19-24
W MINER \*Oct. 1965, p. 97

CODED BY: LDJ REVISED BY: LLD DATE CODED: 1986/07/17 FIELD CHECK: N DATE REVISED: 1989/03/07 FIELD CHECK: N

MINFILE NUMBER: 103B 020

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 021 NATIONAL MINERAL INVENTORY: 103B6 Cu18

NAME(S): SKINCUTTLE ISLAND, COPPER ISLANDS

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NTS MAP: 103B06E BC MAP:

NORTHING: 5801961 EASTING: 348332 LATITUDE: 52 20 49 N

LONGITUDE: 131 13 36 W ELEVATION: 30 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Skincuttle Island. See also George Island (103B 002) and

East Copper Island (103B 022).

COMMODITIES: Copper Iron Magnetite

**MINERALS** 

SIGNIFICANT: Chalcopyrite Magnetite Pyrite **Bornite** Tennantite

Cuprite ASSOCIATED: Quartz ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Vein

CLASSIFICATION: Skarn Industrial Min. Replacement

TYPE: K01 Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

GROUP Kunga IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** 

Upper Triassic Sadler Upper Triassic Vancouver Karmutsen

LITHOLOGY: Andesite

Garnet Skarn Skarn Limestone Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The Copper Islands showings are located off the south-eastern corner of Burnaby Island, on three small islands, Skincuttle, George, and East Copper.

These showings were discovered by Francis Poole while prospecting for Queen Charlotte Mining Company in 1862-3. There is no record of this company as a Canadian incorporation.

no record of this company as a canadian incorporation.

In 1900 the showings were rediscovered by A. Heino who staked three mineral claims, the Skincuttle Entrance, Golden Gate, and Trust, on East Copper Island. Mr. Heino worked the claims until about 1930. Development consisted of a 30-metre shaft with a 55-metre crosscut, a 12-metre shaft, and a 46-metre adit. In 1907 Abe Johnson restaked the Red Raven claim on the south side of East Copper Island. He drove a 11-metre adit and a 3-metre crosscut on the property. In 1917 the East Copper Island showings (103B 022), held as the Quinitsa claim, produced 36.2 tonnes of copper ore which

was shipped to the Granby smelter.

The Skincuttle Island showings were held in 1902-07 by Messrs. Law, Hamilton and Raper. Development work on the three claims, Skincuttle, Poole, and Margaret, included 6.7-metre and 9.1-metre shafts, two crosscut adits, 6 open cuts, and some trenching. The showings were later staked by A. Heino.

The George Island showing (103B 002) was owned by W. Campbell

in 1910.

In the mid 1960's the Copper Islands showings were held as follows: Skincuttle Island, part of Jib "B" group; George Island, Sandy Nos. 1 to 4; East Copper Island, Elma group - five claims. Work done at this time included a minor amount of packsack drilling on East Copper Island, and a magnetometer survey at sea off the island by Burnaby Iron Mines Limited in 1964.

The Copper Islands are underlain by grey limestone of the Upper Triassic Sadler Formation (Kunga Group) and intrusive sills of

> MINFILE NUMBER: 103B 021

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

amygdaloidal andesite to basalt of the probable Vancouver Group, Upper Triassic Karmutsen Formation. The strata strikes east, dips 10to 30 degrees north, and is cut by small steep block faults oriented north-northwest and west.

The showings are mainly in garnet-rich skarns replacing the volcanics several hundred metres along strike but rarely over 3 metres thick. Mineralization occurs as disseminated chalcopyrite, and minor magnetite, pyrite, bornite, tennantite and cuprite. Chalcopyrite also occurs disseminated in adjacent unskarned limestone, as veinlets transecting the bedding in and near skarns and in quartz veins associated with the block faults.

The Skincuttle Island showing is about 35 centimetres wide. A. Heino mined 9 tonnes in 1909, but no returns were made.

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DATE CODED: 1986/07/16 DATE REVISED: 1999/08/30 FIELD CHECK: N FIELD CHECK: N CODED BY: LDJ REVISED BY: PSF

MINFILE NUMBER: 103B 021

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 022

NATIONAL MINERAL INVENTORY: 103B6 Cu18

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5803093 EASTING: 351775

PAGE:

REPORT: RGEN0100

61

NAME(S): **EAST COPPER ISLAND**, RED RAVEN, QUINITSA, SKINCUTILE ENTRANCE, COPPER ISLANDS

STATUS: Past Producer Underground

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B06E

BC MAP:

LATITUDE: 52 21 29 N LONGITUDE: 131 10 36 W ELEVATION: 30 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of East Copper Island; located off the southeastern corner of Burnaby Island. See also George Island (103B 002) and Skincuttle

Island (103B 021).

Silver COMMODITIES: Copper Iron Magnetite

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite Magnetite Bornite Tennantite Cuprite

ASSOCIATED: Quartz Calcite

ALTERATION: Hornblende ALTERATION TYPE: Skarn Garnet

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Concordant Vein CLASSIFICATION: Skarn Replacement Industrial Min.

TYPE: K01 SHAPE: Regular Cu skarn

DIMENSION: Metres STRIKE/DIP: 090/20N TREND/PLUNGE:

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Upper Triassic** Sadler Kunga

Upper Triassic Vančouver Karmutsen

LITHOLOGY: Amygdaloidal Andesite

Amygdaloidal Basalt Garnet Skarn Skarn

Limestone

**GEOLOGICAL SETTING** TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

ORE ZONE: SAMPLE

INVENTORY

CATEGORY: Assay/analysis SAMPLE TYPE: Grab YEAR: 1919

COMMODITY **GRADE** 

3.5000 Per cent Copper

COMMENTS: Mineralized zone reported to average 3.5 per cent copper with

minor silver values.

REFERENCE: National Mineral Inventory Card 103BC Cu18.

**CAPSULE GEOLOGY** 

The Copper Islands showings are located off the south-eastern corner of Burnaby Island, on three small islands, Skincuttle, George,

REPORT ON: N

and East Copper.

These showings were discovered by Francis Poole while

prospecting for Queen Charlotte Mining Company in 1862-3. There is no record of this company as a Canadian incorporation.

In 1900 the showings were rediscovered by A. Heino who staked three mineral claims, the Skincuttle Entrance, Golden Gate, and Trust, on East Copper Island. Mr. Heino worked the claims until about 1930. Development consisted of a 30-metre shaft with a 55-metre crosscut, a 12-metre shaft, and a 46-metre adit. In 1907

Abe Johnson restaked the Red Raven claim on the south side of East Copper Island. He drove a 11-metre adit and a 3-metre crosscut on the property. In 1917 the East Copper Island showings, held as the

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

Quinitsa claim, produced 36.2 tonnes of copper ore which was shipped to the Granby smelter.

The Skincuttle Island showings (103B 021) were held in 1902-07 by Messrs. Law, Hamilton and Raper. Development work on the three claims, Skincuttle, Poole, and Margaret, included 6.7-metre and 9.1-metre shafts, two crosscut adits, 6 open cuts, and some trenching. The showings were later staked by A. Heino.

The George Island showing (103B 002) was owned by W. Campbell

in 1910.

In the mid 1960's the Copper Islands showings were held as follows: Skincuttle Island, part of Jib "B" group; George Island, Sandy Nos. 1 to 4; East Copper Island, Elma group - five claims. Work done at this time included a minor amount of packsack drilling on East Copper Island, and a magnetometer survey at sea off the island by Burnaby Iron Mines Limited in 1964.

The Copper Islands are underlain by grey limestone of the Upper Triassic Sadler Formation (Kunga Group) and intrusive sills of amygdaloidal andesite to basalt probably associated with the Vancouver Group, Upper Triassic Karmutsen Formation. The strata strike east, dip 10 to 30 degrees north, and are cut by small steep block faults oriented north-northwest and west.

The showings are mainly in garnet-rich skarns, which replace the volcanics for several hundred metres along strike but rarely over 3 metres thick. Mineralization occurs as disseminated chalcopyrite, and minor magnetite, pyrite, bornite, tennantite and cuprite. Chalcopyrite also occurs disseminated in adjacent unskarned limestone as veinlets transecting the bedding in and near skarns and in quartz veins associated with the block faults. The mineralized zone was reported to average 3.5 per cent copper with small values in silver (National Mineral Inventory Card 103B6 Cul8).

The East Copper Island showings were worked by adits and shafts and produced over 7000 kilograms of copper and 700 grams of silver from 1903 to 1917.

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MIN REV March/April 1988, pp. 19-24

 DATE CODED:
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PAGE:

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 023

NATIONAL MINERAL INVENTORY: 103B6 Cu12

PAGE:

REPORT: RGEN0100

63

NAME(S): GIGGER, SEA KING, MOTHER LODE, BANK OF COMMERCE, BLUE JAY

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B06W

UTM ZONE: 09 (NAD 83) BC MAP: NORTHING: 5801916 EASTING: 344828

LATITUDE: LONGITUDE: 131 16 41 W ELEVATION: 5 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54); located near Kingfisher Cove, Burnaby

COMMODITIES: Iron Magnetite Copper

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite Hornblende

ASSOCIATED: Calcite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Replacement TYPE: K03 Fe sk Massive Vein Industrial Min.

Fe skarn

DIMENSION: Metres STRIKE/DIP: 030/80W TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

GROUP Kunga STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Limestone

TERRANE: Wrangell

Massive Magnetite Intrusive Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

The showings, discovered in 1862 or 1863, are located at sea

level on the southeast side of Burnaby Island.

The Sea King mineral claim was staked in 1907 by a Captain Locke. Some surface stripping was done to trace the contact. In 1918 copper ore from the Bank of Commerce claim was shipped to Jedway by A.T. Wilds. In 1919 Messrs. Campbell and Wilds, owners of the Mother Lode and Bank of Commerce claims, sank a shaft 11 metres on a chalcopyrite showing. Intermittent work was continued by Campbell and Wilds into 1921.

Limestones of the Jurassic to Triassic Kunga Group are cut by igneous dikes. The limestone contains a metre band of magnetite with minor chalcopyrite and pyrite which strikes 30 degrees and dips 80 degrees west. A short distance to the west is a light grey-coloured, 1.5 metre wide, igneous dike with hornblende, stringers of calcite and minor magnetite and chalcopyrite.

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MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/16 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1999/08/30 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103B 023

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 024

NATIONAL MINERAL INVENTORY: 103B6 Cu9

PAGE:

REPORT: RGEN0100

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NAME(S): LUCKY SEVEN, DORATHKALON, PRODUCER, PIPE, ARCHIE

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B06E

BC MAP:

UTM ZONE: 09 (NAD 83)

NORTHING: 5798188 EASTING: 350395 LATITUDE: LONGITUDE: 131 11 41 W

ELEVATION: 60 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized fissure; shaft. Figure 6 (Assessment Report 10198). Located along the only major creek mid-way between Funter Point and

Deluge Point about 2.0 kilometres east of Harriet Harbour.

7inc COMMODITIES: Copper Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite Pyrrhotite Arsenopyrite Sphalerite

Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Massive

CLASSIFICATION: Epigenetic

Intrusion-related Au pyrrhotite veins

TYPE: 102 SHAPE: Regular

STRIKE/DIP: 030/60E DIMENSION: Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Kunga Sandilands

Kano Plutonic Suite Tertiary

LITHOLOGY: Black Argillite

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1988 Assay/analysis

SAMPLE TYPE: Chip COMMODITY Copper **GRADE** 9.0100 0.0100 Per cent Per cent I ead Per cent 7inc 0.0700 Silver 275.9500 Grams per tonne

Gold 0.3400 Grams per tonne

COMMENTS: Chip sample taken across 1.0 metre of dike.

REFERENCE: Assessment Report 17507.

CAPSULE GEOLOGY

This property is located on the southeast coast of Moresby Island on the lower courses of a creek about 2 kilometres east of Harriet Harbour. The elevation ranges from sea level to 61 metres.

The showing was probably located in 1915 by H.E. Bodine. A the time it was referred to as the Lucky Seven, but it was later called the Dorathkalon and Producer Groups. In 1916 a 15-metre incline shaft and a 18-metre drift were driven. Αt

In 1918 the property was owned by Messrs. Thompson and McKinnon and bonded to Seattle interests. A 114-metre adit was driven, with a 30-metre raise to the old drift; an aerial tramway was installed. In

1920 the property reverted to the owners.

Jedway Iron Ore Limited acquired the property in 1961 as the located Pipe No. 6 claim.

Between 1979 and 1982, Placer Development Limited conducted sampling and geological mapping. In 1987, G.G. Richards sampled the property.

Massive to disseminated sulphides occur over widths of up to 3

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

metres along the faulted contact between flat-lying black argillites of the Upper Triassic-Lower Jurassic Sandilands Formation (Kunga Group) and a dioritic dike, likely of the Eocene Kano Plutonic Suite (Carpenter Bay dike swarm). The dike and mineralized zone strike 030 and dip 60 degrees southeast.

Mineralization consists of disseminated and massive pyrite, chalcopyrite and pyrrhotite, with minor arsenopyrite and sphalerite, occurring as disseminations and in massive sections up to 25 centimetres wide, along the altered and faulted hanging wall of the dike and in disrupted argillites. Float from the dioritic dike in the immediate vicinity of the working also contains veins of galena and sphalerite. Several chip samples assayed as follows (Assessment Report 17507):

Small shipments of hand cobbed ore were made. In 1916, 38 tonnes of hand cobbed ore were shipped. From this 1866 grams of gold, 6780 grams of silver and 3781 kilograms of copper were recovered.

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EMPR EXPL 1980-365; 1981-231; 1987-C346
EMPR INDEX 3-194
GSC BULL 365
GSC MAP 1385A
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DATE CODED: 1986/07/17 CODED BY: LDJ
DATE REVISED: 1999/08/30 REVISED BY: PSF

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FIELD CHECK: N

FIELD CHECK: N

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 025

NAME(S): TIP, TIP 1

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E

BC MAP:

LATITUDE: 52 18 19 N LONGITUDE: 131 13 16 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on the eastern shore at the head of Harriet Harbour (just

south of Funter Point).

COMMODITIES: Iron

Copper

Pyrite

Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite ASSOCIATED: Calcite

Chalcopyrite Quartz

ALTERATION: Garnet ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Replacement

Skarn

Industrial Min.

TYPE: K01 C SHAPE: Irregular Cu skarn

x 15 DIMENSION: 46

Metres

STRIKE/DIP: 060/35N

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

PAGE:

NATIONAL MINERAL INVENTORY: 103B6 Fe8

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5797316 EASTING: 348568

REPORT: RGEN0100

66

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE

Upper Triassic Upper Triassic **GROUP** 

Vancouver Kunga

**FORMATION** 

Karmutsen

Sadler

LITHOLOGY: Greenstone

Limestone Garnet Skarn

Copper Magnetite Skarn

GEOLOGICAL SETTING
TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

CAPSULE GEOLOGY

This property is located on the southeast coast of Moresby Island, on the shore just south of the dock at Harriet Harbour. showing was discovered and explored by Francis Poole in 1863. Iron Ore Limited acquired the property in 1961 as the Tip No. 1 Jedway claim.

An irregular garnetiferous copper-magnetite skarn occurs at the contact of the Vancouver Group, Upper Triassic Karmutsen volcanics and Upper Triassic Sadler Formation limestone. The mineralized body, consisting of magnetite, chalcopyrite, pyrite, garnet, calcite and quartz, is 46 metres long and 15 metres wide and strikes 060 degrees with a 25 to 45 degree north dip.

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MIN REV \*March/April 1988, pp. 19-24

DATE CODED: 1986/07/24 DATE REVISED: 1989/03/08

CODED BY: LDJ REVISED BY: LLD

FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 025

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 026

NAME(S): JESSIE, JEDWAY (L.1976,1977,1861,1865), HARRIET HARBOUR

STATUS: Past Producer Open Pit Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E

BC MAP: LATITUDE: 52 17 34 N

LONGITUDE: 131 11 56 W ELEVATION: 270 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Open pit; Located on the hilltop 1.5 kilometres east-southeast of Harriet Harbour. See also Adonis (103B 027), Lily (103B 028) and

Rose (103B 029).

COMMODITIES: Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite

ASSOCIATED: Garnet ALTERATION: Amphibole **Epidote** 

**Chlorite** 

ALTERATION TYPE: Skarn Chloritic Sericitic

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Concordant Massive

CLASSIFICATION: Skarn TYPE: K03 Replacement **Epigenetic** Industrial Min.

Fe skarn SHAPE: Tabular

DIMENSION: 0250 x 0150 x 0080 Metres STRIKE/DIP: 120/40N TREND/PLUNGE:

COMMENTS: Maximum area of mineralized bodies.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen Triassic-Jurassic **Undefined Formation** Kunga

Burnaby Island Plutonic Suite Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Skarn Limestone Argillite Dioritic Porphyry Quartz Diorite Rhyolite Dike

HOSTROCK COMMENTS: Jedway Stock is part of the Burnaby Island Plutonic Suite. Age date

from R.G. Anderson (GSC), Personal Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Greenschist Regional Hornfels

Post-mineralization

CAPSULE GEOLOGY

The Jessie mine is on the southeast coast of Moresby Island. is situated on the ridge between Harriet Harbour and Ikeda Cove about 2.4 kilometres southeast to the entrance to the Harbour at an

elevation of 152 metres.

The Jessie is the key claim of a large group of claims acquired by The Granby Mining Company Limited, and its subsidiary, Jedway Iron Ore Limited. Jedway acquired 61 recorded claims, three mineral leases and ten Crown-granted claims. The three mineral leases cover four reverted Crown-grants as follows: Mineral Lease 2, Adonis (Lot 1865) (103B 027); Mineral Lease 37, Hot Punch (Lot 1976), and Iron Duke (Lot 1977); and Mineral Lease 105, Jessie (Lot 1861). The ter Crown-granted claims were as follows: Moresby Island (Lot 78) (103B 036); Magnet (Lot 79)(103B 034); Blue Belle (Lot 80) (103B 033); Ajax (Lot 81); Sandwich Fraction (Lot 92); Emma (Lot 854); Delia (Lot 2597); Lizzie B (Lot 2604); Cypress Queen (Lot 2607); Mattie H. Fraction (Lot 2608). These Crown-granted claims were originally part of the large block, owned by J.S. McMillan (see

> MINFILE NUMBER: 103B 026

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5795880

EASTING: 350041

NATIONAL MINERAL INVENTORY: 103B6 Fe1

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

Copper Queen, 103B 035). In addition, Granby holds 64 recorded claims in the vicinity.

The Jessie showings were located around 1908 by the Trethawey Brothers and "a considerable amount of work" was reported done on them. In 1912, the Jessie was Crown-granted to P. Drummond, the Hot Punch and the Iron Duke to R.R. Hill and the Harriet, Lot 86, to R.A. and J.O. Trethawey. These covered 116-35 acres. These showings are not rich in chalcopyrite so interest in the properties lapsed.

Little attention was paid to the properties until 1956 when Dr. J.M. Black, for Western Canada Steel Limited, explored the area and conducted a magnetometer survey over the showings. In 1959 Silver Standard Mines Limited acquired an option on the Jessie claim from Consolidated Exploration Company Limited, the Limestone, Diorite and Chance fraction claims from Western Canada Steel Limited, and the Hot Punch and Iron Duke from J.M. Black. A diamond drilling program was started and by 1960, 53 holes totalling 4988 metres had been drilled on the Jessie and Limestone claims, 22 holes totalling 467 metres on the Magnet, 3 holes totalling 329 metres on the Adonis and 7 holes totalling 169 metres on the Blue Belle. This outlined 226,796 tonnes.

In January 1961, The Granby Mining Company Limited optioned, and after additional drilling purchased, the property and formed Jedway Iron Ore Limited in April of that year. With further drilling the reserves were estimated to be 4,263,769 tonnes which would produce 2,331,465 tonnes of concentrate. The company had a contract with Sumitumo Shoji Kaisha of Japan to supply 1,814,370 tonnes of concentrate grading 62 per cent iron over a period of five years. Production by open-pit methods started in late summer 1962, and the 1,996 tonnes per day mill was put into operation in September. In 1964 some ore was contributed by the nearby Adonis property (103B 027) and in 1966 by the Rose property (103B 029).

1964 some ore was contributed by the Real Property (103B 029).

During 1962 and 1963 an adit was driven 465 metres under the open pit at the 145 metre elevation. From this adit 4542 metres of diamond drilling proved reserves of 2,494,759 tonnes of 35 per cent iron between the adit level and the proposed bottom of the open pit at 229 metres elevation. Underground mining started in 1966.

Recoverable reserves on January 1, 1966, were 334,842 tonnes in the pit and 516,641 tonnes in one underground stope, for a total of 851,484 tonnes grading 35 per cent magnetic iron. An additional 873,437 tonnes of the same grade exists underground but was judged to be uneconomic. The ore bodies were exhausted and the mine closed in February, 1968.

In 1972, trenching, totalling 3737 cubic metres, was done on the Limestone and Jessie claims by Jedway Iron Ore Limited.

The Vancouver Group, Upper Triassic Karmutsen Formation, consisting of altered basalts is overlain by the lower part of the Jurassic to Triassic Kunga Group consisting of limestones and argillites. The strata generally strike east with an average dip of 050 degrees north. These rocks are cut by a sequence of intrusive bodies, from oldest to youngest, as follows: greenstones; diorite porphyry; diorite to quartz diorite of the Jedway Stock; rhyolite dikes; and small andesitic to basaltic dikes. Skarnification and mineralization occurred after intrusion of the Jedway Stock, which is part of the Middle to Late Jurassic Burnaby Island Plutonic Suite.

The Jessie orebodies are on the northern flank of a west northwest trending domal anticline near its intersection of a 140 degree trending fold and fault structure of probable younger age. The ore lenses are primarily in the Karmutsen greenstones, conformable with bedding, adjacent to and above the contact with the Jedway Stock. Two major fault orientations are the larger north trending, 45 to 75 degree dipping faults and the smaller 60 to 80 degree, similar dipping faults, which are sometimes offset by the north faults.

The mineralized bodies occur as replacement bands of magnetite separated by skarn, chloritic greenstone or diorite porphyry. In general, there are three bands: the upper, 30 to 35 metres below the Kunga contact and about 6 metres thick; the main or intermediate, 6 to 12 metres below and 12 to 24 metres thick; and a lower, 24 to 30 metres below the main and about 7 metres thick. These bands maintain their character over 250 metres of dip and strike length then coalesce at the upper elevations near the basin-like mass of diorite porphyry and limestone. As the bands reach a major fault zone, they follow up the faults and resemble dikes. These enlarge downward and then diverge into the bedding attitudes.

During the development of the Jedway Iron Mine, ore assayed 49 per cent iron, 0.025 per cent copper, 0.78 per cent sulphur, 0.09 per cent titanium and 0.035 per cent phosphorous (Minister of Mines Annual Report 1959, page 14). During production the concentrate averaged 62 per cent iron (Bulletin 54, page 199).

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REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The total drill indicated ore reserves in 1961 were 4,260,000 tonnes of magnetite ore (Minister of Mines Annual Report 1961, page 15). The mine operated continuously from 1962 to 1968 when the ore was mined out. The mine used both open pit and underground methods simultaneously to mine the Jessie zone. During the period of production 3,938,702 tonnes of ore was milled producing about 2.1 megatonnes of iron concentrate. Production includes ore from the Adonis (103B 027) in 1964 and ore from the Rose (103B 029) in 1966.

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EMPR AR 1908-60; 1912-325; *1959-11-14; 1960-11,12; 1961-13-15; 1962-A47,11,12; 1963-A47,16; 1964-A53,46,330; 1965-A53,69; 1966-A51,53-54; 1967-A54,57; 1968-70,71

EMPR ASS RPT 3602, 14189

EMPR BC METAL MM00812

EMPR BULL *54, pp. 14, 198-202

EMPR ENG INSP 60852-60867

EMPR EXPL 1985-C362

EMPR GEM 1972-494

EMPR OF *1988-28, pp. 73-75

EMPR PF (McDougall, J.J., (1956): Report on Properties at Ikeda Bay, Queen Charlotte Islands, June 6, 1956 (refer to the Lily Mine - 103B 028); Fahrni, K.C., (1961): Jedway Iron Ore Geology Report, April 19, 1961; Production Statistics File; Various Photos of the Jedway Mine)

EMR MP CORPFILE (Silver Standard Mines Limited; Jedway Iron Ore Limited; The Granby Mining Company Limited)

GSC BULL *172, pp. 78-80

GSC EC GEOL *Series 3, Vol. 1, 1926, pp. 39-42

GSC MAP 1385A

GSC P *88-1E, pp. 213-216,221-227; 89-1H, pp. 95-104,*105-112; 90-10, pp. 59-87, 163-172; 91-1A, pp. 383-391

CMJ July, 1964, p. 53

MIN REV *March/April 1988, pp. 19-24

W MINER *1959, pp. 110,112,113; *1962 pp. 14-17,28-42
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DATE CODED: 1986/07/23 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1999/08/30 REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 027

NATIONAL MINERAL INVENTORY: 103B6 Fe4

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5795708 EASTING: 350605

REPORT: RGEN0100

70

**ADONIS (L.1865)**, SWEET PEA (L.68), ADONIS EXTENSION, LILY, JESSIE, JEDWAY NAME(S):

STATUS: Past Producer Open Pit MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B06E

BC MAP:

LATITUDE: 52 17 29 N LONGITUDE: 131 11 26 W

ELEVATION: 170 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Open pit; between Harriet Harbour and Ikeda Cove, on the Ikeda side

of the ridge (part of the Lily Mine - 103B 028). See also Jessie

(103B 026) and Rose (103B 029).

COMMODITIES: Iron Magnetite Copper

**MINERALS** 

SIGNIFICANT: Magnetite ASSOCIATED: Quartz Pyrite Chalcopyrite

ALTERATION: Garnet

COMMENTS: Calc-silicate mineral assemblage prevalent. ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Skarn Replacement Industrial Min.

TYPE: K03 SHAPE: Tabular Fe skarn

MODIFIER: Faulted

DIMENSION: 75 x 55 x 15

COMMENTS: Approximate size; attitude of limestone.

STRIKE/DIP: 075/45N TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen Upper Triassic Kunga Sadler

LITHOLOGY: Greenstone

Limestone Massive Magnetite Skarn Magnetite Skarn Diorite Sill
Diorite Porphyry

Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Regional Syn-mineralization GRADF: Greenschist

Post-mineralization Hornfels

INVENTORY

ORE ZONE: SWEET PEA REPORT ON: Y

> CATEGORY: YEAR: 1965 Indicated

QUANTITY: 124284 Tonnes

COMMODITY **GRADE** Iron 35.0000 Per cent

COMMENTS: Grade is assumed from 1964 calculation on Adonis deposit. Drill

indicated with a reasonable stripping ratio.

REFERENCE: Energy, Mines and Resources RESFILE - Adonis.

ORE ZONE: ADONIS REPORT ON: Y

> CATEGORY: YEAR: 1964

124042 Tonnes QUANTITY:

COMMODITY **GRADE** 

Iron Per cent COMMENTS: Estimated potential.

REFERENCE: Energy, Mines and Resources RESFILE - Adonis.

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

These showings, on the southeast coast of Moresby Island, are between Harriet Harbour and Ikeda Cove from about 152 to 183 metres elevation on the Ikeda side of the ridge. The deposit is on the Adonis claim, Lot 1865, and extends onto the Sweet Pea claim, Lot 68 (part of the Lily Group, 103B 028). The Adonis claim is held by mineral lease by Jedway Iron Ore Limited but the Sweet Pea is held by Falconbridge Nickel Mines Limited and any ore mined on it will be on a royalty basis to that company.

The Adonis showing was probably discovered between 1906 and 1908 although there is little record of the early history. In 1912 the claim was Crown-granted to Messrs. P. Drummond, R.A. Trethawey and J.O. Trethawey.

Silver Standard Mines Limited carried out the first extensive prospecting by reconnaissance magnetometer survey and then drilled 13 EX holes totalling 329 metres in 1959 and 1960. Later Jedway Iron Ore Limited mapped it in detail in 1964 and drilled 9 AX holes totalling 508 metres. This work proved the presence of a small orebody. A kilometre of road was built to connect with the Jessie Mine (see 103B 026) and a pit prepared for production which began in September 1964. In 1965 additional drilling that totalled 333 metres in five AX holes in a line extending into the Sweet Pea claim proved an additional 124,284 tonnes of ore that has a reasonable stripping ratio.

In 1985 Falconbridge Limited conducted geological mapping and geochemical surveys in the area.

The Upper Triassic Karmutsen Formation (Vancouver Group) consisting of basaltic greenstone, is overlain by the Upper Triassic Sadler Formation (Kunga Group), consisting of 30 metres of limestone, striking 075 degrees and dipping 45 degrees north. The orebody occurs along the contact between the Karmutsen and Sadler formations and is bounded by steep 065 degree striking pre-ore faults about 55 metres apart. There is also a sill-like body of diorite porphyry and minor diorite at the contact.

Mineralization, consisting of massive magnetite with pyrite, chalcopyrite and skarn minerals, replaces mainly the greenstone, but also the limestone and diorite porphyry. The latter is altered to skarn with abundant garnet.

In 1964 the estimated potential of the Adonis deposit was 124,042 tonnes with 35.0 per cent magnetic iron. In 1965, additional drilling onto the adjacent Sweet Pea claim proved an additional 124,284 tonnes of ore with a reasonable stripping ratio (Energy, Mines and Resources RESFILE - Adonis).

In 1964, 96,844 tonnes of ore grading 35.0 per cent iron was mined. Production figures are included with the Jessie Mine (103B 026). See also Lily (103B 028) and Rose (103B 029).

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EMPR AR 1912-325; *1959-14; 1960-11,12; 1965-A53,69; 1966-A51,53,54; 1967-A54,57; 1968-70,71

EMPR ASS RPT 3602, 14189

EMPR BULL *54, pp. 198,202,203

EMPR ENG INSP 60866

EMPR EXPL 1985-C362

EMPR GEM 1972-494

EMPR OF 1988-28, pp. 73-75

EMPR PF (Various maps; McDougall, J.J., (1964): Report on Ikeda 1963, January 31, 1964 - refer to Lily Mine 103B 028)

EMR MP CORPFILE (Silver Standard Mines Ltd.; Jedway Iron Ore Ltd.)

EMR MP RESFILE (Adonis)

GSC BULL *172, p. 78-80

GSC EC GEOL *Series 3, Vol. 1, 1926, p. 48

GSC MAP 1385A

GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp. 163-172; 91-1A, pp. 383-391

MIN REV March/April 1988, pp. 19-24

W MINER Vol.32, Oct. 1959, pp. 110-113; Vol. 35, Jan. 1962, pp. 14-17; Vol. 35, Sept. 1962, p. 28

Falconbridge File
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DATE CODED: 1986/07/23 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 028 NATIONAL MINERAL INVENTORY: 103B6 Cu1

NAME(S): LILY, LILY (IKEDA), LILY MINE, IKEDA (L.66), AWAYA, IKEDA BAY

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B06E

BC MAP: NORTHING: 5795533 EASTING: 351263 LATITUDE:

LONGITUDE: 131 10 51 W ELEVATION: 150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Lily mine, located between Harriet Harbour and Ikeda Cove, on the southern slope leading down to Ikeda Cove (Bulletin 54). See also

Jessie (103B 026), Adonis (103B 027) and Rose (103B 029).

Gold COMMODITIES: Copper Silver Magnetite Iron

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Pyrrhotite Magnetite Sphalerite Actinolite Calcite Quartz

ALTERATION: Chlorite
ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Massive Disseminated CLASSIFICATION: Replacement Skarn Industrial Min.

TYPE: K01 Cu skarn

SHAPE: Tabular

MODIFIER: Sheared DIMENSION: 76 x TREND/PLUNGE: x 6 x 4 Metres STRIKE/DIP: 010/45E

COMMENTS: No. 1 shoot.

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen Upper Triassic Sadler

Upper Jurassic Burnaby Island Plutonic Suite

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Limestone Diorite Diabase Dike **Basalt Dike** Skarn

HOSTROCK COMMENTS: The Jedway stock is part of the Burnaby Island Plutonic Suite; the age

date is from R.G. Anderson, personal communication, 1989.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TECTONIC BELT: Insular

TERRANE: Wrangell METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Greenschist Regional

Hornfels

INVENTORY

ORE ZONE: LILY REPORT ON: Y

> CATEGORY: YEAR: 1964 Inferred

> QUANTITY: 22677 Tonnes

COMMODITY **GRADE** Copper 1.5000

COMMENTS: Copper grades between 1.5 to 2.0 per cent; some gold and silver. REFERENCE: Bulletin 54, page 203.

CAPSULE GEOLOGY

The Lily copper mine is located 1.2 kilometres west of the head

of Ikeda Cove on the southeast coast of Moresby Island. The

elevation ranges between 61 and 183 metres.

The showings were discovered in 1898 by Mr. A. Ikeda who traced float on the beach up to the outcrop. By 1907, Awaya, Ikeda and Company, primarily a Japanese fishing company not registered in

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

Canada, held three claim groups in the area; the Lily, the Chrysanthemum (see Rose, 103B 029) and the Lotus (see 103B 040). The Lily Group comprised eight claims (Lots 66 to 72) covering 336.01 acres which were Crown-granted in 1908. Production started in 1906 but by 1909 all the easy-mining was finished. A new company, Ikeda Mines, Limited, was formed in Vancouver in 1910 and a programme of exploration and development was started which included 768 metres of diamond drilling in 22 holes. The company carried out assessment work on other claims in the area and in 1913 and 1917 received Crown-grants for 39 claims (Lots 93-100, 1857-1860, 1862, 1863, 1866-1882, 1884-1887, 1892, 1893, 1896 and 1963), including the Lotus and Chrysanthemum groups. In 1913 an aerial tramway was built from the Lily mine to the beach. By 1918 the mine was developed by four adits, all connected by winzes, with portals at 80, 94, 99, and 181 metres above sea level. The lowest, No. 3, is 201 metres long with two stopes, an 82-metre winze and a sub-level developed from it. The Nos. 2 and 2 1/2 have a combined length of 107 metres and No. 1 is 37 metres long.

There was little interest in the mine from 1920 until 1943 when St. Eugene Mining Corporation, Limited, bought the valid, Crown-granted claims; the reverted Crown-grants were subsequently acquired as mineral leases and additional claims were staked to include most of the original ground. Exploration of the Lily property was delayed until 1956 when it was examined and sampled in detail. Work in succeeding years included a geophysical survey in 1958 and 7 AX holes drilled for a total of 541 metres in 1964.

In July 1962 the properties were sold to Falconbridge Nickel Mines Limited. In 1985 Falconbridge Limited carried out geological mapping and a geochemical soil survey (2,050 samples) over the Lily and adjacent properties.

The area is underlain by greenstone and limestone of the Upper Triassic Vancouver Group (Karmutsen Formation) which is overlain by limestone of the Upper Triassic Sadler Formation (Lower Jurassic to Upper Triassic Kunga Group). Locally, the rocks strike 050 degrees and dip 35 degrees east and are flanked on the west by a sill-like body of fine diorite. The diorite is part of the Late Jurassic Burnaby Island Plutonic Suite and includes the Jedway stock. The stock has been dated at 164 Ma +/- 3 Ma (R.G. Anderson, personal communication, 1989).

The Lily mine contains four mineralized bodies, three of which occur as subparallel replacements of bedded shear zones in greenstone. Minerals present are chlorite, actinolite, quartz and calcite with pyrite, chalcopyrite, magnetite, pyrrhotite and traces of sphalerite. The sulphides occur as disseminations, streaks, bands and large irregular masses. Late diabase and basalt dykes cut the shears without offset.

The ore zones are referred to as the No. 1 shoot, measuring 76 by 67 by 4.5 metres, the No. 2 shoot, 43 by 15 by 4.5 metres, and the No. 31 Shoot, 43 by 12 by 0.6 metres. The average grade from production figures is 9.33 per cent copper, 3.8 grams per tonne gold and 64 grams per tonne silver. The fourth, or No. 1 adit body, lies 300 metres southwest of the Lily mine and is a 90 by 80 metre planar magnetite-rich skarn lens at the Sadler/Karmutsen contact. It is less than 3 metres wide with drill assays of 1.37 per cent copper over 0.8 metres and 58.53 per cent iron over 2.1 metres (Assessment Report 14818).

Inferred reserves at Lily are 22,677 tonnes grading between 1.5 and 2.0 per cent copper and some gold and silver (Bulletin 54, page 203).

The Lily produced 51,195 grams of gold, 862,548 grams of silver and 574,055 kilograms of copper from 13,410 tonnes between 1906 and 1920.

See also Jessie (103B 026), Adonis (103B 027) and Rose (103B 029).

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EMPR AR 1906-250; 1907-63,64,215; 1908-59,246,249; 1909-71,80,81; 1910-84,165; 1911-76,287; 1912-110; 1913-100,103,423; 1914-162; 1915-74,444; 1916-87,515; 1917-74,447,451; 1918-38,39,105; 1919-39; 1920-42,44; 1921-39,272; 1922-42; 1923-44; 1925-66; 1928-65; 1958-72

EMPR ASS RPT 14189, *14818

EMPR BC METAL MM00755

EMPR BULL *54, pp. 203-205,207

EMPR EXPL 1985-C362; 1986-C418

EMPR MAP 65 (1989)

EMPR OF 1988-28, pp. 73-77; 1992-1; 1992-9

EMPR PF (Larson, A.G. (1910): Report on the Ikeda-Awaya Company's Mining Property, Feb.7, 1910; Norrie, W.G. (1917): Ikeda Mine
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PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

Synopsis, May 23, 1917; McDougall, J.J. (1956): Report on Properties at Ikeda Bay, Queen Charlotte Islands, June 6, 1956; Campbell, C.M. (1957): Report on Summer Work - 1957, Ikeda Mine, Mar.31, 1959; McDougall, J.J. (1963): Report on Coast Activities to May 31, 1963; McDougall, J.J. (1964): Report on Ikeda, 1963, pp. 10-13, Fig. 3, January 31, 1964; \*McDougall, J.J. (1965): 1964 Report on the Lily Mine, Ikeda Area, Mar.30, 1965)

EMR MIN BULL MR 31, 1959, p. 145; 223 B.C. 278

EMR MP CORPFILE: (Ikeda Mines, Limited; St. Eugene Mining Corporation, Limited) Corporation, Limited) GSC MAP 1385A GSC PMF 1363A GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87, 163-172; 91-1A, pp. 383-391 GSC SUM RPT \*1909, pp. 76,77 MIN REV March/April 1988, pp. 19-24 Falconbridge File

DATE CODED: 1986/07/22 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103B 028

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 029

NATIONAL MINERAL INVENTORY: 103B6 Fe6

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5795628 EASTING: 353257

Burnaby Island Plutonic Suite

REPORT: RGEN0100

75

NAME(S): ROSE (L.1871), CHRYSANTHEMUM, IKEDA 1, IKEDA 2, JESSIE, JEDWAY

STATUS: Past Producer Open Pit MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B06E

BC MAP:

LATITUDE: 52 17 29 N LONGITUDE: 131 09 06 W ELEVATION: 160 Metres

LOCATION ACCURACY: Within 500M
COMMENTS: Centre of ore bodies, located on the hill top between Ikeda Cove and Collison Bay (Property File - McDougall, J.J., 1963, Map 1K 5/63). See also Jessie (103B 026), Adonis (103B 027) and Lily (103B 028).

COMMODITIES: Iron

Gold Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite ASSOCIATED: Epidote Pyrrhotite Pyrite Chalcopyrite

Chlorite Diopside

ALTERATION: Garnet **Epidote** Chlorite Diopside Hematite Propylitic

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Concordant CLASSIFICATION: Skarn Industrial Min. Replacement

TYPE: K03 Fe skarn

SHAPE: Tabular DIMENSION: 0170 x 0120 x 0010 Metres TREND/PLUNGE: STRIKE/DIP: 035/25W

COMMENTS: Maximum area of orebodies.

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Karmutsen

Undefined Formation

Upper Triassic Vancouver Triassic-Jurassic Kunga

Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Limestone Massive Magnetite

Skarn

Garnet Epidote Chlorite Skarn

Argillite Diorite Basalt

HOSTROCK COMMENTS: Burnaby Island Plutonic Suite (Collison Bay Stock) intrudes Karmutsen

volcanics and Kunga limestone.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact

RELATIONSHIP: Syn-mineralization GRADE: Greenschist Regional

Post-mineralization Hornfels

INVENTORY

ORE ZONE: ROSE REPORT ON: Y

> CATEGORY: Indicated YEAR: 1959

QUANTITY: 508930 Tonnes COMMODITY **GRADE** 

Iron Per cent

COMMENTS: Low stripping ratio; from about 10 drillholes. REFERENCE: Bulletin 54, page 208.

**CAPSULE GEOLOGY** 

The Rose claim, located on the southeast coast of Moresby Island, is on the ridge between Ikeda Cove and Collison Bay between 122 and 198 metres above sea level. The Crown-granted claim (Lot 1871) covers 33.64 acres. The showings extend from the ridge-top

> MINFILE NUMBER: 103B 029

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

down the northwestern slope and just over the boundary onto the adjacent claims, Elva Nos. 3 and 4 and Maple. All claims are part of a large block held by Falconbridge Nickel Mines Limited (See Lily,  $103B\ 028$ ).

The showings were discovered by A. Ikeda and associates during the period 1901-1906 while prospecting in the vicinity of their Lily claim showings. Some stripping and prospecting ensued but the magnetite showings, being copper-poor, were of little interest at that time. The Rose claim was part of the Chrysanthemum Group of eight claims Crown-granted in 1913 (Lots 97, 100, 1868, 1869, and 1871 to 1874).

St. Eugene Mining Corporation, Limited, acquired the Lily and other claims in the mid 40's and drilled 2 holes for 24 metres in 1957 on the Rose claim. Silver Standard Mines Limited carried out a magnetometer survey in 1959. The Granby Mining Company Limited mapped the showings in detail in 1962 and Jedway Iron Ore Limited drilled 37 short holes totalling 1405 metres in 1965. Jedway started mining the property in 1966 on a royalty basis.

In 1985 and 1986, Falconbridge Limited conducted geological mapping, geochemical surveys and drilling in the area.

The Vancouver Group, Upper Triassic Karmutsen Formation, consisting of basaltic greenstones, is conformably overlain by limestones and argillites of the Jurassic to Triassic Kunga Group. The rocks are cut by dikes and sills of diabase, fine diorite porphyry, and diorite. Later dikes include andesite and felsite.

The Rose orebodies lie on the eastern end of a domal anticline

The Rose orebodies lie on the eastern end of a domal anticline adjacent to the Collison Bay Stock. This intrusive is dioritic in composition and is part of the Middle to Late Jurassic Burnaby Island Plutonic Suite. Bedding strikes 035 degrees and dips 20 to 30 degrees northwest. Faulting seems limited to small steep faults parallel to the strike.

The mineralized bodies consist of three parallel skarn bands, with widths up to 10.6 metres over an area 170 by 120 metres.

Replacement is mainly in greenstone and consists of magnetite, garnet, chlorite and epidote with minor pyrrhotite, chalcopyrite and pyrite.

A drill hole intersected 10.6 metres of 66 per cent iron with 0.34 per cent sulphur. A drill hole, about 200 metres to the southeast, intersected 2.07 grams per tonne gold over 1.5 metres (Assessment Report 14818).

The average grade of the magnetite ore is estimated at over 40.0 per cent iron with a sulphur content of about 1.0 per cent. Drilling in 1956 indicated about 508,930 tonnes of ore with a low stripping ratio. Total reserves of twice this amount may be recoverable at a much higher ratio (Bulletin 54, page 208).

Jedway Iron Ore Ltd. started mining this property on a royalty basis in 1966. Production figures are included in the Jessie Mine (103B 026) production. See Adonis (103B 027) and Lily (103B 028).

## **BIBLIOGRAPHY**

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EMPR AR 1907-64,65; 1913-423; 1958-72; 1965-69; 1966-A51,53,54; 1967-A54,57; 1968-70,71

EMPR ASS RPT 194, 195, 14189, *14818

EMPR BULL *54, pp. 199,203,206-208

EMPR ENG INSP 60864, 60865

EMPR EXPL 1985-C362; 1986-C418

EMPR FF (McDougall, J.J., (1956): Report on Properties at Ikeda Bay, June 6, 1956, pp. 20,25; McDougall, J.J., (1963): Report on Coast Activities to May 31, 1963; McDougall, J.J., (1964): 1963 Report on Ikeda, pp. 6,7,Fig.5, Jan.31, 1964 (refer to the Lily Mine 103B028); Various maps)

EMR MP CORPFILE: (Ikeda Mines, Limited; St. Eugene Mining Corporation, Limited; Silver Standard Mines Limited; Jedway Iron Ore Limited; The Granby Mining Company Limited)

GSC EC GEOL *No. 3, Vol. 1, 1926, pp. 48-51

GSC MAP 1385A

GSC P 88-1E, pp. 213-216,*221-227; 89-1H, pp. 95-104,*105-112; 90-10, pp. 59-87; 91-1A, pp. 383-391

GSC SUM RPT 1909, p. 77

CANMET IR 1918, No. 509, pp. 113,114 (No. 78)

CANMET RPT MC 167, C3-2-10

MIN REV March/April 1988, pp. 19-24

Falconbridge File
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DATE CODED: 1986/07/21 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1999/08/30 REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 030

NATIONAL MINERAL INVENTORY: 103B6 Cu13

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5796727

EASTING: 347603

REPORT: RGEN0100

77

NAME(S): TOGO (L.140), A.J., PRINCE

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 17 59 N

LONGITUDE: 131 14 06 W ELEVATION: 20 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located near the shore on the west side of Harriet Harbour.

COMMODITIES: Copper Magnetite Iron

**MINERALS** 

SIGNIFICANT: Magnetite ASSOCIATED: Garnet

Chalcopyrite

Calcite Quartz

ALTERATION: Garnet ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated
CLASSIFICATION: Skarn
TYPE: K01 Cu skarn
DIMENSION: 18 x 4

Massive

Replacement

Industrial Min.

Cu skarn

Metres

STRIKE/DIP:

TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Upper Triassic

GROUP Vancouver

**FORMATION** Karmutsen

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Greenstone

Skarn

Garnet Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: ADIT

REPORT ON: N

Assay/analysis CATEGORY:

YEAR: 1914

SAMPLE TYPE: Chip COMMODITY

Copper

COMMENTS: 2 metre sample from adit.

Per cent

REFERENCE: Minister of Mines Annual Report 1914, page 162.

CAPSULE GEOLOGY

The property is located west of the entrance to Harriet Harbour, between sea level and 174 metres elevation, about 71 metres from the

beach.

In 1908 three claims were surveyed by owner L.T. Watson. September 20, 1911, the Togo claim (Lot 140), was Crown-granted to

Benjamin Metcalfe.

In 1914 a 5-metre shaft was sunk on a 2-metre wide section of the replacement zone by Daykin and Metcalfe, who were the owners at that time.

A magnetite replacement zone, striking east-southeast for 18 metres with a maximum width of 3.6 metres, occurs in greenstone of the Vancouver Group, Upper Triassic Karmutsen Formation. The body contains abundant garnet, stringers of coarsely crystalline calcite

and quartz with disseminated chalcopyrite.

A sample from a 2-metre section of the zone assayed 3 per cent copper (Minister of Mines Annual Report 1914, page 162).

**BIBLIOGRAPHY** 

EMPR AR 1908-60; 1911-287; \*1914-162

EMPR BULL 54, p. 220

EMPR PF (McDougall, J.J., (1956): Report on Properties at Ikeda Bay, Queen Charlotte Islands June 6, 1956 - refer to the Lily Mine, 103B 028)

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC EC GEOL \*Series 3, Vol. 1, 1926, pp. 34,35 GSC MAP 1385A GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10; 91-1A, pp. 383-391 MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/24 DATE REVISED: 1989/03/07 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103B 030

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 031

NAME(S): MODOC (L.83)

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands Underground

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 17 29 N

LONGITUDE: 131 13 31 W ELEVATION: 60 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on the west side of Harriet Harbour on Crown granted claim,

Lot 83.

COMMODITIES: Gold Silver Copper Iron

SIGNIFICANT: Chalcopyrite Magnetite Pyrite

ASSOCIATED: Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Massive CLASSIFICATION: Replacement TYPE: T MISC Industrial Min.

MISCELLANEOUS

DIMENSION: 15 STRIKE/DIP: TREND/PLUNGE: x 3 Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Upper Triassic Vancouver Karmutsen

LITHOLOGY: Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1929

SAMPLE TYPE: Grab

COMMODITY **GRADE** 

Silver 13.7000 Grams per tonne Gold 1.4000 Grams per tonne 0.6000 Per cent

Copper COMMENTS: Sample from a 15 metre long zone that ranges up to 3.6 metres

in width.

REFERENCE: National Mineral Inventory Card 103B6 Cu4.

**CAPSULE GEOLOGY** 

This property consists of one Crown-granted claim, Lot 83, covering 28.97 acres. It is situated at 76 metres elevation, 305 metres fast north of the Reco property (103B 032) on the southeast coast of Moresby Island. It was part of the large group

originally held by J.S. McMillan (see Copper Queen, 103B 035).

The showing was discovered around 1906 and Crown-granted to
McMillan in 1909. It was developed by a 6-metre adit and in 1909, 122 metres of diamond drilling was done on this and the Reco claim.

A vein-like body of magnetite with pyrite and chalcopyrite

occurs in greenstone of the Vancouver Group, Upper Triassic Karmutsen Formation. The zone is 15 metres long and 3.6 metres wide and assays run 0.6 per cent copper, 1.4 grams per tonne gold and 13.7 grams per tonne silver (National Mineral Inventory Card 103B6 Cu4).

**BIBLIOGRAPHY** 

EMPR AR 1907-67; 1908-60; 1909-275; \*1929-60

EMPR BULL 54, pp. 209,220

GSC EC GEOL \*Series 3, Vol. 1, 1926, p. 35

GSC MAP 1385A

GSC P 88-1E, pp. 221-227; 89-1H, pp. 95-112; 90-10; 91-1A, pp.

383-391

GSC SUM RPT 1909 p. 78

MINFILE NUMBER: 103B 031

PAGE:

NATIONAL MINERAL INVENTORY: 103B6 Cu4

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5795780

EASTING: 348237

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/24 DATE REVISED: 1999/08/30 FIELD CHECK: N CODED BY: LDJ REVISED BY: PSF

MINFILE NUMBER: 103B 031

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 032

NATIONAL MINERAL INVENTORY: 103B6 Cu5

NAME(S): **RECO (L.82)** 

MINING DIVISION: Skeena

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

81

NTS MAP: 103B06E BC MAP:

NORTHING: 5795471

52 17 19 N 131 13 31 W LATITUDE: LONGITUDE:

EASTING: 348227

ELEVATION: 90 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 6 (Minister of Mines Annual Report 1961, page 14).

Located 400 metres southwest of the south end of Harriet Harbour.

COMMODITIES: Copper Silver Iron Gold Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite Pyrite Chalcopyrite

ALTERATION: Garnet MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive

CLASSIFICATION: Skarn TYPE: K01

Replacement

Industrial Min.

K03 Fe skarn

Cu skarn

SHAPE: Tabular MODIFIER: Fractured DIMENSION: 24 x 2

x 2 Metres STRIKE/DIP: 090/40N

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Vancouver Karmutsen

Upper Triassic Jurassic

Burnaby Island Plutonic Suite

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Magnetite Skarn

Greenstone Hornblende Diorite

Jedway Stock is part of Burnaby Island Plutonic Suite. Age date: HOSTROCK COMMENTS:

Regional

R.G. Anderson (GSC), Personal Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact

RELATIONSHIP: Svn-mineralization

GRADF: Greenschist

Post-mineralization

Hornfels

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1929 Assay/analysis

SAMPLE TYPE: Grab COMMODITY Silver

**GRADE** 24,0000 Grams per tonne 3.4000 Grams per tonne

Gold 1.5000 Per cent Copper

COMMENTS: Sample from 24 metre long by 1.2 to 2.4 metre wide magnetite

body.

REFERENCE: National Mineral Inventory Card 103B6 Cu5.

**CAPSULE GEOLOGY** 

This property consists of one Crown-granted claims Lot 82, covering 40.63 acres. It is situated at 61 metres elevation about 1 kilometre southwest of Harriet Harbour on the southeast coast of Moresby Island. It is part of a large group originally held by J.S.

McMillan (see Copper Queen, 103B 035).
The showing was discovered around 1906 and Crown-granted to McMillan in 1909. It was explored by surface work and a 4.6-metre shaft. In 1908, 122 metres of drilling was done on this and the adjoining Modoc claim (103B 031). Since then the only significant work was done in 1956 when Silver Standard Mines Limited

drilled several short packsack holes totalling about 122 metres.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT
RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The property has remained in the McMillan family and in 1968 was held by Paul McMillan.

A body of magnetite, with garnet and veinlets of pyrite and chalcopyrite, occurs in fractured greenstone of the Vancouver Group, Upper Triassic Karmutsen Formation at the contact of hornblende diorite of the Jedway Stock. The Jedway Stock is part of the Middle to Late Jurassic Burnaby Island Plutonic Suite. The magnetite body, measuring 24 metres long and 1.2 to 2.4 metres wide, trends westward from the contact and dips north about 40 degrees. Assays run about 1.5 per cent copper, 3.4 grams per tonne gold and 24 grams per tonne silver (National Mineral Inventory Card 103B6 Cu5).

### **BIBLIOGRAPHY**

EMPR AR 1907-67; 1908-60; 1909-279; 1929-60; 1961-14 EMPR BULL \*54, pp. 208,209 EMR MP CORPFILE (Silver Standard Mines Limited) GSC EC GEOL \*Series 3, Vol. 1, 1926, p. 36 GSC MAP 1385A GSC P 88-1E, pp. 213-216,\*221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 91-1A, pp. 383-391 GSC SUM RPT 1909, p. 78 MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/24 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1999/08/31 REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 033

NATIONAL MINERAL INVENTORY: 103B6 Fe7

PAGE:

EASTING: 348114

REPORT: RGEN0100

83

NAME(S): BLUE BELLE (L.80), DINGO (L.87)

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP: UTM ZONE: 09 (NAD 83) NORTHING: 5794856

LATITUDE: 52 16 59 N LONGITUDE: 131 13 36 W ELEVATION: 240 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Showing, Figure 2 (Minister of Mines, Annual Report 1961, page 14).

Located south of Harriet Harbour.

COMMODITIES: Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite ASSOCIATED: Garnet MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Skarn Industrial Min.

CLASSIFICATION: Replacement TYPE: K03 Fe skarn

DIMENSION: 0012 x 0004 STRIKE/DIP: 135/90F TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen Upper Triassic Kunga Sadler

LITHOLOGY: Greenstone

Limestone Massive Magnetite Skarn Garnet Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: BLUE BELLE REPORT ON: Y

> CATEGORY: YFAR: 1960 Indicated

> QUANTITY: 13600 Tonnes **GRADE**

COMMODITY Per cent 60.0000

COMMENTS: Based on seven drillholes. The grade is probable at 50.0 per

cent iron.

REFERENCE: Bulletin 54, page 208.

**CAPSULE GEOLOGY** 

This property consists of one Crown-granted claim (Lot 80), covering 14.78 acres. It is located at 244 metres elevation about 0.8 kilometre southwest of Harriet Harbour on the southeast coast of Moresby Island. It has commonly been called the Dingo although this is actually a separate showing and claim. It is part of a large group of claims originally held by J.S. McMillan (see Copper Queen, 103B 035).

The showing was probably discovered around 1906 and was Crown-granted to McMillan in 1909. In 1960 Silver Standard Mines Limited drilled seven EX holes totalling 169 metres, out-lining 13,607 tonnes grading 60 per cent iron. Some geophysical work was also done.

Jedway Iron Ore Limited acquired the property in 1961. A small pipe-like lens of magnetite with minor garnet, striking northwest and dipping near vertically, occurs at the contact of Vancouver Group, Upper Triassic Karmutsen volcanics and Upper Triassic Sadler Formation (Kunga Group) limestone. Surface exposure of the lens is about 12 metres long and 1.5 to 4.5 metres wide. Drilling in 1960 outlined about 13,600 tonnes grading probably 50.0 per cent iron (Bulletin 54, page 208).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1909-275; 1911-287; 1959-14; 1960-12; 1961-14 EMPR BULL \*54, p. 208 EMR MP CORPFILE (Silver Standard Mines Limited; Jedway Iron Ore

EMR MP CORPFILE (Sliver Standard Mines Dimited, Jeans, 1201 522 Limited)
GSC EC GEOL Series 3, Vol. 1, 1926, p. 36
GSC MAP 1385A
GSC P 88-1E, pp. 221-227; 89-1H, pp. 95-104; 90-10, pp. 163-172; 91-1A, pp. 383-391
GSC SUM RPT 1909, p. 78
W MINER Oct., 1959; Jan., 1962; Sept., 1962

DATE CODED: 1986/07/24 DATE REVISED: 1989/03/09 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 033

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 034 NATIONAL MINERAL INVENTORY: 103B6 Fe12

NAME(S): MAGNET, IRON MOUNTAIN (L.79)

STATUS: Developed Prospect REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 16 49 N NORTHING: 5794556 EASTING: 347820

LONGITUDE: 131 13 51 W ELEVATION: 150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 2 (Minister of Mines, Annual Report 1961, page 14).
Located about 1.2 kilometres south of Harriet Harbour.

COMMODITIES: Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite Sphalerite

ASSOCIATED: Garnet Calcite Garnet

ALTERATION: Epidote
ALTERATION TYPE: Epidote Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Massive

CLASSIFICATION: Skarn Replacement Industrial Min.

TYPE: K03 SHAPE: Tabular Fe skarn

DIMENSION: 0110 x 0055 x 0006 Metres STRIKE/DIP: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Upper Triassic Vancouver Karmutsen Kunga Sadler

Jurassic Burnaby Island Plutonic Suite

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Massive Magnetite Epidote Volcanic Skarn Garnetite

Limestone Quartz Diorite Diorite Porphyry Dike

HOSTROCK COMMENTS: Jedway Stock is part of Burnaby Island plutonic suite. Age date from

R.G. Anderson, GSC, Personal Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Greenschist Regional

Post-mineralization Hornfels

INVENTORY

ORE ZONE: MAGNET REPORT ON: Y

> CATEGORY: Inferred YEAR: 1959

QUANTITY: 453590 Tonnes COMMODITY 60.0000 Per cent

Iron COMMENTS: Estimated ore from drilling averaging 60 per cent iron as magnetite.

REFERENCE: Energy, Mines and Resources Reserves File - Magnet.

ORE ZONE: MAGNET REPORT ON: Y

> CATEGORY: Indicated YEAR: 1959

> 161480 Tonnes QUANTITY:

> COMMODITY **GRADE**

Iron 60.0000 Per cent COMMENTS: Drill indicated ore averaging 60.0 per cent iron as magnetite.

REFERENCE: Bulletin 54, page 209.

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

This showing is located about 0.9 kilometre southwest of Harriet Harbour between 442 and 488 metres elevation on the southeast coast  $\,$ of Moresby Island. The property consists of one Crown-granted claim, Lot 79, covering 38.03 acres. It was originally part of a large group held by J.S. McMillan (see Copper Queen, 103B 035).

The outcrop was discovered around 1906 by or for McMillan and

was Crown-granted to him in 1911; it was originally known as Iron Mountain. Some stripping was done and a 7-metre adit was driven about 1908. Little further work was done until Silver Standard Mines Limited optioned the property in 1956. In the fall of 1959, 22 EX holes totalling 467 metres were drilled. Geophysical work was also done. Reserves have been estimated at 161,478 to 453,592 tonnes averaging 60 per cent magnetic iron.

The property was acquired in 1961 by Jedway Iron Ores Limited as a result of part of an agreement between The Granby Mining Company Limited and Silver Standard Mines Limited.

A lensoid body of massive magnetite replaces greenstone and pillowed greenstones of the Upper Triassic Karmutsen Formation (Vancouver Group) and minor limestone of the overlying Upper Triassic Sadler Formation (Kunga Group). The strata strike north and dip 20 to 35 degrees west. Fine diorite porphyry dikes cut the limestone and quartz diorite of the Jedway Stock intrudes these stratified rocks to the east. The Jedway Stock is part of the Middle to Late Jurassic Burnaby Island Plutonic Suite. A moderate size fault, striking about 125 degrees, either cuts the downdip part or localizes the mineralized body.

The mineralized body, measuring 110 by 55 by 6 metres, consists of massive magnetite with pods of garnetite and remnants of epidotized volcanic rocks. Along the western margin minor pyrite, chalcopyrite and trace sphalerite are reported.

In 1959, indicated reserves were 161,480 tonnes averaging 60.0 per cent iron as magnetite (Bulletin 54, page 209); and inferred reserves were 453,590 tonnes averaging 60.0 per cent iron as magnetite (Energy, Mines and Resources Reserves File - Magnet).

#### **BIBLIOGRAPHY**

EMPR AR 1907-67; 1911-287; 1929-60; 1959-14; 1960-11-12; 1961-14 EMPR BULL \*54, pp. 198,209 GSC EC GEOL \*Series 3, Vol. 1, pp. 37-39 GSC MAP 1385A GSC P 88-1E, pp. 213-216, \*221-227; 89-1H, pp. 9 90-10, pp. 59-87, 163-172; 91-1A, pp. 383-391 GSC SUM RPT \*1909, p. 78 95-104,\*105-112; EMR MP CORPFILE (Silver Standard Mines Limited; Jedway Iron Ore Limited) EMR MP RESFILE (Magnet) MIN REV Mar./Apr., 1988, pp. 19-24 W MINER Oct., 1959; Jan., Sept., 1962

DATE CODED: 1986/07/23 DATE REVISED: 1989/03/07 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 035 NATIONAL MINERAL INVENTORY: 103B6 Cu3

NAME(S): COPPER QUEEN (L.77)

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 16 44 N

LONGITUDE: 131 13 26 W ELEVATION: 290 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 2 (Minister of Mines, Annual Report 1961, page 14.

Located approximately 1.6 kilometres south of Harriet Harbour.

COMMODITIES: Copper Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite Malachite

ASSOCIATED: Quartz ALTERATION: Garnet ALTERATION TYPE: Skarn Actinolite Malachite Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Concordant Disseminated Vein CLASSIFICATION: Skarn Replacement Igneous-contact Industrial Min.

TYPE: K03 SHAPE: Tabular Fe skarn K01 Cu skarn

x 10 STRIKE/DIP: 050/30N DIMENSION: 12 Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Vancouver Upper Triassic Karmutsen

Burnaby Island Plutonic Suite Júrassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Magnetite Skarn Andesitic Dike Quartz Diorite

HOSTROCK COMMENTS:

Jedway Stock is part of Burnaby Island Plutonic Suite (GSC P 89-1H, pp. 105-112). Age date: R.G. Anderson, GSC, Pers. Comm., Mar., 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

METAMORPHIC TYPE: Contact Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist Post-mineralization Hornfels

INVENTORY

REPORT ON: Y ORE ZONE: COPPER QUEEN

> CATEGORY: Unclassified YEAR: 1956 QUANTITY: 90720 Tonnes

**GRADE** COMMODITY

1.7500 Per cent

COMMENTS: Estimated between 1.5 to 2 per cent copper by Silver Standard Mines

Limited.

REFERENCE: National Mineral Inventory 103B6 Cu3.

**CAPSULE GEOLOGY** 

The Copper Queen claim (Lot 77) is located nearly one kilometre south of Harriet Harbour, on either side of a small steep creek at about 290 metres elevation, on the southeast coast of Moresby Island. The Copper Queen is the key claim of a large block between Harriet Harbour and Huston Inlet originally held by J.S. McMillan. This block covers over 875 acres on Lots 77, 85, 87, 88, 92, 331, 2597 to 2604, 2607, 2608. These include Modoc (103B 031), Reco (103B 033), Moresby Island (103B 036), Eagle Tree (103B 037), Blue Belle (103B 032) and Magnet (103B 034). Some of the claims have remained in the McMillan family while others have been held by Jedway Iron Ore Limited and The Granby Mining Company Limited (see Jessie, 103B 026).

> MINFILE NUMBER: 103B 035

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5794387

EASTING: 348289

REPORT: RGEN0100

### GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION**

#### CAPSULE GEOLOGY

The Copper Queen showings were discovered around 1906 and the lot was Crown-granted to McMillan in 1909. In 1907 and 1908 some stripping was done, three short adits and one long adit were started and a tramline was cut to the beach. By 1909 the long adit reached its target but results were disappointing. The combined length of the four adits was about 137 metres. Very little further activity was reported until 1954 when R.E. Legg carried out diamond drilling in several short holes.

Silver Standard Mines Limited optioned 21 Crown-granted claims in this vicinity in 1956. Diamond drilling on the Copper Queen totalled 372 metres in 9 holes. Tonnage and grade have been estimated at 9.071 tonnes of 1.5 to 2 per cent copper.

The property has remained in the McMillan family and in 1968 was held by Paul McMillan.

The deposit occurs within amphibolitized greenstone of the upper part of the Vancouver Group, Upper Triassic Karmutsen Formation at the contact of mafic-rich quartz diorite of the Jedway Stock. The Jedway Stock is part of the Burnaby Island Plutonic Suite dated as Middle to Late Jurassic in age. The volcanics strike 050 degrees and dip 30 degrees north. North trending unaltered green pyritic andesite dikes cut the mineralization.

A bedded horizon of massive magnetite lenses, with streaks, blebs and veinlets of chalcopyrite and pyrite, as well as garnet and actinolite occur 15 metres above the contact. The main lens is exposed for 7.6 metres along strike and 12 metres down dip with a 3 metre width. Minor lenses of magnetite with chalcopyrite occur at the contact. Malachite is present also. At the fringe of the lenses, vuggy quartz-pyrite-magnetite veinlets occur.

#### **BIBLIOGRAPHY**

EMPR AR 1907-66; 1908-59-60; 1909-71,275; 1910-84; 1911-76; 1912-110; 1913-104; 1914-162; 1919-40; 1920-44; 1923-44; 1925-65; 1926-67; 1928-64; 1929-60; \*1961-14 EMPR BULL \*54, pp. 209-210
EMR MP CORPFILE (Silver Standard Mines Limited) GSC EC GEOL Series 3, Vol. 1, 1926, pp. 37,51 GSC MAP 1385A GSC P 88-1E, pp. 213-216, \*221-227; 89-1H, pp. 95-104,\*105-112; 90-10, pp. 59-87; 91-1A, pp. 383-391
GSC SUM RPT \*1909, p. 77 MIN REV Mar./Apr., 1988, pp. 19-24

DATE CODED: 1986/07/23 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 036 NATIONAL MINERAL INVENTORY: 103B6 Cu6

NAME(S): MORESBY ISLAND (L.78), TATE, JEDWAY

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 52 16 54 N NORTHING: 5794684 EASTING: 348677

LONGITUDE: 131 13 06 W ELEVATION: 230 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 2 (Minister of Mines, Annual Report 1961, page 14).

Located approximately 1.5 kilometres south of Harriet Harbour on

Crown granted Lot 78.

Silver COMMODITIES: Copper Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite

**Epidote** Actinolite

ALTERATION: Garnet ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Massive CLASSIFICATION: Skarn Replacement Igneous-contact Industrial Min.

TYPE: K01 Cu skarn K03 Fe skarn

SHAPE: Tabular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen

Jurassic Burnaby Island Plutonic Suite

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Limestone Quartz Diorite

Garnet Epidote Actinolite Skarn

Skarn

Massive Magnetite

Jedway Stock is part of Burnaby Island Plutonic Suite. Age date from HOSTROCK COMMENTS:

R.G. Anderson GSC, Personal Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Greenschist Regional Svn-mineralization Post-mineralization Hornfels

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1929

> SAMPLE TYPE: Chip

**COMMODITY** 34.0000 Silver Grams per tonne

Copper COMMENTS: Chip samples from surface showings. REFERENCE: Bulletin 54, page 210.

CAPSULE GEOLOGY

This property is located one kilometre southwest of Harriet Harbour at about 228 metres elevation on the southeast coast of Moresby Island. It covers an area of 45-79 acres on Lot 78. It was part of a large block originally held by J.S. Queen, 103B 035). McMillan (see Copper

1.1000

Per cent

The showings were discovered in 1905-1906 and Crown-granted in 1910. Early work consisted of trenching and open-cutting. In 1956 Silver Standard Mines Limited drilled two packsack holes totalling 30

metres. The reserves were estimated at 10,886 tonnes.

The property is now part of Jedway Iron Ore Limited's large

MINFILE NUMBER: 103B 036

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

group of claims (see Jessie, 103B 026).

A small body of massive magnetite and a zone of disseminated chalcopyrite in a skarned, flat-lying lens of limestone occurs at the southern contact of quartz diorite of the Jedway Stock. The Jedway Stock is part of the Middle to Late Jurassic Burnaby Island Plutonic Suite. The limestone, which is an interlava unit within greenstones of the Vancouver Group, Upper Triassic Karmutsen Formation, is variably altered to skarn with replacement by garnet, epidote and actinolite. Disseminated chalcopyrite occurs over an area 100 by 70 metres. Chip samples of surface showings averaged 1.1 per cent copper and 34 grams per tonne silver (Bulletin 54, page 210).

#### **BIBLIOGRAPHY**

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EMR MP CORPFILE (Silver Standard Mines Limited; Jedway Iron Ore Limited) GSC MAP 1385A GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 91-1A, pp. 383-391
GSC SUM RPT 1909, p. 77 MIN REV March/April 1988, pp. 19-24

FIELD CHECK: N DATE CODED: 1986/07/23 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF

MINFILE NUMBER: 103B 036

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 037 NATIONAL MINERAL INVENTORY: 103B6 Cu7

NAME(S): EAGLE TREE (L.2600)

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 16 49 N

LONGITUDE: 131 12 26 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Lot 2600. Located approximately 1.5 kilometres south of

Harriet Harbour on the southeast coast of Moresby Island.

COMMODITIES: Copper Iron Silver Gold Magnetite

MINERALS
SIGNIFICANT: Magnetite Chalcopyrite Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Massive CLASSIFICATION: Skarn Replacement Igneous-contact Industrial Min.

Cu skarn

TYPE: K01 C SHAPE: Tabular MODIFIER: Sheared

DIMENSION: 100 x 6 Metres STRIKE/DIP: 065/80S TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Vancouver **FORMATION** IGNEOUS/METAMORPHIC/OTHER Karmutsen

Upper Triassic

Jurassic Burnaby Island Plutonic Suite

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Skarn Quartz Diorite Massive Magnetite

Jedway Stock is part of Burnaby Island Plutonic Suite. Age date from HOSTROCK COMMENTS:

R.G. Anderson GSC, Personal Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Svn-mineralization Regional GRADF: Greenschist Post-mineralization Hornfels

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1956

SAMPLE TYPE: Drill Core

COMMODITY Silver **GRADE** 34.3000 Grams per tonne Gold 3.5000 Grams per tonne

2.6000 Copper COMMENTS: Average assays obtained by Silver Standard Mines in 1956 drill

program.

REFERENCE: National Mineral Inventory Card 103B6 Cu7.

**CAPSULE GEOLOGY** 

This property consists of one claim, Lot 2600, covering 29.97 acres. It is located one kilometre southwest of Harriet Harbour at 305 to 335 metres elevation on the southeast coast of Moresby Island. It was part of a large block originally held by J.S. McMillan (see Copper Queen, 103B 035).

The showings were discovered around 1907 and it was part of the eight claim Eagle Tree Group owned by C.H. Park in 1908.

Work at the time included a 67-metre crosscut adit, a 5-metre shaft and surface work. The claim was Crown-granted to J.S. McMillan in 1914. In 1956 Silver Standard Mines Limited drilled 12 EX holes totalling 568 metres. The property remained in the McMillan family.

> MINFILE NUMBER: 103B 037

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5794507

EASTING: 349430

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Massive and disseminated bodies of magnetite, pyrite and chalcopyrite occur along a sheared contact between  ${\tt Vancouver}$  Group, Upper Triassic Karmutsen volcanics and quartz diorite of the Jedway Stock. The Jedway Stock is part of the Middle to Late Jurassic Burnaby Island Plutonic Suite. The contact trends 065 degrees and dips steeply south.

In 1956, the mineralized zone was reported to be over 100 metres long and 6 metres wide. Samples averaged 2.6 per cent copper, 3.5 grams per tonne gold and 34.3 grams per tonne silver (National Mineral Inventory Card 103B6 Cu7).

#### **BIBLIOGRAPHY**

EMPR AR 1908-60; 1914-513; \*1929-60 EMPR BULL \*54, pp. 209,211 EMR MP CORPFILE (Silver Standard Mines Limited) GSC MAP 1385A GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 91-1A, pp. 383-391 MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/23 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1999/08/30 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103B 037

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 038

NATIONAL MINERAL INVENTORY: 103B6 Fe10

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5793088 EASTING: 350336

REPORT: RGEN0100

93

NAME(S): <u>IDA</u>, JIM, HUSTON

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 16 04 N LONGITUDE: 131 11 36 W ELEVATION: 240 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located approximately 1.5 kilometres east of the southeast end of

Huston Inlet on the southeast coast of Moresby Island.

COMMODITIES: Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite ASSOCIATED: Calcite ALTERATION: Garnet
COMMENTS: Green garnet.
ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Discordant Disseminated

CLASSIFICATION: Skarn TYPE: K03 Replacement Epigenetic Industrial Min.

Fe skarn SHAPE: Irregular

DIMENSION: 60 x 8 Metres STRIKE/DIP: 010/90E TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

GROUP Vancouver TRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Karmutsen

Jurassic Burnaby Island Plutonic Suite

ISOTOPIC AGE: 168 +4/-1 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Greenstone Skarn

Magnetite Skarn

Diorite

HOSTROCK COMMENTS: Age date: GSC Paper 90-10, page 63, Figure 2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

METAMORPHIC TYPE: Contact Regional RELATIONSHIP: Svn-mineralization GRADE: Greenschist Post-mineralization Hornfels

**CAPSULE GEOLOGY** 

This property, along with the Hercules (103B 039) is part of the Jim Group of recorded claims held by Jedway Iron Ore Limited. It is situated about 1.6 kilometres east of the southeast end of Huston Inlet on the southeast coast of Moresby Island. The showing

is at about 244 metres elevation.

The claim was staked around 1907 by J.S. McMillan, H. McEachern and F. Watson and in 1914 it was Crown-granted to McMillan and the

Pioneer Queen Charlotte Development Company. In 1980 and 1981, Chevron Canada Resources Ltd. conducted geochemical, geophysical and geological surveys on the Huston claim.

A vertical dike-like magnetite skarn, striking 010 degrees, occurs in Vancouver Group, Upper Triassic Karmutsen volcanics near its contact with diorites of the Burnaby Island Plutonic Suite. The skarn contains green garnet and calcite in variable amounts and minor sulphides. The showing strikes for nearly 60 metres with a width up to 8 metres. The estimated potential of the showing is about 10,890 tonnes of magnetic iron. No grade is stated (National Mineral Inventory Card 103B6 Fe 10).

**BIBLIOGRAPHY** 

EMPR AR 1907-68; 1914-513; 1915-448 EMPR ASS RPT 8224, 9702, 13102

> MINFILE NUMBER: 103B 038

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL \*54, p. 211

EMPR EXPL 1980-365; 1981-95; 1984-358

GSC EC GEOLOGY Series 3, Vol. 1, 1926, p. 43

GSC MAP 1385A

GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 91-1A, pp. 383-391

MIN REV March/April 1988, pp. 19-24

Chevron File

DATE CODED: 1986/07/18 DATE REVISED: 1989/03/06 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 038

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 039

NATIONAL MINERAL INVENTORY: 103B6 Fe11

PAGE:

NORTHING: 5793077 EASTING: 350715

REPORT: RGEN0100

95

NAME(S): <u>HERCULES</u>, JIM, MORNING, HUSTON

STATUS: Showing Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B06E

UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE:

LONGITUDE: 131 11 16 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Magnetite skarn, Figure 4 (Assessment Report 9702). Located about 2

kilometres east of the southeast end of Huston Inlet.

COMMODITIES: Copper Gold Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite ASSOCIATED: Quartz ALTERATION: Garnet Calcite Pyroxene ALTERATION TYPE: Skarn Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Discordant Disseminated

CLASSIFICATION: Replacement Skarn **Epigenetic** Industrial Min.

K01 TYPE: K03 Cu skarn Fe skarn

SHAPE: Irregular x 24 DIMENSION: 45 x 21 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Mineralized surface exposure; may be greater.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Vancouver Upper Triassic Karmutsen Triassic-Jurassic **Undefined Formation** Kunga

Jurassic Burnaby Island Plutonic Suite

ISOTOPIC AGE: 168 +4 / - 1 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Basalt Quartz Monzonite

Skarn Magnetite Skarn Garnet Skarn Greenstone Limestone Argillite

HOSTROCK COMMENTS: Age date from GSC Paper 90-10, page 63, Figure 2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization Regional GRADE: Greenschist

Post-mineralization Hornfels

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: SAMPLE TYPE: Assay/analysis YEAR: 1981

Grab **COMMODITY GRADE** 

4.4000 Grams per tonne

COMMENTS: Sample from silicified basalt. REFERENCE: Assessment Report 9702.

CAPSULE GEOLOGY

This property, along with Ida (103B 038), is part of the Jim Group of recorded claims held by Jedway Iron Ore Limited. It situated about 227 kilometres east of the southeast end of Huston Inlet on the southeast coast of Moresby Island. The showing is at about 335 metres elevation.

The deposit was discovered about 1906 by Messrs. McMillan,

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Watson and McEachern. Work included some open-cuts and two small adits.

In 1980 and 1981, Chevron Canada Resources Ltd. conducted geochemical, geophysical and geological surveys on the Huston claim. An irregular skarn occurs over an area measuring 45 by 24 metres at the contact between basalts of the Vancouver Group, Upper Triassic Karmutsen Formation and quartz monzonite of the Middle Jurassic Burnaby Island Plutonic Suite. Overlying these are limestones and argillites of the Jurassic to Triassic Kunga Group.

The skarn is silicified and is mineralized variably with magnetite, pyrite and chalcopyrite, with garnet, quartz and calcite gangue.

A grab sample of the skarn assayed 0.75 per cent copper and a grab sample of a silicified basalt in contact with magnetite skarn about 100 metres to the northwest assayed 4.4 grams per tonne gold (Assessment Report 9207).

#### **BIBLIOGRAPHY**

EMPR AR 1907-68; 1909-71; 1910-84; 1911-76; 1912-110; 1913-101; 1914-162 EMPR ASS RPT \*8224, \*9702, 13102 EMPR BULL \*54, p. 211 EMPR EXPL 1980-365; 1981-95; 1984-358 GSC EC GEOLOGY Series \*No. 3, Vol. 1, 1926, pp. 43-44 GSC MAP 1385A GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 91-1A, pp. 383-391
MIN REV March/April 1988, pp. 19-24 Chevron File

DATE CODED: 1986/07/18 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIFI D CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 039

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

Gold

MINFILE NUMBER: 103B 040

NATIONAL MINERAL INVENTORY: 103B6 Cu2

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5794736

EASTING: 352092

PAGE:

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97

NAME(S): LOTUS (L.1860), IKEDA 7, IKEDA 8

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 16 59 N

LONGITUDE: 131 10 06 W ELEVATION: 160 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Ore zone, Map 1K3 (McDougall, 1956, Property File, refer to Lily Mine 103B 028). Located approximately 1.2 kilometres south of Ikeda Cove.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Arsenopyrite Chalcopyrite Magnetite

ALTERATION: Chlorite Epidote

ALTERATION TYPE: Propylitic
MINERALIZATION AGE: Unknown Skarn

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Skarn Massive

**Epigenetic** Replacement

TYPE: K01 Cu skarn

Tabular

SHAPE: Tat DIMENSION: 15 x 12 STRIKE/DIP: TREND/PLUNGE: x 6 Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Kunga Sadler Upper Triassic Vancouver Karmutsen

LITHOLOGY: Basalt

Skarn Limestone Greenstone Granodiorite Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist

Post-mineralization Hornfels

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YEAR: 1985 Assay/analysis

SAMPLE TYPE: Drill Core

**GRADE** COMMODITY Silver 17.6000 Grams per tonne Gold 0.2500 Grams per tonne Copper 0.5800 Per cent

COMMENTS: 3 metre drill core section, DDH 1K85-22.

REFERENCE: Assessment Report 14818.

**CAPSULE GEOLOGY** 

This showing is located on the southeast coast of Moresby Island about 1.2 kilometres southwest of Ikeda Cove at an elevation of about 152 metres. It was originally the Lotus Crown-granted claim, Lot 1860, but is now held by recorded claims Ikeda Nos. 7 and 8, part of the large block held by Falconbridge Nickel Mines Limited (see Lily, 1029, 20) 103B 028).

The showing was discovered by A. Ikeda and associates while prospecting in the vicinity of their Lily showings in the period 1901 to 1906. It was originally part of their Lotus Group of six claims. The claim was developed by a 23-metre open cut and a 36.5-metre adit driven in 1918 at an elevation of 146 metres.

The Vancouver Group, Upper Triassic Karmutsen Formation consisting primarily of basalt is conformably overlain by limestone of the Upper Triassic Sadler Formation (Kunga Group). A

RUN DATE: 26-Jun-2003 **MINFILE**RUN TIME: 12:06:33 GF01.0GH

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

sulphide-rich massive replacement body, consisting of pyrrhotite, pyrite, chalcopyrite and arsenopyrite, occurs at the contact between Sadler limestones and Karmutsen volcanics. The ore body is exposed on surface for 10 by 6 metres and is cut by a 14 metres adit. A 3-metre drill hole section contained 0.58 per cent copper, 17.6 grams per tonne silver and 0.25 gram per tonne gold (Assessment Report 14818).

### **BIBLIOGRAPHY**

EMPR AR \*1907-65; 1958-72
EMPR ASS RPT 193, 14189, \*14818
EMPR BULL \*54, p. 211
EMPR EXPL 1985-C362; 1986-C418
EMPR PF (McDougall, J.J., (1956): Report on Properties at Ikeda Bay, Queen Charlotte Islands, Jun.6, 1956 (refer to the Lily Mine - 103B 028))
EMR Mineral Resources Branch; Metals Committee File: MC 167-C3-2-10
EMR MP CORPFILE: (Ikeda Mines, Limited; St. Eugene Mining Corporation, Limited)
GSC MAP 1385A
GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp. 163-172; 91-1A, pp. 383-391
CANMET RPT MC 167-C3-2-10
MIN REV March/April 1988, pp. 19-24
Falconbridge File

DATE CODED: 1986/07/22 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1999/08/30 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103B 040

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 041

NATIONAL MINERAL INVENTORY: 103B6 Fe5

NAME(S): THUNDER (L.2611), DEAKINS, DAYKIN'S, SADIE (L.2610), SPADE FLUSH (L.2612)

STATUS: Developed Prospect

Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B06E

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

99

BC MAP:

LATITUDE: 52 16 24 N LONGITUDE: 131 10 06 W ELEVATION: 225 Metres

NORTHING: 5793654 EASTING: 352060

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Figure 5A (Assessment Report 14818). Thunder adit is about 2.5

kilometres west-southwest from the end of Collison Bay.

COMMODITIES: Iron Silver Magnetite Copper Gold

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite

ASSOCIATED: Quartz ALTERATION: Chlorite **Epidote** Quartz Garnet

ALTERATION TYPE: Propylitic Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Discordant Concordant

CLASSIFICATION: Skarn TYPE: K03 I SHAPE: Tabular Replacement Industrial Min. K01 Cu skarn

Fe skarn

DIMENSION: 64 x 6 Metres STRIKE/DIP: 030/65W TREND/PLUNGE: COMMENTS: Adit zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen Upper Triassic Sadler Kunga

LITHOLOGY: Greenstone

Massive Magnetite Garnet Skarn

Chlorite Epidote Garnet Skarn

Basalt Limestone Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

INVENTORY

ORE ZONE: THUNDER REPORT ON: Y

> CATEGORY: YFAR: 1964 Inferred

172365 Tonnes QUANTITY: COMMODITY

Iron COMMENTS: Estimated potential of ore grading 35 to 50 per cent iron

REFERENCE: Energy, Mines and Resources Canada Reserves File - Thunder.

**CAPSULE GEOLOGY** 

The showings are located on the southeast coast of Moresby Island, on the ridge between Ikeda Cove and Collison Bay, about 0.8 kilometre west of this Bay. The elevation is between 183 and 366  $\,$ metres above sea level.

Per cent

The showings were discovered in 1907 by Ike Thompson and C.T. Daykin. In 1914, the Sadie claim, Lot 2610, was Crown-granted to Thompson; the Thunder, Lot 2611, to Thompson and J.S. McMillan; the Spade Flush, Lot 2612, to Thompson and B. Metcalfe. These claims formed the Thunder Group covering 81.15 acres. The property was worked until the mid-1920's with surface stripping and the driving of a 91-metre adit on the Thunder claim in 1913-1914. During 1921 the group was optioned to Seattle interest.

In 1968 the Thunder claim was held by Mrs. Sadie Thompson and

the McMillan estate, each having one-half interest. The other claims

RUN DATE: 26-Jun-2003 MINFILE MASTER
RUN TIME: 12:06:33 GEOLOGICAL SURV.

MINFILE MASTER REPORT
GEOLOGICAL SURVEY BRANCH
ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

are part of a large block held by Falconbridge Nickel Mines Limited (See Lily,  $103B\ 028$ ).

Recent exploration has mainly involved examination and magnetometer surveying, first by Falconbridge Nickel Mines Limited and then by The Granby Mining Company Limited and Jedway Iron Ore Limited. Basalts of the Vancouver Group, Upper Triassic Karmutsen Formation are conformably overlain by limestone and argillites of the Jurassic to Triassic Kunga Group. The limestone strikes about 030 degrees and dips gently west. The rocks are intruded by northeast striking, steep east dipping diorite, felsite and basalt dikes.

striking, steep east dipping diorite, felsite and basalt dikes.

Magnetite, with variable pyrite, chalcopyrite and garnet-rich skarn, occur as conformable tabular bodies and as dike-like bodies, near normal to stratification. Mineralized zones occur in three areas. All zones are composed of mixtures, in varying degrees, of magnetite and garnet-rich skarn with epidote and chlorite. In some places chalcopyrite and pyrite form significant concentrations.

At the adit zone, a skarn and magnetite lens, 64 metres long and up to 6 metres wide, occurs within greenstone. The lens strikes 030 degrees and dips about 65 degrees west. About 400 metres to the west, a zone 150 metres long and up to 30 metres wide contains skarn and magnetite replacing Sadler Formation limestone at the Karmutsen contact. About 150 metres northwest of the adit are two distinct mineralized bodies, one an equant-shaped body up to 30 metres long, and another 35 degrees striking dike-like body, 60 metres long and 3 to 6 metres wide. A 2-metre adit sample assayed 2.6 per cent copper, 103 grams per tonne silver and 1.4 grams per tonne gold (Minister of Mines, Annual Report 1918, page 44).

Inferred reserves are 172,365 tonnes with 35.0 to 50.0 per cent iron (Energy, Mines and Resources Canada Reserves File - Thunder).

#### **BIBLIOGRAPHY**

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EMPR ASS RPT 193, \*14189, \*14818

EMPR BULL \*54, pp. 212-213

EMPR EXPL 1985-C362; 1986-C418

EMPR OF \*1988-28, pp. 86,87

EMPR PF (McDougall, J.J., (1956): Report on Properties at Ikeda Bay,
Queen Charlotte Islands, Jun.6, 1956, pp. 23-24, refer to the Lily
Mine - 103B 028; Sketch of Thunder Adit)

EMR MP RESFILE (Thunder)

GSC EC GEOL \*No. 3, Vol. 1, 1926, pp. 44-47

GSC MAP 1385A

GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp.
163-172; 91-1A, pp. 383-391

MIN REV March/April 1988, pp. 19-24

Falconbridge File

DATE CODED: 1986/07/21 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/03/07 REVISED BY: LLD FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 042

NATIONAL MINERAL INVENTORY: 103B6 Cu14

PAGE:

NORTHING: 5793652

EASTING: 352155

REPORT: RGEN0100

101

NAME(S): MEAL TICKET (L.2011 G1), COLLISON BAY, LECKIE, SAM'S ADIT, BAY, TREASURE BOX, TREASURE VAULT, CASH BOX (L. 2012)

Underground MINING DIVISION: Skeena

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 52 16 24 N LONGITUDE: 131 10 01 W ELEVATION: 120 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Adit, Figure 5A (Assessment Report 14818). Located about 800 metres

south-southwest of Collison Bay.

COMMODITIES: Copper Silver Gold Magnetite Iron

**MINERALS** 

SIGNIFICANT: Magnetite ASSOCIATED: Quartz Pyrrhotite Chalcopyrite Pyrite ALTERATION: Garnet **Epidote** Quartz Chlorite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Replacement Massive

Industrial Min. Skarn

TYPE: K01 Cu skarn

SHAPE: Tabular DIMENSION: 60 x 2 Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen Triassic-Jurassic **Undefined Formation** Kunga

LITHOLOGY: Feldspar Porphyry

Skarn Basalt Limestone Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

METAMORPHIC TYPE: Contact Regional RFI ATIONSHIP: Syn-mineralization GRADF: Greenschist

Post-mineralization Hornfels

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1984

> SAMPLE TYPE: Channel

COMMODITY Silver <u>GRA</u>DE 8.5000 Grams per tonne Gold 1.2000 Grams per tonne 2.4700 Per cent

Copper COMMENTS: 2.6 metre channel sample. REFERENCE: Assessment Report 14189.

CAPSULE GEOLOGY

The showings, discovered in 1906 by R.J. Leckie, are located 0.8 kilometre south of Collison Bay at an elevation 85 metres.

An adit was driven in 1907 for 10 metres; at 6.4 metres it cut obliquely a 1.2-metre zone of pyrrhotite containing values in copper, gold and silver. Mr. Leckie and associates in 1908 bonded 3 claims, the Meal Ticket, Treasure Vault, and Cash Box (Treasure Box), to the Trethawey Bros. but no development work was reported at that time. The claims were held from 1910 by Morresby Island Mines. Ltd. although The claims were held from 1910 by Moresby Island Mines, Ltd. although there is no record of this company as a Canadian incorporation. The Meal Ticket (Lot 2011 G 1) and Cash Box (Lot 2012) were Crown-granted to the company in 1914. It was reported in 1915 that the Treasure Vault claim had been Crown-granted to Collision Bay Mining Company,

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Limited.

The Meal Ticket group, consisting of the Meal Ticket, Treasure Box, and Treasure Vault claims, was owned from about 1918 to 1926 by George D. Scott, of Vancouver. No work was reported during this period.

Falconbridge Limited sampled on the property in 1985. Volcanics of the Vancouver Group, Upper Triassic Karmutsen Formation are overlain by limestone of the Jurassic to Triassic Kunga Group.

A near horizontal tabular lens of magnetite with a thickness from 1 to 2.5 metres and a strike length of 60 metres occurs within feldspar porphyry. Associated with the magnetite are variable

amounts of chalcopyrite, pyrrhotite and pyrite.

A grab sample from the adit assayed 4.55 grams per tonne gold,
35.0 grams per tonne silver and 5.88 per cent copper. A 2.6-metre channel sample from a trench 40 metres to the northeast assayed 1.20 grams per tonne gold, 8.5 grams per tonne silver and 2.47 per cent copper (Assessment Report 14189).

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FIELD CHECK: N DATE CODED: 1986/07/21 CODED BY: LDJ REVISED BY: LLD DATE REVISED: 1989/03/07 FIELD CHECK: N

MINFILE NUMBER: 103B 042

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 043

NATIONAL MINERAL INVENTORY: 103B6 Cu15

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5793017

EASTING: 352705

Burnaby Island Plutonic Suite

REPORT: RGEN0100

103

NAME(S): MAPLE LEAF, COLLISON BAY, BLACK PRINCE, MINE FR., KENORA, OFFICE FR., SHAMROCK, GORDON

Underground MINING DIVISION: Skeena

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E

BC MAP:

LATITUDE: 52 16 04 N LONGITUDE: 131 09 31 W Metres

ELEVATION: 110 Metre: LOCATION ACCURACY: Within 500M

COMMENTS: Middle adit, Map 2 (Assessment Report 4668). Located approximately 800 metres south of Collison Bay. Note: Assessment Report 14189 refers to this showing as the Meal Ticket.

Gold COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Magnetite Pyrrhotite Pyrite Chalcopyrite ASSOCIATED: Garnet Calcite Amphibole Augite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Massive

CLASSIFICATION: Skarn TYPE: K01 Replacement Industrial Min. Cu skarn

DIMENSION: 250 Х 4 Metres STRIKE/DIP: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen

Triassic-Jurassic Kunga Undefined Formation Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Greenstone Basalt

Skarn Limestone Diorite

Quartz Monzonite

HOSTROCK COMMENTS: Age dates from R.G. Anderson, Geological Survey of Canada, Personal

Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADF: Greenschist Regional

Post-mineralization Hornfels

INVENTORY

ORE ZONE: ADIT REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1984

SAMPLE TYPE: Chip **COMMODITY GRADE** 

Silver 14.7000 Grams per tonne Gold 0.7000 Grams per tonne Copper 1.4000 Per cent

COMMENTS: 2-metre chip sample from the middle of the adit.

REFERENCE: Assessment Report 14189.

CAPSULE GEOLOGY

Discovered in 1906, the Maple Leaf group is located between sea level and 152 metres elevation at the mouth of Collison Bay.

In 1908 owners J.H. Gordon and associates bonded the property to the Bellingham Copper Company of Bellingham, Washington, and some work was done under the agreement. Collision Bay Mining Company, Limited, was incorporated in January 1909 to acquire the property comprising 5 claims, the Black Prince, Mine Fraction, Kenora, Office

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Fraction, and a half interest in the Shamrock claim. The workings in 1909 included an upper adit (Gordon Tunnel), at the 152-metre  $\,$ elevation, which was 5 metres in length; the No. 1 adit, at an elevation of 107 metres, which comprised a 30-metre cross-cut from which a 30-metre drift and 24-metre winze were driven; and a lower adit, 15-metres in length, which did not reach the mineralization. The mine closed in November 1909.

In 1973 Barrel Resources Ltd. held 40 claims in the Itsa and CU groups, covering the southern and western shores of Collison Bay and including several old properties. Work done in the area included: linecutting and magnetometer survey, 7.4 kilometres; electromagnetic survey, 4.6 kilometres; geochemical soil survey, 97 samples taken on a 30 by 61-metre grid spacing.
Falconbridge Limited sampled on the property in 1985.

Basalts from the Vancouver Group, Upper Triassic Karmutsen Formation are conformably overlain by limestones of the Jurassic to Triassic Kunga Group. Diorites of the Collison Bay Stock, part of the Middle to Late Jurassic Burnaby Island Plutonic Suite, lie to the east.

A vein-like north trending zone, variably replaced by magnetite, pyrrhotite, pyrite and chalcopyrite, occurs within metasomatically altered Karmutsen greenstones. A 2-metre chip sample from the middle adit returned 1.4 per cent copper, 14.7 grams per tonne silver and adit returned 1.4 per cent copper, 14.7 grams per comme silvel and 0.7 gram per tonne gold (Assessment Report 14189). The vein strikes intermittently for about 250 metres and is up to 4 metres wide.

Grab sampling from the upper adit returned values such as 10.6 grams per tonne of gold, 13.5 grams per tonne of silver and 1.84 per

cent copper. Estimate of reserves of the dump material is 1600 tonnes with an average grade of 1.22 grams per tonne gold (Assessment Report 14189).

#### **BIBLIOGRAPHY**

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DATE CODED: 1986/07/18 DATE REVISED: 1989/03/07 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 044 NATIONAL MINERAL INVENTORY: 103B6 Cu16

NAME(S): WIRELESS, TELEPHONE, CU

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 16 49 N NORTHING: 5794404 LONGITUDE: 131 09 26 W EASTING: 352841

**ELEVATION: 1** Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adits, Map 2 (Assessment Report 4668). Located on the northwest shore of Collison Bay.

COMMODITIES: Copper Gold Silver

**Bornite** 

MINERALS
SIGNIFICANT: Chalcopyrite
ALTERATION TYPE: Skarn
Skarn
Linknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Concordant Disseminated

CLASSIFICATION: Replacement TYPE: K01 Cu sk Skarn

Cu skarn SHAPE: Tabular

STRIKE/DIP: 025/50N DIMENSION: Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Vancouver **FORMATION** IGNEOUS/METAMORPHIC/OTHER Karmutsen

Upper Triassic

Jurassic Burnaby Island Plutonic Suite

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Basalt

Limestone Skarn Diorite

Collision Bay Stock is part of Burnaby Island Plutonic Suite (GSC P HOSTROCK COMMENTS:

88-1E,pp. 213-216). Age date: R.G. Anderson GSC, Pers.Comm., Mar.1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Hornfels Regional

INVENTORY

REPORT ON: N ORE ZONE: ADIT

> CATEGORY: Assay/analysis SAMPLE TYPE: Chip YEAR: 1984

COMMODITY **GRADE** 

Silver 41.8000 Grams per tonne Gold 1.0000 Grams per tonne Copper 2.0000 Per cent

COMMENTS: A 3 metre chip sample from the adit. REFERENCE: Assessment Report 14189.

**CAPSULE GEOLOGY** 

The showing, discovered by the Daykin brothers, in 1906, is located on the western shore of Collison Bay.

In 1910, the Wireless and Telephone claims were owned by Daykin and Metcalfe. In 1911 a 15-metre crosscut adit was driven at sea-level to the vein. In 1973 Barrel Resources Ltd. held 40 claims and Metcalfe. in the Itsa and CU groups, covering the southern and western shores of Collison Bay and including several old properties. Work done over

the area included linecutting and magnetometer survey, 1.4kilometres; electromagnetic survey, 0.8 kilometre; geochemical soil survey of 97 samples taken on a 30 by 61-metre grid spacing.

The area is underlain by Vancouver Group, Upper Triassic

Karmutsen Formation consisting predominantly of basalt and interlava

Diorite of the Collison Bay Stock, part of the Middle to

MINFILE NUMBER: 103B 044

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Late Jurassic Burnaby Island Plutonic Suite, lies to the east of the showing. Disseminated chalcopyrite and bornite occur as a bedded replacement of a thin interlava limestone. The bed strikes 025 degrees and dips 045 to 050 degrees northwest and is up to 1.2 metres thick. A 3-metre chip sample from the adit assayed 2.0 per cent copper, 41.8 grams per tonne silver and 1.0 gram per tonne gold

(Assessment Report 14189).

Between 1916 and 1917 approximately 15 tonnes of ore was shipped from this property. From this ore 361 kilograms of copper with 435 grams of gold and 374 grams of silver were recovered.

#### **BIBLIOGRAPHY**

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FIELD CHECK: N DATE CODED: 1986/07/21 DATE REVISED: 1989/03/07 CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103B 044

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 045

NATIONAL MINERAL INVENTORY: 103B6 Cu17

NAME(S): **OCEANIC**, CU

STATUS: Past Producer REGIONS: British Columbia, Queen Charlotte Islands

Underground

MINING DIVISION: Skeena

NTS MAP: 103B06E

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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BC MAP: LATITUDE: 52 16 54 N

NORTHING: 5794556 EASTING: 352940

Burnaby Island Plutonic Suite

LONGITUDE: 131 09 21 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Map 2 (Assessment Report 4668). Located on the northwest shore

of Collison Bay.

COMMODITIES: Copper Silver

**Bornite** 

MINERALS
SIGNIFICANT: Chalcopyrite
ALTERATION TYPE: Skarn
UNATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Replacement

Skarn TYPE: K01 Cu skarn

HOST ROCK

DOMINANT HOSTROCK: Volcanic

GROUP Vancouver STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Karmutsen

Upper Triassic Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Basalt

Limestone Skarn Diorite

HOSTROCK COMMENTS: Collision Bay Stock is part of Burnaby Island Plutonic Suite (GSC P

89-1H,pp.105-112). Age date: R.G. Anderson GSC, Pers.Comm., Mar. 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Hornfels

Post-mineralization

CAPSULE GEOLOGY

The showing, discovered in 1906 by the Daykin brothers, is located on the west shore of Collison Bay below sea level, and may only be worked at low tide.

The property was worked on by owner John Lawson and Alex Smith in 1913. Some ore was mined and sacked for shipment to the smelters. In the same year the property was surveyed preparatory to obtaining a Crown grant.

Barrel Resources Ltd. in 1973 held 40 claims in the Itsa and CU groups, covering the southern and western shores of Collison Bay and including several old properties.

Work done over the area included linecutting and magnetometer survey, 74 kilometres; electromagnetic survey, 4.6 kilometres; geochemical soil survey, 97 samples taken at 30 by 61-metre grid spacing.

The area is underlain by Vancouver Group, Upper Triassic Karmutsen Formation consisting of basalt and interlava limestones. Diorite of the Collison Bay Stock, part of the Middle to Late Jurassic Burnaby Island Plutonic Suite, lies to the east of the occurrence.

Mineralization, consisting of chalcopyrite and minor bornite, occurs in altered limestone and parts of the bordering intrusive.

In 1913, about 14 tonnes of ore was shipped from the property. From this ore, 534 kilograms of copper with 218 grams of silver were recovered.

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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EMPR ASS RPT 4668, 14189, 14818
EMPR BC METAL MM00778
EMPR BULL \*54, p. 213
EMPR EXPL 1985-C362; 1986-C418
EMPR GEM 1973-482
EMPR JUNEY 2-207

EMPR GEM 1973-482
EMPR INDEX 3-207
GSC MAP 1385A
GSC P 88-1E, pp. 213-216,\*221-227; 89-1H, pp. 95-104,\*105-112;
90-10, pp. 59-87; 91-1A, pp. 383-391
GSC SUM RPT \*1909, p. 75
MIN REV March/April 1988, pp. 19-24

CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N DATE CODED: 1986/07/21 DATE REVISED: 1989/03/07

MINFILE NUMBER: 103B 045

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 046 NATIONAL MINERAL INVENTORY: 103B6 Fe13

NAME(S): PLUNGER, IVAN, HILL

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 15 34 N LONGITUDE: 131 11 26 W ELEVATION: 230 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located 1.5 kilometres east of the southeast end of Huston Inlet.

COMMODITIES: Iron Copper Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite ALTERATION: Garnet Chalcopyrite Pyrite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Concordant

CLASSIFICATION: Skarn TYPE: K03 Replacement **Epigenetic** Industrial Min. Fe skarn K01 Cu skarn

SHAPE: Irregular

MODIFIER: Sheared DIMENSION: 150 x 60 STRIKE/DIP:

Metres

COMMENTS: Mineralized area of scattered magnetite bodies.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Vancouver Upper Triassic Karmutsen

Burnaby Island Plutonic Suite Júrassic

ISOTOPIC AGE: 168 +4/- 1 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Magnetite Skarn Skarn Limestone Diorite

Garnet Magnetite Skarn

HOSTROCK COMMENTS: Age date: GSC Paper 90-10, page 63, Figure 2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Pre-mineralization GRADF: Greenschist Regional

Syn-mineralization Hornfels

Post-mineralization

CAPSULE GEOLOGY

This property is located on the southeast coast of Moresby Island about 0.3 kilometre east of the head of Huston Inlet between 91 and 259 metres elevation. In 1968 the property was held as the Plunger Nos. 1-4 by The Granby Mining Company Limited and is part of a large group held by Granby and Jedway Iron Ore Limited (see Jessie, 103B 026).

Apparently the showings were originally known as the Ivan Group which was discovered in 1908. The group consisted of three claims held by Messrs. I. Thompson, W. Mckinnon and A. Sivart. They worked the group until 1914, driving 21 metres of adit and doing surface work.

In 1962, Jedway Iron Ore Limited carried out 46 metres of packsack drilling on the property.

A 150 by 8-metre skarn with magnetite, pyrite and chalcopyrite occurs as a replacement of a northwest-trending shear zone in metasomatically altered greenstone of the Vancouver Group, Upper Triassic Karmutsen Formation near the contact with diorite of the Burnaby Island Plutonic Suite. Post-mineralization rhyolite and basalt dikes and minor limestone occur in the area.

About 100 metres north is a 15 by 9-metre magnetite garnet skarn.

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5792156 EASTING: 350497

TREND/PLUNGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1908-60; 1909-71; 1910-84; 1911-76; 1912-110; 1913-101,104; 1914-162

EMPR ASS RPT 9702 EMPR BULL \*54, p. 214, 220 EMPR EXPL 1981-358

GSC EC GEOL Series 3, Vol. 1, 1926, pp. 42,43

GSC MAP 1385A GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 91-1A, pp. 383-391 MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/18 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 046

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 047

NATIONAL MINERAL INVENTORY:

NAME(S): CARNATION, ROY'S SHOWING

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 16 54 N LONGITUDE: 131 11 11 W ELEVATION: 160 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 1K3 (McDougall, 1956) Roy's Showing, Figure 5A (Assessment Report 14818. Located about 1.5 kilometres southwest of

Íkeda Cove.

COMMODITIES: Copper

Silver

Gold

Magnetite

Iron

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5794618

EASTING: 350856

IGNEOUS/METAMORPHIC/OTHER

Burnaby Island Plutonic Suite

REPORT: RGEN0100

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**MINERALS** 

**DEPOSIT** 

SIGNIFICANT: Chalcopyrite ALTERATION: Chlorite
ALTERATION TYPE: Skarn

Epidote

Pyrrhotite Pyrite **Epidote** 

Magnetite

**FORMATION** 

Undefined Formation

Karmutsen

Chloritic

MINERALIZATION AGE: Unknown

CHARACTER: Massive

CLASSIFICATION: Skarn TYPE: K01 Cu skarn Replacement

Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE

Upper Triassic Triassic-Jurassic GROUP Vancouver

Jurassic

Kunga

ISOTOPIC AGE: 164 +/- 3 Ma

DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Porphyritic Andesite Massive Magnetite

Skarn Limestone Greenstone Basalt Diorite Sill

HOSTROCK COMMENTS:

Diorite sills related to Jurassic Burnaby Island Plutonic Suite (GSC

P 88-1E, pp. 213-216). Age date: R.G. Anderson, Pers.Comm., Mar., 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell METAMORPHIC TYPE: Contact

Regional

RELATIONSHIP: Svn-mineralization

GRADE: Greenschist

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

Hornfels

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

YEAR: 1985

Post-mineralization

CATEGORY: COMMODITY

Assay/analysis SAMPLE TYPE: Drill Core

**GRADE** 31.3000

Silver Gold

3.3000 0.5000 Grams per tonne Grams per tonne Per cent

Copper COMMENTS: 30 centimetre drill hole section.

REFERENCE: Assessment Report 14818.

CAPSULE GEOLOGY

Vancouver Group, Upper Triassic Karmutsen Formation consisting predominantly of basalt is overlain by limestone of the Jurassic to Triassic Kunga Group. The rocks are intruded by diorite sills

related to the Middle to Late Jurassic Burnaby Island Plutonic Suite. A north trending, 3-metre long, 1-metre wide zone of massive

magnetite with chalcopyrite, pyrite and pyrrhotite occurs in chlorite and epidote altered porphyritic andesite. Assays of 12 to 20 per cent copper, 53 grams per tonne silver and 8.9 grams per tonne gold

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

occur across a narrow width. A drill hole by Falconbridge Limited intersected a 30-centimetre wide zone of massive sulphides and assayed 3.3 grams per tonne gold, 31.3 grams per tonne silver and 0.5 per cent copper (Assessment Report 14818).

#### **BIBLIOGRAPHY**

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DATE CODED: 1986/07/22 DATE REVISED: 1989/03/09 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 047

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 048

NATIONAL MINERAL INVENTORY: 103B3 Cu3

PAGE:

REPORT: RGEN0100

113

NAME(S): LOUSCOONE

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B03W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 5787270 EASTING: 343512

LATITUDE: 52 12 49 N
LONGITUDE: 131 17 26 W
ELEVATION: 200 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 34 (Bulletin 54). Located west of Louscoone Inlet.

COMMODITIES: Copper

**MINERALS** 

Cuprite Tetrahedrite

SIGNIFICANT: Copper MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Epigenetic TYPE: D03 Volcai

Volcanic redbed Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Upper Triassic GROUP Vancouver IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Karmutsen

LITHOLOGY: Basalt

Basaltic Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The Louscoone showing, discovered in 1959, is located west of the north end of Louscoone Inlet.

Native copper, cuprite and tetrahedrite are reported to occur in basaltic rocks of the Upper Triassic, Vancouver Group, Karmutsen

Formation.

**BIBLIOGRAPHY** 

EMPR BULL 54, p. 220

GSC MAP 1385A

GSC P 88-1E, pp. 221-227; 89-1H; 90-10; 93-1E, pp. 1-8

DATE CODED: 1986/06/26 DATE REVISED: 1989/03/03 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 049

NATIONAL MINERAL INVENTORY: 103B3 Cu11

MINING DIVISION: Skeena

NORTHING: 5779524

EASTING: 359530

PAGE:

REPORT: RGEN0100

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NAME(S): **SAKAI** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B03E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 52 08 54 N LONGITUDE: 131 03 11 W

ELEVATION: 1 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54). Located east of Rose Harbour on

Moore Head near the eastern point of Kunghit Island.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Calcite ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated
CLASSIFICATION: Igneous-contact
TYPE: T MISCELLA Breccia Epigenetic

MISCELLANEOUS

SHAPE: Irregular MODIFIER: Fractured

DIMENSION: 450 x 45 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: The zone is sheared and has a near vertical dip and strikes in a north

direction.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Vancouver Karmutsen

Tertiary Kano Plutonic Suite

ISOTOPIC AGE: 46 +/- 1 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Brecciated Volcanic

**Brecciated Sediment/Sedimentary** 

Breccia Limestone Basalt

HOSTROCK COMMENTS: Age date from R.G. Anderson Geological Survey of Canada, Personal

Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

RELATIONSHIP: Syn-mineralization METAMORPHIC TYPE: Contact GRADF: Greenschist Regional

Post-mineralization Hornfels

**CAPSULE GEOLOGY** 

The property is situated on Moore Head near the eastern point of Kunghit Island.

The showings, discovered in 1910, were owned in 1913 by  ${\tt J.}$ 

Uniaka. Work included a 15-metre open cut across the fracture at the south end of the claim.

A mineralized zone, 450 by 45 metres, occurs along a north striking fractured contact between basalt and limestone of the Vancouver Group, Upper Triassic Karmutsen Formation. Bornite is disseminated within the calcite, cementing the volcanic and

sediment brecciated fragments.

A post tectonic pluton occurs south of the showing. intrusive is part of the Tertiary Kano Plutonic Suite.

**BIBLIOGRAPHY** 

EMPR AR \*1913-102 EMPR BULL 54, p. 220

GSC MAP 1385A

GSC P 88-1E, pp. 213-216,\*221-227; 89-1H, pp. 95-112; 90-10, pp.

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/06/26 DATE REVISED: 1989/03/03 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103B 049

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 050

NATIONAL MINERAL INVENTORY: 103B3 Cu2

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5777119 EASTING: 362602

IGNEOUS/METAMORPHIC/OTHER

Kano Plutonic Suite

REPORT: RGEN0100

116

NAME(S): **COPPER COIN** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B03E BC MAP:

LATITUDE: 52 07 39 N LONGITUDE: 131 00 26 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54). Located on High Island, which is

just northeast of Kunghit Island.

COMMODITIES: Copper

MINERALS
SIGNIFICANT: Chalcopyrite **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Replacement Epigenetic

MISCELLANEOUS TYPE: T

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Upper Triassic GROUP Vancouver Upper Triassic

Tertiary

, ISOTOPIC AGE: 46 +/- 1 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Basalt

Limestone

HOSTROCK COMMENTS: Age date is from R.G. Anderson Geological Survey of Canada, Personal

Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**FORMATION** 

Karmutsen

TERRANE: Wrangell METAMORPHIC TYPE: Contact

Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist

Post-mineralization Hornfels

CAPSULE GEOLOGY

The showing is located at sea level on the east side of High Island, just to the northeast of Kunghit Island. The property was owned by J. Uniaka in 1913; no exploration work was reported.

In 1931 some stripping and open cutting was reported to have

been carried out.

High Island is underlain by basalts and interlava limestone of the Upper Triassic Vancouver Group, Karmutsen Formation. West of the island, is a post-tectonic pluton which is part of the Tertiary Kano Plutonic Suite.

An exposure of 60 centimetres of chalcopyrite occurs in a replacement zone at the limestone/volcanic contact. Some disseminated pyrite and chalcopyrite occurs in the basic rocks.

**BIBLIOGRAPHY** 

EMPR AR \*1913-102

EMPR BULL 54, p. 220 GSC MAP 1385A

GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp.

DATE CODED: 1986/06/26 DATE REVISED: 1989/03/05

CODED BY: LDJ REVISED BY: LLD

FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 051

NATIONAL MINERAL INVENTORY: 103B3 Fe1

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

117

NAME(S): TREAT BAY

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B03E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 52 04 09 N LONGITUDE: 131 01 36 W ELEVATION: 0001 Metres NORTHING: 5770669 EASTING: 361090

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54). Located at sea level within Treat

Bay on Kunghit Island.

COMMODITIES: Iron Copper Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite Pyrrhotite Malachite

ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Skarn TYPE: K03 Fe s Massive Disseminated

Industrial Min. Replacement Epigenetic

Fe skarn

SHAPE: Irregular

TERRANE: Wrangell

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Upper Triassic GROUP Vancouver **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Karmutsen Upper Triassic Kunga Sadler

LITHOLOGY: Basalt

Limestone Skarn

**GEOLOGICAL SETTING** 

**CAPSULE GEOLOGY** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

The showing is located at sea level at the north end of

Treat Bay on Kunghit Island. It has been staked several times.

An irregular metasomatic skarn body occurs at the contact between basalts of the Upper Triassic Vancouver Group, Karmutsen Formation and limestone of the Upper Triassic Sadler Formation (Kunga Group)

Mineralization consists of massive and disseminated magnetite,

pyrite, pyrrhotite, malachite and chalcopyrite.

**BIBLIOGRAPHY** 

EMPR BULL 54, p. 220

GSC MAP 1385A

GSC P 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10, pp. 163-172; 93-1E, pp. 1-8
MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/06/26 CODED BY: LDJ FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/03/03 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 052

NATIONAL MINERAL INVENTORY: 103B6 Cu10

NAME(S): **FLO**, SWAN

MINING DIVISION: Skeena

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

118

NTS MAP: 103B06W BC MAP:

NORTHING: 5805192 EASTING: 343890

TREND/PLUNGE:

Burnaby Island Plutonic Suite

LATITUDE: 52 22 29 N LONGITUDE: 131 17 36 W ELEVATION: 45 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 34 (Bulletin 54). Located on the southern shore of Poole Inlet on Burnaby Island.

COMMODITIES: Copper Iron Magnetite

Magnetite

MINERALS
SIGNIFICANT: Chalcopyrite
ALTERATION TYPE: Skarn
TATION AGE: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive Disseminated

CLASSIFICATION: Skarn TYPE: K03 Replacement

Industrial Min. Fe skarn K01 Cu skarn STRIKE/DIP: DIMENSION: 40 x 30 Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Kunga Undefined Formation

Undefined Group Lower Cretaceous Longarm

Jurassic ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Limestone

Siltstone Skarn Greywacke Monzonite

HOSTROCK COMMENTS: Burnaby Island Plutonic Suite rocks intrude Kunga limestones. Age

date: R.G. Anderson, GSC, Pers.Comm., Mar., 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist

Post-mineralization Hornfels

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1964

SAMPLE TYPE: Drill Core

COMMODITY **GRADE** 

Copper Per cent 1.0000 Iron 60.8000 Per cent

COMMENTS: Values from diamond drilling range from 60.8 to 69.6 per cent

iron and 1.0 to 4.0 per cent copper. REFERENCE: EMPR Annual Report 1964, page 46; NMI card 103B6 Cu10.

**CAPSULE GEOLOGY** 

The showings are situated less than 61 metres from tidewater at the east entrance to Poole Inlet on Burnaby Island.

The Flo group of 24 recorded claims was held in 1964 by Merrican

International Mines Ltd. The company completed 152 metres of diamond

drilling in the vicinity

The area is underlain predominantly by massive grey limestone and black, thin bedded limestone of the Upper Triassic Sadler and Peril Formations (Kunga Group) and lithic siltstone and greywacke of the Lower Cretaceous Longarm Formation. A monzonitic intrusive of the Middle to Late Jurassic Burnaby Island Plutonic Suite occurs east

of the showing.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

A magnetite replacement zone, 40 by 30 metres, occurs in Kunga limestone near a major north trending fault. Assays on four samples from diamond drilling in 1964, ranged from 60.80 per cent to 69.60 per cent iron (National Mineral Inventory Card 103B6 Cul0).

About 180 metres east of the magnetite zone, chalcopyrite outcrops in the limestone as two occurrences, 60 metres apart, with lengths of 9 and 22 metres, respectively. Widths range from 3 to 4.5 metres, with assays showing 4 per cent copper and 1 per cent copper (Minister of Mines, Annual Report 1964, page 46).

#### **BIBLIOGRAPHY**

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EMPR BULL \*54, p. 214
EMPR EXPL 1980-364
EMPR PF (Selnes, W.E., (1963): Burnaby Island Iron Groups for
 Merrican International Mines Ltd., May 28, 1963, refer to Mac 103B 019)
EMR MP CORPFILE (Merrican International Industries Ltd.)
GSC MAP 1385A
GSC P 86-20; 88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112; 90-10,
 pp. 163-172; 91-1A, pp. 383-391
MIN REV March/April 1988, pp. 19-24

DATE CODED: 1986/07/07 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/03/06 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 052

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 053

NATIONAL MINERAL INVENTORY: 103B6 Fe14

Industrial Min.

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5791177 EASTING: 352175

Burnaby Island Plutonic Suite

REPORT: RGEN0100

120

NAME(S): CARPENTER BAY, CAR, PEERLESS, PRINCESS

STATUS: Showing Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B06E

BC MAP:

LATITUDE: 52 15 04 N LONGITUDE: 131 09 56 W ELEVATION: 450 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 34 (Bulletin 54). Located on a ridge north of

Carpenter Bay.

COMMODITIES: Iron Magnetite Copper

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Skarn TYPE: T Replacement **Epigenetic** 

MISCELLANEOUS STRIKE/DIP: TREND/PLUNGE: Metres

DIMENSION: 14 x 5

**HOST ROCK** DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Vancouver Karmutsen

Triassic-Jurassic Kunga Undefined Formation Jurassic

ISOTOPIC AGE: 168 +4/- 1 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Greenstone Magnetite

Skarn Volcanic Rock Limestone Araillite Intrusive Rock Quartz Monzonite

HOSTROCK COMMENTS: Age date: GSC Paper 90-10, page 63, Figure 2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Greenschist Regional

Post-mineralization Hornfels

**CAPSULE GEOLOGY** 

The Peerless group is situated at an elevation of 488 metres on the north side of a ridge,  $2.4~{\rm kilometres}$  north of Carpenter Bay. In 1908 the owners, the Young Bros., developed a number of adits on the

property.

A magnetite lens 13.7 by 5.5 metres, with lesser chalcopyrite occurs near the contact volcanics of the Vancouver Group, Upper Triassic Karmutsen Formation and quartz monzonites of the Burnaby Island Plutonic Suite. Minor argillite and limestone of the Jurassic to Triassic Kunga Group overlies the volcanic rocks.

**BIBLIOGRAPHY** 

EMPR AR 1908-59 EMPR BULL 54, p. 220

GSC MAP 1385A

GSC P 88-1E, pp. 213-216, \*221-227; 89-1H, pp. 95-104, \*105-112; 90-10, pp. 59-87 GSC SUM RPT \*1909, pp. 75-76 MIN REV Mar./Apr., 1988, pp. 19-24

DATE CODED: 1986/07/07 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 054 NATIONAL MINERAL INVENTORY: 103B6 Cu8

NAME(S): HOPE, HOPE FR., HUSTON

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 15 49 N LONGITUDE: 131 11 36 W

ELEVATION: 60 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Showing, Figure 4 (Assessment Report 9702). Located 1.5 kilometres east of Huston Inlet on the southeast coast of Moresby Island.

COMMODITIES: Copper Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite Pyrrhotite

ASSOCIATED: Ilmenite Quartz

ALTERATION: Garnet
ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Skarn Replacement **Epigenetic** Industrial Min.

K03 Cu skarn Fe skarn

TYPE: K01 ( SHAPE: Regular

STRIKE/DIP: 060/80E x 6 DIMENSION: 25 Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Vancouver Upper Triassic Karmutsen Burnaby Island Plutonic Suite Júrassic

ISOTOPIC AGE: 168 +4/- 1 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Diorite

Magnetite Skarn Massive Magnetite Skarn

Greenstone Volcanic Rock

HOSTROCK COMMENTS: Age Date: GSC Paper 90-10, page 63, Figure 2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Greenschist Syn-mineralization Regional

Post-mineralization Hornfels

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1918

SAMPLE TYPE: Chip

**COMMODITY** Copper 2.7000 Per cent

COMMENTS: 3 metre chip sample.

REFERENCE: Minister of Mines, Annual Report 1918, pages 39-40.

**CAPSULE GEOLOGY** 

The Hope Group, consisting of the Hope and Hope Fraction, is situated one kilometre east of the southeast end of Huston Inlet on the southeast coast of Moresby Island. The showings are found

between 76 and 91 metres above sea level.

The group was staked around 1910 by Hugh McEachern who held it until the late 1920's. Work on the property consisted of a short adit, open-cuts and some stripping. In 1929, the group was owned by A.J. Wild and partners.

Silver Standard Mines Limited drilled a 81-metre packsack hole in February 1960, which intersected 61 metres of magnetite with 2metres containing 0.85 per cent copper.

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5792625 EASTING: 350322

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT
RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The Granby Mining Company Limited held the property in the 1960's as part of a large group of located claims.

The property has an estimated potential of 9,072-18,144 tonnes (BCI 103 B-C - 54).

(BCI 103 B-C - 54).

A skarn body occurs within a diorite stock of the Burnaby Island Plutonic Suite near its contact with Vancouver Group, Upper Triassic Karmutsen Formation volcanics. The massive magnetite skarn contains chalcopyrite, pyrite, pyrrhotite, ilmenite and garnet. It strikes northeast for about 25 metres with a width up to 6 metres. A 3-metre sample assayed 2.7 per cent copper with traces of gold and silver (Minister of Mines, Annual Report 1918, pages 39-40). A second showing occurs several metres to the south along strike. This mineralized skarn is smaller and hosts low copper values.

#### **BIBLIOGRAPHY**

EMPR AR 1913-101; 1914-162; \*1918-39-40,104; 1922-42; 1923-44; 1925-66; \*1926-67; 1928-65; 1929-61

EMPR ASS RPT 8224, \*9702, 13102

EMPR BULL \*54, p. 214

EMPR EXPL 1980-365; 1981-95; 1984-358

GSC EC GEOL Series 3, Vol. 1, 1926, p. 51

GSC MAP 1385A

GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 91-1A, pp. 383-391

MIN REV Mar./Apr., 1988, pp. 19-24

Chevron File

DATE CODED: 1986/07/18 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/03/06 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 054

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 055

NATIONAL MINERAL INVENTORY: 103B3 Cu1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5781413

EASTING: 358348

IGNEOUS/METAMORPHIC/OTHER

Kano Plutonic Suite

REPORT: RGEN0100

123

NAME(S): RASPBERRY COVE, THREE GAMBLERS, N.B.

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

**FORMATION** 

Karmutsen

NTS MAP: 103B03E BC MAP:

LATITUDE: 52 09 54 N

LONGITUDE: 131 04 16 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Beach outcrop, Appendix E (Assessment Report 1245). Located near Forayth Point along the Houston Stewart Channel.

COMMODITIES: Copper

MINERALS
SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

SIT

CHARACTER: Vein

CLASSIFICATION: Porphyry

TYPE: L04

Porphyry Cu ± Mo ± Au Disseminated

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Vancouver

Upper Triassic Tertiary

ISOTOPIC AGE: 46.2 +/- 0.4 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Quartz Monzonite

Porphyry

HOSTROCK COMMENTS:

The Carpenter Bay Pluton is part of the Kano Plutonic Suite. Age date from sample taken at Point Langford(GSC Paper 90-10, p. 67, Table 1).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell

METAMORPHIC TYPE: Contact

Regional

RELATIONSHIP: Syn-mineralization Post-mineralization

GRADE: Greenschist

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

Hornfels

INVENTORY

ORE ZONE: OUTCROP

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis

YFAR: 1963

COMMODITY

**GRADE** Per cent

Copper 7.0800
COMMENTS: Sample taken across 60 centimetres of beach outcrop.

REFERENCE: Assessment Report 1245.

**CAPSULE GEOLOGY** 

The showing is located just above sea level on Houston Stewart Channel, one kilometre west of Point Langford.

The beach outcrop was discovered in 1968. The area is underlain by greenstone of the Upper Triassic

Vancouver Group Karmutsen Formation which is cut by quartz monzonite of the Carpenter Bay pluton, part of the Tertiary Kano Plutonic Suite (Geological Survey of Canada, Paper 90-10, pages 59-87). Copper mineralization occurs in small veins in the rocks. A beach outcrop of a well-mineralized porphyry gave values of 7.08 per cent (across 60 centimetres) and 8.95 per cent (float) copper (Assessment Report

1245).

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EMPR AR 1968-283

EMPR ASS RPT \*1245, 9014

EMPR BULL \*54, p. 220 EMPR EXPL 1980-363-4

EMPR FIELDWORK 1997, 19-1-19-14

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 1385A GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87

MIN REV Mar./Apr., 1988, pp. 19-24

CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N DATE CODED: 1986/07/07 DATE REVISED: 1989/03/03

MINFILE NUMBER: 103B 055

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 056

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5786171 EASTING: 359529

REPORT: RGEN0100

125

NAME(S): CARPENTER

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B03E BC MAP:

LATITUDE: 52 12 29 N LONGITUDE: 131 03 21 W ELEVATION: 120 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Sample location, Figure 5 (Assessment Report 10002). Located just south of Carpenter Bay.

COMMODITIES: Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite Chalcopyrite Pyrrhotite

ASSOCIATED: Quartz Carbonate Quartz Carbonate

ALTERATION: Clay
ALTERATION TYPE: Argillic Silicific'n Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Epigenetic Igneous-contact

TYPE: H05 E SHAPE: Irregular Epithermal Au-Ag: low sulphidation

Folded

MODIFIER: Sheared DIMENSION: Metres STRIKE/DIP: 160/90E TREND/PLUNGE:

COMMENTS: Shear zone.

**HOST ROCK** DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u>

Triassic-Jurassic Kunga Undefined Formation Tertiary Kano Plutonic Suite

ISOTOPIC AGE: 46 +/- 1 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Feldspar Porphyry Dike Quartz Carbonate Vein

Biotite Hornfels Quartz Monzonite Felsite Dike Andesitic Dike Limy Argillite Argillite Limestone

HOSTROCK COMMENTS: The Langford Point Pluton is part of the Kano plutonic suite. Age

date: R.G. Anderson, GSC, Personal Communication, March, 1989.

GEOLOGICAL SETTING
TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell RELATIONSHIP: Syn-mineralization Post-mineralization METAMORPHIC TYPE: Contact GRADE: Greenschist Regional

Hornfels

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis YFAR: 1982

COMMODITY GRADE

0.7200 Grams per tonne

COMMENTS: 5 metre width, sample taken from a clay rich zone.

REFERENCE: Assessment Report 10021.

CAPSULE GEOLOGY

The area is underlain by the upper part of the Jurassic to Triassic Kunga Group, comprising thin bedded limy argillite, argillite and minor limestone. The sediments are cut by quartz monzonite of the Carpenter Bay Pluton which is part of the Tertiary

Kano Plutonic Suite.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT
RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The Kunga Group is strongly folded and faulted and intruded by north to northwest trending dikes of primarily andesitic composition and lesser felsite composition of the Kano Plutonic Suite (Carpenter Bay Dike Swarm). Extensive zones of biotite hornfels are developed near the quartz monzonite pluton.

Pyrite, arsenopyrite, minor chalcopyrite and pyrrhotite mineralization occurs in shear zones associated with quartz-carbonate veinlets and felsite and feldspar porphyry dikes. The mineralized rocks are soft clay-rich zones. The highest gold values from this zone assayed 0.42 and 0.72 grams per tonne over a width of 5 metres (Assessment Report 10021).

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*10021 EMPR BULL 54 EMPR EXPL 1981-182 EMPR FIELDWORK 1997, 19-1-19-14 GSC MAP 1385A GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112, 117-120; 90-10, pp. 59-87, 465-487

DATE CODED: 1986/07/07 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/03/09 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 056

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 057

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5810063 EASTING: 346313

Burnaby Island Plutonic Suite

REPORT: RGEN0100

127

NAME(S): NFG

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

UTM ZONE: 09 (NAD 83)

NTS MAP: 103B06W BC MAP:

LATITUDE: 52 25 09 N LONGITUDE: 131 15 36 W ELEVATION: 80 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Area of drilling, Map 2 (Assessment Report 2879). Located on Burnaby

COMMODITIES: Iron

MINERALS
SIGNIFICANT: Magnetite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Epigenetic Industrial Min. TYPE: KO3 Fe skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic GROUP Kunga **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Limestone

Monzonite

HOSTROCK COMMENTS: Burnaby Island Plutonic Suite intrudes Kunga Group limestones. Age

date from R.G. Anderson, GSC, Personal Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact

Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist Post-mineralization Hornfels

**CAPSULE GEOLOGY** 

Magnetite occurs in limestone of the Jurassic to Triassic Kunga Group which are cut by the monzonitic Middle to Late Jurassic Burnaby

Island Plutonic Suite to the east.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2879 EMPR BULL 54

EMPR GEM 1971-110

GSC MAP 1385A

GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87, 163-172; 91-1A, pp. 383-391

MIN REV Mar./Apr., 1988, pp. 19-24

DATE CODED: 1986/07/07 CODED BY: LDJ FIELD CHECK: N REVISED BY: JNR DATE REVISED: 1988/11/18 FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 058

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

128

NAME(S): MCECHRAN COVE, POGMOHOM

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B12W BC MAP:

UTM ZONE: 09 (NAD 83) NORTHING: 5843485 EASTING: 310546 LATITUDE: 52 42 29 N

LONGITUDE: 131 48 16 W ELEVATION: 15 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description and Map 1 (Assessment Report 598). Located on the east side of McEchran Cove on Moresby Island.

COMMODITIES: Copper

MINERALS
SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

TYPE: D03 Volcanic redbed Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Upper Triassic GROUP Vancouver **FORMATION** IGNEOUS/METAMORPHIC/OTHER Karmutsen

LITHOLOGY: Amygdaloidal Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

Chalcopyrite occurs within amygdaloidal basalts of the Vancouver

Group, Upper Triassic Karmutsen Formation.

**BIBLIOGRAPHY** 

EMPR AR 1965-245

EMPR ASS RPT \*598, \*10993

EMPR BULL 54 EMPR EXPL 1982-355-6 GSC MAP 278A; 1385A

GSC P 88-1E, pp. 221-227; 89-1H; 90-10, 92-1A, pp. 351-360

DATE CODED: 1986/07/07 DATE REVISED: 1989/03/09 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 059

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5774159 EASTING: 357951

REPORT: RGEN0100

129

NAME(S): KUNGHIT ISLAND

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B03E BC MAP:

LATITUDE: 52 05 59 N

LONGITUDE: 131 04 26 W ELEVATION: 15 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Kunghit Island, limestone band.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite MINERALIZATION AGE: Upper Triassic

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Various fossils

DEPOSIT

CHARACTER: Massive Stratiform Concordant CLASSIFICATION: Sedimentary Syngenetic Industrial Min.

TYPE: R09 DIMENSION: 30 Limestone STRIKE/DIP: 135/40W TREND/PLUNGE: Metres

COMMENTS: Minimum thickness.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Upper Triassic Kunga Sadler

LITHOLOGY: Limestone Argillite

GEOLOGICAL SETTING
TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The lower two members of the Jurassic to Triassic Kunga Group, Sadler and Peril Formations, represent the main limestone resource of the Queen Charlotte Islands, particularly the basal massive grey limestone member (Sadler Formation). Its thickness varies from less

than 30 metres to more than 200 metres.

The Kunga Group consisting of the limestone members and an overlying argillite member, Sandilands Formation, rests conformably

on the Vancouver Group, Upper Triassic Karmutsen Formation.

The Sadler limestone strikes northwest across the centre of Kunghit Island.

**BIBLIOGRAPHY** 

EMPR BULL 54, p. 50, Fig. 5, Sheet A EMPR OF 1992-18, pp. 43-45 GSC MAP 1385A

GSC P \*88-1E, pp. 221-227; 89-1H; 90-10, pp. 163-172; 93-1E, pp.

DATE CODED: 1986/06/24 DATE REVISED: 1989/03/09 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Concordant

Industrial Min.

MINFILE NUMBER: 103B 060

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

MATERIAL DATED: Various fossils

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

UTM ZONE: 09 (NAD 83)

NORTHING: 5848772 EASTING: 326328

REPORT: RGEN0100

130

NAME(S): KUNGA ISLAND

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B13E BC MAP:

LATITUDE: 52 45 39 N

LONGITUDE: 131 34 26 W ELEVATION: 400 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Kunga Island, limestone band.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite MINERALIZATION AGE: Upper Triassic

ISOTOPIC AGE: DATING METHOD: Fossil

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Sedimentary Limestone

STRIKE/DIP: 360/60E Metres

Stratiform

Syngenetic

TYPE: R09 Limestone SHAPE: Regular DIMENSION: 180 COMMENTS: Thickness of bed.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

GROUP Kunga TRATIGRAPHIC AGE

Upper Triassic

LITHOLOGY: Limestone

Greenstone Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

The lower two members of the Jurassic to Triassic Kunga Group, the Sadler and Peril formations, represent the main limestone resource of the Queen Charlotte Islands, particularly the basal Sadler limestone. Its thickness varies from less than 30 metres to more than 200 metres.

**FORMATION** 

Sadler

A bed of massive grey limestone of the Upper Triassic Sadler Formation strikes north across Kunga Island for 3 kilometres and dips 40 to 60 degrees to the east. The bed is bounded to the west by underlying volcanics of the Upper Triassic Karmutsen Formation and to the east by thinnly bedded black limestone of the overlying Upper Triassic Peril Formation. On the north shore of the island the bed is 180 metres thick, where it is intercalated with a mafic flow or sill 23 metres thick.

A chip sample taken across a stratigraphic thickness of 152 metres at the south shore of Kunga Island assayed 53.2 per cent CaO, 0.11 per cent MgO and 42.03 per cent loss on ignition (EMPR Open 1992-18, page 45)

**BIBLIOGRAPHY** 

EMPR BULL 54, pp. 50,51,57,175, Fig.5, Sheet B EMPR OF 1992-18, pp. 43-45 EMPR PF (Assays and Cross Sections by Sutherland-Brown, 1959)

GSC MAP 1385A

GSC P 88-1E, pp. 221-227; 90-10, pp. 163-172; 92-1A, pp. 351-360

DATE CODED: 1986/06/24 CODED BY: FIELD CHECK: N REVISED BY: PSF DATE REVISED: 1999/09/05 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 061

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5865239 EASTING: 324300

REPORT: RGEN0100

131

NAME(S): LIMESTONE ISLAND

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B13E BC MAP:

LATITUDE: 52 54 29 N

LONGITUDE: 131 36 46 W ELEVATION: 50 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Limestone Island.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Sedimentary Stratiform Concordant Syngenetic Industrial Min.

TYPE: R09 Limestone

SHAPE: Regular DIMENSION: 700 x 700 STRIKE/DIP: 120/15N TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Kunga Sadler

LITHOLOGY: Limestone

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

CAPSULE GEOLOGY

The lower two members of the Jurassic to Triassic Kunga Group, the Sadler and Peril formations, represent the main limestone resource of the Queen Charlotte Islands, particularly the basal Sadler limestone. Its thickness varies from less than 30 metres to more

than 200 metres.

Massive grey limestone of the Upper Triassic Sadler Formation covers the whole of Limestone Island, a small island covering 700 by 700 metres just east of Louise Island. The limestone is extensively folded and faulted in places and the beds strike northwest and dip gently to the northeast. The analysis of three chip samples representing a 60-metre stratigraphic section on the southwest shore of the island averaged 54.45 per cent CaO, 0.06 per cent MgO and 2.37 per cent insolubles (Bulletin 54, p.175).

**BIBLIOGRAPHY** 

EMPR BULL 54, pp. 50,175 EMPR OF 1992-18, pp. 43-45 GSC MAP 1385A

GSC P \*88-1E, pp. 221-227; 89-1H, pp, 7-11; 90-10, pp. 31-50,

163-172

DATE CODED: 1986/06/24 DATE REVISED: 1999/09/05 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 062

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5849298

EASTING: 304391

REPORT: RGEN0100

132

NAME(S): CRESCENT

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 52 45 29 N

LONGITUDE: 131 53 56 W ELEVATION: 200 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Trench one, Figures 10, 14, 20 (Assessment Report 8092). Located west

of Cresent Inlet.

COMMODITIES: Gold Molybdenum Silver 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Arsenopyrite Molybdenite Sphalerite

Magnetite ASSOCIATED: Calcite
ALTERATION: Chlorite
ALTERATION TYPE: Chloritic

Quartz Chlorite Silica Pyrite Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: H05 Epithe **Epigenetic** 

Epithermal Au-Ag: low sulphidation

SHAPE: Irregular

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Yakoun **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Undefined Formation Triassic-Jurassic Kunga Undefined Formation

Tertiary Kano Plutonic Suite

, ISOTOPIC AGE: 38.9 +/- 0.1 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Hornfels

Argillite

Lapilli Tuffaceous Breccia

Rhyolite

Gabbro

Hornblende Feldspar Porphyry

Diabase

Andesite Volcanic

Tuff

HOSTROCK COMMENTS: Age date: GSC Paper 90-10, page 64, figure 3.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact RELATIONSHIP: Svn-mineralization GRADE: Greenschist Regional Post-mineralization Hornfels

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/ar SAMPLE TYPE: Channel Assay/analysis YEAR: 1986

COMMODITY GRADE Gold 66.4000 Grams per tonne

COMMENTS: 4.2 centimetre quartz vein in trench one.

REFERENCE: Assessment Report 14503.

CAPSULE GEOLOGY

The area is underlain by massive grey limestone and thin bedded argillite of the Jurassic/Triassic Kunga Group, which is disconformably overlain by andesites, tuffs and agglomerates of the Middle Jurassic Yakoun Group. These rocks are intruded and metamorphosed by a complex gabbro pluton ranging from coarse mesocratic gabbro and finely crystalline diabase to hornblende feldspar porphyries. These intrusives are thought to be part of the

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Eocene-Oligocene Kano Plutonic Suite. The gabbro engulfs masses of rhyolite and dacite of the Tertiary Masset Formation. Conformably underlying the Kunga sediments are Vancouver Group, Upper Triassic Karmutsen volcanics exposed to the southwest and in an anticlinal core to the east. The volcanics generally have horizontal flow attitudes. Block faults, trending 038, cut the pluton.

Anomalous gold values occur mainly in pyritic rhyolite and gabbro of the Masset Formation. Higher values occur within narrow quartz veins within the volcanics and Kunga argillites. Chloritized and brecciated rhyolite generally contains pyrite, pyrrhotite, arsenopyrite and occasionally molybdenite, sphalerite and magnetite.

Trench one contains 6 small quartz veins, 0.5 to 9 centimetres in width, trending 018 degrees with one trending 007 degrees, and all near vertical dips. The veins are hosted by pyritic intermediate lapilli tuff-breccia of the Yakoun Group and fall along a 150 degree trending fault.

A sample of a 4.2-centimetre quartz vein in trench one returned 66.4 grams per tonne gold and 35 grams per tonne silver. Drilling below trench one intersected 4.7 grams per tonne gold over 29 centimetres in hornfelsed Kunga argillite. Drilling 500 metres to the southwest intersected 4.7 grams per tonne gold over 76 centimetres in a quartz-clinopyroxene dike (Assessment Report 14503).

#### **BIBLIOGRAPHY**

EMPR AR 1908-J62 EMPR ASS RPT \*8092, 8252, 9102, \*14503, \*15437 EMPR BULL 54 EMPR EXPL \*1979-242; 1980-368-369; 1986-C418; 1987-C347 EMPR FIELDWORK 1997, 19-1-19-14 EMPR PF (Richards, G.G., (1988): \*Summary Report and Diamond Drilling Proposal on the Lockeport Prospect, Moresby Island, Queen Charlotte Islands, Feb.19, 1988, for Skygold Resources Ltd. in Prospectus dated Jun.15, 1988) GSC MAP 1385A GSC P 86-20; 88-1E, pp. 213-216, \*221-227; 89-1H, pp. 95-112, 117-120; 90-10, pp. 59-87, 163-172, 305-324, 465-487; 91-1A, pp. 383-391; 92-1A, pp. 351-365

DATE CODED: 1986/07/11 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N DATE REVISED: 1989/03/03 FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 063

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5835048 EASTING: 316804

REPORT: RGEN0100

134

NAME(S): **HIGHGRADE** 

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B12E BC MAP:

LATITUDE: 52 38 04 N LONGITUDE: 131 42 26 W ELEVATION: 180 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill site 83-04, Figure 4 (Assessment Report 11834). Located north

of Bigsby Inlet, near Darwin Sound.

COMMODITIES: Gold Silver Copper

**MINERALS** 

**DEPOSIT** 

SIGNIFICANT: Pyrite Arsenopyrite Pyrrhotite Chalcopyrite

ASSOCIATED: Quartz Calcite

ALTERATION: Ankerite
ALTERATION TYPE: Carbonate Clay Silica **Epidote** Chlorite

Argillic Silicific'n **Propylitic** 

MINERALIZATION AGE: Unknown

CHARACTER: Vein Disseminated Breccia

CLASSIFICATION: Hydrothermal **Epigenetic** 

Au-quartz veins

TYPE: I01 A SHAPE: Irregular MODIFIER: Faulted

DIMENSION: 1500 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Length of mineralized zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Vancouver Karmutsen

LITHOLOGY: Greenstone

Hornfels Graphitic Argillite

Siliceous Ankerite Clay Breccia

Breccia Argillite Chert Tuff

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TECTONIC BELT: Insular TERRANE: Wrangell METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization GRADE: Greenschist Post-mineralization Hornfels

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1983

SAMPLE TYPE: Drill Core COMMODITY **GRADE** 

Silver 5.1000 Grams per tonne Gold 13.5800 Grams per tonne

COMMENTS: Drill hole 83-04, sample over 0.26 metres.

REFERENCE: Assessment Report 11834.

CAPSULE GEOLOGY

The property is underlain by massive and pillowed greenstones with minor interbeds of argillite, tuff and chert of the Vancouver Group, Upper Triassic Karmutsen Formation. The volcanics are cut by northwest trending faults with related ankerite-silica-sulfide mineralization up to 8 metres in width. A set of steeply dipping post-mineral faults, striking 020 to 060 degrees, are typically marked by low sulphide, chlorite alteration and bleaching, with thin up to 2 metre wide bull-quartz and calcite fillings. Visible sulphides consist of very fine acicular arsenopyrite and disseminated equant pyrite.

Gold mineralization occurs in several zones over a 1.5 kilometre

northwest strike length. The mineralized zones are offset by

# GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION**

#### CAPSULE GEOLOGY

northeast trending crossfaults. Better grades of mineralization occur in discontinuous pods, lenses and shoots of unknown orientation. Trenching and drilling indicated grades of mineralized zones ranged 1.7 to 10.6 grams per tonne gold over widths ranging from 0.5 to 8.0 metres. Silver values ranged 0.34 to 5.1 grams per tonne (Assessment Report 11834).

Showing #1 (original discovery) mineralization is developed in silicified or hornfelsed graphitic argillites interbedded within sheared pillowed greenstones. These sediments contain up to 10 per cent bedded syngenetic pyrite, but the higher gold values (0.34 to 1.37 grams per tonne gold) occur in zones of silicification with quartz veinlets and fracture pyrite. The mineralized zone is up to 10 metres wide and the best assay returned 1.37 grams per tonne gold over 1.5 metres.

Showing #2, 650 metres south-southeast of showing #1, is a 5 metre wide zone of variable mineralized and altered greenstones. A 2-metre wide core of silicified ankeritic clay-altered breccia contains 5 per cent disseminated pyrite and 5 per cent disseminated arsenopyrite. The best assay gave 11.6 grams per tonne gold over 1.0 metres.

Three hundred metres further south-southeast, showing #3 occurs over a 30-metre strike length in bleached greenstone fragment breccia. A 5-metre wide zone of strong silicification and ankerite alteration contains up to 3 per cent arsenopyrite and 3 per cent pyrite with minor chalcopyrite. A 6.0-metre sample returned 1.47 grams per tonne gold.

Two hundred metres southwest of showing #1 is Drill Site 83-04, which is part of a second parallel mineralized zone trending northwest, with several left lateral offsets. The best surface assay returned 5.35 grams per tonne gold over 1.5 metres and Drill hole 83-04 returned 13.58 grams per tonne gold and 5.1 grams per tonne silver over 0.26 metre. A drill hole 150 metres to the south gave 8.6 grams per tonne gold and 3.4 grams per tonne silver over 1.85 metres (Assessment Report 11834).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 9696, 10163, 10973, \*11834 EMPR BULL 54 EMPR EXPL 1981-93, 221; 1982-354-355; 1983-492 GCNL \*#218, 1982; #16, \*#174, 1983; #165, 1986 IPDM May/Jun., 1983 GSC MAP 1385A GSC P \*88-1E, pp. 221-227; 89-1H; 92-1A, pp. 351-360

DATE CODED: 1986/07/09 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/03/03 REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 064

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5844300

EASTING: 317528

REPORT: RGEN0100

136

NAME(S): APRIL

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B12E BC MAP:

LATITUDE: 52 43 04 N

LONGITUDE: 131 42 06 W ELEVATION: 86 Metres **ELEVATION: 86** 

LOCATION ACCURACY: Within 500M

COMMENTS: Main zone, Diamond-Drill Hole 80-5, Figure 4 (Assessment Report 13331).

Located between Lyell Point and Skadas Point on Lyell Island.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite

ASSOCIATED: Quartz Calcite Zeolite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown Pyrite Carbonate

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: H03 H0 **Podiform** Disseminated

Hot spring Au-Ag SHAPE: Regular

x 35 DIMENSION: 300 STRIKE/DIP: 155/60E x 30 TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Undefined Group Masset Upper Triassic Vancouver Karmutsen

LITHOLOGY: Rhyolite

Tuff Lapilli Tuff

Tuffaceous Agglomerate

Andesitic Tuff Andesite Flow

Dacite

HOSTROCK COMMENTS: Rennel Sound-Louscoone Inlet fault separates the Oligocene-Eocene

Masset volcanics from the Upper Triassic Karmutsen volcanics.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization GRADE: Zeolite

Post-mineralization Hornfels

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> Assay/analysis YFAR: 1980

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core

COMMODITY **GRADE** 

Gold 19.1300 Grams per tonne

COMMENTS: DD 80-5, 6.1-metre core sample. REFERENCE: Assessment Report 8663.

**CAPSULE GEOLOGY** 

The mineralized zone lies within Masset Formation volcanics of Oligocene-Eocene age, just east of the Beresford fault. This south-southeast fault is a major lineament of the Rennel Sound - Louscoone Inlet fault system and separates the Masset Formation from the volcanics of the Vancouver Group, Upper Triassic Karmutsen Formation

to the west.

The mineralized zone occurs as a lens-shaped structure within pyritic rhyolites, 30 to 40 metres in thickness, trending northnorthwest for about 300 metres and dipping about 60 degrees

northeast. The rhyolite consists mainly of tuffs varying from very fine-grained to lapilli and tuffaceous agglomerates. Hanging wall rocks are almost all andesite tuffs and flows. Footwall rocks include a mixture of rhyolite and dacite, as well as andesite tuffs

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

and flows. Andesite dikes are common and wallrocks show extensive carbonate and zeolite veining.

Gold in excess of 1.0 grams per tonne occurs in 12 of 23 holes drilled. Most intersections ran 2 to 5 grams per tonne gold over 3 to 12 metres. Diamond-drill hole 80-5 intersected 4.36 grams per tonne gold over 27.4 metres, including 19.13 grams per tonne gold over 6.1 metres (Assessment Report 8663).

### **BIBLIOGRAPHY**

EMPR ASS RPT 7820, 8501, \*8663, 10094, 10121, 10132, 10133, 10778, \*13331 EMPR BULL 54 EMPR EXPL 1979-241; \*1980-367; 1981-201,209,212; 1982-354; \*1984-359 EMPR FIELDWORK 1997, 19-1-19-14 GSC MAP 1385A GSC P \*88-1E, pp. 221-227, 269-274; 90-10, pp. 305-324 GCNL #1 (Jan.2), 1985 Placer Dome File

DATE CODED: 1986/07/14 DATE REVISED: 1989/03/09 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103B 064

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 065

NATIONAL MINERAL INVENTORY:

NAME(S): ROSE

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

MINING DIVISION: Skeena

NTS MAP: 103B03E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

138

52 05 34 N 131 06 31 W LATITUDE: LONGITUDE:

NORTHING: 5773455 EASTING: 355550

IGNEOUS/METAMORPHIC/OTHER

San Christoval Plutonic Suite

ELEVATION: 170 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Diamond-drill hole R-81-3, Figure 5, (Assessment Report 9718).

Located on the west side of Kunghit Island, southeast of Arnold Point.

COMMODITIES: Gold

Copper

Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Molybdenite Pyrrhotite

ALTERATION: Sílica Garnet Chlorite

**FORMATION** Sandilands

Karmutsen

COMMENTS: Calc-silicate assemblages pervasive along limy beds near intrusive. ALTERATION TYPE: Silicific'n Argillic Chloritic Argillic

MINERALIZATION AGE: Unknown

Skarn

**DEPOSIT** 

CHARACTER: Vein Disseminated Concordant

CLASSIFICATION: Skarn Igneous-contact

TYPE: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic GROUP Kunga

Upper Triassic Vancouver

Middle Jurassic

ISOTOPIC AGE: 170-175 +/- 5 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Hornfels Argillite

Hornfels Skarn **Black Limestone** Quartz Diorite Diorite

Intermediate Dike

HOSTROCK COMMENTS: Dioritic rocks of the San Christoval Plutonic Suite dated as Middle-

Late Jurassic from GSC current research (Pers. Comm.: R.G. Anderson).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact RELATIONSHIP: Svn-mineralization GRADE: Greenschist Regional

Post-mineralization Hornfels

INVENTORY

REPORT ON: N ORE ZONE: DRILLHOLE

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core Assay/analysis YEAR: 1981

**GRADE** COMMODITY

Gold 0.9000 Grams per tonne

COMMENTS: 3 metre core sample which averages 0.3 grams per tonne gold

over 45.0 centimetres. REFERENCE: Assessment Report 9718.

CAPSULE GEOLOGY

The property is underlain by massive lava flows, pillow lavas and breccias of the Vancouver Group, Upper Triassic Karmutsen  $\,$ 

Formation in fault contact with massive grey limestones, flaggy black limestone and argillite of the Sadler, Peril and Sandilands

Formations, respectively, all of the Jurassic to Triassic Kunga Group. These rocks are intruded by acid to intermediate dikes and dioritequartz diorite plugs related to the Middle Jurassic San Christoval

Plutonic Suite.

A major north-northwest trending and 50 to 60 degree northeast

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

dipping fault, separating the sediments to the east and volcanics to the west, is part of the Rennell - Louscoone fault system.

The Kunga rocks are strongly hornfelsed and locally skarn has developed in an area of dikes and plugs of diorite to quartz diorite. This area of dioritic intrusives is enveloped by a 100 to 300 metre wide halo of hard flinty hornfelsed argillites. Pyrite and pyrrhotite are common within the hornfels zone. Within the diorite a few scattered quartz veins contain pyrite, chalcopyrite and molybdenite.

A drill hole intersected anomalous gold values related to intensely recrystallized and altered sediments. A 45-metre  $\,$ intersection averaged 0.3 grams per tonne gold with a high of 0.9 grams per tonne gold over 3.0 metres (Assessment Report 9718).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 8383, 8561, \*9718 EMPR BULL 54 EMPR EXPL \*1980-383; 1981-100 GSC MAP 1385A GSC P 88-1E, pp. \*213-216, \*221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87, 163-172; 93-1E, pp. 1-8
MIN REV Mar./Apr., 1988, pp. 19-24 PERS COMM (Anderson, R.G., Mar., 1989) Chevron File

DATE CODED: 1986/07/08 DATE REVISED: 1999/08/30 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 065

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 066

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5845727 EASTING: 304717

REPORT: RGEN0100

140

 $\mbox{NAME(S): } \begin{tabular}{ll} \begin{$ 

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103B12W

BC MAP:

LATITUDE: 52 43 34 N LONGITUDE: 131 53 31 W ELEVATION: 425 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: No. 1 showing, Figure 7, (Assessment Report 9059). Located southwest of Crescent Inlet.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Arsenopyrite Pyrite ASSOCIATED: Quartz
ALTERATION: Chlorite
ALTERATION TYPE: Chloritic

Silicific'n

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal TYPE: H EPITH Epigenetic

**EPITHERMAL** 

SHAPE: Irregular

F03 Carbonate-hosted disseminated Au-Ag

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

Triassic-Jurassic Upper Triassic Tertiary

**GROUP** Kunga

Vancouver

**FORMATION** 

Sandilands Karmutsen

Kano Plutonic Suite

LITHOLOGY: Limy Argillite Argillite

Limestone Jasperoid Greenstone Rhvolite Dike Dacite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

IGNEOUS/METAMORPHIC/OTHER

RELATIONSHIP: Syn-mineralization Post-mineralization GRADE: Greenschist

Hornfels

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YFAR: 1987

Grams per tonne

CATEGORY: Assa SAMPLE TYPE: Chip COMMODITY

Assay/analysis

**GRADE** 

9.2000

COMMENTS: 1.5-metre sample at No. 1 showing.

Gold

REFERENCE: Assessment Report 17097.

**CAPSULE GEOLOGY** 

Upper Triassic Karmutsen Formation (Vancouver Group) greenstones are in fault contact with Jurassic to Triassic Kunga Group rocks comprised of grey massive and black bedded limestones (Sadler and Peril formations) and thin-bedded limy argillites (Sandilands Formation).

The Kunga rocks are bounded to the west, east and south by major faults trending north, north-northeast and west-northwest, respectively. Karmutsen rocks lie beyond these faults.

Three gold showings occur within Kunga sediments along or within rhyolitic or dacitic dikes and along or close to strong northwest trending faults. The dikes are likely of the Eocene-Oligocene Kano Plutonic Suite (Lyell Island dike swarm). The showings contain up to 20 per cent combined arsenopyrite and pyrite, occurring as

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

disseminations in limy argillites and along fractures associated with minor quartz veins in zones of weak to pervasive silicification.

A 1.5-metre sample at No. 1 showing assayed 9.2 grams per tonne gold. A rock sample from the No. 2 showing, 490 metres north-northwest of the No. 1 showing, returned an assay of 3.91 grams per tonne gold. The No. 3 showing, 300 metres south-southeast of No. 1, is a jasperoid body 10 to 12 metres wide by 80 metres long in grey limestone (Sadler Formation) and contains anomalous gold values in excess of 5 grams per tonne (Assessment Report 17097).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 9059, \*11246, \*17097 EMPR BULL 54 EMPR EXPL 1980-368; 1982-355 EMPR FIELDWORK 1997, 19-1-19-14 EMPR PF (Richards, G.G., (1988): \*Summary Report and Diamond Drilling Proposal on the Lockeport Prospect, Moresby Island, Queen Charlotte Islands, Feb.19, 1988, for Skygold Resources Ltd., in Prospectus dated Jun.15, 1988) GSC MAP 1385A GSC P \*88-1E, pp. 213-216,221-227; 89-1H, pp. 95-112, 117-120; 90-10, pp. 59-87, 163-172, 465-487; 92-1A, pp. 351-360 GCNL #218, 1982

DATE CODED: 1986/07/11 DATE REVISED: 1999/08/31

CODED BY: LDJ REVISED BY: PSF

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

# MINFILE MASTER REPORT

Pyrite

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 067

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5796260

EASTING: 352801

REPORT: RGEN0100

142

NAME(S): WATER LILY (L.93)

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 17 49 N

LONGITUDE: 131 09 31 W **ELEVATION: 1** Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 1K3 (McDougall, 1956). Located on an island in Ikeda

Cove. Most noticeable at low tide.

COMMODITIES: Iron Magnetite Copper

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrrhotite

ASSOCIATED: Garnet Calcite

ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Skarn TYPE: K03 Fe ska Massive

Replacement

Industrial Min. K01 Fe skarn Cu skarn

STRIKE/DIP: TREND/PLUNGE: DIMENSION: 30 x 30 Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Vancouver **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Karmutsen Triassic-Jurassic Kunga Undefined Formation

LITHOLOGY: Andesite Skarn

Magnetite Skarn Basalt Limestone

**GEOLOGICAL SETTING** 

INVENTORY

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1956 SAMPLE TYPE: Drill Core

COMMODITY Iron Per cent

COMMENTS: The sample width is 2.1 metres.

REFERENCE: Property File - Report by J.J. McDougall, 1956.

**CAPSULE GEOLOGY** 

Vancouver Group, Upper Triassic Karmutsen volcanics are overlain conformably by Jurassic to Triassic by Kunga limestones. A skarn contains magnetite and pyrrhotite over a 30 by 30 metre island in Ikeda Cove. A drill hole assayed 44 per cent iron over 2.1 metres (McDougall, 1956). One hundred fifty metres to the north, a 1.2-metre wide, 3-metre long zone of chalcopyrite occurs in

andesite.

**BIBLIOGRAPHY** 

EMPR AR 1913-423

EMPR ASS RPT 14189, 14818

EMPR BULL 54

EMPR EXPL 1986-C418

EMPR PF (McDougall, J.J., (1956): Report on Properties at Ikeda Bay, Queen Charlotte Islands, Jun.6, 1956, p. 17, refer to the Lily

Mine - 103B 028)

GSC MAP 1385A

GSC P \*88-1E, pp. 221-227; 89-1H; 90-10, pp. 163-172; 91A, pp.

383-391

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

MIN REV Mar./Apr., 1988, pp. 19-24

DATE CODED: 1986/07/22 DATE REVISED: 1989/03/09 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103B 067

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 068

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5848077

EASTING: 303966

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

144

NAME(S): COLINEAR CREEK, CRESCENT

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B12W BC MAP:

LATITUDE: 52 44 49 N LONGITUDE: 131 54 16 W

ELEVATION: 120 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map II (Assessment Report 14503). Located west of Crescent

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite

ASSOCIATED: Quartz ALTERATION: Pyrite
ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

TYPE: H05 Epithermal Au-Ag: low sulphidation

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic GROUP Kunga

**FORMATION** Sandilands

Middle Jurassic Yakoun Undefined Formation

LITHOLOGY: Argillite Volcaniclastic

Intermediate Volcanic Mafic Intrusive Basalt

**GEOLOGICAL SETTING** PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TECTONIC BELT: Insular TERRANE: Wrangell METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization GRADE: Greenschist Hornfels

Post-mineralization

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1984 Assay/analysis

**GRADE** COMMODITY

Gold 25,4000 Grams per tonne

COMMENTS: 8-metre sample along a 1 to 2.5-centimetre wide quartz vein.

REFERENCE: Assessment Report 14503.

**CAPSULE GEOLOGY** 

Triassic Kunga Group. These are overlain by the Middle Jurassic Yakoun Group intermediate volcanic and volcaniclastic rocks which are overlain by the Tertiary Masset Formation consisting of felsic to intermediate volcanic rocks and intermediate to mafic intrusive rocks. A major 038 degree trending block fault extends along Colinear Creek. A 2 to 4-centimetre wide quartz vein follows a 055-degree north

trending right lateral fault as indicated by drag folding and offsetting of beds in the argillite of the Upper Triassic-Lower Jurassic Sandilands Formation (Kunga Group). The vein also parallels the bedding at 070 degrees north. A 1 to 2.5 centimetre wide sample taken along the vein for a distance of 8 metres assayed

25.4 grams per tonne gold (Assessment Report 14503).

**BIBLIOGRAPHY** 

EMPR ASS RPT 8092, 8252, 9102, \*14503, \*15437

EMPR BULL 54

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR EXPL 1979-242; 1980-368-369; 1986-C418; 1987-C347

EMPR FIELDWORK 1997, 19-1-19-14

EMPR PF (Richards, G.G., (1988): Summary Report and Diamond Drilling

Proposal on the Lockeport Prospect, Moresby Island, Feb.19, 1988,

for Skygold Resources Ltd., in Prospectus dated Jun.15, 1988, refer

to Locke - 103B 066 or Crescent - 103B 062)

GSC MAP 1385A GSC P \*88-1E, pp. 221-227; 90-10, pp. 163-172; 92-1A, pp. 351-360

CODED BY: LDJ REVISED BY: PSF DATE CODED: 1986/09/18 DATE REVISED: 1999/08/30 FIELD CHECK: N

MINFILE NUMBER: 103B 068

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 069

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5795345

EASTING: 352395

Burnaby Island Plutonic Suite

REPORT: RGEN0100

146

NAME(S): CARNATION CREEK

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 17 19 N

LONGITUDE: 131 09 51 W ELEVATION: 80 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Skarn, Figure 43 (Assessment Report 14818). Located approximately 1

kilometre south of Ikeda Cove.

Magnetite COMMODITIES: Copper Silver Gold Iron

**MINERALS** 

SIGNIFICANT: Pyrite Magnetite Chalcopyrite

ALTERATION: Chlorite ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Skarn Replacement Industrial Min.

TYPE: K03 Fe skarn

SHAPE: Regular

x 2 **DIMENSION:** 5 Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP** STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Vancouver Karmutsen

Upper Triassic

Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Basalt

Massive Magnetite Magnetite Skarn Skarn Greenstone Monzonitic Diorite

Granodiorite

HOSTROCK COMMENTS: Burnaby Island Plutonic Suite intrudes Karmutsen volcanics. Age date

from R.G. Anderson, GSC, Personal Communication, March, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Greenschist Regional

Post-mineralization Hornfels

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> YEAR: 1984 CATEGORY: Assay/analysis

SAMPLE TYPE: **GRADE** COMMODITY

Silver 12.8000 Grams per tonne Gold 0.2500 Grams per tonne 1.2500 Per cent

Copper COMMENTS: Sample of massive magnetite with minor chalcopyrite.

REFERENCE: Assessment Report 14818.

CAPSULE GEOLOGY

Chloritic basalt of the Vancouver Group Upper Triassic Karmutsen Formation is intruded by a monzodiorite to granodiorite stock. These intrusives are part of the Middle to Late Jurassic Burnaby Island Plutonic Suite. A magnetite skarn occurs in the basalt near the intrusive contact and along the trace of the Carnation Creek fault. The skarn measures 5 by 2 metres and contains pyrite veinlets. grab sample of the massive magnetite, plus minor chalcopyrite, assayed 0.25 gram per tonne gold, 12.8 grams per tonne silver and

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

1.25 per cent copper (Assessment Report 14818).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*14818 EMPR BULL 54 EMPR EXPL 1986-C418

GSC MAP 1385A

GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 91-1A, pp. 383-391
MIN REV Mar./Apr., 1988, pp. 19-24

DATE CODED: 1986/11/20 DATE REVISED: 1989/03/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 069

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 070

NATIONAL MINERAL INVENTORY:

NAME(S): COLLISON BAY ADIT

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands Underground

UTM ZONE: 09 (NAD 83)

EASTING: 353617

MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP: LATITUDE: 52 17 09 N

NORTHING: 5794999

PAGE:

REPORT: RGEN0100

148

LONGITUDE: 131 08 46 W ELEVATION: 35 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Figure 5 A (Assessment Report 14818). Located on the point, halfway down the northern side of Collison Bay.

COMMODITIES: Copper Silver Gold Iron

**MINERALS** 

SIGNIFICANT: Magnetite Pyrite Chalcopyrite

ALTERATION: Garnet Hematite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown Oxidation

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Replacement Skarn Industrial Min.

TYPE: K03 Fe skarn

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Vancouver Karmutsen

LITHOLOGY: Basalt

Magnetite Garnet Skarn

Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: SKARN REPORT ON: N

> CATEGORY: YEAR: 1984 Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 7.4000 Grams per tonne Gold 0.0900 Grams per tonne Copper 0.7400 Per cent

COMMENTS: Sample from magnetite-garnet skarn. REFERENCE: Assessment Report 14818.

**CAPSULE GEOLOGY** 

A magnetite-garnet skarn, with minor pyrite and chalcopyrite, occurs in volcanic rocks of the Vancouver Group, Upper Triassic Karmutsen Formation. A grab sample assayed 0.74 per cent copper, 7.4 grams per tonne silver and 0.09 gram per tonne gold (Assessment

Report 14818).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*14818

EMPR BULL 54

EMPR EXPL 1986-C418 GSC MAP 1385A

GSC P 88-1E, pp. 213-216, \*221-227; 89-1H, pp. 95-112; 90-10; 91-1A,

pp. 383-391

MIN REV \*Mar./Apr., 1988, pp. 19-24

DATE CODED: 1986/11/20 DATE REVISED: 1989/03/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIFLD CHECK: N

> MINFILE NUMBER: 103B 070

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 071

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5796583

**EASTING: 352337** 

Burnaby Island Plutonic Suite

REPORT: RGEN0100

149

NAME(S): ARCHIE (CAMP CREEK), ARCHIE, CAMP CREEK

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B06E BC MAP:

LATITUDE: 52 17 59 N LONGITUDE: 131 09 56 W

ELEVATION: 55 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Located on the northern slopes of Ikeda Cove, approximately 2.5

kilometres southwest of Ikeda Point.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrrhotite Pvrite ALTERATION: Epidote Pyrite

COMMENTS: Calc-silicate minerals common.
ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Podiform Disseminated

CLASSIFICATION: Skarn Igneous-contact

TYPE: K01 Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Kunga IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE **FORMATION** 

STRATIGNAL .... Undefined Formation Upper Triassic Vancouver Karmutsen

Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Limestone

Skarn

Calc-silicate Skarn Felsic Sill Volcanic Rock

HOSTROCK COMMENTS: Felsic sills related to Burnaby Island Plutonic Suite intrude Kunga

limestones. Age date: R.G. Anderson GSC, Pers. Comm., Mar., 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

METAMORPHIC TYPE: Contact Regional RELATIONSHIP: Svn-mineralization GRADE: Greenschist Post-mineralization Hornfels

**CAPSULE GEOLOGY** 

The area is predominantly underlain by limestones and argillites of the Jurassic to Triassic Kunga Group. These rocks are intruded by felsic sills related to the Middle to Late Jurassic Burnaby Island Plutonic Suite. Upper Triassic Vancouver Group, Karmutsen volcanics, conformably underlie the Kunga limestones.

Skarns occur near the base of Camp Creek. About 350 metres west of the creek are epidote-pyrite-pyrrhotite skarns, plus ubiquitous calc-silicate minerals and minor chalcopyrite. No anomalous values

of gold or arsenic were reported.

**BIBLIOGRAPHY** 

EMPR ASS RPT 8197, 8714, \*10198, 16225, 19026

EMPR BULL 54

EMPR EXPL 1980-365; 1981-231; 1987-C346

GSC MAP 1385A

GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp.

59-87; 91-1A, pp. 383-391 MIN REV Mar./Apr., 1988, pp. 19-24

DATE CODED: 1988/10/28 CODED BY: FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/03/10 FIELD CHECK: N

> MINFILE NUMBER: 103B 071

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 072

NATIONAL MINERAL INVENTORY:

NAME(S): **ARCHIE** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

MINING DIVISION: Skeena

NTS MAP: 103B06E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

150

LATITUDE: 52 17 59 N

NORTHING: 5796589 EASTING: 352148

LONGITUDE: 131 10 06 W

ELEVATION: 85 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on the northern slopes of Ikeda Cove, approximately 2.8

kilometres southwest of Ikeda Point.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite

ALTERATION: Sílica

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

Silicific'n

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal

TYPE:

Epigenetic Unknown

Igneous-contact

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic <u>GROUP</u>

Kunga

Vančouver

**FORMATION** Sandilands Karmutsen

IGNEOUS/METAMORPHIC/OTHER

Burnaby Island Plutonic Suite

Upper Triassic Jurassic

ISOTOPIC AGE: 164 +/- 3 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Black Argillite

Limestone Felsic Sill Volcanic Rock

HOSTROCK COMMENTS: Felsic sills of Burnaby Island Plutonic Suite intrude Kunga rocks.

Age date from R.G. Anderson, GSC, Personal Communication, Mar., 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

METAMORPHIC TYPE: Contact

RELATIONSHIP: Syn-mineralization Post-mineralization GRADF: Greenschist Hornfels

**CAPSULE GEOLOGY** 

The area is underlain mainly by limestone and argillite of the Jurassic to Triassic Kunga Group. These rocks are intruded by felsic sills related to the Middle to Late Jurassic Burnaby Island Plutonic

Suite. Upper Triassic Vancouver Group, Karmutsen volcanics conformably underlie the Kunga Group limestones.

The argillaceous part of the Kunga Group (Sandilands Formation) is variable silicified and hornfelsed. Pyrite and pyrrhotite occur as disseminations and more rarely as fracture fillings, forming 2 to 5 per cent of rock volume and locally up to 15 per cent. Gold anomalies appear to be associated with sulphide veinlets within

pyritic and silicified argillites.

Regional

**BIBLIOGRAPHY** 

EMPR ASS RPT 8197, 8714, \*10198, 16225, 19026

EMPR BULL 54

EMPR EXPL 1980-365; 1981-231; 1987-C346

GSC MAP 1385A

GSC P 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 163-172; 91-1A, pp. 383-391
MIN REV Mar./Apr., 1988, pp. 19-24

DATE CODED: 1988/10/28 DATE REVISED: 1989/03/10 CODED BY: REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 072

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 073

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5846304

EASTING: 304195

TREND/PLUNGE:

REPORT: RGEN0100

151

NAME(S): LOCKE 2, LOCKPORT, LOCKEPORT

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103B12W BC MAP:

LATITUDE: 52 43 52 N

LONGITUDE: 131 54 00 W ELEVATION: 600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of No. 4 showing on west flank of ridge separating Crescent

and Botany Inlets (Assessment Report 17097, Figure 4).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Arsenopyrite **Pyrite** ASSOCIATED: Quartz ALTERATION: Chlorite ALTERATION TYPE: Chloritic Silica

Silicific'n

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Shear CLASSIFICATION: Epigenetic Vein Disseminated Hydrothermal

STRIKE/DIP: DIMENSION: 150 Metres COMMENTS: Two showings 150 metres apart may represent a single north trending

zone.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Vancouver Upper Triassic Karmutsen

LITHOLOGY: Volcanic

Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis YFAR: 1987

**GRADE COMMODITY** 

5.0000 Grams per tonne

COMMENTS: A 1.8 metre chip sample from No. 5 showing, Sample 6610).

REFERENCE: Assessment Report 17097.

CAPSULE GEOLOGY

Upper Triassic Karmutsen Formation (Vancouver Group) greenstones are in fault contact with Jurassic to Triassic Kunga Group rocks comprised of grey massive and black bedded limestones (Sadler and Peril formations) and thin-bedded limy argillites (Sandilands

Formation).

Two gold showings, about 150 metres apart, occur within sheared, chloritic and partially silicified Karmutsen volcanics. Mineralization consists of disseminated arsenopyrite and pyrite, accompanied by minor quartz veining. The No. 2 showing of occurrence 103B 066 lies about 520 metres to the southeast.

A 0.5-metre chip sample of arsenopyrite-pyrite mineralization

from the northern most of the two showings (No. 4 showing), assayed 5.76 grams per tonne gold (Assessment Report 17097, sample 6661). A second sample consisting of 0.25 metre of quartz vein assayed 25.8 grams per tonne gold (sample 6658). A 1.8-metre chip sample from the southern (No. 5) showing assayed 5.0 grams per tonne gold (sample 6610).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*17097

EMPR BULL 54

MINFILE NUMBER: 103B 073

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 1385A GSC P 88-1E, pp. 221-227; 89-14; 90-10; 92-1A, pp. 351-380

DATE CODED: 1999/08/31 DATE REVISED: 1999/08/31 CODED BY: PSF REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 073

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 074

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5843301 EASTING: 328837

PAGE:

REPORT: RGEN0100

153

NAME(S): LYELL ISLAND BITUMEN 1, POWRIVCO BAY

STATUS: Showing REGIONS: Queen Charlotte Islands

NTS MAP: 103B12E BC MAP:

LATITUDE: 52 42 45 N LONGITUDE: 131 32 02 W ELEVATION: 120 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on northern Lyell Island, 4.2 kilometres northeast of the southwest corner of Powrivco Bay, 350 metres from the coast

(Geological Survey of Canada Paper 92-1A, page 345, Figure 1).

COMMODITIES: Bitumen

**MINERALS** 

SIGNIFICANT: Bitumen ASSOCIATED: Zeolite MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Stockwork CLASSIFICATION: Epigenetic Fossil Fuel Industrial Min.

TYPE: I VEIN, BRECCIA AND STOCKWORK

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

GROUP Yakoun **FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Undefined Formation

LITHOLOGY: Tuff Breccia Pillow Lava

GEOLOGICAL SETTING
TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

Bitumen is found near the northwestern coast of Lyell Island, 4.2 kilometres northeast of Powrivco Bay. The bitumen occurs as brittle, vitreous black globules in a vuggy stockwork of zeolite-lined fractures hosted in aquagene tuff-breccia and pillow lava of the

Middle Jurassic Yakoun Group.

**BIBLIOGRAPHY** 

EMPR BULL 54 GSC MAP 1385A

GSC P 88-1E; 89-1H; 90-10; \*92-1A, pp. 343-350

DATE CODED: 1999/10/30 DATE REVISED: 1999/10/30 FIELD CHECK: N FIELD CHECK: N CODED BY: REVISED BY: PSF

MINFILE NUMBER: 103B 074

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 075

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5837178 EASTING: 329694

PAGE:

REPORT: RGEN0100

154

NAME(S): LYELL ISLAND BITUMEN 2, POWRIVCO BAY

STATUS: Showing REGIONS: Queen Charlotte Islands

NTS MAP: 103B12E BC MAP:

LATITUDE: 52 39 28 N

LONGITUDE: 131 31 05 W ELEVATION: 350 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on central Lyell Island, 3.6 kilometres southeast of Powrivco

Bay (Geological Survey of Canada Paper 92-1A, page 345, Figure 1).

Industrial Min.

COMMODITIES: Bitumen

MINERALS SIGNIFICANT: Bitumen

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

VEIN, BRECCIA AND STOCKWORK TYPE: I

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Tertiary IGNEOUS/METAMORPHIC/OTHER Kano Plutonic Suite **FORMATION** 

LITHOLOGY: Andesite Porphyry

HOSTROCK COMMENTS: Hosted in the Lyell Island plutonic complex of the Kano Plutonic Suite (Geological Survey of Canada Paper 92-1E, pages 117-123).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

CAPSULE GEOLOGY

This bitumen occurrence is exposed in a roadside quarry on central Lyell Island, 3.6 kilometres southeast of Powrivco Bay. The bitumen consists of granular, black material filling open joints in andesite porphyry of the Eocene to Oligocene Lyell Island plutonic complex (Kano Plutonic Suite).

**BIBLIOGRAPHY** 

EMPR BULL 54 GSC MAP 1385A

GSC P 88-1E; 89-1H; 90-10; \*92-1A, pp. 343-350; \*92-1E, pp. 117-123

DATE CODED: 1999/10/30 DATE REVISED: 1999/10/30 CODED BY: PSF REVISED BY: PSF FIFLD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103B 075

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103C 001

NATIONAL MINERAL INVENTORY: 103C16 Au1

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5871019 EASTING: 689463

TREND/PLUNGE:

REPORT: RGEN0100

155

NAME(S): **EARLY BIRD**, GOLD HARBOUR, MCLELLAN'S CLAIM, GOLD STANDARD, ALPHA

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103C16E

BC MAP:

LATITUDE: 52 57 19 N LONGITUDE: 132 10 46 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Lower Adit (Property File - Bulletin 54). Located on the western

shore of Mitchell Inlet.

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Gold Pyrite Chalcopyrite

COMMENTS: Fine free gold.

ASSOCIATED: Quartz Calcite

ALTERATION: Chlorite
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown Silica Pumpellyite Chloritic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Disseminated **Epigenetic** 

TYPE: 101 Au-quartz veins

SHAPE: Irregular MODIFIER: Sheared

DIMENSION: 75 x 60 x 40 Metres STRIKE/DIP: 040/90

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Vancouver Karmutsen

LITHOLOGY: Pillow Lava

Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Greenschist Syn-mineralization

INVENTORY

ORE ZONE: UNDERGROUND WORKINGS REPORT ON: N

> CATEGORY: YEAR: 1968 Assay/analysis

SAMPLE TYPE: Rock COMMODITY Silver

3.4000 Grams per tonne

8.5700 Gold Grams per tonne

COMMENTS: The sample width is 61 centimetres. REFERENCE: Bulletin 54, pages 217, 218.

**CAPSULE GEOLOGY** 

The property, the first lode mine in British Columbia, is located on the south side of Mitchell Inlet in Moore Channel on the west coast of Moresby Island. The showing was first prospected in 1852 by Captain Mitchell for the Hudson's Bay Company. By 1859, Major W. Downie was reported to have recovered between \$5,000 and \$75,000 in gold by trenching. In 1907 the property, owned by J. MCLellan, consisted of 16 claims. In 1907 the property, owned by 3. McLellan, consisted of 16 claims. In 1908 it was bonded to Nuba Mining Company, Limited. Underground work produced 9 tonnes of free milling gold ore that averaged \$60 per ton. The company charter was surrendered in 1912. Owner McLellan continued intermittent work on the property into 1933. The workings at that time included three adits, and an 11-metre raise from the lower adit to the surface. The surface is the surface of the surface is the surface of the surface is the surface of the lower adit, which has a portal just above high sea level, is a 66-metre long drift with an average strike of N35 degrees E. middle adit, connected to the lower adit by a 15-metre raise, comprises an 8-metre crosscut and a 18-metre drift. The upper adit,

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

at an elevation of 18 metres is a 12-metre drift. From the lower adit a winze was sunk for 12 metres from which a 3-metre crosscut and 21-metre drift were driven. An open stope exists from the lower to the upper adit levels.

Gold Harbour Mines\$ Limited, incorporated in 1933, installed an algamating mill which could handle 36 tonnes per day. Initial milling treated an old dump, recovering 4354 grams of gold. From a small open cut the company is reported to have recovered \$179000 in gold. Operations were suspended on December 13, 1933.

gold. Operations were suspended on December 13, 1933. In 1939, D.F. Kidd, lessee, is reported to have made a shipment of 13.6 tonnes of high-grade ore from 4,665 grams of gold were recovered.

Charlotte Resources Ltd. drilled the property in 1981.
The area is underlain by Upper Triassic Vancouver Group
greenstones of the Karmutsen Formation. These rocks have undergone
low grade regional greenschist facies metamorphism and host abundant
chlorite and some pumpellyite.

The deposit occurs in flat lying pillow lava and greenstone of the Upper Triassic Karmutsen Formation. A 60 metre wide fault zone, contains a stringer vein system striking 037 degrees with two main branches striking 045 degrees and 027 degrees, and dipping near vertically. The veins, a few centimetres wide, consist of quartz and calcite with minor pyrite, chalcopyrite and fine free gold. Minor silicification and chloritization of the wallrock occur near the fracture zone.

A 61-centimetre sample near the south end of the open stope in the lower adit assayed 8.57 grams per tonne gold and 3.4 grams per tonne silver (Bulletin 54, pages 217,218).

tonne silver (Bulletin 54, pages 217,218).

Intermittent production has been reported from 1859 to 1939 but records are incomplete. Recovery in 1859 is estimated between 7530 to 112,000 grams of gold based on reported dollar recovery. Recovery in 1908 is estimated at 900 grams of gold. Recorded production from 1913 to 1939 totals 171 tonnes. From this ore 8,739 grams of gold and 1,244 grams of silver were recovered.

#### **BIBLIOGRAPHY**

EMPR AR 1907-58,72; 1908-60; 1909-71,76,77; 1910-84; 1911-77; 1913-104,419; 1914-509; 1915-75,444; 1918-41,42; 1921-38; 1922-40; 1923-42; \*1932-41-44; 1933-36,39,40; 1934-B3; 1939-67

EMPR ASS RPT 9720

EMPR BC METAL MM00727

EMPR BULL \*54, pp. 165,166,217

EMPR EXPL 1981-100

EMPR INDEX 3-194

EMPR F (Jeffrey, W.G. and Perkins, R. (1958): Sketch maps; Starr, C.C. (1934): Report on Early Bird Mine, Gold Harbour, 5pp, sketch map 1" = 200')

EMR MP CORPFILE (Gold Harbour Mines, Limited)

GSC MAP 1385A

GSC MEM 88, p. 174

GSC P 86-20; \*88-1E, pp. 221-227; 89-1H; 90-10

GSC Report of Progress 1878-79, p. 13B; 1887, pp. 17R,143R

DATE CODED: 1986/06/26 DATE REVISED: 1989/02/23 CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103C 001

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103C 002

NATIONAL MINERAL INVENTORY: 103C16 Au2

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5860267 EASTING: 691384

REPORT: RGEN0100

157

 $\begin{array}{ll} \text{NAME(S):} & \underbrace{\textbf{HAIDA GOLD}}_{\text{RUPERT, SWINDLE}}, \text{BLUE MULE, KOOTENAY,} \\ \end{array}$ 

STATUS: Prospect Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103C16E

BC MAP:

LATITUDE: 52 51 29 N LONGITUDE: 132 09 26 W

ELEVATION: 150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill site, Map 1 (Assessment Report 13649). Located 1.2 kilometres

north of the east end of the south arm of Kootenay Inlet.

COMMODITIES: Gold

Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Gold

COMMENTS: Minor free gold. ASSOCIATED: Quartz Calcite ALTERATION: Silica Chlorite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown Chloritic

**DEPOSIT** 

CHARACTER: Stockwork Vein Disseminated

CLASSIFICATION: Hydrothermal **Epigenetic** Au-quartz veins

TYPE: 101 SHAPE: Regular MODIFIER: Faulted

DIMENSION: 310 x 30 x 1 Metres STRIKE/DIP: 090/70S TREND/PLUNGE:

COMMENTS: Main quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Vancouver **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Karmutsen

LITHOLOGY: Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1985

SAMPLE TYPE: Drill Core **GRADE** COMMODITY

Gold 2.0200 Grams per tonne

COMMENTS: Drill hole sample assayed over a length of 0.9 metre. REFERENCE: Assessment Report 13649.

CAPSULE GEOLOGY

The property is located at an elevation of about 150 metres, 1.2 kilometres north of the south arm of Kootenay Inlet on the west side of Moresby Island. The showings were discovered and three

claims staked by Jones, Wiggs, and McRae in 1919.
In 1921 Jones and Larson leased the property for three years. Work on the largest vein consisted of open-cutting and stripping for a length of 183 to 213 metres. In 1922 a sample of several hundred pounds of ore assayed at \$23.60 a ton in gold of which \$14 was recoverable free gold. By 1923 a 10 ton Ross mill, with a capacity of one ton per day, had been installed. In traced to a total length of 2134 metres. In 1926 the main vein was

E.C. Stevens, in 1930, restaked the showings as the 4 claim Rupert group. Open cutting and stripping located additional parallel veins.

Haida Gold Mines, Limited, incorporated in 1933, surveyed the original claims and with additional staking expanded the property to 10 claims. Work done included surface stripping and trenching, crosscutting, and underground drifting on vein C. Detailed sampling in the 85-metre long drift adit (No. 1 adit) showed values varying

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

from 0.69 to 48.7 grams per tonne gold, with an average assay value of 0.214 ounces of gold per ton across a width of 29 inches. In late 1933, C.C. Starr began adit No. 3 at the 66-metre elevation, 88 metres below No. 1 adit. No. 3 adit intersected vein C at a distance of 118 metres from the portal where the vein was drifted on for 37 metres. The property was closed in October 1934 due to lack of funds.

The property was examined by Vidette Gold Mines, Limited, in 1936. Work was reported to have resumed during the year.

Cusac Industries Ltd. surveyed and drilled (457 metres) the property in 1985.

An east striking, steeply south dipping quartz vein system occurs in massive greenstone of the Upper Triassic Vancouver Group, Karmutsen Formation. Several veins, 0.2 to 1.3 metres in width, are traced over a 310-metre strike length. The veins are composed mainly of quartz and calcite with sparse pyrite, chalcopyrite and free gold. The vein walls are slightly silicified and chloritized. Six chip samples averaged 15 grams per tonne gold over a 1.5-metre width along 76 metres of strike length (Assessment Report 13649).

Sampling, in 1934, of an adit returned 7.4 grams per tonne gold

Sampling, in 1934, of an adit returned 7.4 grams per tonne gold over 0.7 metre. In 1985 a drill hole intersected 2.02 grams per tonne gold over 0.9 metre, and a second assay returned 1.7 grams per tonne gold (Assessment Report 13649).

#### **BIBLIOGRAPHY**

```
EMPR AR 1920-43,44; 1921-38; 1922-40,41; 1923-42,43; 1925-65; 1926-66; 1928-64; 1932-44-46; 1933-40; 1934-B3,B4; 1936-B4 EMPR ASS RPT 8070, 9263, *13649 EMPR BULL *54, p. 218 EMPR EXPL 1980-370; 1985-C363 EMPR PF (*Rpt by J.T. Mandy, 1932; Starr, C.C. (1933): Report of Examination of Haida Gold Mines Ltd. Property; Letter by C.C. Starr, August, 1934; Map showing workings on 'C' Vein (with assays), 1933; Surface plan of workings on claims (with assays), (1" = 100'), 1933; Cross-section map (1" = 100'), (showing assays), 1933)

EMR MP CORPFILE (Haida Gold Mines Limited)
GSC MAP 1385A
GSC P 86-20; *88-1E, pp. 221-227; 89-1H; 90-10

CMH 1986-87, p. 118
GCNL #225,#231, 1984
N MINER Nov.13, 1984
West. Can. Mining News: Sept.10, 1933; Jan.24,May 10, 1935; Apr.24, 1936
Placer Dome File
Chevron File
```

DATE CODED: 1986/07/14 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/03/03 REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103C 003

NAME(S): TASU, TASSOO (L.604), WARWICK (L.615), DELA-BLUJAY, DELLA-BLUJAY, BLUJAY, JONES, ELLA (L.609), CHINA BOY FR. (L.616), CHICAMUNSTONE FR. (L.614), COPPER CHEAF (L.617), WEST JACK, PAULINE, ROSE, BERTA FR., ELIZABETH ED.

ELIZABETH FR.

STATUS: Past Producer Open Pit Underground

MINING DIVISION: Skeena

PAGE:

NORTHING: 5849302

EASTING: 699513

NATIONAL MINERAL INVENTORY: 103C16 Fe1

REPORT: RGEN0100

159

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103C16E UTM ZONE: 08 (NAD 83) BC MAP:

LATITUDE: 52 45 24 N LONGITUDE: 132 02 36 W

ELEVATION: 300 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Centre of Lot 604, Centre of ore zone - Figure 37 (Bulletin 54).

Located on the slopes south of Tasu Sound near its junction with

Fairfox Inlet.

Silver COMMODITIES: Iron Magnetite Copper Gold

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite Pyrrhotite Sphalerite

COMMENTS: Sphalerite is rare. Sericite Actinolite Garnet

ALTERATION: Chlorite Tremolite Epidote Anthophyllite

ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Concordant Massive

Industrial Min. CLASSIFICATION: Skarn Replacement TYPE: K03 K01 Fe skarn Cu skarn

SHAPE: Tabular

MODIFIER: Faulted DIMENSION: 1200 x 1000 x 100 Metres STRIKE/DIP: 175/20W TREND/PLUNGE:

COMMENTS: Northwest plunging syncline bordered by anticlines; ore zone on axial

zone of west limb of eastern anticline.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

GROUP Kunga Upper Triassic Upper Triassic Vancouver Karmutsen

San Christoval Plutonic Suite Middle Jurassic

ISOTOPIC AGE: 170-175 +/- 5 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Amygdaloidal Greenstone

Limestone Andesitic Dike Basalt Dike Dioritic Porphyry Hornblende Diorite Quartz Diorite

Skarn

HOSTROCK COMMENTS: The San Christoval Pluton of the San Christoval Plutonic Suite was

dated by Anderson(Geological Survey of Canada Current Research, 1989).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

METAMORPHIC TYPE: Contact Regional RELATIONSHIP: Pre-mineralization GRADE: Greenschist

Syn-mineralization Hornfels

INVENTORY

MINFILE NUMBER: 103C 002

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

ORE ZONE: TASU

REPORT ON: Y

CATEGORY: Indicated 2721560 Tonnes QUANTITY:

YEAR: 1980

COMMODITY

**GRADE** 0.2750

COMMENTS: 3,628,740 tonnes were depleted from a reserve of 6,350,300 tonnes

before the mine closure in 1983.

REFERENCE: Energy, Mines and Resources Mineral Bulletin 189, page 20.

#### CAPSULE GEOLOGY

The property is located on the south side of Tasu Sound, west coast of Moresby Island, Queen Charlotte Islands. The Nos. 1, 2, 3, and 4 ore zones, respectively, extend up the north slope of the mountain between elevations of 91 and 457 metres. The concentrator is located at the shoreline just west of Gowing Island.

The magnetite occurrence was discovered by the Haida Indians in the latter part of the eighteenth century. In 1908 prospector named Gowing, of Grand Forks, was sent by lumberman J.E. Corlett, of Seattle, to investigate the rumour of the occurrence of an unknown mineral. He was guided to Tasu Sound by Henry Moody and his father, both prominent Haida's of Skidgate Mission on Graham Island, only knew of the original discovery but had prospected the hillside and found magnetite-copper outcrops. Gowing was made to wait on the island, which now bears his name, while his guides sampled the showings and staked 4 claims, one of which was later Crown-granted as the Tassoo claim. Gowing agreed to purchase the 4 claims for \$2,000.00. Mr. Moody, Senior, sent word to Albert Jones, son of a close friend, to come and stake adjacent claims in order to share in the discovery. Albert Jones' arrival was delayed and Henry Moody returned to stake additional claims surrounding the original four

On Gowing's return a partnership was formed, including himself, J.E. Corlett and F.C. Elliott of Revelstoke, to acquire and develop the 20 claim property, now known as the Warwick group. Trenching during 1908, and 61 metres of adit driven in 1909, was carried out under the names Elliott Mining Company and Tassoo Mining and Smelting Company, respectively; there is no record of these as Canadian incorporations. The property was subsequently optioned to R.R. Hedley and associates, of Vancouver, who incorporated the Tassoo Syndicate, Limited, in December 1913. A tramline was built to the shore and ore shipments began in 1914. Exploration and development work included driving a 91-metre long adit at 360 metres on the Tassoo claim and sinking a 12-metre deep winze. Production was from two stopes in the adit. A lower adit at elevation 323 metres was driven 61 metres, but not far enough to encounter the ore. J.E. Corlett obtained Crown-grants on 24 claims (Lots 600-623) including the Tassoo (Lot 604) and Warwick (Lot 615) claims, in 1915. The mi operated intermittently until 1917.

All that remained of the property in later years was two key claims, the Tassoo and Warwick Crown-grants. In 1952 Albert Jones returned with son Cliff, and George Brown, to stake 6 claims adjoining the two Crown-grants. In 1953 Dr. Alex Smith acquired the two Crown-grants at a tax sale and in 1955 optioned the 6 claims from Albert Jones.

Frobisher Limited, which was controlled by Ventures Limited, incorporated Wesfrob Mines Limited in February 1956 to acquire, explore and develop the property, then comprising 21 Crown-granted and 11 recorded claims. During 1956-1957 some 6706 metres of diamond drilling was done on No. 3 zone. No further work was done until 1961 when geological and magnetometer surveys were carried out and 4971 metres of diamond drilling in 70 holes. Falconbridge Nickel Mines Limited, through a merger with Ventures Limited in 1962 acquired Wesfrob Mines as a wholly owned subsidiary. Diamond drilling continued and to the end of 1964 totalled some 40,234 metres. Prove ore reserves at that time were 22,679,625 tonnes averaging 41.33 per cent iron; of this the No. 3 zone contained about 6,168,858 tonnes

cent from, or this the No. 3 zone contained about 6,168,858 tonnes averaging 47.65 per cent iron and 0.66 per cent copper.

The 7,257 ton per day mill was put into production in June 1967 with ore from the No. 3 zone open pit. Open pits were subsequently established on the No. 2 and No. 1 zones. Ore passes were driven from No. 2 and No. 3 (upper) zones to a haulage adit driven at the 198-metre level. In 1973 this level was extended 66 metres and a grosscut driven to No. 2 zone.

crosscut driven to No. 3 zone.

The Della-Blujay group, comprising Crown-grant Nos. 2995, 2996, 2999, 3004, and 3007, and several recorded claims, lies west of the No. 2 and 3 zones and apparently covers No. 5 zone, which is in part a down faulted extension of No. 2 and 3 zones. During 1970-1971 the Della-Bluejay adit was driven from a point on the shoreline some 1067 metres southwest of the concentrator for a distance of 791 metres. Exploratory diamond drilling included 4291 metres underground and

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

3559 metres on surface. No further underground development was done on the Dela-Bluejay until 1974 when a decline was sunk from the 67-metre elevation in No. 1 zone open pit. Underground development was completed in 1977 and with the exhaustion of ore in the open pits the switch to underground mining was made during the year. Reserves (proven) as of January 1, 1980 were 2,384,731 tonnes at 0.275 per cent copper (Canadian Reserves as of January 1, 1980, MR 189, page 20, Energy, Mines and Resources, Ottawa).

Wesfrob Mines Limited was dissolved in January 1980 and the mine became the Wesfrob Mining Division of Falconbridge Nickel Mines Limited. Ore reserves of 6,350,296 tonnes at the end of 1980 were sufficient to continue the operation through 1987. Due to lower copper prices and other economic factors some 3,628,740 tonnes of low-grade material were deleted from reserves in 1981-82. Economic reserves were depleted and the mine closed permanently on October 5th, 1983. Lumberton Mills Ltd. subsequently acquired the property and equipment from Falconbridge Limited; Lumberton was placed in receivership in 1987.

The area is underlain by the Jurassic-Triassic Kunga Group and the Upper Triassic Karmutsen Formation of the Vancouver Group. These rocks have undergone regional greenschist facies metamorphism.

The Tasu orebodies occur at the contact between grey limestone of the Upper Triassic Sadler Formation (Kunga Group) and massive amygdaloidal greenstones of the Upper Triassic Karmutsen Formation. These rocks, were intruded by various stages of igneous rocks. First, the volcanics were cut by minor related sills. Next, a complex diorite porphyry laccolith was emplaced between the Karmutsen and Sadler formations. The foliated hornblende diorite and quartz diorite of the Middle Jurassic San Christoval Pluton intruded the stratified rocks, followed by skarn development and mineralization. Finally, earlier andesitic and later basaltic dike swarms cut all rocks.

The panel of Karmutsen and Kunga rocks that form the locus of the ore deposits has been moderately compressed into a synclinorium bordered on each limb by anticlines, all with axes trending 330 and plunging 25 degrees. The ore zones occur along the crest of the eastern anticline and extend down the west limb toward the synclinal axis. The most significant faults strike north-northwest and dip steeply. The faults pre-date the mineralization, but some have been subjected to later movement. The ore zones are crosscut by a large number of post ore dikes and in some areas they have diluted the grade

The orebodies and their skarn envelope form a tabular panel, 30 to 120 metres thick, which conforms to the bedding attitude (roughly 175 degree strike, 20 degree west dip) of the Karmutsen greenstones. However, the ore replaces diorite porphyry sills and Sadler limestone. This panel extends over a horizontal area at least 1000 by 1200 metres, which contain linear ore "build-ups" along pre-ore fault lines.

Ore zones 1 to 4 represent "build-up" and fringe areas. Zone 5 includes all known mineralized areas to the west. The orebodies of No. 1 zone, the furthest north zone, replace diorite porphyry, are skarn rich and generally copper poor. No. 3 zone orebodies, about 650 metres to the south-southeast, replace limestone, are relatively skarn free, copper-rich and are concentrated just above the contact of the Karmutsen Formation. No. 2 zone lies between No's. 1 and 3 and has intermediate characteristics to both zones. No. 4 zone lies 200 metres south of No. 3 and has similar characteristics.

The oxide and sulphide minerals have distribution and textures characteristic of a later metasomatic sequence. Magnetite replaces all earlier minerals and is found principally in the core of the skarn areas and as central bands in skarn replacement veinlets. Still younger are the sulphide minerals, pyrite, pyrrhotite, chalcopyrite, and rare sphalerite. Sulphur content of the orebodies is fairly uniform at 2 to 3 per cent, regardless whether chalcopyrite is the main sulphide, as in No. 3 zone, or pyrite and pyrrhotite, as in No. 1 and No. 2 zones. The sulphide minerals generally occur as blebs and small masses in magnetite but are also common as veinlets. Grades are roughly 40 per cent iron, 0.3 per cent copper and 3.4 grams per tonne silver.

Production from 1914 to the mine closure in October 1983 totalled 23,297,228 tonnes of ore mined. From this 1,430,141 grams gold, 52,822,505 grams silver and 57,090,466 kilograms of copper were recovered. Iron concentrates produced were 12.35 million tonnes, averaging 65 per cent iron.

Underground development was completed in 1977 and with exhaustion of ore in the open pits, underground mining was initiated during that year. Indicated reserves as of were 2,721,560 tonnes grading 0.275 per cent copper (Energy, Mines and Resources Mineral

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REPORT: RGEN0100

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RUN TIME: 12:06:33 GEOLOGICAL S

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Bulletin 189, page 20). Total ore reserves outlined by the end of 1980 were reported as a 6,350,300 tonnes. Due to lower copper prices and other economic factors some 3,628,740 tonnes of low-grade material were deleted from the reserves in 1981-1982. Economic reserves were depleted and the mine closed permanently on October 5, 1983.

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DATE CODED: 1986/07/15 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/02/23 REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103C 004 NATIONAL MINERAL INVENTORY: 103C16 Fe3

NAME(S): GARNET, KING NEPTUNE, RUBY, AJAX, TOMMY, TASU 4, JONES, SEA GULL FR. (L.618), SEAL (L.619),

INA FR. (L.622)

STATUS: Prospect Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103C16E

BC MAP:

LATITUDE: 52 46 14 N LONGITUDE: 132 01 11 W ELEVATION: 240 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Copper-iron mineralization, Figure 38 (Bulletin 54). Situated on the northwestern end of the peninsula between Fairfax and Botany Inlets,

Tasu Sound.

Molybdenum Zinc Silver

COMMODITIES: Copper Gold

Lead Magnetite **MINERALS** 

Magnetite Sphalerite Molybdenite Pyrite

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz ALTERATION: Chlorite Actinolite Sericite

ALTERATION TYPE: Chloritic MINERALIZATION AGE: Unknown Silicific'n Sericitic

DEPOSIT

CHARACTER: Massive Vein Stockwork Disseminated CLASSIFICATION: Skarn Replacement Hydrothermal Industrial Min. L04 Porphyry Cu ± Mo ± Au

TYPE: K01 Cu skarn

SHAPE: Regular DIMENSION: 60 x 10 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Dimensions for massive magnetite body.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Karmutsen

**Upper Triassic** Vancouver Upper Triassic Kunga Sadler Middle Jurassic

ISOTOPIC AGE: 170-175 +/- 5 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Limestone Andesite Basalt Granodiorite Quartz Diorite

San Christoval Plutonic Suite dated by Geological Survey of Canada in HOSTROCK COMMENTS:

current research (Pers. Comm.: Anderson, R.G., March, 1989).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

**GRADE** 

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1964

SAMPLE TYPE:

COMMODITY Silver 89.1000 Grams per tonne Gold 0.6900 Grams per tonne Copper 2.3000 Per cent Iron 12.4000 Per cent Lead 0.1000 Per cent

Zinc 12.0500 Per cent COMMENTS: The sample width is greater than 24 metres.

REFERENCE: Property File: Report by J.P. Elwell, 1964.

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5850912

EASTING: 701042

San Christoval Plutonic Suite

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

The Garnet and Ruby groups of claims are located on the northwestern end of the peninsula between Fairfax and Botany Inlets, Tasu Sound, at an elevation of between 91 and 290 metres.

In 1908 the property was staked as the Ajax group by Messrs. Chapman, Kitson, and Husband. At that time a 21-metre adit (Tommy adit) was driven on the southern boundary of the claims.

Five claims, the Garnet 1 and 2, and Ruby 1-3, were located in 1953 by R.E. Wolverton for The Consolidated Mining and Smelting Company of Canada Limited. Intermittent exploration by trenching was carried out over the next few years. The claims were retained by Mr. Wolverton after the company's interest terminated.

In 1962 Silver Standard Mines Limited optioned the five claims. Work done between November 12 and December 10 of that year included drilling four packsack holes totalling 65 metres, cleaning out some trenches, and conducting a magnetometer survey. The option was subsequently dropped.

Bardale Mining and Development Ltd., by an October 1964 option agreement, acquired the Garnet 1 and 2, and Ruby 1-3 claims from R.E. Wolverton and R.F. Sandner. Additional staking was done to a total of 61 claims. By an agreement of August 1965 the above option was assigned to Moresby Mines Limited. Work during the period 1964-1966 included 3353 metres of trenching, 21 kilometres of line cutting, a magnetometer survey on a 61 by 15 metre grid, geological and geochemical surveying and mapping, and 496 metres of diamond drilling in 12 holes.

From June 1967 to August 1968, the 61 claims were under option to Canadian Superior Exploration Limited from Moresby Mines Limited. During that time the work done included mapping the surface workings, geological mapping on an area 914 by 732 metres on the Ruby 1, 2, and 4 and Garnet 15, 17, and 19, an induced polarization survey covering 15 claims, a magnetometer survey covering 6 claims, geochemical sampling on 6 claims, 13 trenches, totalling 62 metres, and drilling of 6 holes totalling 600 metres.

From February 1971 the claims were operated by Imperial Oil Enterprises Ltd. Development work by the company included topographical and geological mapping, a geochemical survey, an induced polarization survey, and 10 holes drilled totalling 650 metres. The option was dropped in 1972.

The Dowa Mining Co., Ltd. optioned the property in 1974. Three holes were diamond drilled a total of 215 metres on Garnet 1 and 2.

Alyska Resources Corporation mapped and sampled the property in 1997

Greenstones of the Upper Triassic Vancouver Group, Karmutsen Formation are intruded by quartz diorites of the Middle Jurassic San Christoval Pluton. The greenstones are overlain by massive grey limestone of the Upper Triassic Sadler Formation (Kunga Group), which forms a northwest trending synclinal keel west of the batholith. Diorite dikes cut the volcanics and sediments.

Three main types of mineralization occur in several showings on the property. Massive magnetite, with minor gold and silver and varying amounts of pyrite and chalcopyrite, is best represented by a showing trenched and drilled in 1966 by Moresby Mines. A 60 by 10 metre mineralized body within greenstones and limestone at the northeast margin of the limestone keel averaged 1.3 per cent copper, 23.7 per cent iron and 20.6 grams per tonne silver. A 150 by 6 metre body, with similar mineralization, 250 metres to the southwest, averaged 2.1 per cent copper, 48 per cent iron and 6.9 grams per

tonne gold (Elwell, J.P., 1964).

North of the latter body, by about 100 metres, is a wide zone (over 25 metres) of massive sphalerite with varying amounts of magnetite, chalcopyrite and pyrite and minor gold-silver values, within altered limestone, near the limestone-greenstone contact. The zone strikes roughly 125 degrees for about 150 metres and dips about 60 degrees to the east. A 24-metre wide chip sample at the southern end of the zone assayed 12.05 per cent zinc, 2.30 per cent copper, 12.40 per cent iron, 89.1 grams per tonne silver and 0.69 gram per tonne gold. Drill results were poor (Elwell, J.P. 1964).

The third type of mineralization occurs north east of the massive magnetite zones, in an area measuring about 1500 by 500 metres, within the San Christoval quartz diorite over the northern most 2 kilometres of the Corlett Peninsula. Mineralization consists of pyrite, chalcopyrite and molybdenite disseminated and on fractures associated with quartz, chlorite, actinolite and sericite. Mineralization occurs in zones up to about 10 metres wide that are separated by barren quartz diorite. Thirty-three rock samples averaged 0.029 per cent copper, with gold values ranging from 0.14 gram per tonne to less than 0.005 gram per tonne (Assessment report 25123, page 9).

Smaller scattered occurrences of skarn mineralization are

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

widespread throughout the area. They typically form lenses, pods, veins and somewhat irregular replacements of limestone, almost always adjacent to faults occupied by basalt to andesite dikes.

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EMR MP CORPFILE (Imperial Oil Enterprises Ltd.; Moresby Mines Limited)
GSC MAP 278A; 1385A
GSC P 86-20; 88-1E, pp. 213-216,\*221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87, 163-172 MIN REV March/April 1988, pp. 19-24 PERS COMM (R.G. Anderson, March 1989) Falconbridge File

CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N DATE CODED: 1986/07/15 DATE REVISED: 1999/08/31

MINFILE NUMBER: 103C 004

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REPORT: RGEN0100

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103C 005

NATIONAL MINERAL INVENTORY: 103C16 Fe2

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5848738 EASTING: 700850

REPORT: RGEN0100

166

NAME(S): OLD TASU TOWNSITE, OLD TOWNSITE, TASU, JM 1

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103C16E

BC MAP:

LATITUDE: 52 45 04 N LONGITUDE: 132 01 26 W

ELEVATION: 50 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54); 1.5 kilometres southeast of Tasu

Mine.

COMMODITIES: Magnetite Iron Copper

**MINERALS** 

SIGNIFICANT: Magnetite Chalcopyrite Pyrite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Skarn Disseminated

Industrial Min. Replacement

TYPE: K03 Fe skarn SHAPE: Regular

**DIMENSION: 10** Metres STRIKE/DIP: 130/70F TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic IGNEOUS/METAMORPHIC/OTHER **FORMATION GROUP** 

Kunga Undefined Formation Upper Triassic Vancouver Karmutsen

San Christoval Plutonic Suite Middle Jurassic

ISOTOPIC AGE: 170-175 +/- 5 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

> LITHOLOGY: Limestone Skarn

HOSTROCK COMMENTS: San Christoval Pluton part of Jurassic San Christoval Plutonic Suite

dated by current GSC research (Pers. Comm.: R.G. Anderson, Mar. 1989).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

These showings are on the old Tasu townsite, on Hunger Harbour, Fairfax Inlet. They are on located claims held by Wesfrob Mines Limited as part of the large block of the Tasu mine but are separate from the main Tasu orebodies (103C 003). Signs of old work indicate the mineralization was probably known about 1910. In 1954 Cominco located the showings and did some stripping and pitting. In the summer of 1964 Wesfrob drilled nine AX holes totalling 715 metres at

the property.

The magnetite showings occur on the steeply dipping west limb of a synclinal pendant of Jurassic to Triassic Kunga Group limestone with a sheath of Upper Triassic Vancouver Group, Karmutsen Formation greenstone and skarn. These rocks are engulfed by diorite of the Middle Jurassic San Christoval Pluton. The greenstone and skarn varies in thickness from 6 to 46 metres and trends 130 degrees. the skarn sheath, ore replaces limestone with up to 10 metres wide of massive magnetite and scattered magnetite with some pyrite and chalcopyrite disseminated in the skarn.

Limited drilling proved less than 90,720 tons of relatively low-grade ore (National Mineral Inventory Card 103C16 Fe2).

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RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

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**BIBLIOGRAPHY** 

90-10, pp. 59-87, 163-172 MIN REV March/April 1988, pp. 19-24 PERS COMM (Anderson, R.G., March 1989)

Falconbridge File

DATE CODED: 1986/07/16 DATE REVISED: 1989/03/01 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103C 005

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103C 006

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5874826 EASTING: 691834

IGNEOUS/METAMORPHIC/OTHER

Burnaby Island Plutonic Suite

REPORT: RGEN0100

168

NAME(S): **QP**, P, Q

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103C16E BC MAP:

LATITUDE: 52 59 19 N LONGITUDE: 132 08 31 W ELEVATION: 130 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 2, 3 (Assessment Report 6121), located near the eastern end of Kuper Inlet.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Bornite Malachite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

Chlorite Malachite Chloritic

Oxidation

**FORMATION** 

Karmutsen

Undefined Formation

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: D03 Volcanic redbed Cu

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

GROUP Kunga TRATIGRAPHIC AGE

Triassic-Jurassic Upper Triassic Vancouver

Jurassic ISOTOPIC AGE: 164 +/- 3 Ma

DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Argillite

Andesite Greenstone Limestone

HOSTROCK COMMENTS: Middle to Late Jurassic Burnaby Island Plutonic Suite dated by R.G.

Anderson of Geological Survey of Canada (Pers. Comm.: March, 1989).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

CAPSULE GEOLOGY

The area is underlain mainly by Upper Triassic Vancouver Group, Karmutsen Formation greenstones and lesser Triassic to Jurassic Kunga Group grey limestones and argillite. Minor quartz feldspar porphyries intrude both units and may be related to a stock of the

Middle to Late Jurassic Burnaby Island Plutonic Suite which occurs to

the southeast.

Copper mineralization is confined to a silicified fault bounded shale wedge (0.5 by 2.0 metres), in part graphitic but non-calcareous. It is surrounded by non-mineralized chloritized andesites. Bornite and malachite are the principle copper minerals and occur in crosscutting quartz veinlets and fractures. A typical sample assayed 1.8 per cent copper and 3.4 grams per tonne silver (Assessment Report 6121). Falconbridge Limited held the property as the P and Q claims

in 1976.

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EMPR BULL 54 EMPR EXPL \*1976-161,162

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PERS COMM (Anderson, R.G., March, 1989)

MINFILE NUMBER: 103C 006

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Falconbridge File

DATE CODED: 1986/07/14 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/03/03 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103C 006

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103C 007

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5862907 EASTING: 687723

REPORT: RGEN0100

170

NAME(S): **SHG**, SHG MAGNUM, SHG WEDGE, SHG TREND, SHG MILL

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103C16E

BC MAP:

LATITUDE: 52 52 59 N LONGITUDE: 132 12 36 W ELEVATION: 600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on a ridge lying due north of the east end of the north arm

of Kootenay Inlet on Moresby Island.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Arsenopyrite

ASSOCIATED: Quartz ALTERATION: Tremolite Épidote Tremolité Magnetite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Vein **Epigenetic** 

CLASSIFICATION: Skarn TYPE: H03 K03 Hot spring Au-Ag Fe skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Kunga Sadler Upper Triassic Vancouver Karmutsen

LITHOLOGY: Skarn

Limestone Greenstone Meta Volcanic Intermediate Dike

Breccia

**GEOLOGICAL SETTING** TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization GRADE: Greenschist Post-mineralization

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1980 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY Gold 0.1550 Grams per tonne

COMMENTS: Chip sample R1688. REFERENCE: Assessment Report 8010.

**CAPSULE GEOLOGY** 

The oldest rocks on the property consist of massive volcanic flows, breccias and pillowed lavas of the Upper Triassic Vancouver Group, Karmutsen Formation. These volcanics have undergone regional greenschist facies metamorphism and are overlain by massive limestone of the Upper Triassic Sadler Formation (Kunga Group). Small intermediate composition dikes intrude the Sadler limestone and to a lesser degree the Karmutsen greenstones. The dikes are spatially related to quartz veins and silicified breccias. lesser degree the Karmutsen greenstones. The direlated to quartz veins and silicified breccias.

On the property, quartz veins and silicified breccias occur in limestone over an area of about 800 metres by 800 metres. Withis central zone, massive quartz veins up to 2.0 metres in width and Within the quartz stringers occur within the acid to intermediate dikes. Silicified breccia is common along several of the dike margins. breccias contain minor pyrite and arsenopyrite.

Skarn mineralization is poorly exposed on the property but occurs near the base of the Sadler limestone. Common mineralization is

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

sulphide-epidote and fine-grained silicates with some magnetite. The sulphides comprise 2 to 10 per cent of the rock volume and consist of pyrite, pyrrhotite and arsenopyrite. Tremolite occurs with severe bleaching of the limestone. Tremolite is common locally at the limestone-greenstone contact.

Numerous rock chip samples were collected in 1980 by Placer Development Limited. Individual dike-quartz vein occurrences have values ranging from trace to 0.155 gram per tonne gold (Assessment Report 8010).

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EMPR EXPL \*1980-370 EMPR FIELDWORK 1997, 19-1-19-14 GSC MAP 1385A GSC P 86-20; 88-1E, pp. 213-216,\*221-227; 89-1H, pp. 95-112; 90-10, pp. 163-172 MIN REV March/April, 1988, pp. 19-24

FIELD CHECK: N DATE CODED: 1989/02/23 CODED BY: LLD DATE REVISED: 1999/08/30 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103C 007

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 001

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5916998

EASTING: 670830

REPORT: RGEN0100

172

NAME(S): SOL (GUMBO ZONE), GUMBO, NEEDLES, COURTE, SOL, MMG,

RILEY CREEK

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F08W

BC MAP: LATITUDE: 53 22 34 N LONGITUDE: 132 26 01 W

ELEVATION: 275 Metre: LOCATION ACCURACY: Within 500M Metres

COMMENTS: Drill hole C 80-3 (Assessment Report 8225). Located northeast of

Shields Bay, Rennell Sound.

COMMODITIES: Gold Antimony Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Stibnite Arsenopyrite

Calcite

Sericite Carbonate Silica Araillic

ALTERATION: Clay
ALTERATION TYPE: Propylitic
MINERALIZATION AGE: Unknown Silicific'n

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epithermal Disseminated Breccia

Hydrothermal **Epigenetic** TYPE: H03 Hot spring Au-Ag

DIMENSION: Metres STRIKE/DIP: 130/ TREND/PLUNGE:

COMMENTS: Fault zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Yakoun Undefined Formation

LITHOLOGY: Massive Andesite Pyroclastic Andesite

Conglomerate

Volcanic Sediment/Sedimentary

Argillite Quartz Diorite Porphyritic Felsic Dike

HOSTROCK COMMENTS: Yakoun Formation now Yakoun Group (Geological Survey of Canada

Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1980

SAMPLE TYPE: Drill Core COMMODITY **GRADE** 

Silver 0.6000 Grams per tonne Gold 3.3000 Grams per tonne

COMMENTS: The sample width is 2 metres. REFERENCE: Assessment Report 8225.

CAPSULE GEOLOGY

The area is underlain by Middle Jurassic Yakoun Group rocks dominated by pyroclastic andesites and lesser massive andesite, conglomerates, volcanic sediments and argillites. T cut by quartz diorites and porphyritic felsic dikes. These rocks are

The dominant structure on the property is a major west northwest trending fault zone (Rennell-Louscoone fault system), with associated splays and subparallel faults. The fault system appears to control

the mineralization and alteration.

Carbonate-sulphide-sericite-silica alteration occurs in a zone up to 500 metres long and 120 metres wide. The abundance of carbonate in the area may express mobilization of the limy fraction of the underlying Juro-Triassic Kunga Group.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Disseminated and fracture filled pyrite, stibnite and arsenopyrite, associated with quartz and calcite veins occur within pyroclastics and clay-carbonate altered andesite, along the major northwest trending fault zone. A clay-like "gumbo zone" with breccia textures appears to be derived from pyroclastics, but also, generally related to the faulting.

Drilling encountered elevated gold and arsenic values associated with quartz-carbonate-pyrite (+/- arsenopyrite) veinlets in minor shears and associated alteration zones within Yakoun volcanics. A drill hole intersected a 2 metre section which assayed 3.3 grams per tonne gold and 0.6 grams per tonne silver (Assessment Report 8225).

Geological mapping and geochemical surveys by JMT Services Corp. and Chevron Canada Ltd. in 1977 and 1978 led to the discovery of the Gumbo Zone. Four diamond drill holes were drilled by the joint venture in 1980. Misty Mountain Gold Ltd. flew airborne radiometrics, resistivity and magnetometer surveys over the showing in 1995. A VLF geophysical survey was completed over the showing on behalf of the owner, Sam Courte, in 1997 to locate a potentially gold-bearing structure at depth.

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EMPR EXPL 1978-233; 1979-246-247; 1980-374; 1986-C419

EMPR FIELDWORK 1997, 19-1-19-14

EMPR OF 2000-14

GSC BULL 365

GSC MAP 1385A; 5-1990

GSC OF 2319

GSC P 86-20; 88-1E, pp. 221-227; 89-1H; 90-10; 91-1A, pp. 353-358

GCNL #179,#198, 1985

Chevron File

DATE CODED: 1986/06/09 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1988/11/29 REVISED BY: JNR FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 002

NATIONAL MINERAL INVENTORY: 103F7 Sb1

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5920191 EASTING: 664892

San Christoval Plutonic Suite

REPORT: RGEN0100

174

NAME(S): POINT, GOSPEL, RENNELL SOUND

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F07E BC MAP:

LONGITUDE: 53 24 24 N LONGITUDE: 132 31 16 W ELEVATION: 5 ACCURACY: ... LOCATION ACCURACY: Within 500M

COMMENTS: Sample zone, showing 86-15 (Assessment Report 15325). Located just north of Gospel Point, Rennell Sound.

COMMODITIES: Antimony Silver

**MINERALS** 

SIGNIFICANT: Pyrite Stibnite Arsenopyrite

ALTERATION: Clay
ALTERATION TYPE: Argillic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia
CLASSIFICATION: Epithermal
TYPE: H03 H0 Disseminated

Epigenetic Igneous-contact Hydrothermal

Hot spring Au-Ag

SHAPE: Irregular DIMENSION: 700 x 500 Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** GROUP Yakoun STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Undefined Formation

Middle Jurassic Middle Jurassic

ISOTOPIC AGE: 170-175 +/- 5 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Rhyolite Ash Flow

Andesite Flow **Basalt Flow** Diorite Rhyolite Tuff Breccia Andesite Basalt

Rhyolite

HOSTROCK COMMENTS: Age date from R.G. Anderson, March 1989, Personal Communication.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The occurrence is located close to shore, 600 metres north of Gospel Point in Rennell Sound. It may be confused with the Courte (103F 003).

The property is underlain by Middle Jurassic Yakoun Group volcanics and dioritic rock of the West Kano Pluton, which is part of the Middle Jurassic San Christoval Plutonic Suite. Uranium/lead age dates on this plutonic suite have given it an isotopic age of between 170 and 175 plus or minus 5 million years (Personal Communication:

R.G. Anderson, March 1989). The volcanics consist of basalt and andesite flows and rhyolite ash flows and tuffs.

A 700 by 500 metre zone of hydrothermally altered pyritic rhyolite tuffs, with minor arsenopyrite and stibnite, occurs in contact with the dioritic pluton to the west. Within this zone, the tuffs are clay altered and, near the contact, intensely brecciated. The contact appears, in part, to be a strong northeast striking

fault.

**BIBLIOGRAPHY** 

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MINFILE NUMBER: 103F 002 RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1997, p. 19-1-19-14
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GSC MAP 1385A
GSC OF 2319
GSC P 86-20; 88-1E, pp. 213-216, 221-227, 269-274; 89-1H, pp. 73-79, 95-112; 90-10, pp. 59-87, 305-324

DATE CODED: 1986/06/06 DATE REVISED: 1988/11/29 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE NUMBER: 103F 002

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 003

NATIONAL MINERAL INVENTORY: 103F8 Sb1

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5915981 EASTING: 672625

REPORT: RGEN0100

176

NAME(S): **COURTE**, SOL, RENNELL SOUND, STIB, MMG, RILEY CREEK

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F08W

BC MAP:

LATITUDE: 53 21 59 N LONGITUDE: 132 24 26 W

ELEVATION: 275 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Chip sample, Map 2 (Assessment Report 6968). Located northeast of

Shields Bay, Rennell Sound.

Silver COMMODITIES: Antimony Gold Lead Zinc

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Stibnite Arsenopyrite

Pyrrhotite Galena ASSOCIATED: Quartz Calcite

ALTERATION: Sericite Clay Carbonate Silica Chlorite ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown **Propylitic** Silicific'n

**DEPOSIT** 

CHARACTER: Vein Disseminated Stockwork CLASSIFICATION: Hydrothermal **Epithermal Epigenetic** 

TYPE: H03 Hot spring Au-Ag

SHAPE: Irregular MODIFIER: Faulted

DIMENSION: 500 x 120 Metres STRIKE/DIP: 150/90 TREND/PLUNGE:

COMMENTS: Mineralized area; related fault.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Middle Jurassic GROUP Yakoun **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Cretaceous Queen Charlotte **Undefined Formation** 

LITHOLOGY: Massive Andesite Pyroclastic Andesite

Conglomerate Sandstone

Volcanic Sediment/Sedimentary

Argillite

Quartz Diorite Rhyolitic Feldspar Porphyry Dike

HOSTROCK COMMENTS: Yakoun Formation now Yakoun Group (Geological Survey of Canada Paper

88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

INVENTORY

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**GRADE** 

TERRANE: Wrangell

ORE ZONE: CREEK

REPORT ON: N

CATEGORY: SAMPLE TYPE: Assay/analysis YEAR: 1974

Chip **COMMODITY** 

Grams per tonne 1.3700

Antimony 0.4000 Per cent COMMENTS: The sample was collected over 95 metres across the main fault zone.

REFERENCE: Assessment Report 24981, page 8.

CAPSULE GEOLOGY

The showings are at about the 500 foot elevation in the bottom of a steep south-flowing tributary of Riley Creek.

The showings were originally reported in 1918 and were staked

in 1942 by V. Courte when it received some examination and a little

channel sampling.

The area is underlain by Middle Jurassic Yakoun Group rocks dominated by pyroclastic andesites and lesser massive andesite, conglomerates, volcanic sediments and argillites. Thinly bedded to

> MINFILE NUMBER: 103F 003

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

massive sandstone and minor conglomerate of an unnamed formation of Cretaceous age are in fault contact with Yakoun rocks just east of the occurrence (GSC Open File 2319). These units are cut by quartz diorites and porphyritic felsic dikes.

The dominant structure on the property is a major west northwest trending fault zone (Rennell-Louscoone fault system), with associated splays and subparallel faults. Locally, a vertical dipping fault striking 150 degrees appears to control the emplacement of rhyolitic feldspar porphyry dikes and related mineralization and alteration.

Sericite-clay-carbonate-minor silica alteration occurs in an area up to 500 metres long and 120 metres wide. Individual zones of alteration vary from a few tens of metres to over 70 metres in width and are associated with faults and dikes. The abundance of carbonate in the area may express mobilization of the limy fraction of the underlying Juro-Triassic Kunga Group.

Sulphide mineralization occurs in the alteration zones and in stockworks of irregular quartz and calcite veinlets developed in feldspar porphyry dikes. Mineralization consists of pyrite, arsenopyrite, and stibnite, with minor pyrrhotite, chalcopyrite, sphalerite, and galena.

A chip sample of continuous exposure in Sol Creek assayed 1.37 grams per tonne gold and 0.4 per cent antimony over 95 metres (Assessment Report 24981, page 8). A drill hole 425 metres east-southeast from mineralization exposed in Sol Creek assayed 1.37 grams per tonne gold and 0.23 per cent antimony over 10 metres (Assessment Report 24981, page 8). A 1971 survey indicated a 70 by 300-metre area in which the surface grade was estimated to be 1.4 grams per tonne gold and 0.40 per cent antimony (Assessment Report 8225). A 2.27 kilogram sample, taken by Luke Watson in 1942, assayed trace gold, 19.2 grams per tonne silver, 0.1 per cent lead, 0.2 per cent zinc and 32.9 per cent antimony (Minister of Mines Annual Report 1942, page 32). This sample may be from the Point (103F 002).

This prospect has been explored intermittently since its discovery in 1942 by Victor Courte and Robert Mickle. Quintana Minerals Corp. completed geochemical and geological surveys in 1974. JMT Services Corp. and Chevron Canada Ltd. conducted geological and geochemical surveys in 1978, followed by the drilling of nine holes in 1979 to 1981. Umex Ltd. located claims over the eastern end of the prospect and by 1981 completed geological, geochemical and airborne geophysical surveys. Six short holes were also drilled by the company in 1981. Noranda Exploration Co. Ltd., Umex Ltd. and Noramex Minerals Inc. conducted geological, geochemical and ground geophysical surveys in 1985 and 1986, followed by the drilling of two diamond drill holes totalling 682 metres in 1986. Misty Mountain Gold Ltd. completed airborne, radiometrics, resistivity, magnetometer surveys over the prospect in 1995, while exploring a large block of claims surrounding the Sol property.

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GSC OF 2319
GSC P 86-20; 88-1E; 89-1H; 90-10; 91-1A, pp. 353-358, 367-371
GCNL #179,#198, 1985
Chevron File

DATE CODED: 1986/06/09 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1999/10/02 REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 004

NATIONAL MINERAL INVENTORY: 103F8 Cu1

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5907898 EASTING: 667173

REPORT: RGEN0100

178

NAME(S): **NORTHWESTER**, MAGNET

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F08W BC MAP:

LATITUDE: 53 17 44 N LONGITUDE: 132 29 36 W ELEVATION: 640 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing 1, Figure II (Assessment Report 495). Located at the end of

COMMODITIES: Copper Iron

**MINERALS** 

SIGNIFICANT: Chalcopyrite Magnetite Pyrrhotite Pyrite ALTERATION: Actinolité Malachite

Garnet ALTERATION TYPE: Skarn Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Skarn TYPE: K01 Disseminated

Industrial Min. Replacement

Cu skarn

DIMENSION: 400 x 100 STRIKE/DIP: Metres 060/70N TREND/PLUNGE: /

COMMENTS: Area of scattered mineralization, dips vary between 70 degrees to 90

degrees northwest.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Karmutsen

Upper Triassic Vancouver Upper Triassic Kunga

Sadler Tertiary

Kano Plutonic Suite

, ISOTOPIC AGE: 32.2 +/- 1.0 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

TERRANE: Wrangell

Limestone Skarn Andesite

Volcanic Sandstone

Diorite Andesite Dike **Basalt Dike** 

HOSTROCK COMMENTS: Kano(diorite) pluton cuts both Karmutsen Formation & Kunga Group. Age

date from Geological Survey of Canada Paper 89-1H, page 109.

**GEOLOGICAL SETTING** 

**CAPSULE GEOLOGY** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

The Northwester showing is located 1.6 kilometres north of the head of Van Inlet, being reached by tractor road and trail from Sheilds Bay on Rennell sound. The showing was discovered and staked by G. McRae and A Dewall. The 11 claim Magnet group was optioned to Mastodon-Highland Bell Mines Limited. In 1962 the company carried

out geological, magnetometer, and electromagnetic surveys.

Magnetite and chalcopyrite mineralization occurs scattered over a 400 metre wide zone along the contact between Upper Triassic Karmutsen greenstone and overlying Upper Triassic Sadler Formation limestone of the Upper Triassic to Lower Jurassic Kunga Group. Kunga Group is overlain by Middle Jurassic Yakoun Group andesites and volcanic sandstones. The volcanics and limestone strike 60 degrees, dip steeply northwest and are cut by numerous andesite and basalt dikes. The dioritic Central Kano pluton of the Tertiary Kano Plutonic Suite outcrops to the south and west.

Pods of massive magnetite and associated chalcopyrite, malachite and pyrrhotite occur mainly in the Karmutsen volcanics and within

actinolite garnet skarn.

MINFILE NUMBER: 103F 004 RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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DATE CODED: 1986/06/12 DATE REVISED: 1989/03/13 CODED BY: LDJ REVISED BY: GJP FIELD CHECK: N

MINFILE NUMBER: 103F 004

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 005

NATIONAL MINERAL INVENTORY: 103F2 Cu1

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5901732

EASTING: 663307

REPORT: RGEN0100

180

NAME(S): **GUDAL**, DAL

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F02E BC MAP:

LATITUDE: 53 14 29 N

LONGITUDE: 132 33 16 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located northeast of Gudal Bay.

COMMODITIES: Copper Iron

**MINERALS** 

Chalcopyrite SIGNIFICANT: Magnetite Pyrrhotite Pyrite

ALTERATION: Epidote Garnet Malachite ALTERATION TYPE: Skarn Oxidation

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Skarn TYPE: K01 Replacement Industrial Min.

Cu skarn SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Karmutsen

Upper Triassic Upper Triassic

Vancouver Kunga

Sadler

Tertiary Kano Plutonic Suite

ISOTOPIC AGE: 32.2 +/- 1.0 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Greenstone

Limestone Skarn Limy Argillite Rhyolite Dike Dacitic Dike

Diorite

HOSTROCK COMMENTS: Kano (diorite) Pluton cuts both Karmutsen Formation and Kunga Group.

Age date from Geological Survey of Canada Paper 89-1H, page 109.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

CAPSULE GEOLOGY

The showing is located at an elevation of 152 metres on Gudal Bay. The area was prospected by Mastodon-Highland Bell Mines Limited during August of 1962. The property consisted of 32 claims.

The area is underlain by Vancouver Group mafic volcanic flows

and greenstones of the Upper Triassic Karmutsen Formation, which are overlain by massive grey limestones of the Upper Triassic Sadler Formation (Kunga Group). The Sadler Formation is, in turn, overlain by contorted and sheared flaggy black limestone and limy argillites of the Jurassic to Triassic Peril and Sandilands formations (Kunga Group). Tertiary rhyolite and dacite dikes cut the rocks along northwest and northeast trends. The Central Kano diorite pluton, part of the Tertiary Kano Plutonic Suite, lies to the north.

Scattered magnetite, chalcopyrite, malachite and pyrrhotite mineralization occurs along the Karmutsen-Sadler contact and in

epidote-garnet skarn.

**BIBLIOGRAPHY** 

EMPR AR 1962-10

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EMPR BULL 54

EMPR OF 2000-14 EMPR PF (Report by J.C. Stephen, 1962) GSC MAP 1385A

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 86-20; 88-1E; 89-1H; 90-10, pp. 59-87, 163-172

DATE CODED: 1986/06/12 DATE REVISED: 1988/11/29 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE NUMBER: 103F 005

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 006

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5917563 EASTING: 669330

TREND/PLUNGE:

REPORT: RGEN0100

182

**NEEDLES**, RILEY, COURTE, MMG, RILEY CREEK NAME(S):

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F08W

BC MAP:

LATITUDE: 53 22 54 N LONGITUDE: 132 27 21 W ELEVATION: 100 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized fault zone, Map 1 (Assessment Report 6968). Located

northeast of Shields Bay, Rennell Sound.

COMMODITIES: Gold Silver Antimony

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite Stibnite

ASSOCIATED: Quartz ALTERATION: Clay Calcite Hematite Limonite Chlorite

Sericite Silica

Silicific'n Oxidation Argillic

ALTERATION TYPE: Propylitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Massive Vein

CLASSIFICATION: Hydrothermal Epithermal **Epigenetic** 

TYPE: H03 Hot spring Au-Ag

SHAPE: Irregular MODIFIER: Faulted

DIMENSION: Metres STRIKE/DIP: 130/

COMMENTS: Fault zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Middle Jurassic GROUP Yakoun **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Massive Andesite

Pyroclastic Andesite

Volcanic Sediment/Sedimentary Quartz Diorite

Felsic Dike Conglomerate Agglomerate

HOSTROCK COMMENTS: Yakoun Formation now Yakoun Group (Geological Survey of Canada

Paper 88-1E, pages 221-229).

GEOLOGICAL SETTING
TECTONIC BELT: Insular

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis YEAR: 1986

**GRADE** COMMODITY

Silver 0.6800 Grams per tonne 0.9600 Grams per tonne

COMMENTS: The sample width is 1.0 metre. REFERENCE: Assessment Report 15325.

CAPSULE GEOLOGY

The area is underlain by Middle Jurassic Yakoun Group rocks dominated by pyroclastic andesites and lesser massive andesite, conglomerates, volcanic sediments and argillites. These rocks are cut by quartz diorites and porphyritic felsic dikes.

The dominant structure on the property is a major west northwest trending fault zone (Rennell-Louscoone fault system), with associated splays and subparallel faults. The fault system appears to control the mineralization and alteration.

Clay-carbonate-sericite-silica as well as pervasive propylitic

RUN DATE: 26-Jun-2003 MINFILE MASTER I
RUN TIME: 12:06:33 GEOLOGICAL SURVEY

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

alteration occurs in a zone up to 300 metres by 350 metres. The abundance of carbonate in the area may express mobilization of the limy fraction of the underlying Juro-Triassic Kunga Group.

limy fraction of the underlying Juro-Triassic Kunga Group.

Disseminated, massive and fracture filled pyrite occurs within a zone of altered andesite, agglomerate flows, and pyroclastics with intercalated argillite. The zone also includes a 5 to 10-metre mineralized northwest trending fault zone. A sample assayed 13.7 grams per tonne gold (Assessment Report 11533).

A post mineral fault, trending northeast, is interpreted to offset the west part of the mineralized zone 500 metres to the southwest. The termination of the mineralization is interpreted to be caused by pinching and swelling along a series of subparallel northwest trending faults.

A 3.0-metre chip sample of the altered zone assayed 0.93 gram per tonne gold and a 1.0 metre sample assayed 0.96 gram per tonne gold and 0.68 gram per tonne silver (Assessment Report 15325).

Misty Mountain Gold Ltd. flew airborne radiometrics, resistivity and magnetometer surveys over the showing in 1995 while exploring a large block of claims surrounding the Sol property.

#### **BIBLIOGRAPHY**

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EMPR BULL 54

EMPR EXPL 1978-233; 1979-246-47; 1980-374; 1983-496; 1986-C419

EMPR FIELDWORK 1997, 19-1-19-14

GSC BULL 365

GSC MAP 1385A; 5-1990

GSC OF 2319

GSC P 86-20; 88-1E; 89-1H; 90-10; 91-1A, pp. 353-358

GCNL #179,#198, 1985

DATE CODED: 1986/06/09 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1988/11/29 REVISED BY: JNR FIELD CHECK: N

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 007

NATIONAL MINERAL INVENTORY: 103F1 Cu1

PAGE:

REPORT: RGEN0100

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NAME(S): **DOWNIE ISLAND SHOWING** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F01W BC MAP: UTM ZONE: 08 (NAD 83)

LATITUDE: 53 07 19 N LONGITUDE: 132 16 56 W ELEVATION: 450 Metres NORTHING: 5889105 EASTING: 681974

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54). The showing is southeast of Downie

Island on Moresby Island.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Malachite

COMMENTS: Copper stain observed from air.

ALTERATION: Malachite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Replacement TYPE: K01 Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Kunga STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Limestone

HOSTROCK COMMENTS: Kunga Formation now Kunga Group (Geological Survey of Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

The showing is located at about the  $457\ \text{metre}$  elevation on Moresby Island,  $5.6\ \text{kilometres}$  southeast of Downie Island in Skidgate Channel.

A copper showing occurs as a metasomatic replacement within moderately north dipping limestone of the Juro-Triassic Kunga Group.

**BIBLIOGRAPHY** 

EMPR BULL 54, p. 220 EMPR OF 2000-14 GSC MAP 1385A; 4-1990

GSC P 86-20; 88-1E; 89-1H, pp. 7-11; 90-10, pp. 163-172

DATE CODED: 1986/06/13 DATE REVISED: 1988/12/02 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 008

NATIONAL MINERAL INVENTORY: 103F1 Cu2

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5880337 EASTING: 679138

PAGE:

REPORT: RGEN0100

185

NAME(S): MATAJUR (B ZONE), TOM, SECURITY, YOUNG, ROD, WADDINGTON

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F01W

BC MAP:

LATITUDE: 53 02 39 N LONGITUDE: 132 19 46 W

ELEVATION: 60 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill area, Map A-5 (Assessment Report 667). Located northeast of

Mackenzie Cove.

COMMODITIES: Copper

Zinc

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Pyrite ALTERATION: Epidote

Chalcopyrite

Magnetite

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated

Massive

Sphalerite

CLASSIFICATION: Skarn TYPE: K01

Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** 

Upper Triassic

Vancouver

**FORMATION** Karmutsen

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Greenstone

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: MAIN SHOWING

REPORT ON: N

Assay/analysis CATEGORY:

YEAR: 1990

SAMPLE TYPE: Chip COMMODITY

<u>GR</u>ADE

1.4700

Copper

Per cent

COMMENTS: Chip sample was taken over a ten by ten metre area. REFERENCE: Assessment Report 20330, sample D7.

**CAPSULE GEOLOGY** 

The showings are located north of Security Inlet, near Mackenzie Cove, at an elevation of 152 metres. The Waddington Mining Corporation Limited held 9 claims in this vicinity in 1953. Oil Company held the property as the Young and Rod groups in 1965. A geophysical survey was carried out at the time.

The area is underlain by Vancouver Group Upper Triassic
Karmutsen greenstone and minor limestone which dip moderately to the north. Thinly bedded sediments, possibly of the Jurassic to Triassic Kunga Group, outcrop in the vicinity along the northeast side of Mackenzie Cove.

Three closely spaced mineralized outcrops occur on a broad ridge 150 to 200 metres northeast of Mackenzie Cove. The most significant of these consists of a ten by ten metre outcrop of clay-altered pyritic volcanic containing abundant massive pyrrhotite and pyrite with traces of chalcopyrite. A chip sample of weathered material collected over the ten by ten metre area assayed 1.47 per cent copper (Assessment Report 20330, sample D7).

A chip sample taken across a five by five metre zone of

pyrrhotite and pyrite rich gossan, fifty metres northeast of the previous mineralization, assayed 0.91 per cent copper (sample D8).

A zone of pyritic epidote skarn hosted in a small pod of white marble, 35 metres west of the main showing, comprises the third area

of mineralization.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

These showings were prospected and sampled by Doromin Resources in 1990. Inco Exploration and Technical Services flew airborne VLF and magnetometer surveys over the region in 1992.

**BIBLIOGRAPHY** 

EMPR ASS RPT 667, 676, \*20330, 22517 EMPR BULL 54, p. 220 EMPR OF 2000-14 GSC MAP 1385A GSC P 86-20; 88-1E; 89-1H; 90-10 CMH 1954, p. 196

DATE CODED: 1986/06/13 DATE REVISED: 1999/09/27 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103F 008

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 009

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5920637

**EASTING: 677226** 

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

187

NAME(S): GHOST CREEK OIL SHALE

STATUS: Showing REGIONS: Queen Charlotte Islands

NTS MAP: 103F08W BC MAP:

LATITUDE: 53 24 18 N

LONGITUDE: 132 20 02 W ELEVATION: 120 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location based on collar of drill hole 278 along MacMillan Bloedel logging road Branch 46, 0.6 kilometre west-northwest of the

confluence of Demon and Ghost creeks, 6.7 kilometres north-northwest of Yakoun Lake (Geological Survey of Canada Bulletin 365, Figure 5).

COMMODITIES: Bitumen

**MINERALS** 

SIGNIFICANT: Bitumen MINERALIZATION AGE:

DEPOSIT

CHARACTER: Stratabound
CLASSIFICATION: Fossil Fuel
TYPE: A06 Oil sh

Concordant Industrial Min. Oil shale

Sedimentary

**FORMATION** 

Sandilands

DIMENSION: 30 Metres STRIKE/DIP: 090/15N COMMENTS: Thickness and bedding attitude given for surface exposure.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**GROUP** 

STRATIGRAPHIC AGE Triassic-Jurassic Kunga

LITHOLOGY: Siltstone

Argillaceous Siltstone Sandstone

Shale Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

### **CAPSULE GEOLOGY**

The area along Ghost Creek, west of the Yakoun River is underlain by sediments of the Upper Triassic to Lower Jurassic Kunga Group and conformably overlying Lower Jurassic Maude Group. The upper most formation of the Kunga Group, the Upper Triassic to Lower Jurassic Sandilands Formation, locally contains oil-bearing black argillites and shales.

A drill hole collared along MacMillan Bloedel's Branch 46 logging road, 0.6 kilometre northwest of Ghost Creek intersected a 242 metre section of Sandilands Formation, comprised of thinly interbedded siltstone, argillaceous siltstone, variably tuffaceous sandstone and shale, with minor lenses and interbeds of limestone. Bitumen is locally present throughout the section and is somewhat more abundant in the mid third of the interval at about 70 to 128 metres depth. Here, bitumen and oil seeps occur in fractures and brecciated zones.

A surface exposure of oil shale is reported to occur 4.8 kilometres up Ghost Creek from the Yakoun River, in the immediate vicinity of the drill hole. The exposure consists of a 30-metre thick section of oil shale striking east and dipping 15 degrees north.

This showing was diamond drilled by Intercoast Resources some time prior to 1985.

**BIBLIOGRAPHY** 

EMPR AR \*1921-38

EMPR BULL 54, pp. 50-61,178,179 EMPR FIELDWORK 1997, 19-1-19-14

EMPR OF 2000-14

EMR MP CORPFILE (Skaist Mines Ltd.)

GSC BULL \*365, pp. 10-16

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 1385A; 5-1990 GSC MEM 88, p. 171 GSC OF 2319 GSC P \*81-25, pp. 49-52; 86-20; 88-1E, pp. 221-227; 89-1H; pp. 19-22; 90-10, pp. 51-58, 163-172 GCNL #217, 1975; #173, 1976

N MINER Mar.4, 1982

DATE CODED: 1999/10/30 DATE REVISED: 1999/10/30 CODED BY: PSF REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103F 009

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 010

NATIONAL MINERAL INVENTORY:

NAME(S): MARIE LAKE (ROCKHOUND), ROCKHOUND, MARIE,

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F08W

BC MAP:

LATITUDE: LONGITUDE: 132 19 56 W ELEVATION: 180 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 4 (Assessment Report 8398). The Rockhound showing is

located south of Marie Lake on the Marie Property (M claims).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite

ASSOCIATED: Quartz ALTERATION: Silica

Chalcedony

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Epithermal

Hydrothermal TYPE: H03 Hot spring Au-Ag

**Epigenetic** 

**HOST ROCK** 

Tertiary

DOMINANT HOSTROCK: Volcanic

**GROUP** 

STRATIGRAPHIC AGE Tertiary

**Undefined Group** 

**FORMATION** Masset

IGNEOUS/METAMORPHIC/OTHER

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5929449

EASTING: 677116

REPORT: RGEN0100

189

Kano Plutonic Suite

ISOTOPIC AGE: 27.0 +/- 0.3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: ZIRCON

LITHOLOGY: Feldspar Porphyry

Basaltic Flow Dacitic Pyroclastic

Rhyolite

Age date of diorite from Sheila Lake Pluton (GSC Paper 90-10, page 64, HOSTROCK COMMENTS:

Figure 3).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Chip YEAR: 1980

COMMODITY

Gold

**GRADE** 1.0000 Grams per tonne

COMMENTS: From a 6 metre chip sample. REFERENCE: Assessment Report 8398.

CAPSULE GEOLOGY

The area is underlain by Jurassic volcanics and clastic The area is underlain by Jurassic Volcanics and clastic sediments of the Yakoun and Maude groups, which are intruded by the Sheila Lake Pluton of the Tertiary Kano Plutonic Suite. All rocks are overlain by Tertiary volcanics of the Masset Formation, consisting of basalt flows, and rhyolite and dacite pyroclastics.

The showing consists of abundant quartz-pyrite and chalcedony veinlets cutting silicified dacitic feldspar porphyry of the Sheila

Lake Pluton, near its east end. A 6.0 metre wide sample assayed 1.0 gram per tonne gold (Assessment Report 8398).

Misty Mountain Gold Ltd. flew airborne radiometrics, resistivity and magnetometer surveys over the showing in 1995. This showing was also soil-sampled and prospected by the company in 1995 and 1996.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7563, 8398, 9843, 16454, 24008, 25064

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL 54 EMPR EXPL 1980-376 EMPR FIELDWORK 1997, p. 19-1-19-14

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EMPR PF (Prospectus: International Baron Resources Ltd., Jun.6, 1988)
GSC MAP 1385A

GSC OF 2319 GSC P 86-20; 88-1E, pp. 213-216; 89-1H, pp. 95-112; 90-10, pp. 59-87

Chevron File

DATE CODED: 1986/06/10 DATE REVISED: 1988/12/02 CODED BY: LDJ REVISED BY: GJP FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103F 010

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RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 011

NATIONAL MINERAL INVENTORY:

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MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5931604 EASTING: 676851

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

191

NAME(S): MARIE LAKE (PROSPECTOR), PROSPECTOR, MARIE,

STATUS: Showing

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F09W

BC MAP:

LATITUDE: 53 30 19 N LONGITUDE: 132 20 06 W ELEVATION: 110 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Drill hole, Figure 4 (Assessment Report 8398). The Prospector

occurrence is located northwest of Marie Lake on the Marie Property

(M claims).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Calcite ALTERATION: Silica Pyrite

Pyrite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Stockwork

CLASSIFICATION: Epithermal Hydrothermal

TYPE: H03 Hot spring Au-Ag

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary Undefined Group

<u>GROUP</u> **FORMATION** Masset

LITHOLOGY: Rhyolite

Dacite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

YEAR: 1980

**Epigenetic** 

CATEGORY: SAMPLE TYPE: Drill Core

Assay/analysis

**GRADE** 

COMMODITY Gold

Grams per tonne 0.5500

COMMENTS: The sample length is 18.3 metres from a percussion drill.

REFERENCE: Assessment Report 8398.

**CAPSULE GEOLOGY** 

The area is underlain by Tertiary volcanics of the Masset Formation, which are underlain by calcareous argillites and sandstones of the Middle Jurassic Yakoun(?) Group. Dacitic to rhylotic flows and pyroclastics display extensive silicification

and pyritization.

A percussion drill hole (M6) intersected 18.3 metres of rhyolite pyroclastics with disseminated and fractured pyrite grading 0.55 gram per tonne gold (Assessment Report 8398). A stockwork trends 050 and consists of chalcedonic quartz and pyrite.

Misty Mountain Gold Ltd. flew airborne radiometrics, resistivity and magnetometer surveys over the showing in 1995. This showing was also sampled and prospected by the company in 1995 and 1996.

**BIBLIOGRAPHY** 

EMPR ASS RPT 7563, 7980, 8398, 9843, 16454, 24008, 25064

EMPR BULL 54

EMPR EXPL 1979-248; 1980-376; 1987-C349

EMPR FIELDWORK 1997, p. 19-1-19-14
EMPR PF (Prospectus: International Baron Resources Ltd., Jun.6, 1988)

GSC MAP 1385A; 6-1990

GSC OF 2319

GSC P 86-20; 88-1E, pp. 269-274; 89-1H, pp. 73-79; 90-10, pp. 305-324

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Chevron File

DATE CODED: 1986/06/10 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1999/09/13 REVISED BY: PSF FIELD CHECK: Y

MINFILE NUMBER: 103F 011

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 012

NATIONAL MINERAL INVENTORY: 103F/8 Col 1

PAGE:

NORTHING: 5923593

EASTING: 682583

REPORT: RGEN0100

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 $\mathsf{NAME}(\mathsf{S}) \text{: } \underline{\mathbf{WILSON}} \ \mathbf{CREEK}, \ \mathsf{CAMP} \ \mathsf{WILSON}$ 

STATUS: Developed Prospect REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

NTS MAP: 103F08W BC MAP: UTM ZONE: 08 (NAD 83)

LONGITUDE: 132 15 12 W ELEVATION: 100 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: The deposit is located in the Yakoun Basin in the north central part

of Graham Island.

COMMODITIES: Coal

LATITUDE:

MINERALS
SIGNIFICANT: Coal

MINERALIZATION AGE: Middle Jurassic

**DEPOSIT** 

CHARACTER: Stratiform Stratabound

CLASSIFICATION: Fossil Fuel Syngenetic Sedimentary

TYPE: A04 E SHAPE: Irregular Bituminous coal

MODIFIER: Folded Faulted

DIMENSION: Metres STRIKE/DIP: 010/60E TREND/PLUNGE:

COMMENTS: Thickness of coal seam.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

<u>GROU</u>P **FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Yakoun Undefined Formation

LITHOLOGY: Coal

Sandstone Shale Conglomerate

HOSTROCK COMMENTS: Yakoun Formation now Yakoun Group (Geological Survey of Canada Paper

88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: HVol Bituminous

INVENTORY

ORE ZONE: CAMP WILSON REPORT ON: Y

> CATEGORY: QUANTITY: YEAR: 1912 Inferred

1220000 Tonnes

**GRADE** COMMODITY Coal 35.0000 Per cent

COMMENTS: Grade for average volatile matter.

REFERENCE: Geological Survey of Canada, Summary Report 1912, page 37.

CAPSULE GEOLOGY

A single coal seam, the "Wilson Seam", occurs in the Wilson Creek area interbedded with sandy shale, sandstone and pebbly conglomerate of the Middle Jurassic Yakoun Group. The seam, which consists of high volatile "B" bituminous coal, varies from 1.2 to 5.5 metres thick and contains up to 4.9 metres of coal. The seam is divided into two benches by a 13 centimetre thick sandstone layer, 1.5 metres above the seam floor. The lower bench is dirty and contains several thin shale and bone coal bands. The upper bench, approximately 3.7 metres thick, consists entirely of coal with varying ash contents. The seam floor is sandstone while the roof is a pebbly sandstone.

Analyses of the  $\operatorname{coal}$  indicates moisture contents ranging from 1.06 per cent to 2.65 per cent, volatile matter 6.1 per cent to 43.5 per cent (generally approximately 35 per cent), fixed carbon 31.2 per cent to 74.1 per cent (generally approximately 50 per cent), ash 2.92 per cent to 57.10 per cent (average less than approximately 20 per cent), and sulphur 0.5 per cent to 1.2 per cent.

The structure consists of a narrow synclinal basin trending northwest and plunging slightly north. The coal occurs on the

RUN DATE: 26-Jun-2003 MINFILE MASTER
RUN TIME: 12:06:33 GEOLOGICAL SURVEY

# MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

west limb and central portions of the syncline. The coal bearing strata strike north-northwest and dip 60 to 80 degrees east. Minor folding occurs and locally northwest-southeast trending faults disrupt the structure.

Work done on the Camp Wilson occurrence includes two adits, one open cut, two shallow pits and five diamond-drill holes. Total underground workings consist of approximately 55.0 metres of drifts and crosscuts, and 12 metres of shafts.

Based on a 1.2 metre thickness of coal underlying an area of 0.78 square kilometres, the coal reserve of Camp Wilson is 1.22 million tonnes (Geological Survey of Canada, Summary Report 1912, page 37).

The coal showing is located at an elevation of about 76 metres

near Wilson Creek, 22.5 kilometres west of Lawn Point.
By 1919, there were three work openings: No. I opening, on the
east side of Wilson creek, consists of an adit 16.4 metres along the
coal seam. At 2.4 kilometres from the entrance a winze 4.2 metres
deep gave access to two drifts totalling 15.2 metres in length. A
crosscut exposes the full width of the seam at the end of the
northern drift. No. 2 opening, 122 metres southeast from No. 1, on
the west side of Wilson creek, is a shaft 4.2 metres deep from which
a drift runs south on the seam for 6 metres. No. 3 opening, 23
metres northwest from No. 1, is an adit and incline, partly on the
seam and partly in the glacial till. Its total length in a northeast

direction is 23 metres.

A 1912 sample gave the following analysist water, 2.44 per cent; volatile matter, 35.96 per cent; fixed carbon, 48.64 per cent; ash, 12.26 per cent; sulphur, 0.80 per cent.

A preliminary estimate of probable mineable reserves by Mackay for the Royal Commission on coal, in 1946, was 5,600,000 tons. In 1971 ownership belbriget to MacMillan, Bloedel and Power River Industries (Alberni) Ltd. An induced polarization survey was carried out by Trincon Exploration Survey Ltd.

#### **BIBLIOGRAPHY**

EMPR AR 1898-1163, 1902-57; 1903-210; 1906-75,85; 1910-175; 1913-105; \*1914-165-171; 1915-75; 1916-88

EMPR BULL 54, pp. 74,75,91,106,177

EMPR COAL ASS RPT \*93

EMPR GEM 1971-503-504

GSC ANN RPT 1904, Pt.B (Vol.16), pp. 31-44

GSC BULL 365

GSC MAP 1385A

GSC MEM \*69, pp. 141-158; \*88, pp. 17, 143-151

GSC OF 2319

GSC P 86-20; 88-1E; 89-1H, pp. 19-22; 90-10; 91-1A, pp. 353-358

GSC SUM RPT \*1912, pp. 12-40

Report on the Royal Commission on Coal, pp. 51,641, Ottawa, 1946

DATE CODED: 1986/05/21 CODED BY: EVK FIELD CHECK: N DATE REVISED: 1988/12/02 REVISED BY: JNR FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 013

NATIONAL MINERAL INVENTORY: 103F18 Col 2

PAGE:

NORTHING: 5907825 EASTING: 682857

REPORT: RGEN0100

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NAME(S): ROBERTSON, FALLS CREEK, NUTTER MINE, CAMP ROBERTSON

STATUS: Developed Prospect Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F08W

BC MAP:

UTM ZONE: 08 (NAD 83)

LATITUDE: 53 17 23 N LONGITUDE: 132 15 30 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: The deposit is located in the Honna Basin, southern Graham Island.

COMMODITIES: Coal

MINERALS
SIGNIFICANT: Coal MINERALIZATION AGE: Cretaceous

**DEPOSIT** 

CHARACTER: Stratiform Stratabound

CLASSIFICATION: Fossil Fuel Syngenetic Sedimentary

Sub-bituminous coal

TYPE: A03 S SHAPE: Irregular

MODIFIER: Folded Faulted

DIMENSION: Metres STRIKE/DIP: TREND/PLUNGE: COMMENTS: Thickness of coal seam.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Queen Charlotte Lower Cretaceous Haida Queen Charlotte Cretaceous Skidegate

LITHOLOGY: Coal

Shale

Carbonaceous Shale

Sandstone

HOSTROCK COMMENTS: GSC Open File 2319 and Paper 91-1A, pp. 367-371 suggest the host unit

be referred to as the Cretaceous shale of the Queen Charlotte Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Sub-Bituminous

COMMENTS: Low grade bituminous in rank.

INVENTORY

ORE ZONE: CAMP ROBERTSON REPORT ON: Y

> CATEGORY: YFAR: 1912 Inferred

QUANTITY: 2440000 Tonnes COMMODITY

**GRADE** Coal Per cent 25,0000

COMMENTS: Grade of average volatile matter. REFERENCE: Geological Survey of Canada, Summary Report 1912, page 37.

**CAPSULE GEOLOGY** 

A single coal seam, containing low grade bituminous rank coal, occurs in the area interbedded with carbonaceous shale, shale, and sandstone of the Cretaceous Queen Charlotte Group, Haida or Skidegate Formations. The seam averages 2.4 metres in thickness (maximum 2.6 metres) and the total coal content ranges from 0.7 to 1.2 metres. The lowest portion of the seam is a 15 to 20 centimetre thick bright Above this are alternating bands of shale, bone coal and nor shale and mineral partings. The seam is directly clear coal. coal with minor shale and mineral partings. underlain and overlain by shale.

Analyses for the seam indicates volatile matter contents ranging from 13.92 per cent to 35.25 per cent (generally approximately 25 per cent), fixed carbon 38.56 per cent to 52.58 per cent, ash 19.82 per cent to 43.16 per cent and sulphur 0.50 per cent to 0.92 per cent.

The structure in the area consists of a roughly north-south trending anticline, along the east limb of which the Falls Creek seam

can be traced. The strata strike approximately north-south and dip

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

to the east. To the east of the anticline is a narrow north-south trending canoe shaped syncline, while to the west is a flat syncline modified by low undulating folds. The strata locally contain minor folds and are cut by minor faults. The coal is cut by numerous dikes.

Work done on the occurrence includes one 20.7 metre adit and one 9 metre inclined shaft.

Given an average thickness of coal of 0.915 metre underlying a probable area of 2.1 square kilometres, the coal reserve for Camp Robertson would be 2.44 million tonnes (Geological Survey of Canada, Summary Report 1912, page 37).

The showing, first prospected in 1893, is located 3.2 kilometres south of Yakoun Lake at an elevation of 274 metres.

From 1893 to 1913 a number of openings were developed. One adit follows the coal seam under glacial drift, through faulted and broken ground of massive, soft, brownish gray shale, and then slopes 13 degrees for 20 metres. Analysis of the coal showed: water, 0.80 per cent; volatile matter, 23.27 per cent; fired carbon, 51.39 per cent; ash, 24.54 per cent; no sulphur; and a fuel ratio of 2.21.

In 1914, the property was held by Imperial Trust Company of New York. A preliminary estimate of probable mineable reserves by Mackay for the Royal Commission on Coal, in 1946, was 11,200,000 tons.

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EMPR COAL ASS RPT *93

GSC ANN RPT 1904, Pt.B (Vol.16), pp. 31-44

GSC MAP 1385A

GSC MEM *69, pp. 141-158; *88, pp. 126-136

GSC OF 2319

GSC P 86-20; 88-1E, pp. 221-227; 89-1H; 90-10, pp. 253-277, 279-294; 90-1F, pp. 5-10; 91-1A, pp. 367-371

GSC SUM RPT *1912, pp. 12-40

Report of the Royal Commission on Coal, pp. 51, 641, Ottawa, 1946
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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 014

NATIONAL MINERAL INVENTORY: 103F/8 Col 3

PAGE:

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197

NAME(S): ANTHRACITE, FALLS CREEK, CAMP ANTHRACITE

STATUS: Prospect Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands UTM ZONE: 08 (NAD 83)

NTS MAP: 103F08E BC MAP:

LATITUDE: 53 19 29 N NORTHING: 5911825 EASTING: 685481

LONGITUDE: 132 13 00 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The deposit is located in the Honna Basin in the southern part of

Graham island.

COMMODITIES: Coal

MINERALS
SIGNIFICANT: Coal MINERALIZATION AGE: Cretaceous

**DEPOSIT** 

CHARACTER: Stratiform Stratabound

CLASSIFICATION: Fossil Fuel Syngenetic Sedimentary

TYPE: A04 E SHAPE: Irregular A05 Bituminous coal Anthracite

MODIFIER: Folded Faulted

DIMENSION: Metres STRIKE/DIP: TREND/PLUNGE: COMMENTS: Thickness of coal seam.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Queen Charlotte Lower Cretaceous Haida Queen Charlotte Cretaceous Skidegate

LITHOLOGY: Coal

Sandstone Shale

HOSTROCK COMMENTS: GSC Open File 2319 and Paper 91-1A, pp. 367-371 suggest the host unit

be referred to as the Cretaceous sandstone of the Queen Charlotte Grp.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Sub-Bituminous

COMMENTS: Low grade bituminous.

INVENTORY

ORE ZONE: CAMP ANTHRACITE REPORT ON: Y

> CATEGORY: YEAR: 1946 Inferred

> 4064000 Tonnes QUANTITY:

COMMODITY Coal Per cent

COMMENTS: Grade of average volatile matter. REFERENCE: Royal Commission on Coal, 1946.

underlying the coal seam.

CAPSULE GEOLOGY

A single coal seam, equivalent to the seam mined at Camp Robertson (103F 013), occurs in the Anthracite Camp interbedded with sandstone and shale of the Cretaceous Queen Charlotte Group, Haida or Skidegate formations. The seam is 2.7 metres thick and contains 1.4 metres of coal in up to 6 bands of varying thickness. The coal is interspersed with shale and bone coal and the roof is a medium to fine-grained sandstone. The coal contains 1.52 to 5.69 per cent water, 7.59 to 8.69 per cent volatile matter, 42.10 to 80.07 per cent fixed carbon, and 9.72 to 44.38 per cent ash. A number of thin streaks and seams of coal occur in the sandstones and shales

The structure consists of a large flat syncline (equivalent to the west syncline at Camp Robertson) which trends roughly north northwest. The coal bearing strata strike north-northwest and dip approximately 85 degrees southwest on the east limb of the syncline. The high dips are local and probably due to faulting. A northwest trending dip-slip fault separates Queen Charlotte sediments from

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Middle Jurassic volcanics and sediments of the Yakoun Group immediately northeast of the deposit (GSC Open File 2319).

The strata are intruded by various sills and dikes.

The prospect, located on Anthracite creek, was discovered in 1898.

The opening is an adit on the right bank of the creek driven for 14 metres across the measures which strike north 32 degrees west, and dip 85 degrees southwest. A drift, 3.6 metres from the opening, goes 9 metres southeast in the seam.

A preliminary estimated of probable mineable reserves by Mackay for the Royal Commission on Coal, in 1946, was 4,064,000 tonnes.

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EMPR BULL 54, p. 177

EMPR COAL ASS RPT \*93

GSC ANN RPT 1904, Pt.B (Vol. 16), pp. 44

GSC MAP 1385A; 5-1990

GSC MEM \*69, pp. 141-158; \*88, pp. 17, 136-140

GSC OF 2319

GSC P 86-20; 88-1E, pp. 221-227; 89-1H; 90-10, pp. 253-277, 279-294; 91-1A, pp. 367-371

GSC SUM RPT \*1912, pp. 12-40

Report on the Royal Commission on Coal, pp. 51, 641, Ottawa, 1946

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 EVK
 FIELD CHECK:
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 DATE REVISED:
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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 015 NATIONAL MINERAL INVENTORY: 103F/8 Col 4

NAME(S): YAKOUN LAKE, TRILBY, CAMP TRILBY

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F08E BC MAP: UTM ZONE: 08 (NAD 83)

LATITUDE: 53 18 53 N LONGITUDE: 132 11 54 W ELEVATION: 300 Metres NORTHING: 5910760 EASTING: 686746

LOCATION ACCURACY: Within 500M

COMMENTS: The deposit is located in the Honna Basin near Yakoun Lake.

COMMODITIES: Coal

**MINERALS** 

SIGNIFICANT: Coal MINERALIZATION AGE: Cretaceous

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Fossil Fuel Stratabound

Syngenetic Sedimentary

TYPE: A05 Anthracite SHAPE: Irregular MODIFIER: Folded

COMMENTS: The structure consists of a narrow north northwest trending syncline,

which plunges north.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Queen Charlotte Haida

Lower Cretaceous Cretaceous Queen Charlotte Skidegate

LITHOLOGY: Coal

Shale Sandstone

GSC Paper 91-1A, pp. 367-371 and Open File 2319 suggest the host unit be referred to as the Cretaceous sandstone of the Queen Charlotte Grp. HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Anthracite

CAPSULE GEOLOGY

The showing is located at an elevation of 305 metres on Baddeck Creek, 4 kilometres east of Yakoun Lake. An adit was driven

south 60 degrees east for 15 metres across the measures.

Several thin seams of coaly material, less than 7.6 centimetres thick, occur interbedded with shale and shaly sandstone of the Cretaceous Queen Charlotte Group, Haida or Skidegate formations. The coal is an impure coked anthracitic material. The basin in which the coal occurs is a narrow north northwest trending syncline, with coal

exposures on both the southwest and northeast (Camp Trilby) limbs. The dips of the coal seams are steep. The syncline is partially covered by Tertiary volcanic flows.

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GSC MAP 1385A; 5-1990

GSC MEM \*69, pp. 149-150; \*88, pp. 17, 140-141

GSC OF 2319

P 86-20; 88-1E, pp. 221-227; 89-1H; 90-10, pp. 253-277, 279-294; 91-1A, pp. 367-371 GSC P 86-20; 88-1E,

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> MINFILE NUMBER: 103F 015

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 016

NATIONAL MINERAL INVENTORY: 103F/1 Col1

PAGE:

NORTHING: 5900786 EASTING: 683238

REPORT: RGEN0100

200

NAME(S): **SLATECHUCK** 

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands Underground MINING DIVISION: Skeena

NTS MAP: 103F01W BC MAP: UTM ZONE: 08 (NAD 83)

LATITUDE: 53 13 35 N LONGITUDE: 132 15 24 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: The deposit is located in the Honna Basin in the Slatechuck Valley in

the vicinity of Skidegate Inlet.

COMMODITIES: Coal

MINERALS
SIGNIFICANT: Coal MINERALIZATION AGE: Eocene

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Pollen

**DEPOSIT** 

CHARACTER: Stratiform Stratabound

CLASSIFICATION: Fossil Fuel TYPE: A05 An Syngenetic Sedimentary

Anthracite

SHAPE: Irregular

MODIFIER: Folded DIMENSION: 2 Faulted STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Locally faulting and folding (resulting in disturbed and crushed coal)

is intense. Thickness of coal seam.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Undefined Group STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation

DATING METHOD: Fossil MATERIAL DATED: Pollen

LITHOLOGY: Coal

Black Shale

Dating of pollen from coal float suggests an age of Lower Eocene to Lower Oligocene (Geological Survey of Canada Paper 90-10, p. 271). HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Anthracite

INVENTORY

ORE ZONE: SLATECHUCK REPORT ON: Y

> CATEGORY: Inferred YFAR: 1946

QUANTITY: 10160500 Tonnes

**GRADE** COMMODITY Coal Per cent 5.0000

COMMENTS: Grade of average volatile matter. REFERENCE: Royal Commission on Coal, 1946.

**CAPSULE GEOLOGY** 

Anthracite coal is exposed at Coal Creek and Slatechuck Creek. The coal occurs in three seams, A, B, and C which are 1.8 metres,  $\,$ 1.7 metres, and 1.5 metres thick respectively. The seams consist of alternating dull, crushed coal, shale, and anthracitic, black hard coal, with coal constituting approximately 50 to 75 per cent of the seam. The seams may be fault or fold repeats of a single

seam or horizon.

The coal is discontinuous and occurs in streaks and lenticles within a soft black carbonaceous shale of an unnamed shale unit of Lower Eocene to Lower Oligocene age (Unit Tsh, Geological Survey of Canada Paper 90-10, pages 31 to 50, Figure 9). Analyses of the coal indicate volatile matter contents ranging from 2.3 to 6.85 per cent, fixed carbon 57.23 to 90.8 per cent, ash 3.1 per cent to 29.49 (generally approximately 21 per cent), and sulphur 0.20 to 0.45 per The coal has been metamorphosed by dikes, sills and other volcanics.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The seams have been locally intensely folded and faulted. The degree of disturbance appears to decrease northwards towards Slatechuck Creek.

In 1912 an adit was driven for 222 metres across the coal measures by The British Pacific Coal Company, Limited. Reserves were estimated at 3,300,000 long tons. A 1912 sample was analyzed to contain water, 6.85 per cent; volatile matter, 5.43 per cent; fixed

contain water, 6.85 per cent; volatile matter, 5.43 per cent; fixed
carbon, 66.32 per cent; ash, 21.40 per cent; sulphur, 0.20 per cent.
 The brilliant hard, anthracitic looking material was analyzed to
contain water, 2.3 per cent; volatile matter, 3.8 per cent; fixed
carbon, 90.8 per cent; ash, 3.1 per cent.

A preliminary estimate of probable mineable reserves by Mackay for the Royal Commission on Coal, in 1946, was 10,160,500 tonnes.

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EMPR BULL 54, p. 177

EMPR COAL ASS RPT \*93

GSC MAP 1385A; 4-1990

GSC MEM \*69, pp. 141-158; \*88, pp. 17,121

GSC P 86-20; 88-1E, pp. 221-227; 89-1H, pp. 7-11, 70; 90-10, pp. 31-50, 271; 91-1A, pp. 367-371

GSC SUM RPT \*1912, pp. 12-40

Report on the Royal Commission on Coal, pp. 51,641, Ottawa, 1946

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 017

NATIONAL MINERAL INVENTORY: 103F/1 Col 2

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5900019

EASTING: 682599

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202

NAME(S): COWGITZ, BRITISH PACIFIC

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 13 11 N

LONGITUDE: 132 16 00 W ELEVATION: 450 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The deposit is located in the Honna Basin at Cowgitz.

COMMODITIES: Coal

**MINERALS** 

SIGNIFICANT: Coal MINERALIZATION AGE: Eocene

ISOTOPIC AGE: DATING METHOD: MATERIAL DATED: Pollen

**DEPOSIT** 

CHARACTER: Stratiform Stratabound

CLASSIFICATION: Fossil Fuel Syngenetic Sedimentary

TYPE: A05 A SHAPE: Irregular Anthracite

MODIFIER: Folded Faulted

DIMENSION: Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: The strata are almost vertical and faulting (or folding) producing repeats of the coal, is common. Thickness of coal seam.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

Eocene Undefined Group

LITHOLOGY: Coal Shale

Sandstone Iron Formation

Dating of pollen from coal float suggests an age of Lower Eocene to HOSTROCK COMMENTS:

Lower Oligocene (Geological Survey of Canada Paper 90-10, p.271).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Semi-Anthracite

INVENTORY

ORE ZONE: COWGITZ REPORT ON: Y

> CATEGORY: YEAR: 1912 Inferred

QUANTITY: 3250000 Tonnes

COMMODITY Per cent

COMMENTS: Grade of average volatile matter.

REFERENCE: Geological Survey of Canada, Summary Report 1912.

CAPSULE GEOLOGY

A single coal seam is present in an unnamed unit of Eocene to Oligocene age, interbedded with shale and sandstone (Unit Tsh, Geological Survey of Canada Paper 90-10, pages 31 to 50, Figure 9). The seam is lenticular (merging along strike into black shall and ironstone) and varies in thickness from 0 to 1.8 metres (average 0.9 metre). The seam is repeated by faulting so that at the Hooper workings two exposures of the seam, 0.76 metre and 0.15 metre thick, occur stratigraphically above the main seam. The coal is a bright The seam is lenticular (merging along strike into black shale and semi-anthracite.

The strata are close to vertical and faulting is common with local disturbances of the strata. The coal occurs in close proximity to the underlying volcanics.

A coal seam approximately 1.5 metres thick occurs on King Creek, 0.4 kilometre northeast of the Hooper Creek openings. The coal is anthracite and is fairly clean. The seam here occurs 152 metres above the base of the Haida Formation and may be a continuation of the Hooper Creek or Slatechuck (103F 016) seams. Dips are steep in

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

the area.

Analyses from the Cowgitz coals indicate volatile matter ranging from 4.77 to 8.14 per cent, fixed carbon 74.09 to 85.76 per cent, ash 6.69 to 14.16 per cent and sulphur 0.89 to 1.53 per cent. Work done includes three major adits, three short adits, three small shafts - a total of 335 metres of crosscutting and 152 metres of drifting on coal with only a few hundred tons of coal shipped. British Pacific Coal Company, Limited produced 32 tonnes in 1912. The showing, located at an elevation of 305 metres near the headwaters of Hooper creek in the vicinity of Skidegate inlet, was discovered in 1859.

In 1865, the showing was opened up along a 0.6-metre seam by the Queen Charlotte Coal Mining Company, Limited. The property was abandoned in 1872.

In 1912 the caved workings were examined by The British Pacific

Coal Company, Limited.
Analysis of the 0.6 metre seam showed: water 1.6 per cent, volatile matter, 5.02 per cent; fixed carbon, 83.09 per cent; ash 8.76 per cent; sulphur, 1.53 per cent; and a fuel ratio of 16.5. A preliminary estimate of probable mineable reserves by Mackay for the Royal Commission on coal, in 1946, was 3,3609000 tons.

Based on an average coal seam thickness of 1.8 metres (from at

least three different seams) underlying an area of 2.6 square kilometres, the coal reserve of the Cowgitz prospect is about 3.25 million tonnes (Geological Survey of Canada Summary Report 1912, page

#### RIRI IOGRAPHY

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 018

NATIONAL MINERAL INVENTORY: 103F1 Stn1

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204

NAME(S): SLATECHUCK CREEK

STATUS: Past Producer CREGIONS: British Columbia, Queen Charlotte Islands Open Pit MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 14 19 N NORTHING: 5902108 EASTING: 682222

LONGITUDE: 132 16 16 W ELEVATION: 150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The quarry is located north of Long Inlet on Slatechuck Creek, 2.0

kilometres from Kagan Bay.

Argillite COMMODITIES: Slate Pyrophyllite

**MINERALS** 

SIGNIFICANT: Kaolinite Montmorillonite Pyrophyllite

ASSOCIATED: Clay ALTERATION: Kaolinite MINERALIZATION AGE: Eocene Montmorillonite

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Pollen

**DEPOSIT** 

CHARACTER: Concordant Stratiform Stratabound Massive

CLASSIFICATION: Sedimentary Industrial Min. Syngenetic

GEMS AND SEMI-PRECIOUS STONES (diamonds under N) TYPE: Q

SHAPE: Tabular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Eocene **Undefined Group** Undefined Formation

DATING METHOD: Fossil MATERIAL DATED: Pollen

LITHOLOGY: Slate

Black Carbonaceous Slate

Argillite Siltstone Sandstone Pyrophyllite

HOSTROCK COMMENTS:

Pollen collected from coal float is dated between Lower Eocene to Lower Oligocene (Geological Survey of Canada Paper 90-10, p. 271).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

#### CAPSULE GEOLOGY

The quarry is located at an elevation of 152 metres near Slatechuck Creek, 2.4 kilometres from Kagan Bay in Skidegate Inlet. Before 1872, the quarry was excavated by the Haida Indians to a size 1.5 by 76 metres by 1.2 metres deep. Sometime later the mineral claim was Group granted. claim was Crown-granted. The Indians used the slate to carve and polish ornaments, pipes and musical instruments.

An 1872 assay of the black slate gave the following results: silica, 44.78 per cent; alumina, 36.94 per cent; peroxide of iron 8.46 per cent; lime, trace; magnesia, trace; water, 7.15 per cent; carbonaceous matter, 3.18 per cent.

In the early 1900's the slate was shipped by a Victoria company for manufacturing in Victoria.

This deposit of black carbonaceous slate is hosted in an unnamed unit of Eocene to Oligocene age, comprised mostly of shale (Unit Tsh, Geological Survey of Canada Paper 90-10, pages 31-50, Figure 9). The slate is part of a sequence of grey siltstone and fine sandstones, slightly metamorphosed, which appears to overlie an overturned anticline of the Honna Formation, not far from a faulted contact of the Masset Formation.

The slate occurs in lenticular patches up to 1 metre in thickness and 6 metres in length. With the slate, occur an abundance of flattened stems and leaves and many irregular small patches of anthracite. The slate is composed of silt-sized fragments of kaolinite and lesser montmorillonite in a macerated very fine carbonaceous clay matrix that forms 40 to 75 per cent of the rock. The rock has a hardness and a specific gravity of 2.88 to 2.89.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The slate or argillite is used by the Haidas for carving. The Haida Natives have a Crown-granted mineral claim centred on the  $\,$ quarry.

A study done by the British Museum showed the argillite specimen they examined to consist largely of pyrophyllite with some iron serpentine (Harding, 1989).

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GSC ANN RPT 1904, Vol. 16, Pt.B, pp. 29-31

GSC MAP 1385A; 4-1990

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GSC PROG RPT 1878-1879, p. 303; 1872-1873, pp. 61,62

GSC RPT #996, 1908, p. 54

CANMET RPT \*452, pp. 195,196

DATE CODED: 1986/06/04 DATE REVISED: 1999/09/17 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103F 018

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 019

NATIONAL MINERAL INVENTORY: 103F10 Prl3

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5953529

EASTING: 638867

REPORT: RGEN0100

206

NAME(S): **IRONSIDE MOUNTAIN** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F10W BC MAP:

LATITUDE: 53 42 49 N LONGITUDE: 132 53 51 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54). Iron Side Mountain is located northeast of Port Louis on Graham Island.

COMMODITIES: Perlite Volcanic Glass

**MINERALS** 

SIGNIFICANT: Perlite

ALTERATION: Pyrite Silica

COMMENTS: Gossanous area; alteration minerals are not indicated in text.

Silicific'n ALTERATION TYPE: Argillic Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratiform

CLASSIFICATION: Volcanogenic TYPE: R12 Volcan Syngenetic Industrial Min. Hydrothermal

Volcanic glass - perlite

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Masset

**Undefined Group** 

LITHOLOGY: Dacite Flow Rhyolite Flow Rhyolite Dacite

Rhyolite Breccia Dacite Breccia

HOSTROCK COMMENTS: Tartu Member, Unit TMfa (Geological Survey of Canada Map 7-1990).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The perlite occurrence is located south of Ironside Mountain,

2.4 kilometres northeast of Port Louise.

The area is underlain by sub-aerial dacitic to rhyolitic flows and/or domes, with minor breccias and pyroclastics of the Upper Oligocene to Lower Pliocene Masset Formation, which form a plateau volcanic sequence up to 5 kilometres thick dipping gently to the east.

Perlite occurs as a flow-like mass in rhyolite units of the Tartu Facies.

A large gossanous area has zones of argillic alteration, silicification, and pyritization which may reflect the presence of a subvolcanic intrusive. The area was staked in 1986 by City Resources as the Virgo claims and prospected in 1987. No economic mineralization or significant assays were reported (Assessment Report 17053).

**BIBLIOGRAPHY** EMPR ASS RPT 17053

EMPR BULL \*54, pp. 115,175 EMPR EXPL 1979-250,251; 1980-540

EMPR FIELDWORK 1989, pp. 485-486 GSC MAP 1385A; 7-1990

GSC P 86-20; 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79; 90-10,

pp. 305-324

DATE CODED: 1986/06/04 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/02/15 REVISED BY: GJP FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Industrial Min.

STRIKE/DIP:

MINFILE NUMBER: 103F 020

NATIONAL MINERAL INVENTORY: 103F10 Prl2

Hydrothermal

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5952822 EASTING: 646136

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

207

NAME(S): COATES CREEK, SEAVIEW

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F10W BC MAP:

LATITUDE: 53 42 19 N LONGITUDE: 132 47 16 W ELEVATION: 450 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Figure 3 (Assessment Report 6926).

COMMODITIES: Perlite Volcanic Glass

**MINERALS** 

SIGNIFICANT: Perlite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Mass CLASSIFICATION: Volcanogenic Syng TYPE: R12 Volcanic glass - perlite Massive Syngenetic

SHAPE: Regular DIMENSION: 400 x 100 x 50

Metres

COMMENTS: Southern body.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary GROUP

**Undefined Group** 

**FORMATION** Masset

LITHOLOGY: Dacite Flow

Dacite Rhyolite Flow Rhyolite Rhyolite Breccia

Dacite Breccia

HOSTROCK COMMENTS: Tartu Member, Unit TMfa (Geological Survey of Canada Map 7-1990).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

The perlite occurrence is located at the headwaters of Coates Creek,  $10\ \text{kilometres}$  west of Port Louis.

The area is underlain by sub-aerial dacitic to rhyolitic flows/domes, breccias and pyroclastics of the Upper Oligocene to Lower Pliocene Masset Formation, which form a plateau volcanic

Lower Filocene masset Formation, which form a plateau volcanic sequence up to 5 kilometres thick dipping gently to the east.

Perlite occurs as a flow-like mass in rhyolite units of the Tartu Facies. The perlite is a "pearly" lustered acidic to subacidic volcanic glass with a deep blue "serpentinitic" appearance on fresh surface and grey to brown-black on weathered surface.

The perlite forms two possibly unconnected bodies. The southern body strikes north-south for 400 metres and is 100 metres thick and

body strikes north-south for 400 metres and is 100 metres thick and 50 metres wide. The northern body, 250 metres long, 100 metres wide, and about 100 metres thick, strikes east-west.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6926 EMPR BULL 54, pp. 115,175

EMPR FIELDWORK 1989, pp. 485-486; 1997, pp. 19-1-19-14 GSC MAP 1385A; 7-1990

GSC P 86-20; 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79; 90-10,

CODED BY: LDJ DATE CODED: 1986/06/04 FIELD CHECK: N DATE REVISED: 1988/12/02 REVISED BY: JNR FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 021

NATIONAL MINERAL INVENTORY: 103F/10 Prl1

PAGE:

UTM ZONE: 08 (NAD 83)

REPORT: RGEN0100

208

NAME(S): SKELU BAY

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F10W BC MAP:

LATITUDE: 53 32 09 N NORTHING: 5933817 EASTING: 641569

LONGITUDE: 132 51 56 W ELEVATION: 600 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54). Located north of Skelu Bay, Graham

COMMODITIES: Perlite Volcanic Glass

MINERALS
SIGNIFICANT: Perlite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Massive Industrial Min.

Syngenetic Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Masset

Undefined Group

LITHOLOGY: Dacitic Flow Dacite

Rhyolite Flow Rhyolite Dacite Pyroclastic Rhyolite Pyroclastic

HOSTROCK COMMENTS: Tartu Member, Unit TMf (Geological Survey of Canada Map 7-1990).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The perlite occurrence is located 1.6 kilometres north of

Skelu Bay.

The area is underlain by a series of sub-aerial dacite to rhyolite flows, domes and pyroclastics of the Upper Oligocene to Lower Pliocene Masset Formation. This plateau volcanic sequence is up to 5 kilometres thick and dips gently to the north-east. Perlite occurs as a flow-like mass in rhyolite units of the Tartu

Facies.

**BIBLIOGRAPHY** 

EMPR BULL 54, pp. 115,175

EMPR FIELDWORK 1989, pp. 485-486; 1997, pp. 19-1-19-14 GSC MAP 1385A; 7-1990

GSC P 86-20; 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79; 90-10,

DATE CODED: 1986/06/04 DATE REVISED: 1988/12/02 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Industrial Min.

MINFILE NUMBER: 103F 022

NATIONAL MINERAL INVENTORY: 103F9 Prl1

Hydrothermal

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5938836 EASTING: 674133

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

209

NAME(S): BLACKWATER PERLITE, BLACKWATER CREEK

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F09W

BC MAP:

LATITUDE: 53 34 10 N LONGITUDE: 132 22 13 W ELEVATION: 95 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location from Site 2, Figure 5-1-6 (Geological Fieldwork 1989, page

COMMODITIES: Perlite Volcanic Glass

MINERALS
SIGNIFICANT: Perlite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Massive

CLASSIFICATION: Volcanogenic Syng TYPE: R12 Volcanic glass - perlite Syngenetic

TYPE: R12 V SHAPE: Irregular

STRIKE/DIP: 180/65E DIMENSION: 85 TREND/PLUNGE: Metres

**FORMATION** 

Masset

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary GROUP

**Undefined Group** 

LITHOLOGY: Basaltic Flow

Andesite Flow Felsic Flow Pyroclastic Basalt Andesite

HOSTROCK COMMENTS: Tartu Member, Unit TMm (Geological Survey of Canada Map 6-1990).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

The perlite occurrence is located on the south side of Blackwater Creek,  $6.5\ \text{kilometres}$  south of Juskatla Inlet.

The area is underlain by a sequence of basalts, andesites and

minor felsic flows, pyroclastics and interflow breccias of the Upper Oligocene to the Lower Pliocene Masset Formation. This unit forms a

plateau volcanic sequence dipping gently to the northwest.

Medium grey to black perlite crops out for 85 metres along the roadcut immediately northeast of bridge Q9 over Blackwater Creek.

The bed strikes north and dips 65 degrees east. Samples tested with a hand-held propane torch expanded to several times their volume (Geological Fieldwork 1989, page 486). A sample tested by CANMET exhibited the following characteristics (Geological Fieldwork 1990, pages 265 to 267):

Per cent weight loss when heated to 800 degrees Celsius:

Softening temperature (degrees Celsius): 1240-1270

Density before heating to softening temp. (kg per cubic metres): 2370 Density after heating to softening temp. (kg per cubic metre): 450

**BIBLIOGRAPHY** 

EMPR ASS RPT 17083

EMPR BULL \*54, p. 175
EMPR FIELDWORK \*1989, pp. 485, 486; \*1990, pp. 265-267; 1997, pp.

19-1-19-14

GSC MAP 1385A

GSC P 86-20; 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79; 90-10,

pp. 305-324

DATE CODED: 1986/06/04 CODED BY: LDJ DATE REVISED: 1999/09/20 REVISED BY: PSF

MINFILE NUMBER: 103F 022

FIELD CHECK: N

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 023

NATIONAL MINERAL INVENTORY: 103F9 Prl2

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5932109 EASTING: 681996

PAGE:

REPORT: RGEN0100

210

NAME(S): GOLD CREEK, CANOE CREEK

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F09W BC MAP:

LATITUDE: 53 30 29 N LONGITUDE: 132 15 26 W ELEVATION: 150 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 and Figure 5, Sheet C (Bulletin 54). Located east

of Marie Lake, Graham Island.

COMMODITIES: Perlite Volcanic Glass

MINERALS
SIGNIFICANT: Perlite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Massive

CLASSIFICATION: Volcanogenic Sync TYPE: R12 Volcanic glass - perlite Syngenetic Industrial Min. Hydrothermal

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary **GROUP** IGNEOUS/METAMORPHIC/OTHER **FORMATION** Undefined Group Masset

LITHOLOGY: Basaltic Flow Basaltic Breccia

Rhyolite Flow Rhyolite

HOSTROCK COMMENTS: Tartu Member, Unit TMm (Geological Survey of Canada Map 6-1990).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

The perlite occurrence is located 1.6 kilometres north of the junction of Gold Creek and the Yakoun River.

The north side of Gold Creek, between Marie Lake and its confluence with the Yakoun River, 4.5 kilometres to the east, underlain by sediments and volcanics of the Middle Jurassic Yakoun Group. These rocks are overlain by basaltic to felsic flows and lesser pyroclastics of the Upper Oligocene to Lower Pliocene Masset Formation.

Perlite is reported to occur in rhyolite of the Masset Formation on the steep north slope of Gold Creek, 1.1 kilometres northwest of its confluence with the Yakoun River (Bulletin 54).

Several large boulders of medium grey perlite, three to five

metres across, occur along MacMillan Bloedel's mainline logging road just north of Gold Creek, 1.6 kilometres southwest of the previously described occurrence and 1.9 kilometres west of Gold Creek's confluence with the Yakoun River (Site 5, Geological Fieldwork 1989, page 486). Samples heated with a hand-held propane torch expanded (Coological Fieldwork 1989, page 486). (Geological Fieldwork 1989, page 486). Additional testing by CANMET indicated the following characteristics (Geological Fieldwork 1990, pages 265 to 267):

Per cent weight loss when heated to 800 degrees Celsius: 7.9 Softening temperature (degrees Celsius): 12 Density after heating to softening temp. (kg per cubic metre): 1235-1270

**BIBLIOGRAPHY** 

EMPR ASS RPT 14540 EMPR BULL 54, p. 175 EMPR EXPL 1985-C364 EMPR FIELDWORK \*1989, pp. 485, 486; \*1990, pp. 265-268; 1997, pp. 19-1-19-14 GSC MAP 1385A; 6-1990 GSC OF 2319 GSC P 86-20; 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79; 90-10, RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

pp. 305-324

DATE CODED: 1986/06/04 DATE REVISED: 1999/09/21 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103F 023

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 024

NATIONAL MINERAL INVENTORY: 103F9 Bnt1

PAGE:

NORTHING: 5939239 EASTING: 674171

REPORT: RGEN0100

212

NAME(S): BLACKWATER CREEK

STATUS: Showing CREGIONS: British Columbia, Queen Charlotte Islands Open Pit MINING DIVISION: Skeena

NTS MAP: 103F09W BC MAP: UTM ZONE: 08 (NAD 83)

Industrial Min.

LATITUDE: 53 34 29 N LONGITUDE: 132 22 16 W ELEVATION: 150 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54).

COMMODITIES: Bentonite

**MINERALS** 

SIGNIFICANT: Bentonite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Volcanogenic
TYPE: E06 Bentonite Stratabound Syngenetic

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Tertiary **Undefined Group** Masset

LITHOLOGY: Rhyolite

Basaltic Flow Basaltic Breccia Rhyolite Flow Basalt

HOSTROCK COMMENTS: Tartu Member, Unit TMm (Geological Survey of Canada Map 6-1990).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

CAPSULE GEOLOGY

The showing is located at an elevation of 152 metres on the north side of Blackwater Creek, 6.4 kilometres southwest of Juskatla.

A quarry was opened to obtain material for road construction but the material proved unsatisfactory for that purpose.

The area is underlain by a series of sub-aerial basaltic and andesitic flows with minor felsic flows and pyroclastics of the Upper Oligocene to Lower Pliocene of the Masset Formation, which form a plateau volcanic sequence up to 5 kilometres thick dipping gently to the northwest.

Bentonite occurs with rhyolite of the Tartu Facies (Bulletin 54). The area was staked in 1986 by City Resources as the Linda claims, and prospected in 1987. No economic mineralization or significant assays were reported (Assessment Report 17083).

**BIBLIOGRAPHY** 

EMPR ASS RPT 17083 EMPR BULL \*54, p. 176 EMPR FIELDWORK 1997, 19-1-19-14 GSC MAP 1385A; 6-1990

GSC P 86-20; 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79;

90-10 pp. 305-324

DATE CODED: 1986/06/04 DATE REVISED: 1989/02/15 CODED BY: LDJ REVISED BY: GJP FIELD CHECK: N FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 025

NATIONAL MINERAL INVENTORY: 103F9 Dtm1

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5939057 EASTING: 688729

REPORT: RGEN0100

213

NAME(S):  $\frac{\textbf{SKONUN MARINE DIATOMITE}}{\textbf{YAKOUN RIVER}} \text{ SKONUN DIATOMITE, DRILLSKID ROAD,}$ 

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F09E

BC MAP:

LATITUDE: 53 33 59 N LONGITUDE: 132 09 00 W

ELEVATION: 25 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on sample site 3 on the east bank of the Yakoun River, 2.5 kilometres west-southwest of New Year Lake and 13 kilometres

south-southeast of Port Clements (Assessment Report 25676, Figures 4,

COMMODITIES: Diatomite

**MINERALS** 

SIGNIFICANT: Diatomite MINERALIZATION AGE: Miocene

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Marine bivalves

DEPOSIT

CHARACTER: Unconsolidated Stratabound

CLASSIFICATION: Sedimentary TYPE: F06 Lacus Syngenetic Industrial Min.

Lacustrine diatomite

SHAPE: Tabular

DIMENSION: 4 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Thickness of bed. Marine bivalves from exposures on the Yakoun River

are dated as Late Miocene. Diatomite is of marine origin.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Skonun

**Undefined Group** Miocene

DATING METHOD: Fossil

MATERIAL DATED: Marine bivalves.

LITHOLOGY: Diatomaceous Shale

Diatomaceous Clay Shale Silty Shale

Sandy Shale

HOSTROCK COMMENTS: Marine bivalves from the Yakoun River are dated as Late Miocene

(Assessment Report 25676, page 10).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

CAPSULE GEOLOGY

Diatomite-bearing sediments of the Skonun Formation outcrop along the Yakoun River, 2.5 to 3 kilometres west-southwest of New Year Lake and about 13 kilometres south of Port Clements.

Clastic sediments of the Tertiary Skonun Formation underlie a broad region of low relief comprising the Queen Charlotte Lowland on northeastern Graham Island. To the west, the sediments are separated from Tertiary and older volcanics underlying hilly and mountainous terrain of the Queen Charlotte Ranges by the northwest trending Sandspit fault.

The showing is hosted in a sequence of recessive, poorly indurated sandstones and shales of the Miocene Upper Skonun Formation (unit 2, Geological Survey of Canada Paper 90-10, pages 337-371). This sequence is interpreted to have been deposited in a tidedominated shallow marine shelf environment (Geological Survey of Canada Paper 90-10, Assessment Report 25676).

Six shale samples collected at a river-side cliff exposure and at several roadcuts 600 metres southwest and 700 metres south-southwest of the river exposure contained trace too abundant diatom fragments. Three samples of light grey very porous shale, medium grey extremely porous, well-indurated silty shale and medium grey very porous, sandy-silty shale from the three sites contained abundant mesh patterned diatom fragments up to 0.06 mm in size. The thickness of these diatom-bearing horizons has not been determined

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

but one bed of diatomaceous clay occurring in the vicinity was previously reported to be 3 to 4 metres thick.

Absorption tests on three samples ranged from 0.52 to 0.81 millilitres per gram for water. One sample also tested 0.55 millilitres per gram for oil absorption (Assessment Report 25676, Appendix 3, Table 1).

This occurrence was sampled and prospected by Homegold Resources Ltd. in 1997.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*25676 EMPR BULL 54, p. 176 EMPR FIELDWORK 1997, 19-1-19-14

GSC MAP 1385A; 6-1990 GSC OF 2319

GSC P 86-20; 88-1E, pp. 221-227; 89-1H, pp. 87-94; \*90-10, pp. 337-371

DATE CODED: 1986/06/04 DATE REVISED: 1999/11/06 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103F 025

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REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 026

NATIONAL MINERAL INVENTORY: 103F16 Au1

PAGE:

REPORT: RGEN0100

215

NAME(S): BLUE JACKET CREEK, MASSET SOUND, BLACK SANDS

STATUS: Past Producer Open Pit MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F16E UTM ZONE: 08 (NAD 83)

BC MAP:

LATITUDE: 53 59 39 N NORTHING: 5986477 EASTING: 687552

LONGITUDE: 132 08 26 W ELEVATION: 5 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54). Located just south of Masset, on

Masset Sound.

Quartz

COMMODITIES: Gold Platinum Iron Titanium 7irconium

**MINERALS** 

SIGNIFICANT: Gold **Platinum** Magnetite Ilmenite Zircon Titanite

ASSOCIATED: Rutile Hematite Garnet **Epidote** Staurolite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Placer Industrial Min.

TYPE: C03 Marine placers

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE QROUP Quaternary IGNEOUS/METAMORPHIC/OTHER FORMATION Unnamed/Unknown Informal

LITHOLOGY: Unconsolidated Sandstone

Člay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

TERRANE: Overlap Assemblage

INVENTORY

ORE ZONE: CONCENTRATE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1929

SAMPLE TYPE: Rock

COMMODITY Gold **GRADE** 20.6000 Grams per tonne **Platinum** 68,6000

Grams per tonne COMMENTS: The sample was assayed from concentrates. REFERENCE: Minister of Mines Annual Report 1929.

**CAPSULE GEOLOGY** 

The gold-bearing black sands of northeast Graham Island have been known since 1877. The Blue Jacket Creek sands are located 1.6kilometres south of Masset, on Masset Sound.

In 1923 a gold-washing plant with a capacity of 30 yards per hour was installed; values were estimated at 80 cents per yard. Registered in 1924, P.B.C. Mines Co., with a capital of \$759,000 held 7 hydraulic leases. The company carried out placer operations from March to October and conducted concentration and fire assay tests to determine average gold content. Graham Island Mining Co., Limited was incorporated in 1926 to acquire 5 leases covering an area of 2286 by 5791 metres of beach. A 10 ton chemical testing plant was installed on the property. From a 48 ton sample, sorted from 72 tons of sand from various pits in the area, a recovery of \$76 in gold or \$1.06 a ton was obtained. By 1928, the company had dug and sampled 56 test pits; the best sample assayed 0.6 ounces of gold and 2 ounces

of platinum per ton.

Mogul Mining Corporation Limited in about 1956 acquired placer mining leases covering about 17 square kilometres. In June 1957 Lexindin Gold Mines, Limited, acquired from Mogul a 65 per cent interest in the property. Beach sand and cyanide tailings samples were sent to the Mines Branch, Ottawa in December 1956 and June 1957. A sample of concentrates returned 20.6 grams per tonne gold and 68.6

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

grams per tonne platinum (Annual Report 1929). Pleistocene to Recent deposits of unconsolidated to semiconsolidated sands, clays, sandy clays, gravels, conglomerates, and a basal blue-grey glacial clay overlie Tertiary Skonun Formation.

Black sand deposits have a lenticular and varying distribution along the base of bordering beach-bluffs. The black sands, derived from the erosion of the bluffs and subsequent concentration by wave and wind action, contain magnetite, titaniferous-hematite, ilmenite, rutile, zircon, gold, and platinum.

The black sands occur in lenses 2 to 30 centimetres thick, 6 metres wide and 152 metres long. A sample of the beach sands assayed 23.9 per cent magnetite, 38.8 per cent hematite and ilmenite, 15.0 per cent garnet, 11.2 per cent quartz and feldspar, 3.6 per cent altered silicates, 3.0 per cent hornblende, 2.0 per cent epidote, 1.2 per cent zircon, 0.9 per cent staurolite, 0.3 per cent titanite, and 0.1 per cent rutile (Economic Geology Report 25).

#### **BIBLIOGRAPHY**

EM FIELDWORK 2001, pp. 303-312 EM GEOFILE 2000-2; 2000-5 EMPR AR 1923-41; 1924-43; \*1929-65; 1932-39; 1933-40 EMPR BULL 1 (1933), pp. 24-25; 2(1930), pp.28-31; \*54, p. 174 EMPR PF (Various Reports on Black Sands)
EMR MP CORPFILE (The Queen Charlotte Islands Collieries, Limited; Tretheway-Tough Mining Syndicate, Limited; Graham Island Mining Co., Limited)
GSC EC GEOL 25, p. 131 GSC MAP 278A; 1385A GSC MEM 88, pp. 173,174 GSC P 86-20; 88-1E; 89-1H; 90-10 B.C. MINER Nov. 1933, pp. 714-718 CANMET IR No. MD 3177, Oct. 1957 CMJ Apr.11, 1924; Nov.6,Oct.18,20, 1925; Nov.28, 1924, p. 1165 Western Canada Mining News: July 10, 1931

DATE CODED: 1986/06/03 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N DATE REVISED: 1988/12/06 FIELD CHECK: N

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 027

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5945377

EASTING: 672841

REPORT: RGEN0100

217

NAME(S): DOME HARRISON ISLAND

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F09W BC MAP:

LATITUDE: 53 37 49 N

LONGITUDE: 132 23 16 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Trachyte, Sketch 1, 3 (Assessment Report 7111). Southwest end of

Harrison Island, Juskatla Inlet.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite Marcasite Gold

ASSOCIATED: Quartz

Jarosite

ALTERATION: Silica ALTERATION TYPE: Silicific'n Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Breccia CLASSIFICATION: Epithermal Hydrothermal **Epigenetic** 

TYPE: H03 Hot spring Au-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** Tertiary

Undefined Group Masset

LITHOLOGY: Trachyte

Rhyolite Tuff

HOSTROCK COMMENTS: Tartu Member, Unit TMfa (Geological Survey of Canada Map 6-1990).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

**CAPSULE GEOLOGY** 

The southwest end of Harrison Island is underlain by Mid-Tertiary Masset Formation rocks consisting of rhyolite tuffs and a unit of porous, chalky-white weathering, light grey trachyte. The trachyte, exposed for 100 metres, is silicified and heavily fractured in some areas. The fractures are coated with jarosite and fine pyrite. A possible 60 degree fault cuts the volcanics. Randomly distributed in the trachyte are fractures and

brecciated areas with blue-grey chalcedonic quartz, fine pyrite,

marcasite, and traces of free gold.

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90-10, pp. 305-324

DATE CODED: 1986/06/12 CODED BY: LDJ FIELD CHECK: N REVISED BY: JNR DATE REVISED: 1988/12/06 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 028

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5879607 EASTING: 684386

REPORT: RGEN0100

218

NAME(S): **SECURITY (AB)**, OP, AB,

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F01W

BC MAP:

LATITUDE: 53 02 09 N
LONGITUDE: 132 15 06 W
ELEVATION: 670 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Sample location (CS-1), Figure 5C (Assessment Report 11084).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite

ASSOCIATED: Quartz
ALTERATION: Chlorite
ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

Carbonate Silica

Carbonate

Silicific'n

**DEPOSIT** 

CHARACTER: Vein Disseminated Stockwork Breccia

CLASSIFICATION: Hydrothermal Epithermal Epigenetic

TYPE: HÓ5 Epithermal Au-Ag: low sulphidation SHAPE: Irregular

MODIFIER: Faulted

DIMENSION: 1400 x 10 COMMENTS: Quartz vein. Metres STRIKE/DIP: 020/90 TREND/PLUNGE:

**HOST ROCK** DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Vancouver Upper Triassic Karmutsen

LITHOLOGY: Amygdaloidal Basalt Pillow Basalt

Basaltic Dike Porphyritic Dike Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1982 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY 17.7000 Gold Grams per tonne

COMMENTS: The sample width is 1 metre. REFERENCE: Assessment Report 11084.

CAPSULE GEOLOGY

The AB zone is underlain by pillowed and massive submarine basalts of the Vancouver Group, Upper Triassic Karmutsen Formation, which has undergone low grade greenschist regional metamorphism. Subaerial amygdaloidal basalt flows lie to the south of the area. The basalts are cut by numerous north trending basalt and feldspar porphyry dikes.

A large quartz breccia and stockwork of veins, up to 10 metres wide, strike northerly continuously for 600 metres and intermittently for 1400 metres. The quartz veins are localized by dominant north-northeast faults and subordinant north-northwest faults. faults and quartz veins are offset by a younger set of northeast to east trending faults.

Basalts adjacent to both orientations of faults are often chloritized and carbonatized as is the wallrock adjacent the quartz veins.

Gold is associated exclusively with the quartz veins. Pyrite

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

and minor arsenopyrite occur as disseminations and vein and fracture fillings.

Gold values are generally isolated and only locally continuous. A quartz breccia and stockwork zone assayed 10.8 grams per tonne gold over 1 metre, a sample 400 metres to the northeast assayed 17.7 grams per tonne gold over 1 metre, and a sample 300 metres to the northwest assayed 15.2 grams per tonne gold (Assessment Report 11084).

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EMPR FIELDWORK 1997, pp. 19-1-19-14

EMPR PF (Prospectus, Englefield Resources Ltd., April 1987) GSC MAP 1385A

GSC P 86-20; 88-1E; 89-1H; 90-10

Chevron File

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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UTM ZONE: 08 (NAD 83)

NORTHING: 5878343 EASTING: 683689

REPORT: RGEN0100

220

NAME(S): **SECURITY (OVERPROOF)**, OP, OVERPROOF,

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F01W

BC MAP:

LAHIUDE: 53 01 29 N LONGITUDE: 132 15 46 W ELEVATION: 240 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: High grade sample location (H1270), Figure 3 (Assessment Report 7763).

Located northwest of Hastings Point, Inskip Channel. "A" zone from

Assessment Report 16449.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Arsenopyrite

ALTERATION: Silica Tourmaline **Epidote** Sericite Calcite

Hematite ALTERATION TYPE: Silicific'n Tourmalinz'n **Propylitic** Oxidation

MINERALIZATION AGE: Unknown

DEPOSIT CHARACTER: Vein Stockwork Disseminated

CLASSIFICATION: Hydrothermal Epithermal **Epigenetic** TYPE: H05 Epithermal Au-Ag: low sulphidation

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Vancouver Karmutsen Upper Triassic Sadler Kunga

LITHOLOGY: Limestone

Basalt

Rhvolite Dike Rhyolite Flow Black Argillite Pillow Basalt Rhyolite

HOSTROCK COMMENTS: Kunga Formation reclassified as Kunga Group (Geological Survey of

Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: VEINLET REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1982

SAMPLE TYPE: Rock

**COMMODITY** Gold 13.2000 Grams per tonne

COMMENTS: The sample was taken from a thin quartz veinlet.

REFERENCE: Assessment Report 8405.

**CAPSULE GEOLOGY** 

The Overproof showing is underlain by subaerial, massive and amygdaloidal basalt flows of the Vancouver Group, Upper Triassic Karmutsen Formation, which have undergone low grade greenschist regional metamorphism. Interbeds of black argillites and limestone occur at lower elevations within the Karmutsen Formation. A sedimentary succession of limestone and argillite of the Triassic to Jurassic Kunga Group occur as down dropped blocks underlying the southern portions of the property. Submarine pillow and massive basalts lie north of the area. Rhyolite dikes and flow banded sheets intrude the rocks.

Several north trending quartz veins, associated with dikes and

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

faults, carry gold mineralization with disseminated and fracture filled pyrite and minor arsenopyrite. Common alteration includes silicification, chloritization, epidotization, hematization, and tourmaline.

A quartz vein cutting massive grey limestone of the Upper Triassic Sadler Formation (Kunga Group) assayed 44.6 grams per tonne gold (Assessment Report 9830) and thin quartz veinlets cutting limestone with interbedded argillite assayed 13.2 grams per tonne gold (Assessment Report 8405).

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GSC MAP 1385A

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90-10 pp. 163-172, 465-487

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NATIONAL MINERAL INVENTORY: 103F8 Cu2

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NORTHING: 5915197

EASTING: 668027

REPORT: RGEN0100

222

NAME(S): NRM, BIDIUK COPPER

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F08W

UTM ZONE: 08 (NAD 83) BC MAP:

LATITUDE: 53 21 39 N LONGITUDE: 132 28 36 W ELEVATION: 15 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Survey area (Assessment Report 2015). Located near the shore on the

northern side of Shields Bay, Rennel Sound.

COMMODITIES: Copper

MINERALS
SIGNIFICANT: Bornite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia

CLASSIFICATION: Skarn Replacement

TYPE: K01 C SHAPE: Irregular Cu skarn

DIMENSION: 9 x 6 STRIKE/DIP: TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Upper Triassic Vancouver Karmutsen

San Christoval Plutonic Suite Jurassic

ISOTOPIC AGE: 147 +/- 8 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Hornblende

LITHOLOGY: Skarn

Amygdaloidal Andesite Amygdaloidal Basalt Quartz Diorite Sediment/Sedimentary

HOSTROCK COMMENTS: Age date from the nearby West Kano pluton of the San Christoval

Plutonic Suite (Geological Survey of Canada Paper 90-10, p. 62, Fig.1)

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The showing is located on the northeast side of Shields Bay,

south of Riley Creek.

A volcanic-sedimentary sequence of rock of probable Upper Triassic Karmutsen Formation, Vancouver Group, are intruded to the west by quartz diorite of the Middle to Late Jurassic San Christoval Plutonic Suite. Dark green, structureless amygdaloidal andesites and basalts lie east of the northeast trending intrusive contact.

Irregular pods of bornite and minor chalcopyrite occur in a brecciated skarn within sediments. The mineralized zone is 6 to 9 metres wide and trends 110 degrees from the contact with the quartz diorite.

In 1969 Nikamor Bidiuk held the NRM 1 to 12 claims. Magnetometer and electromagnetic surveys were made on the NRM 3 and

4 claims. Misty Mountain Gold Ltd. completed airborne, radiometrics, resistivity, magnetometer surveys over the prospect in 1995, while exploring a large block of claims adjacent to the showing.

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GSC MAP 1385A; 5-1990

GSC OF 2319

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**BIBLIOGRAPHY** 

Falconbridge File

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MINFILE NUMBER: 103F 030

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 031

NAME(S): MINO

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F08E BC MAP:

LATITUDE: 53 22 19 N

LONGITUDE: 132 00 36 W ELEVATION: 120 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of sulphide zone, north central Mino #8 (not confirmed).

COMMODITIES: Copper Molybdenum 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown Molybdenite Sphalerite Galena Pyrite

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal TYPE: \* Unknown Unknown

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE

Middle Jurassic Jurassic

GROUP Yakoun

ISOTOPIC AGE: 159 +/- 10 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: hornblende

LITHOLOGY: Andesite

Hornfels Granodiorite Quartz Diorite

Sediment/Sedimentary

HOSTROCK COMMENTS: Age date of the Chinukundl Pluton (Geological Survey of Canada Paper

90-10, page 74, Table 3).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell METAMORPHIC TYPE: Contact

RELATIONSHIP: GRADE: Hornfels

CAPSULE GEOLOGY

The showing is located at an elevation of 152 metres just east of the Tlell River.

**FORMATION** 

Undefined Formation

The area is underlain by Middle Jurassic Yakoun Group andesites which are intruded by granodiorite and quartz diorite of the Chinukundl Pluton of the Middle to Late Jurassic Burnaby Island Plutonic Suite. The northwest trending Sandspit fault separates these rocks and the poorly consolidated sediments of the Tertiary Skonun Formation which lie to the northeast.

Disseminated pyrite with minor chalcopyrite, molybdenite, sphalerite, and galena occur within infaulted wedges of sheared and hornfelsed Yakoun Group rocks, and within the intrusive rocks where north trending faults are favoured.

In 1968 MINO 1 to 78 claims were owned by E. Specogna, and G. Trinco. Falconbridge Nickel Mines Limited surveyed the Mino 1, 2, 5  $\,$ and 6 claims with a soil sample and magnetometer survey. Silt samples were taken over the entire group for geochemical analysis. In 1969 the company collected 3500 soil and 1,000 silt samples in the vicinity of Tlell River and north of lower Millar Creek for geochemical analysis. They also blasted 20 trenches for a total length.of 152.4 metres and 30 shallow pits.

In 1970, Adanac Mining and Exploration Ltd. optioned Mino 1 to 124, Nadisa 1 to 14, Lucia 1 to 24, Tania 1 to 6, .and Carol 1 to 6 a total of 174 claims. The company also staked Aida 1 to 70. Work included surface geological mapping on Mino 1, 2, 5, 6, and 49 and surface diamond drilling of 2 holes totalling 155 metres on Mino 1

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NATIONAL MINERAL INVENTORY: 103F8 Cu3

I ead

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5917633

EASTING: 699022

IGNEOUS/METAMORPHIC/OTHER

Burnaby Island Plutonic Suite

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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GSC MAP 1385A GSC OF 2319 GSC P 67-2, Part A; 86-20; 88-1E, pp. 214-216, 221-227; 89-1H, pp. 95-112; 90-10, pp. 59-87; 91-1A, pp. 353-358

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 032

NATIONAL MINERAL INVENTORY: 103F7 Cu1

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5912582

EASTING: 654790

REPORT: RGEN0100

226

NAME(S): BRENDAR, CONE HEAD, BEV

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F07E BC MAP:

LATITUDE: 53 20 29 N

LONGITUDE: 132 40 36 W ELEVATION: 380 Metres LOCATION ACCURACY: Within 500M

COMMENTS: High grade sample, Figures 5a, 5b (Assessment Report 10280).

COMMODITIES: Gold Copper Molybdenum

**MINERALS** 

Molybdenite Pyrite Arsenopyrite Pyrrhotite

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Tourmaline

ALTERATION: Carbonate Sericite Tourmaline

ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown Sericitic Tourmalinz'n

**DEPOSIT** 

Breccia Vein Disseminated

CHARACTER: Stockwork CLASSIFICATION: Hydrothermal TYPE: L04 Porph Porphyry Epigenetic

Porphyry Cu ± Mo ± Au

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

TRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER San Christoval Plutonic Suite

Middle Jurassic

ISOTOPIC AGE: 147 +/- 8 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Hornblende

Kano Plutonic Suite Tertiary

, ISOTOPIC AGE: 32.2 +/- 1.0 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Quartz Monzonite

Breccia Granodiorite Andesite Dike Felsic Dike Andesite

HOSTROCK COMMENTS: Jurassic age date of the West Kano Pluton (GSC Paper 90-10, page 62,

Figure 1). Tertiary age date: GSC Paper 89-1H, page 109.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

REPORT ON: N

INVENTORY

ORE ZONE: SAMPLE

YFAR: 1982

CATEGORY: Assay/analysis SAMPLE TYPE: Rock

**COMMODITY** Gold 27.0000 Grams per tonne

REFERENCE: Assessment Report 10280.

CAPSULE GEOLOGY

The showing is located near the centre of the peninsula between Rennell Sound and Kano Inlet at an elevation between 61 and 610

metres.

In 1970 Texas Gulf Sulphur Company carried out topographic mapping, surface geology mapping, a geochemical silt survey of 100

samples covering Bev 1 to 14.

The area is underlain by granodiorite of the Middle Jurassic West Kano Batholith, (San Christoval Plutonic Suite) intruded by a Tertiary quartz monzonite porphyry stock ("Cone Head stock") which is probably corellative with the Central Kano Pluton (Kano Plutonic Suite). The rocks are cut by andesite dikes, felsite dikes, and intrusive breccia "pipes".

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Quartz-tourmaline veinlets occur along fractures, predominantly in felsite and primarily as a stockwork.

Mineralization is spacially associated with the porphyry stock and appears to be structurally controlled. Chalcopyrite, molybdenite, pyrrhotite, and pyrite occur along quartz-sericite fracture planes and arsenopyrite is most frequent along faults or within adjacent calcareous rocks.

Gold mineralization is very erratic and appears related to late stage quartz veining, crackle breccia, and breccia pipes within and adjacent to the quartz monzonite porphyry. A sample of a quartz-tourmaline vein assayed 27.0 grams per tonne gold (Assessment Report 10280).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 9015, \*10280, \*16317 EMPR BULL 54 EMPR FIELDWORK 1997, p. 19-1-19-14 EMPR GEM 1970-100 GSC MAP 1385A GSC P 86-20; 88-1E, pp. 213-216, 221-227; 89-1H, pp. 95-112, 117-120; 90-10, pp. 59-87, 465-487 PERS COMM (R.G. Anderson, Geological Survey of Canada, March, 1989)

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MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5880111 EASTING: 681384

REPORT: RGEN0100

228

NAME(S): SECURITY (B), OP, B

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 02 29 N LONGITUDE: 132 17 46 W ELEVATION: 200 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample location (T2-162), Figure 6a (Assessment Report 11084).

West side of Security Inlet.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite Gold

ASSOCIATED: Quartz
ALTERATION: Chlorite
ALTERATION TYPE: Propylitic **Epidote** 

Calcite Quartz Silicific'n

Chalcedony

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stockwork Disseminated Breccia **Epigenetic** 

CLASSIFICATION: Hydrothermal Epithermal

Epithermal Au-Ag: low sulphidation

TYPE: H05 E SHAPE: Irregular

Metres

101 Au-quartz veins

TREND/PLUNGE: STRIKE/DIP: 030/70N DIMENSION: 900 x 12 COMMENTS: Quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

GROUP Vancouver TRATIGRAPHIC AGE Upper Triassic

Tertiary Undefined Group FORMATION Karmutsen Masset

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Massive Basalt

Pillow Basalt Limestone Araillite Chert Rhvolite Gabbro Mylonite Básaltic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADF: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1982

SAMPLE TYPE: Rock **COMMODITY** 

**GRADE** 56.6000 Grams per tonne

REFERENCE: Assessment Report 11084.

**CAPSULE GEOLOGY** 

The B zone is underlain by metamorphosed greenschist facies submarine pillow and massive basalts of the Vancouver Group, Upper Triassic Karmutsen Formation, with numerous interflow lenses of limestone, argillite and chert. These rocks are in fault contact with Tertiary Masset Formation rocks consisting of flow banded rhyolite intruded by gabbro with associated basalt dikes.

A large northwest dipping quartz vein, 900 metres long and up to 12 metres wide, trends northeast along the fault contact between the gabbro/rhyolite and basalt/sediment packages of rock. The breccia vein is comprised of quartz, basalt, rhyolite and gabbro breccias which are cut by quartz and calcite veins and contain fragments rimmed by chalcedony. Highly foliated mylonite occurs along the quartz vein.

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

Pyrite and gold mineralization occur within the quartz vein and surrounding wallrock. A sample of moderately fractured and quartz veined foliated rhyolite assayed 56.6 grams per tonne gold and a 15 centimetre sample, 60 metres to the northeast, of quartz stringers cutting gabbro assayed 6.48 grams per tonne gold (Assessment Report 11084).

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EMPR ASS RPT /441, //03, 0403, 56030, 11001, 1011, EMPR BULL 54

EMPR EXPL 1979-243; 1980-371; 1982-360

EMPR FIELDWORK 1997, p. 19-1-19-14

EMPR PF (Prospectus: Englefield Resources Ltd., April 1987)

GSC MAP 1385A

GSC P 86-20; 88-1E; 89-1H; 90-10

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 034 NATIONAL MINERAL INVENTORY: 103F9 Au1

NAME(S):

**SPECOGNA**, HARMONY, CINOLA, GRAHAM ISLAND GOLD, BABE, SPECOGNA GOLD, HARMONY GOLD, MARINO, MISTY MOUNTAIN

Underground MINING DIVISION: Skeena

STATUS: Developed Prospect REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F09E UTM ZONE: 08 (NAD 83) BC MAP:

LATITUDE: 53 31 43 N LONGITUDE: 132 13 11 W ELEVATION: 200 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Centre of main zone. The Marino surface showing lies about 500

metres northwest of here (Assessment Report 11167).

COMMODITIES: Gold Silver Copper 7inc Mercury

**MINERALS** 

SIGNIFICANT: Pyrite Marcasite Gold Hematite Chalcopyrite Sphalerite Pyrrhotite Cinnabar

COMMENTS: Sphalerite, cinnabar and pyrrhotité occur at trace levels.

Calcite Hematite

ASSOCIATED: Quartz ALTERATION: Silica Clay Adularia Kaolinite Limonite

Sericite Chlorite Silicific'n Potassic Argillic

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Miocene

ISOTOPIC AGE: 14 +/- 0.6 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Sericite from main dacite dike

**DEPOSIT** 

CHARACTER: Disseminated Stockwork Vein Breccia

CLASSIFICATION: Epithermal

TYPE: H03 Hot spring Au-Ag H05 Epithermal Au-Ag: low sulphidation

SHAPE: Tabular

MODIFIER: Faulted DIMENSION: STRIKE/DIP: 160/45E 800 350 x 250 Metres

TREND/PLUNGE: COMMENTS: Age date of main dacite dike from Champigny, 1981. Rhyolite body at

the Marino showing is dated at 18 Ma. The deposit is wedge-shaped.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Skonun

Miocene Undefined Group ISOTOPIC AGE: 15-17 Ma

DATING METHOD: Fossil

MATERIAL DATED: Pollen + marine bivalves

Cretaceous Queen Charlotte Haida

LITHOLOGY: Conglomerate

Sandstone Siltstone Mudstone Lahar Breccia Araillite Polymictic Breccia Dacite Dike Dacite Breccia

Quartz Feldspar Rhyolite Porphyry

HOSTROCK COMMENTS: Age date of Skonun Formation in the deposit area from Champigny, 1981.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Overlap Assemblage

INVENTORY

MINFILE NUMBER: 103F 033

PAGE:

NORTHING: 5934673

EASTING: 684277

Sericitic

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

ORE ZONE: SPECOGNA

REPORT ON: Y

CATEGORY: Measured YEAR: 1997

QUANTITY: COMMODITY

33500000 Tonnes

**GRADE** Grams per tonne

2.1100 Grams per tonne

COMMENTS: Cut-off of 1.2 grams per tonne gold. Additional lower grade stockpile of 19.2 million tonnes grading between 0.80 to 1.2 grams

per tonne gold. REFERENCE: Information Circular 1998-1, page 21.

ORF ZONE: STOCKPILE

REPORT ON: Y

CATEGORY: QUANTITY:

Inferred

YEAR: 1997

Grams per tonne

COMMODITY

19200000 Tonnes

0.9900

Gold COMMENTS: A lower grade stockpile resource.

REFERENCE: Information Circular 1998-1, page 21.

### CAPSULE GEOLOGY

The Specogna deposit and surrounding area is underlain by three major formations, an intrusive igneous sequence, a major fault system and the mid-upper levels of an epithermal hotspring-type (low sulphidation, quartz adularia sub-type) precious metal system.

The gold deposit is localized along the Sandspit fault, which strikes 162 degrees and dips about 45 to 50 degrees northeast in the vicinity of the deposit. The Sandspit fault is a normal rightlateral fault that separates the shale member of the Cretaceous Haida Formation (Queen Charlotte Group) from a downdropped block of Miocene-Pliocene Skonun Formation sediments (east of fault).

The Haida Formation is comprised of black-dark grey variably calcareous mudstone and argillites. The stratigraphic nomenclature of Cretaceous units of the Queen Charlotte Islands, including the Haida Formation, has come under review by various researchers at the Geological Survey of Canada. Cameron and Hamilton, 1988 had reassigned the shale member of the Haida Formation to the Skidegate Formation (Geological Survey of Canada Paper 88-1E, pp. 221-227).

J.W. Haggart, 1991 dismissed this reassignment and reconfirmed the Haida Formation to include the shale member (G.S.C. Paper 91-10, pp. 253-277). Owing to problems in distinguishing the various Cretaceous units J.W. Haggart, et al., 1991 (G.S.C. Paper 91-1A, pp. 367-371) and J. Hesthamer, et al., 1991 (G.S.C. Open File 2319) suggest that formation names for the Queen Charlotte Group (excluding the Honna Formation) should be abandoned and the Haida shales should therefore be referred to informally as the "Cretaceous shale" of the Queen Charlotte Group.

The Skonun Formation, at least 600 metres in thickness in the vicinity of the deposit (62 per cent conglomerate; 31 per cent arkosic sandstone; 7 per cent sandstone and siltstone/mudstone), consists of a thick porous pebble conglomerate unit with north striking and gently east dipping interbeds of sandstone and siltstone. Several horizons of mudflow breccia (lahar deposits) occur interbedded with conglomerates at the deposit. J. Hesthamer, et al., 1991 (G.S.C. Open File 2319) had mapped conglomerates outcropping over the deposit as Cretaceous Honna Formation (Queen Charlotte Group, shown as unit KHo). Macrofossil and palynological evidence suggest an age of deposition of about 15-17 Ma (mid-Miocene) for these rocks (Champigny, 1981). Tertiary Skonun Formation. They are therefore included with the

Carbonaceous debris occur in the Skonun Formation as fragments, varying from logs several tens of centimetres in diameter to slivers. Logs appear to be aligned parallel to the strike of the larger quartz veins (i.e. 020 degrees). The percentage of carbon ranges from 0.04 The mudflow breccia horizons contain the most to 0.23 per cent. plant debris.

The Upper Oligocene to Lower Pliocene Masset Formation, consisting of porphyritic andesites and basalts, underlies the area to the immediate northwest and was likely the source of much of the sediments comprising the Skonun Formation.

At least two separate Miocene felsic intrusions occur in the deposit area. A dike of variably plagioclase porphyritic dacite to locally andesite ("main dacite dike") intrudes the Haida mudstone and Skonian sediments along the Sandspit fault. Various other smaller typically flow-banded quartz-feldspar porphyritic rhyolite dikes and irregular bodies occur in the Haida mudstone west of the Sandspit fault (e.g. at the Marino showing). The main dacite dike strikes 160 degrees for at least 900 metres and dips 40 to 60 degrees northeast.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

The dike is 10 to 30 metres wide, locally swelling to 50 metres and generally narrows and becomes discontinuous with increasing depth. The unit is occasionally pitted and porous as a result of retrograde acid leaching. It is typically bordered to the east by a parallel zone of quartz-rich hydrothermal breccia. An intervening zone of crackle brecciated dacite is transitional between the dike and hydrothermal breccia. Peperitic textures suggest that the dacite dike intruded Skonun sediments during their deposition.

The dacite intrusion immediately predates the epithermal hot-spring suite and may have contributed to the movement of hydrothermal fluids upwards along deep-seated structures. The suite is dominated by a quartz matrix polymictic hydrothermal breccia, containing clasts of Skonun sediments, Haida mudstone and dacite. The breccia body strikes 170 degrees for 750 metres proximal to the Specogna fault and dips 40 to 65 degrees east. It consists of a wedge shaped zone up to 70 metres wide at or near surface that extends downdip for up to 650 metres. Fluidized and milled breccias occur at depth below the polymictic breccia. A zone of early mineralized banded chalcedonic and variably bladed (quartz after calcite) and late barren, vuggy and drusy quartz veins flanks the breccia to the east. These veins comprise a conjugate set with two dominant attitudes; 015 degrees/87 degrees west and 039 degrees/67 degrees northwest. Two main sinter horizons occur near the top of the deposit in Skonun conglomerates. These trend northerly for 350 metres and are up to 13 metres thick. The horizons are cut by all breccias and vein types. The presence of multiple sinter horizons in Skonun sediments and the occurrence of fragments of vein quartz (early mineralized and late barren) and clasts of previously silicified sandstone in the upper part of the Skonun Formation ("upper mudflow breccia") suggest that epithermal activity was contemporaneous with deposition of Skonun sediments.

Both sedimentary and intrusive rocks have been subjected to hydrothermal alteration that extends laterally eastwards away from the hydrothermal breccia over an area of 2 square kilometres. A zone of silicification and potassic alteration (adularia) developed proximal to the hydrothermal breccia is flanked to the east by a region of clay altered Skonun Formation sediments characterized by the presence of kaolinite-illite with minor alunite and sericite. Chloritic alteration is also reported.

Metallic mineralization at the Specogna deposit is dominated by pyrite and marcasite, which together typically comprise 2 to 4% of altered wallrocks in the form of semimassive replacements of conglomerate clasts to disseminations in finer grained sediments and intrusive dikes. Early mineralized quartz veins tend to be less sulphidic, while later barren veins are largely free of sulphides. Chalcopyrite is occasionally present in quartz veins below the deposit. Other minerals identified in decreasing order of abundance include limonite, hematite, native gold, cinnabar, sphalerite and pyrrhotite (Gasparrini, 1979).

Gold is finely disseminated in elevated concentrations within a broad zone of potassic alteration and silicification between the Sandspit fault to the west and the barren, argillic alteration zone to the east, (generally the contact between argillic alteration and silicification marks the 0.69 gram per tonne gold grade boundary). The gold is mostly free and extremely fine with occasional coarse accumulations. Higher concentrations of gold are associated with quartz veins and breccias, as indicated by channel sampling of the Specogna adit, where quartz veins 10 centimetres or wider were sampled separately from wallrock. One hundred and thirty seven vein samples averaged 9.61 grams per tonne gold, while intervening wallrock samples averaged 3.00 grams per tonne gold (Assessment Report 24972, page 26). Visible gold is almost entirely found in quartz veins, often at or near their margins. Visible gold occurs most often in narrow uniformly textured light grey quartz veins and secondarily in larger banded to mottled and bladed light to dark grey and brownish grey chalcedonic quartz veins.

The orebody is essentially wedge-shaped and extends 800 metres northwest along the Specogna fault. The wedge is approximately 250 metres wide at surface, thinning with depth to 50 metres at sea level (200 metres below surface). The orebody has been traced downdip for 300 to 400 metres. Mineable reserves estimated to June, 1997 are 33.5 million tonnes grading 2.11 grams per tonne gold at a cutoff grade of 1.20 grams per tonne gold (Assessment Report 25393, page 2). A lower grade stockpile is also estimated to contain 17 million tonnes averaging 0.99 gram per tonne gold (Misty Mountain Gold Limited Press Release, May 12, 1997). Independent Mining Consultants Inc., on behalf of Misty Mountain, estimated the deposit has a mineral reserve of 52.7 million tonnes grading 1.7 grams per tonne gold. The ore is distributed in four silicified lithologies. The

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#### CAPSULE GEOLOGY

Skonun Formation contains 55 per cent of the total ore tonnage; hydrothermal breccia, 30 per cent; dacite, 13.0 per cent and Haida Formation mudstone, 2.0 per cent. Drilling in 1988 suggests mineralization may continue northeast of the proposed pit (Assessment Report 18785). Drilling 300 metres north of the deposit in 1998 intersected 9.98 metres of 10.07 grams per tonne gold in sheared and locally weakly silicified dacite dike, suggesting additional zones of mineralization may occur along the Sandspit fault (Press Release, Misty Mountain Gold Limited, February 25, 1999).

Misty Mountain Gold Limited, February 25, 1999).

Gold recovery tests using a gravity circuit followed by standard flotation techniques were completed on deposit material grading 2.40 grams per tonne gold. Preliminary results indicate that conventional gravity circuits may recover 10 to 20 per cent of the gold, and flotation results indicate an 80 per cent or better overall gold recovery is achievable in a concentrate grading 30 to 40 grams per tonne gold. Tests on the flotation concentrate indicate that it is very amenable to bio-oxidation pre-treatment; oxidation rates are rapid and the gold recovery is excellent. Misty Mountain Gold is also testing bio-oxidation pretreatment of crushed ore, followed by simple heap leaching.

The Specogna deposit was discovered by Efrem Specogna and Johnny Trinco in 1970, while prospecting along the Sandspit fault. The prospect was optioned to a succession of companies during the early 1970s, commencing with Kennco Exploration Ltd. (1971), followed by Cominco Ltd. (1972), Placer Development Ltd. (1973) and finally Quintana Minerals Corp. (1974-75). Work performed by these companies included geological and soil geochemical surveys, and the drilling of 20 diamond drill holes totaling 1338 metres and 18 percussion holes totaling 603 metres. Consolidated Cinola Mines Ltd. optioned the property in 1977 and by 1980 had completed 139 diamond drill holes totaling 20,963 metres. Work by the company continued under a joint venture with Energy Reserves Canada Ltd., commencing with the excavation of the Specogna adit in 1981. Some 4,500 tonnes were excavated from 465 metres of underground workings and treated at a 45 tonne per day pilot mill at site. The joint venture completed 54 diamond drill holes totaling 7222 metres between 1981 and 1984. In 1986 City Resources (Canada) Ltd. acquired control of Consolidated Cinola Mines and continued exploration by drilling another 98 diamond drill holes and 63 percussion holes totaling 8483 metres and 6232 metres respectively, between 1986 and 1989. The company completed another 118 metres of underground development at the Specogna adit in 1987. Barrack Mine Management acquired control of City Resources Canada in 1989 and continued metallurgical and feasibility studies. In 1993 Australian interests acquired control and renamed the company Misty Mountain Gold Ltd.

The Hunter Dickinson Group, through Romulus Resources Ltd. optioned the deposit in 1994. Romulus Resources merged with Misty Mountain Gold in 1995, with the Hunter Dickinson Group acquiring full control of the new company. In 1995 and 1996 Romulus Resources and Misty Mountain Gold drilled 147 diamond drill holes totaling 34,627 In 1995 and 1996 Romulus Resources and metres on a 20 x 20 metre grid, with all holes angled to the southeast at -45 degrees, in order to crosscut at right angles to the northeasterly trending and steeply dipping quartz veins. completed an additional four diamond drill holes totaling 1999 metres in the fall of 1997 to test for potential bonanza-type deposits which may have developed at depths of up to 200 metres below the currently known Specogna deposit in a deeper, throttled portion of the epithermal system. Another four holes totaling 575 metres were drilled in the fall of 1998 to test resistivety and chargeability anomalies near the Sandspit fault north of the deposit. Additional work included bulk sampling of the Specogna adit in 1997 and 1998, and the completion of airborne geophysical surveys (VLF-EM, radiometrics, magnetometer) in 1995 and induced polarization surveys over the Sandspit fault in 1997. The company is continuing with various investigations involving metallurgical, environmental work, deposit modeling, resource estimation, mine designs, mineralogy, site facility locations and infrastructure planning, all leading to the completion of a comprehensive pre-feasibility study.

The Marino showing, located about 150 metres due west of the north end of the Specogna deposit, consists of an elongate body of quartz-feldspar porphyritic rhyolite, subcropping and outcropping over an area 80 by 40 metres. The body occurs in Haida mudstone about 90 metres west of the Sandspit fault. Mineralization at the showing consists of narrow quartz veins typically no more than 2 cm wide, that contain visible gold along their drusy and chalky cores.

Efrem Specogna shipped two bulk samples of gold ore from the Marino showing to the Tacoma smelter. The two samples were received on June 26, 1975 and analyzed as follows (T. Schroeter, personal communication, 1996);

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#### CAPSULE GEOLOGY

Shipment 1
Net weight = 2431.7 kilograms (at 0.93 per cent moisture) - 2409.0 kilograms net dry weight
Assay = 116.5 grams per tonne gold, 52.1 grams per tonne silver, 0.01 per cent lead, 0.06 per cent copper, 0.01 per cent zinc, 0.25 per cent arsenic, 0.03 per cent bismuth, 91.9 per cent silica
Metal Content (payable) = 255.02 grams gold, 93.3 grams silver Shipment 2
Net dry weight = 579.7 kilograms
Assay = 563.9 grams per tonne gold, 230.3 grams per tonne silver
Metal Content (payable) = 301.67 grams gold, 124.4 grams silver
Total production = 3011.45 kilograms yielding 556.69 grams gold and 217.7 grams silver.

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217.7 grams silver.
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EMR MIN BULL MR 223 (1989) B.C. 281
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1978; #3,#4,#9,#25,#39,#65,#80,#102,#139,#169,#191,#192,#236,
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Apr.28, Sept.8, Dec.1, 1983; Jan.5, Aug.16, 1984; Mar.28, 1985;
Oct.27, Nov.24, 1986; Jan.26, Mar.16, Apr.13, May 11, Dec.14, 1987;
                                                                                                                        1982;
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PR REL Misty Mountain Gold Limited, May 12, Oct.8, 1997; Mar. 9,
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DATE CODED: 1986/06/11 DATE REVISED: 1999/10/13 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

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RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**Epidote** 

MINFILE NUMBER: 103F 035

NATIONAL MINERAL INVENTORY:

NAME(S): SECURITY (OP 6), OP

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 01 09 N

LONGITUDE: 132 18 26 W ELEVATION: 15 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showings, Figure 7c, Sheet 1 (Assessment Report 9830). Located half way between Fairlie Point and Hastings Point along the northern shore

of Inskip Channel.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite

ASSOCIATED: Ankerite ALTERATION: Calcite

ALTERATION TYPE: Carbonate

Malachite Hematite

Oxidation

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal TYPE: I06 Cu±A Epigenetic

Cu±Ag quartz veins

SHAPE: Irregular

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE

<u>GROUP</u> Upper Triassic

Vancouver

**FORMATION** Karmutsen

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5877612

EASTING: 680732

REPORT: RGEN0100

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LITHOLOGY: Amygdaloidal Basalt

Black Argillite Limestone Massive Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Greenschist

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Rock COMMODITY Assay/analysis

YEAR: 1981

Per cent

**GRADE** Copper

COMMENTS: The sample width is 15 centimetres. REFERENCE: Assessment Report 9830.

CAPSULE GEOLOGY

The OP #6 showing is underlain by regionally metamorphosed greenschist facies subaerial massive and amygdaloidal basalt flows of the Vancouver Group, Upper Triassic Karmutsen Formation. Black

12.3000

argillites and limestones occur as interbedded sediments.

Copper mineralization is strongly associated with carbonate (ankerite?) veining and lenses. Chalcopyrite and malachite occur within these veins which cut moderately hematizated amygdaloidal basalts.

A 15 centimetre carbonate (ankerite?) vein sample with chalcopyrite, malachite, and pyrite, assayed 12.3 per cent copper (Assessment Report 9830).

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**BIBLIOGRAPHY** 

Chevron File

DATE CODED: 1986/06/17 DATE REVISED: 1988/12/06 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE NUMBER: 103F 035

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 036

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5959576 EASTING: 680203

REPORT: RGEN0100

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NAME(S): SHIP KIETA ISLAND

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F16W BC MAP:

LATITUDE: 53 45 19 N LONGITUDE: 132 16 06 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description - West side of Ship Kieta Island in Masset Inlet.

Geological Survey of Canada Memoir 88).

COMMODITIES: Volcanic Glass Perlite

MINERALS
SIGNIFICANT: Tachylyte Perlite

MINERALIZATION AGE: Unknown

DEPOSIT

SIT
CHARACTER: Massive Strat
CLASSIFICATION: Volcanogenic Syng
TYPE: R12 Volcanic glass - perlite Stratiform

Syngenetic Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary **FORMATION** IGNEOUS/METAMORPHIC/OTHER

GROUP Undefined Group Masset

LITHOLOGY: Tachylyte

TERRANE: Wrangell

Rhyolite Flow Basaltic Flow Basaltic Breccia Agglomerate Rhyolite Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

**CAPSULE GEOLOGY** 

The area is underlain by a series of Tertiary sub-aerial basaltic flows and breccias and rhyolite ash flows of the Masset

Formation, which form a plateau volcanic sequence.

Tachylyte forms fragments in an agglomerate. It is a black, glassy basalt, with a brilliant lustre, speckled with white, rectangular phenocrysts of feldspar up to a millimetre in size.

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GSC MAP 1385A

GSC MEM 88, p. 104 GSC P 86-20; 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79; 90-10, pp. 305-324

DATE CODED: 1986/06/04 DATE REVISED: 1988/12/06 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 037

NATIONAL MINERAL INVENTORY:

NAME(S): JUSKATLA INLET

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

MINING DIVISION: Skeena

NTS MAP: 103F09W BC MAP:

UTM ZONE: 08 (NAD 83)

PAGE:

REPORT: RGEN0100

239

NORTHING: 5944586 EASTING: 668088

LATITUDE: 53 37 29 N LONGITUDE: 132 27 36 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Description - West side of Juskatla Inlet (Geological Survey of Canada

Memoir 88).

COMMODITIES: Volcanic Glass Perlite

MINERALS
SIGNIFICANT: Tachylyte Perlite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

SIT
CHARACTER: Massive Strat
CLASSIFICATION: Volcanogenic Syng
TYPE: R12 Volcanic glass - perlite Stratiform

Syngenetic Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Masset

LITHOLOGY: Tachylyte

Rhyolite Flow Basaltic Flow Basaltic Breccia Rhyolite Basalt

HOSTROCK COMMENTS: Hosted in units TM, TMm (Geological Survey of Canada Map 6-1990).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The area is underlain by a series of Tertiary sub-aerial basaltic flows and breccias and rhyolite ash flows of the Masset Formation, which form a plateau volcanic sequence dipping gently to the north.

Tachylyte occurs as a flow-like mass in rhyolite units of the Tartu Facies. Tachylyte is a black, glassy basalt, with a brilliant lustre, speckled with white, rectangular phenocrysts of feldspar.

**BIBLIOGRAPHY** 

EMPR BULL 54

EMPR FIELDWORK 1997, 19-1-19-14

GSC MAP 1385A; 6-1990

GSC MEM 88, p. 104 GSC P 86-20; 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79; 90-10,

pp. 305-324

DATE CODED: 1986/06/04 CODED BY: LDJ FIELD CHECK: N REVISED BY: JNR DATE REVISED: 1988/12/06 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 038

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5881278

EASTING: 699108

REPORT: RGEN0100

240

NAME(S): **GILLATT ARM**, LIME, CUMSHEWA INLET

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F01E BC MAP:

LATITUDE: 53 02 44 N LONGITUDE: 132 01 53 W

**ELEVATION: 1** Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on drill site, as shown on claim sheet map in

Assessment Report 16566.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz

MINERALIZATION AGE: Upper Triassic ISOTOPIC AGE:

DATING METHOD: Fossil MATERIAL DATED: Various fossils.

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Sedimentary Stratiform Concordant Syngenetic Industrial Min.

TYPE: R09 Limestone

SHAPE: Regular

DIMENSION: 1300 x 29 Metres STRIKE/DIP: 090/50N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Kunga Sadler

LITHOLOGY: Limestone

Argillite

HOSTROCK COMMENTS: Lower two members of the Kunga Group, the Sadler and Peril Formations,

represent the main Queen Charlotte Islands limestone resource.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YFAR: 1987 CATEGORY: Assav/analysis

SAMPLE TYPE: Drill Core

GRADE COMMODITY Per cent Limestone 51.9600

COMMENTS: Average of 3 drill holes. Grade given for CaO.

REFERENCE: Assessment Report 16566.

CAPSULE GEOLOGY

The lower two members of the Kunga Group, consisting of the Upper Triassic Sadler and Peril formations, represent the main limestone resource of the Queen Charlotte Islands, particularly the basal massive grey limestone comprising the Sadler Formation. Its thickness varies from less than 30 metres to more than 200 metres.

The Kunga Group, consisting of the limestone members and an overlying argillite member, rests conformably on the Karmutsen Formation, and may be overlain conformably by the Jurassic Maude Group or disconformably by the Middle Jurassic Yakoun Group.

The limestone outcrops along the south shore of Gillatt Arm, immediately west of Gordon Cove for 1300 metres. The beds strike 090 degrees and dip 50 degrees porth. Prilling indicator the limestone

degrees and dip 50 degrees north. Drilling indicates the limestone is at least 29 metres thick. Limited surface examinations suggest the deposit contains a resource of 1.5 to 8 million tonnes of limestone that can be quarried from surface (Paulsen, 1982, page 3-7). The bed consists of dark grey to white, medium to coarse-grained limestone with minor quarts. It is cut by calcite veins and a few narrow fault breccia zones. Three drill holes averaged 51.96 per cent CaO, 0.12 per cent MgO and 4.73 per cent SiO2 (Assessment Report 16566). A surface sample assayed 54.50 per cent CaO, 1.91 per cent MgO, 1.25 per cent SiO2 and 42.44 per cent loss on

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

ignition (Paulsen 1982, page 3-6). City Resources completed three diamond-drill holes in 1987 to test this limestone as a source of neutralizing medium for the Specogna epithermal gold deposit (103F 034).

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*16566 EMPR BULL 54, pp. 50,175 EMPR EXPL 1987-C347 EMPR OF 1992-18, pp. 43-45
EMPR PF (\*Paulsen, L. (1982): Limestone Study - Preliminary Evaluation
- Queen Charlotte Joint Venture, in 103F General; Geological Map by McCammon, J.H.) GSC MAP 1385A GSC P 86-20; 88-1E; 89-1H, pp. 7-11; 90-10, pp. 163-172 Chevron File

DATE CODED: 1986/06/05 DATE REVISED: 1999/09/24 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103F 038

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 039

NATIONAL MINERAL INVENTORY:

NAME(S): SANDILANDS ISLAND

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F01E BC MAP:

LATITUDE: 53 10 19 N LONGITUDE: 132 05 16 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Limestone unit, Figure 5, Sheet B (Bulletin 54). Southeast tip Sandilands Island, Skidegate Channel.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Plagioclase

MINERALIZATION AGE: Upper Triassic ISOTOPIC AGE:

DATING METHOD: Fossil MATERIAL DATED: Various fossils

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Sedimentary

Syngenetic

Concordant Industrial Min.

TYPE: R09 Limestone

SHAPE: Regular DIMENSION: 30

COMMENTS: Minimum thickness.

STRIKE/DIP: 075/20N TREND/PLUNGE: Metres

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> Upper Triassic

**FORMATION** Sadler

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5895177 EASTING: 694756

REPORT: RGEN0100

242

LITHOLOGY: Limestone Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

The lower two members of the Kunga Group, consisting of the Upper Triassic Sadler and Peril formations, represent the main limestone resource of the Queen Charlotte Islands, particularly the basal massive grey limestone comprising the Sadler Formation. Its thickness varies from less than 30 metres to more than 200 metres.

The Kunga Group, consisting of the limestone members and an overlying argillite member, rests conformably on the Karmutsen Formation, and may be overlain conformably by the Jurassic Maude

Group or disconformably by the Middle Jurassic Yakoun Group.

Light grey high-calcium limestone of the Sadler Formation outcrops on the southeast tip of Sandilands Island, in Skidegate Channel, just south of Maude Island. The beds strike west-southwest and dip 10 to 30 degrees northwest. The unit is bounded on the north by a northeast trending fault. The limestone is cut by irregular calcite veinlets up to five centimetres thick. The occasional grain of plagioclase is visible in thin section.

**BIBLIOGRAPHY** 

EMPR BULL 54, pp. 50,175 EMPR OF 1992-18, pp. 43-46 GSC MAP 1385A; 4-1990

GSC MEM \*88, pp. 88,173 GSC P 86-20; 88-1E, pp. 217-219, 221-227; 89-1H, pp. 7-11; 90-10,

pp. 163-172

CANMET RPT \*#811, p. 158

DATE CODED: 1986/06/05 DATE REVISED: 1999/09/24 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 040

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5883959 EASTING: 692791

REPORT: RGEN0100

243

NAME(S): MOSQUITO LAKE

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F01E BC MAP:

LATITUDE: 53 04 19 N LONGITUDE: 132 07 26 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Limestone unit, Figure 5, Sheet B (Bulletin 54). Located just north of

Mosquito Lake.

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite
MINERALIZATION AGE: Upper Triassic

MATERIAL DATED: Various fossils ISOTOPIC AGE: DATING METHOD: Fossil

**DEPOSIT** 

CHARACTER: Massive Concordant CLASSIFICATION: Sedimentary TYPE: R09 Limestone Industrial Min.

SHAPE: Regular

STRIKE/DIP: 100/50N DIMENSION: 30 Metres TREND/PLUNGE: COMMENTS: Minimum thickness.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

Upper Triassic Kunga

LITHOLOGY: Limestone

Argillite

HOSTROCK COMMENTS: Kunga Formation reclassified as Kunga Group (Geological Survey of

Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

CAPSULE GEOLOGY

The lower two members of the Kunga Group, consisting of the Upper Triassic Sadler and Peril formations, represent the main limestone resource of the Queen Charlotte Islands, particularly the basal massive grey limestone comprising the Sadler Formation. Its thickness varies from less than 30 metres to more than 200 metres.

The Kunga Group, consisting of the limestone members and an

overlying argillite member, rests conformably on the Karmutsen
Formation, and may be overlain conformably by the Jurassic Maude
Group or disconformably by the Middle Jurassic Yakoun Group.

A narrow band of limestone trends west-northwest from Mosquito
Lake to Skidegate Channel. The beds dip 50 to 70 degrees to the
north. A sample assayed 17.94 per cent CaO, 1.07 per cent MgO, 54.75

per cent SiO2 and 14.96 per cent loss on ignition (Paulsen, 1982,

page 3-8).

This occurrence was briefly evaluated by Consolidated Cinola Mines in 1982 as a source of neutralizing medium for the Specogna

epithermal gold prospect (103F 034).

BIBLIOGRAPHY

EMPR BULL 54, pp. 50,175

EMPR OF 1992-18, pp. 43-45 EMPR PF (\*Paulsen, L. (1982): Limestone Study - Preliminary Evaluation

- Queen Charlotte Joint Venture, in 103F General)

GSC MAP 1385A; 4-1990

GSC P 86-20; 88-1E; 89-1H, pp. 7-11; 90-10, pp. 163-172

DATE CODED: 1986/06/05 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1999/10/31 REVISED BY: PSF FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 041

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5901210 EASTING: 682999

REPORT: RGEN0100

244

NAME(S): GRAHAM ISLAND CLAY

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 13 49 N LONGITUDE: 132 15 36 W ELEVATION: 150 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of adit, "northeast portion of section 14, township II" (Geological Summary Report 1912, page 30).

Coal

COMMODITIES: Clay

MINERALIZATION AGE: Clay
MINERALIZATION AGE: Eocene Coal

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Pollen

**DEPOSIT** 

CHARACTER: Massive Stratiform Stratabound

CLASSIFICATION: Sedimentary TYPE: E07 Sedin Industrial Min.

Sedimentary kaolin DIMENSION: 10 Metres
COMMENTS: Thickness of clay. Age date from pollen recovered from coal samples (Geological Survey of Canada Paper 90-10. page 271). TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Undefined Group **FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

Eocene Undefined Formation

DATING METHOD: Fossil MATERIAL DATED: Pollen

> LITHOLOGY: Clay Shale

Coal

HOSTROCK COMMENTS: Age date of pollen from coal float is Lower Eocene to Lower Oligocene

(Geological Survey of Canada Paper 90-10, page 271).

**GEOLOGICAL SETTING** 

**CAPSULE GEOLOGY** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

A light coloured shale, 10 metres thick, occurs below a coal seam in an unnamed unit of Lower Eocene to Lower Oligocene age (Unit Tsh, Geological Survey of Canada Paper 90-10, pages 31-50, Figure 9). The

shale has fair plasticity and is referred to as "fire-clay".

**BIBLIOGRAPHY** 

EMPR BULL 54, pp. 177,178 GSC MAP 1385A; 4-1990

GSC MEM 47, pp. 61,62; \*88, pp. 121,172 GSC P 86-20; 88-1E; 89-1H, pp. 7-11, 65-72; 90-10, pp.31-50, 271

GSC SUM RPT 1912, pp. 30,40

DATE CODED: 1987/02/03 CODED BY: LDJ FIELD CHECK: N REVISED BY: JNR DATE REVISED: 1988/12/06 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 042

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5881793

EASTING: 668088

IGNEOUS/METAMORPHIC/OTHER

San Christoval Plutonic Suite

REPORT: RGEN0100

245

NAME(S): **BATEAUX (C)**, C

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 03 39 N LONGITUDE: 132 29 36 W

ELEVATION: 150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drillhole BH-38877, Figure 3 (Assessment Report 10255).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Arsenopyrite

ALTERATION: Silica

Calcite

Chlorite **Epidote** 

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown Propylitic

Breccia

Epigenetic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: H EPITH

**EPITHERMAL** 

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE

GROUP Vancouver Upper Triassic Triassic-Jurassic Kunga

Middle Jurassic

ISOTOPIC AGE: 170-175 +/- 5 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Felsic Volcanic

Basalt Andesite Limestone Tuff Argillite Granodiorite Breccia Tonalite

HOSTROCK COMMENTS:

Karmutsen volcanics, interbedded with Kunga Group limestone are intruded by plutonic rock. Age date- Pers. Comm.: R.G. Anderson, March 1989

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

Disseminated

**FORMATION** 

Undefined Formation

Karmutsen

YEAR: 1981

Grams per tonne

CATEGORY: COMMODITY

SAMPLE TYPE: Drill Core

Assay/analysis

**GRADE** 6.5000

Gold COMMENTS: The sample width is 1.51 metres.

REFERENCE: Assessment Report 9458.

CAPSULE GEOLOGY

The property is underlain by Upper Triassic Vancouver Group, Karmutsen Formation, basaltic to andesitic flows with intercalations of felsic ashflow tuffs. The volcanics are interbedded with lenses of Triassic to Jurassic Kunga Group limestone and minor argillite. granodiorite to tonalitic pluton, probably related to the Middle Jurassic San Christoval Plutonic Suite, lies to the south.

The prominent structural feature is an east-west trending Two distinct foliations strike northwest, dipping south and north-south, dipping east. Minor northeast trending faults occur on the south part of the property.

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Gold mineralization, associated with pyrite and arsenopyrite, occurs in variably silicified and epidote-chlorite altered felsic to mafic volcanics. Gold is also localized in brecciated quartz veins  $\frac{1}{2}$ and minor calcite-quartz veins cutting the volcanics. The mineralization also occurs in narrow (20-60 centimetres) silicified brecciated zones at the limestone-volcanic contacts, of which one sample assayed 4.53 grams per tonne gold. Subsequent drilling intersected a 1.51 metre silicified shear zone with 6.5 grams per tonne gold (Assessment Report 9458).

Bateaux Resources drilled two diamond drill holes totaling 121.9 metres in 1989.

#### **BIBLIOGRAPHY**

EMPR ASS RPT 7625, 8519, \*9458, \*10255, \*18839 EMPR BULL 54 EMPR BULL 54
EMPR EXPL 1979-243; 1980-372
EMPR FIELDWORK 1997, p. 19-1-19-14
EMPR PF (Prospectus, Bateaux Resources Inc., April 1988: Includes
Summary Report on the Bateaux Property by C.J. Westerman, Sept. 1987) GSC MAP 1385A GSC P 86-20; 88-1E; 89-1H; 90-10 Chevron File

CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIELD CHECK: N DATE CODED: 1986/06/13 DATE REVISED: 1988/12/06

MINFILE NUMBER: 103F 042

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 043

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5982674

EASTING: 630801

REPORT: RGEN0100

247

NAME(S): INCONSPICUOUS 4

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F14E BC MAP:

LATITUDE: 53 58 39 N

LONGITUDE: 133 00 26 W ELEVATION: 350 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone (Sample P1075), Figure 3 (Assessment Report 11086).

COMMODITIES: Gold Antimony

**MINERALS** 

Pyrrhotite Arsenopyrite Stibnite

SIGNIFICANT: Pyrite
ALTERATION: Clay
ALTERATION TYPE: Propylitic Sílica Kaolinite Argillic Silicific'n

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Breccia Disseminated

CLASSIFICATION: Hydrothermal TYPE: H03 Hot sp Epithermal Porphyry **Epigenetic** 

Hot spring Au-Ag

SHAPE: Irregular MODIFIER: Faulted

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Group Masset Lower Cretaceous Queen Charlotte Haida

LITHOLOGY: Fine Grained Dacite

Fine Grained Granodiorite

Andesite Dacitic Porphyry

Hornblende Andesite

Tuff Rhyolite

TERRANE: Wrangell

Feldspar Porphyry

Sandstone Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

YEAR: 1983

CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

COMMODITY **GRADE** Gold 4.8500 Grams per tonne

COMMENTS: The sample width is 3.98 metres.

REFERENCE: Assessment Report 12208.

CAPSULE GEOLOGY

The property is underlain by Tertiary Masset Formation rocks consisting of dacite flows and tuffs, andesites, rhyolites, and feldspar porphyries. The volcanic units generally dip to the west and are unconformably underlain by sandstones and shales, probably of the Lower Cretaceous (Albian age), Queen Charlotte Group, Haida

Formation.

A major northeast trending fault (Sams fault) and related shears cut the rocks. The shear zones offset the stratified rocks and control mineralization. Associated with the shear zones are strong argillic alteration, kaolinitic clay development, minor

silicification, and varying propylitic alteration.

Several fault controlled mineralized zones, up to 6 metres wide, occur in hornblende needle andesites. The andesites are clay altered, locally silicified, and contain disseminated and fracture filled pyrite and arsenopyrite. A 5 metre wide fault zone assayed

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

 $0.74~{
m grams}$  per tonne gold, and a  $0.5~{
m metre}$  zone assayed  $4.46~{
m grams}$  per tonne gold. A clay altered wallrock sample assayed  $1.57~{
m grams}$  per tonne gold (Assessment Report 9028).

A drill hole, 700 metres to the south west, intersected gold mineralization associated with a fault zone containing pyrite, stibnite, pyrrhotite and arsenopyrite in strong clay-altered and brecciated dacite/latite porphyry. A 3.98 metre fault zone assayed 4.85 grams per tonne gold (Assessment Report 12208).

Drilling over a 900 metre by 300 metre area between 1983 and 1988 encountered a high-level fine-grained feldspar porphyritic diorite/granodiorite. This intrusive is weakly to moderately clay carbonate altered and, locally, weakly silicified. The body contains disseminated, fracture and fault gouge controlled pyrite, arsenopyrite and possibly stibnite. Higher gold values occur in or near fault zones where sulphide content increases. One of six drill holes returned a weighted average of 1.44 grams per tonne gold over 4.09 metres (Assessment Report 17585).

City Resources Canada Ltd. drilled six diamond drill holes totaling 439.7 metres in 1988.

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*9028, \*10127, 11086, \*11878, \*12208, \*17585 EMPR BULL 54
EMPR EXPL 1980-385; 1982-366; 1983-499,500
EMPR FIELDWORK 1997, p. 19-1-19-14 GSC MAP 1385A; 8-1990 GSC P 86-20; 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79; 90-10, pp. 305-324 GCNL #97, #247, 1983; #70, 1984

DATE CODED: 1986/06/16 DATE REVISED: 1999/09/26 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103F 043

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 044

NATIONAL MINERAL INVENTORY:

NAME(S): INCONSPICUOUS 6

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F14E BC MAP:

LATITUDE: 53 59 24 N

LONGITUDE: 133 00 36 W ELEVATION: 270 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main showing, Figure 3 (Assessment Report 11086).

COMMODITIES: Gold Antimony

**MINERALS** 

SIGNIFICANT: Pyrite
ALTERATION: Clay
ALTERATION TYPE: Propylitic Pyrrhotite Sílica

Kaolinite Silicific'n

Disseminated

Arsenopyrite

Stibnite

Argillic

**Epigenetic** 

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: H03 Hot sp

Epithermal

Hot spring Au-Ag

SHAPE: Irregular MODIFIER: Faulted

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary Lower Cretaceous

Undefined Group

Queen Charlotte

**FORMATION** Masset Haida

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5984060

EASTING: 630580

REPORT: RGEN0100

249

LITHOLOGY: Feldspar Porphyry

Dacitic Flow

Tuff Andesite Rhyolite Sandstone Shale Dacite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Assay/analysis

YEAR: 1981

SAMPLE TYPE: Chip

COMMODITY Gold

CATEGORY:

Grams per tonne

COMMENTS: The sample width is 5 metres. REFERENCE: Assessment Report 9028.

CAPSULE GEOLOGY

The property is underlain by Tertiary Masset Formation rocks consisting of dacite flows and tuffs, andesites, rhyolites, and feldspar porphyries. The volcanic units generally dip to the west and are unconformably underlain by sandstones and shales, probably of the Lower Cretaceous (Albian age) Queen Charlotte Group, Haida Formation.

A major northeast trending fault (Sams fault) and related shears cut the rocks. The shear zones offset the stratified rocks and control mineralization. Associated with the shear zones are strong argillic alteration, kaolinitic clay development, minor

silicification and varying propylitic alteration.

A fault zone trending 020 degrees cuts a feldspar porphyry unit. An associated 5 metre wide silicified and mineralized zone contains disseminated and fracture-filled pyrite, arsenopyrite, pyrrhotite and stibnite. A chip sample taken across the 5 metre wide zone assayed 2.0 grams per tonne gold (Assessment Report 9028).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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GCNL #97,#247, 1983; #70, 1984

DATE CODED: 1986/06/16 DATE REVISED: 1988/12/09 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103F 044

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 045

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

251

NAME(S): **EL NINO**, SEVEN, CANYON, AMETHYST, REPE

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F08E UTM ZONE: 08 (NAD 83)

BC MAP:

LATITUDE: 53 28 29 N LONGITUDE: 132 11 46 W NORTHING: 5928560 EASTING: 686194 ELEVATION: 360 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Diamond Drill Hole Y7 81-2, Figure 3 (Assessment Report 9863).

COMMODITIES: Gold 7inc I ead Copper Silver

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Chalcopyrite

ASSOCIATED: Quartz Calcite Quartz

ALTERATION: Clay
ALTERATION TYPE: Silicific'n Argillic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Breccia

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: H05 E SHAPE: Irregular Epithermal Au-Ag: low sulphidation

MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Undefined Formation Yakoun

LITHOLOGY: Andesite

Agglomerate Shale Sandstone

HOSTROCK COMMENTS: Yakoun Formation reclassified as Yakoun Group (Geological Survey of

Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YFAR: 1981 Assay/analysis

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core

**GRADE** COMMODITY

Silver 3.0000 Grams per tonne 0.9300 Gold Grams per tonne

COMMENTS: The sample width is 0.9 metres.

REFERENCE: Assessment Report 9863.

CAPSULE GEOLOGY

The property is underlain by Middle Jurassic Yakoun Group The property is undertain by middle salassic land.
volcanics, composed mainly of andesites and agglomerates,
unconformably overlain by Cretaceous (Albian) Queen Charlotte Group,
Haida Formation shales and sandstones. These rocks lie southwest of the northwest trending, northeast dipping Sandspit fault. East of the fault are poorly consolidated sediments of the Tertiary Skonun Formation.

The Yakoun volcanics are cut by mineralized shear zones displaying brecciation, clay alteration, silicification, and quartz veining. Mineralization consists of of pyrite, sphalerite, galena, and minor chalcopyrite in volcanics and in quartz veins as disseminations and veinlets. A chip sample taken discontinuously across 0.8 metre of quartz veining, cutting silicified volcanics with patches and disseminations of pyrite, along the east bank of Canyon Creek, assayed 1.097 per cent zinc and 0.179 per cent lead (Assessment Report 21814, page 15). Diamond drill hole 81-2 intersected 0.40 per cent zinc, 0.21 per cent lead, 0.03 per cent

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

copper and 0.05 gram per tonne gold over 7 metres at 112 metres depth. At 155 metres the drill hole intersected 90 centimetres of rock grading 0.93 gram per tonne gold and 3.0 grams per tonne silver (Assessment Report 9863). Two kilometres to the south a drill hole intersected rock containing  $1.37~{\rm grams}$  per tonne gold over  $3~{\rm metres}$ (Assessment Report 9863).

Umex Ltd. first conducted extensive exploration over this occurrence. The company performed soil, geochemical and ground geophysical surveys and drilled ten diamond drill holes totalling 1268 metres in 1981. Procan Exploration Ltd. completed 45 percussion holes totalling 205.12 metres in 1984. Doromin Resources Ltd. carried out soil and silt sampling and VLF-EM and magnetometer surveys in 1990, followed by prospecting and sampling in 1991. I Mountain Gold Ltd. conducted soil sampling, prospecting and flew airborne radiometrics, resistivity, and magnetometer surveys over the showing in 1995. The company also completed an induced polarization survey and conducted additional soil sampling in 1997.

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CODED BY: LDJ REVISED BY: PSF DATE CODED: 1986/06/19 DATE REVISED: 1999/10/20 FIFI D CHECK: N FIELD CHECK: Y

MINFILE NUMBER: 103F 045

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 046

NATIONAL MINERAL INVENTORY: 103F8 Btm1

NAME(S): **SHALE**, HC

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

PAGE:

REPORT: RGEN0100

253

NTS MAP: 103F08W BC MAP:

LATITUDE: 53 23 02 N

NORTHING: 5918247 EASTING: 681143

LONGITUDE: 132 16 41 W ELEVATION: 80 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Junction of Phantom Creek and Yakoun River.

COMMODITIES: Bitumen

**MINERALS** 

SIGNIFICANT: Bitumen MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Fossil Fuel

Concordant

Metres

Industrial Min.

TYPE: A06 Oil shale
DIMENSION: 90
COMMENTS: Thickness of section.

Sedimentary

STRIKE/DIP: 045/15S

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GRO</u>UP

**FORMATION** Ghost Creek

IGNEOUS/METAMORPHIC/OTHER

Maude Lower Jurassic DATING METHOD: Fossil

MATERIAL DATED: Various Fossils

LITHOLOGY: Shale

Argillite Limestone

HOSTROCK COMMENTS: Maude Formation is reclassified as a Group (Geological Survey of

Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

#### CAPSULE GEOLOGY

This area along the Yakoun River is underlain by sediments of the Lower Jurassic Maude Group. The basal formation of the group, the Ghost Creek Formation, consists of dark grey shale and silty shale that is characteristically fetid and bituminous.

A 60 to 90 metre thick section of oil shale is reported to occur on the east side of the Yakoun River, opposite its confluence with Phantom Creek. Mapping by the Geological Survey of Canada (Bulletin 365, Section 10) encountered a 68.5 metre section of Ghost Creek Formation immediately east of the river, 0.7 kilometre south of the confluence with Phantom Creek. This section, designated the type section for the unit, consists of dark to medium grey fetid shale with minor siltstone and argillaceous and fetid limestone. Bitum Bitumen is locally present in the lower half of this section. Bedding

strikes northeast and dips 15 degrees south.

The Shale and HC claim groups extend across sections of the Yakoun River, and Phantom and Ghost Creeks. Some prospecting, sampling, and test work was reported carried out on these showings by a Nick Clarke and associates in 1921.

Skaist Mines Ltd. by a November 1974 option agreement acquired a 70 per cent interest in 211 claims in the Shale, HC, and HB groups. The claims were optioned from Toni Holdings & Management Ltd., owned by Dieter Ludwig and Susanne Robertson, of Vancouver, and the Hanovarian Syndicate, owned by Hans Buhr & associates, of Vancouver.

### **BIBLIOGRAPHY**

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RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC OF 2319 GSC P 86-20; 88-1E, pp. 221-227; 89-1H; pp. 19-22; 90-10, pp. 51-58 GCNL #217, 1975; #173, 1976 N MINER Mar.4, 1982

DATE CODED: 1986/06/24 DATE REVISED: 1999/09/25 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103F 046

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 047

NATIONAL MINERAL INVENTORY: 103F14 Btm1

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5975398

EASTING: 621330

REPORT: RGEN0100

255

NAME(S): FREDERICK ISLAND, OS, PERIL BAY

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F14E BC MAP:

LATITUDE: 53 54 52 N

LONGITUDE: 133 09 16 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Kennecott Point, west side of Graham Island.

COMMODITIES: Bitumen

**MINERALS** 

SIGNIFICANT: Bitumen MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Fossil Fuel

TYPE: A06 Oil shale DIMENSION:

Sedimentary Metres

Concordant

Industrial Min.

STRIKE/DIP: 080/30S

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic

Upper Triassic

GROUP Kunga Kunga

**FORMATION** 

Sandilands

Peril

LITHOLOGY: Shale

Limestone Sandstone

HOSTROCK COMMENTS: Kunga Formation reclassified as Kunga Group (Geological Survey of

Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

Oil shales occur locally on the east side of Frederick Island and on Kennecott Point on the west side of Graham Island, in an area underlain by fine grained sandstone and limestone of the Upper Triassic to Lower Jurassic Sandilands Formation (Kunga Group). Here, the unit rests on or is in fault contact with medium bedded limestone

of the Upper Triassic Peril Formation (Kunga Group).

Skaist Mines Ltd. by a November 1974 option agreement acquired a 70 per cent interest in the OS 1-6 claims, which were optioned from Toni Holdings & Management Ltd., owned by Dieter Ludwig and Susanne Robertson of Vancouver, and the Hanovarian Syndicate, owned by Hans Buhr & associates of Vancouver.

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GSC MAP 1385A; 8-1990

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163-172

GSC SUM RPT 1912, pp. 39,40 GCNL #217, 1975

DATE CODED: 1986/06/24 DATE REVISED: 1999/09/25

CODED BY: LDJ REVISED BY: PSF

FIELD CHECK: N FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 048

NATIONAL MINERAL INVENTORY:

NAME(S): TIAN POINT, OTARD BAY

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F14E BC MAP:

LATITUDE: 53 46 39 N LONGITUDE: 133 07 06 W ELEVATION: 15 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Tian Head, west side of Graham Island.

COMMODITIES: Bitumen

**MINERALS** 

SIGNIFICANT: Bitumen ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Fossil Fuel

TYPE: A06 Oil shale DIMENSION:

COMMENTS: Moderate west dip.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Tertiary

<u>GROUP</u>

Undefined Group

**FORMATION** Masset

Chalcedony

Industrial Min.

Metres

STRIKE/DIP: 170/

IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5960227 EASTING: 624106

REPORT: RGEN0100

256

LITHOLOGY: Amygdaloidal Basalt Agglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

CAPSULE GEOLOGY

The area is underlain by basalt flows, agglomerates, and tuffs of the Tertiary Masset Formation. The general strike of the flows is 170 degrees with moderate southwest dips.

Bitumen (tar) occurs in veins and amygdules within the basalts and agglomerates. The cavities commonly contain quartz, chalcedony, calcite and the bitumen. The veins are up to a metre in width and

occasionally a few metres long.

J.D. Mackenzie (Geological Survey of Canada Memoir 88) believes that the bitumen has an organic origin being absorbed from underlying sediments such as the bituminous argillites of the Jurassic Maude Group. Athol Sutherland Brown (Bulletin 54) agrees, stating that the Masset flows at Tian Point overlie sandstone or shales that contain much woody matter and therefore the tar has its origin as a

wood distillate.

**BIBLIOGRAPHY** 

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GSC MAP 1385A; 8-1990

GSC MEM \*88, pp. 162-166 GSC P 86-20; 88-1E; 89-1H; 90-10, pp. 305-324

GSC SUM RPT 1912, pp. 39,40

DATE CODED: 1986/06/25 DATE REVISED: 1989/02/23

CODED BY: LDJ REVISED BY: GJP

FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103F 048

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 049

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5881262 EASTING: 668815

San Christoval Plutonic Suite

REPORT: RGEN0100

257

NAME(S): BATEAUX (B & D), B, D, SADDLE

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F01W

BC MAP:

LATITUDE: 53 03 21 N LONGITUDE: 132 28 58 W ELEVATION: 275 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located southeast of Kitgoro Inlet on Moresby Island (Assessment

Report 9458).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated

CLASSIFICATION: Hydrothermal TYPE: H03 Hot sr **Epigenetic** Igneous-contact Hot spring Au-Ag

DIMENSION: 600 x 150 Metres STRIKE/DIP: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Vancouver **FORMATION** IGNEOUS/METAMORPHIC/OTHER Karmutsen Sadler

Upper Triassic Upper Triassic Kunga Middle Jurassic

ISOTOPIC AGE: 170-175 +/- 5 Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Zircon

LITHOLOGY: Felsic Volcanic

Basalt Granodiorite Tonalite

HOSTROCK COMMENTS: Felsic volcanics of indefinite affinity contain anomalous gold.

Age date-Personal Communication: R.G. Anderson, March 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: B REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1980

SAMPLE TYPE: Grab **GRADE** COMMODITY

Gold 0.6500 Grams per tonne

REFERENCE: Assessment Report 8519.

**CAPSULE GEOLOGY** 

The property is underlain by Upper Triassic Karmutsen Formation (Vancouver Group) basaltic volcanics overlain by Upper Triassic Sadler Formation limestone. The Karmutsen rocks are interbedded with lenses of limestone and minor argillite. A variety of felsic volcanics occur throughout the area intercalated with Karmutsen mafic volcanics. These felsic rocks may be related to the Karmutsen eruptions or may be later intrusions. A granodiorite to tonalitic pluton, probably related to the Middle Jurassic San Christoval Plutonic Suite, intrudes the strata. The Karmutsen volcanics in this

area strike northwest and dip shallowly southwest.

Two major fracture orientations dominate both topography and distribution of alteration and mineralization. A major fault system extends from Buck Point, southeast for 40 kilometres to the head of Peel Inlet, and a major northeast trending fracture zone controls

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

silicification in the area.

Zone B, or the Saddle Zone, is located on the topographic saddle along the ridge south of Kitgoro Creek. This northeast trending zone is at least 600 metres long, 150 metres wide and is found along the southern contact of the granodiorite body. The zone is characterized by silicification, quartz veining and disseminated pyrite. The host rocks are felsic volcanics with minor interlayered Karmutsen mafic volcanics.

Rock samples contained up to 0.65 grams per tonne gold (Assessment Report 8519). Three holes drilled in 1981 by Canadian Nickel Ltd. (Inco) failed to intersect rock with significant amounts of gold.

The D Zone occurs along the north margin of the granodiorite stock about 140 metres northwest of the B Zone. This silicified zone occurs in similar rock as the B Zone and samples contained up to 0.61 grams per tonne gold (Assessment Report 8519).

#### **BIBLIOGRAPHY**

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EMPR EXPL 1979-243; 1980-372; 1981-41,245 EMPR FIELDWORK 1997, pp. 19-1-19-14
EMPR PF (\*Prospectus: Bateaux Resources Inc., April 1988: Includes
 Summary Report on the Bateaux Property by C.J. Westerman, Sept. 1987) GSC MAP 1385A GSC P 86-20; 88-1E; 89-1H; 90-10 Chevron File

DATE CODED: 1989/02/26 DATE REVISED: 1989/02/26 CODED BY: GJP REVISED BY: GJP FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103F 049

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 050

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 08 (NAD 83)

NORTHING: 5882278

EASTING: 667811

REPORT: RGEN0100

259

NAME(S): **BATEAUX (A)**, A

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 03 55 N LONGITUDE: 132 29 50 W ELEVATION: 100 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located near Kitgoro Inlet on Moresby Island (Assessment Report

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Arsenopyrite Pvrite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: H EPITHERMAL DIMENSION: 50 Metres STRIKE/DIP: TREND/PLUNGE: x 20

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

GROUP Vancouver Upper Triassic Karmutsen Upper Triassic Sadler Kunga

San Christoval Plutonic Suite Middle Jurassic ISOTOPIC AGE: 170-175 +/- 5 Ma

DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Felsic Dike

Basalt Felsic Volcanic Granodiorite I imestone

A felsic dike of unknown affinity cuts Karmutsen basalt and hosts HOSTROCK COMMENTS:

anomalous gold. Age date-Personal Communication: R.G. Anderson, 1989.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: A REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1979

SAMPLE TYPE: Grab **GRADE** COMMODITY

Gold 6.0000 Grams per tonne

COMMENTS: From a 5 centimetre wide arsenopyrite vein. REFERENCE: Assessment Report 7625.

**CAPSULE GEOLOGY** 

The property is underlain by Upper Triassic Karmutsen Formation (Vancouver Group) basaltic volcanics overlain by Upper Triassic Sadler Formation limestone. The Karmutsen rocks are interbedded with lenses of limestone and minor argillite. A variety of felsic volcanics occur throughout the area intercalated with Karmutsen mafic volcanics. These felsic rocks may be related to the Karmutsen eruptions or may be later intrusions. A granodiorite to tonalitic pluton, probably related to the Middle Jurassic San Christoval Plutonic Suite, intrudes the strata. The Karmutsen volcanics in this area strike northwest and dip shallowly southwest.

Two major fracture orientations dominate both topography and distribution of alteration and mineralization. A major fault system extends from Buck Point, southeast for 40 kilometres to the head of

RUN DATE: 26-Jun-2003 MINFILE MASTER R
RUN TIME: 12:06:33 GEOLOGICAL SURVEY R

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Peel Inlet, and a major northeast trending fracture zone controls silicification in the area.  $\,$ 

Zone A consists of a northwest trending felsic dike on the south side of the main valley creek near the head of Kitgoro Inlet. The dike is locally intensely quartz veined and silicified containing up to 4 per cent pyrite and arsenopyrite as disseminations and veinlets. Mineralized outcrops occur in an area about 50 metres long and 20 metres wide (Westerman, C.J., 1987).

Two rock chip samples taken by Noranda in 1979 contained 6.0 grams per tonne gold and 0.9 gram per tonne gold. The former value was derived from a 5 centimetre wide arsenopyrite vein (Assessment Report 7625).

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EMPR EXPL 1979-243; 1980-372; 1981-41,245

EMPR FIELDWORK 1997, pp. 19-1-19-14

EMPR PF (\*Prospectus: Bateaux Resources Inc., April 1988: Includes Summary Report on the Bateaux Property by C.J. Westerman, Sept. 1987)

GSC MAP 1385A

GSC P 86-20; 88-1E; 89-1H, pp. 117-120; 90-10, pp. 465-487

Chevron File

DATE CODED: 1989/02/27 DATE REVISED: / / CODED BY: GJP REVISED BY:

FIELD CHECK: N FIELD CHECK:

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 051

NATIONAL MINERAL INVENTORY:

NAME(S): LOWLAND PEAT

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F16E BC MAP:

LATITUDE: 53 54 59 N

LONGITUDE: 132 05 06 W ELEVATION: 50 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Peat covers large areas of the Queen Charlotte Lowlands. Exact area

of mining enterprise was not reported (Bulletin 54).

COMMODITIES: Peat

MINERALS
SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated Stratiform CLASSIFICATION: Fossil Fuel Industrial Min.

TYPE: A01

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary GROUP Undefined Group **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5977975

EASTING: 691549

REPORT: RGEN0100

261

LITHOLOGY: Peat

HOSTROCK COMMENTS:

Quaternary sediments cover large portions of the Queen Charlotte Lowlands where the post-glacial peat occurs.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Overlap Assemblage

PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

#### CAPSULE GEOLOGY

The northeast section of Graham Island has very little relief and is covered by Quaternary sediments that overlie the Tertiary Skonun and Masset formations. These sediments consist of recent alluvium,

till, marine drift and outwash sands.

Very large reserves of post-glacial peat and peat-moss occur on the Queen Charlotte Lowland. The quality of the peat moss is reported to be excellent. Larger deposits typically exceed 5000 hectares in size and consist mainly of flat and slope bogs of moderate depth (1.6 to 1.9 metres mean depth). Flat bogs consist predominantly of poorly decomposed sphagnum-moss peats overlying well-humified amorphous and sedimentary peats. Slope bogs are comprised mostly of surficial sphagnum-moss peats overlying amorphous sedge and sedimentary layers.

An operation to harvest the peat moss by hydraulic methods started production in 1967 (A. Sutherland Brown, Bulletin 54). No information on the production or location is reported.

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EMPR BULL \*54, p. 178

EMPR OF \*1988-33, pp. 20-25, 35 GSC MAP 1385A

GSC P 86-20; 88-1E; 89-1H; 90-10

DATE CODED: 1989/03/02 CODED BY: GJP REVISED BY: GJP DATE REVISED: 1989/03/29

MINFILE NUMBER: 103F 051

FIELD CHECK: N

FIELD CHECK: N

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 052

NATIONAL MINERAL INVENTORY:

NAME(S): CIMADORO, MAIN, WEST, BARITE, CIMADORO 1-2

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103F01W 103F01E

BC MAP:

LATITUDE: 53 04 59 N LONGITUDE: 132 15 06 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located just north of Security Cove, 35.0 kilometres west of Sandspit on northwest Moresby Island; showings straddle Cimadoro 1 and 2

claims.

COMMODITIES: Zinc

Barite

I ead

Gold

Silver

Copper

PAGE:

REPORT: RGEN0100

262

**MINERALS** 

SIGNIFICANT: Pyrite

Sphalerite **Barite** 

Graphite

Galena

Pyrrhotite

Chalcopyrite

Barite

ASSOCIATED: Pyrrhotite

ALTERATION: Chlorite ALTERATION TYPE: Chloritic

MINERALIZATION AGE: Paleozoic

DEPOSIT

CHARACTER: Podiform CLASSIFICATION: Exhalative TYPE: G06 No Stratabound

Massive

Volcanogenic Syngenetic Noranda/Kuroko massive sulphide Cu-Pb-Zn

Industrial Min.

SHAPE: Tabular

MODIFIER: Faulted

DIMENSION:

Metres

STRIKE/DIP: 150/80N

TREND/PLUNGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5884859 EASTING: 684185

COMMENTS: Galena-lead isotope readings from the main showing (George Cross

Newsletter #219, Nov. 13, 1990).

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Pennsylvan.-Permian Pennsylvan.-Permian

**GROUP Buttle Lake** Sicker

**FORMATION** Cameron River Cameron River IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Chert

Argillite Limestone

Calcareous Siltstone Volcanic Rock Barite Diabase Sill

HOSTROCK COMMENTS:

Host unit is possibly the equivalent of the Cameron River Formation

of the Buttle Lake/Sicker Group ("sediment-sill unit").

GEOLOGICAL SETTING
TECTONIC BELT: Insular

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADF: Greenschist

COMMENTS: Metamorphism is pre-, syn-, and post-mineralization.

INVENTORY

ORE ZONE: LOWER MAIN

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1990

SAMPLE TYPE: Drill Core

COMMODITY Silver Gold

173.5000 Grams per tonne 0.2700 Grams per tonne 0.3900 Per cent

Copper Zinc

5.3300 Per cent

Lead 16.7800 Per cent COMMENTS: Drill hole intersection over 1.6 metres in Lower (Main) showing.

REFERENCE: Assessment Report 22952, page 3.

**CAPSULE GEOLOGY** 

The region encompassing the headwaters of Deena Creek on

**GRADE** 

MINFILE NUMBER: 103F 052

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

northwestern Moresby Island is traversed by a northwest trending belt of steeply dipping chert, argillite, calcareous siltstone, limestone and calc-silicate beds that are intruded by a series of gabbroic and diabase sills. The unit may be equivalent to the Pennsylvanian-Permian Cameron River Formation of the Buttle Lake/Sicker Group ("sediment-sill unit") of Vancouver Island. The belt is flanked to the northeast by Upper Triassic Karmutsen Formation (Vancouver Group) basalts. Karmutsen volcanics and a diorite intrusive, possibly of the Tertiary Kano Plutonic Suite, underlie the area immediately southwest of the Paleozoic belt.

Mineralization at surface is contained in four showings, the Gord (West), Lower(Main), Upper and Cliff showings, which are distributed over a length of 200 metres along the northwest trending faulted contact between the Cameron River Formation and Karmutsen basalts to the northeast. The showings consist of massive to semi-massive sulphide lenses up to 5 metres in length hosted in argillite, chert and limestone. Bedding strikes 150 degrees and dips steeply north. Weak graphitic and chloritic alteration is locally present. The area of the showings is cut by numerous faults that are subparallel and perpendicular to bedding.

Mineralization consists of pyrite, sphalerite, galena, pyrrhotite, and chalcopyrite, occurring in varying amounts in the lenses. The Lower showing consists of crudely banded sulphides with an associated bed of barite. The Upper showing, located farther southeast, consists of fine laminations and wispy discontinuous bands of sphalerite and pyrite.

Sampling of the Upper showing has returned values of up to 12.05 per cent zinc over 2 metres (Assessment Report 22952, page 3). Other metals at this showing averaged 0.6 per cent copper, 0.7 per cent lead, 74 grams per tonne silver and 0.5 gram per tonne gold (Assessment Report 22952, page 3). Drilling on the Lower showing returned up to 16.78 per cent zinc, 5.33 per cent lead, 0.39 per cent copper, 173.5 grams per tonne silver and 0.27 gram per tonne gold over 1.6 metres (Assessment Report 22952, page 3). A sample of oxidized clay fault gouge at the Lower showing assayed 41.55 grams per tonne gold, 1361.6 grams per tonne silver, 2.05 per cent lead and 0.27 per cent copper (Assessment Report 19263, sample Gl304).

This prospect was discovered in 1988 by E. Specogna after

This prospect was discovered in 1988 by E. Specogna after following up stream sediment samples that contained anomalous copper. Doromin Resources conducted geological mapping and sampling in 1989. Teck Corp. optioned the property shortly afterwards and continued exploration by collecting 38 stream sediment samples in 1989 and drilling six diamond drill holes totaling 956.1 metres in 1990. Doromin Resources continued work with the drilling of nine short holes in 1991. The property was reoptioned to Inco Explorations, which flew airborne VLF and magnetometer surveys in 1992, and drilled four holes totaling 910 metres in 1993.

### **BIBLIOGRAPHY**

EMPR ASS RPT 19263, 19283, \*19705, 22517, \*22952

EMPR BULL 54

EMPR INF CIRC H.P.W. Nov.20, 1989

EMPR OF 1999-2

EMPR PF (Wilton, P. (1989): Confidential File)

GSC MAP 1385A; 4-1990

GSC P 88-1E, pp. 213-216,\*221-227; 89-1H, pp. 95-112; 90-10

GCNL #112(Jun.12), #196(Oct.12), 1989; #112(Jun.11),#219(Nov.13), 1990

N MINER \*Supplement March, 1989, pp. 7,8

PERS COMM (Marino Specogna, Mar.31, 1989)

DATE CODED: 1989/03/31 CODED BY: LLD FIELD CHECK: N
DATE REVISED: 1999/09/25 REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 053

NATIONAL MINERAL INVENTORY:

NAME(S): **FLORENCE CREEK** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F09W BC MAP:

LATITUDE: 53 32 45 N LONGITUDE: 132 16 11 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centred on Site 4 on northwest side of Florence Creek, 16 kilometres southwest of Port Clements (Geological Fieldwork 1989,

page 486, Figure 5-1-6).

COMMODITIES: Volcanic Glass Perlite

**MINERALS** 

SIGNIFICANT: Volcanic Glass Perlite

COMMENTS: Glassy dacite. ASSOCIATED: Feldspar

COMMENTS: As phenocrysts in dacite.

MINERALIZATION AGE: Tertiary

DEPOSIT

CHARACTER: Massive

CLASSIFICATION: Volcanogenic Sync TYPE: R12 Volcanic glass - perlite Syngenetic

DIMENSION: 300 Metres

STRIKE/DIP:

Industrial Min.

TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE

Unnamed/Unknown Group

**FORMATION** Masset

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5936279

EASTING: 681006

REPORT: RGEN0100

264

LITHOLOGY: Medium Grained Feldspar Porphyry Dacite

HOSTROCK COMMENTS: Tartu member, Unit TMfh (Geological Survey of Canada Map 6-1990).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

CAPSULE GEOLOGY

This showing of expandable volcanic glass lies in an area underlain by basaltic flows and breccias and by rhyolite flows of the Tertiary Masset Formation. The entire sequence dips gently to the northwest.

A roadcut northwest of Florence Creek, 15 kilometres southwest of Port Clements, exposes black, medium-grained, feldspar porphyritic glassy dacite for a length of 300 metres. The dacite pops violently when heated with a propane torch, instead of expanding gradually as for a nearby perlite occurrence (103F 022). A sample tested by CANMET exhibited the following characteristics (Geological Fieldwork 1990, pages 265 to 267):

Per cent weight loss when heated to 800 degrees Celsius: Softening temperature (degrees Celsius): 1210-1240 Density before heating (kg per cubic metres): 2570 Density after heating to softening temp. (kg per cubic metre): 928

**BIBLIOGRAPHY** 

EMPR BULL 54, p. 175
EMPR FIELDWORK \*1989, pp. 481-487; \*1990, pp. 265-268; 1997, pp.

19-1-19-14

GSC MAP 1385A; 6-1990

GSC P 86-20; 88-1E, pp. 269-274; 89-1H, pp. 73-79; 90-10, pp. 305-324

DATE CODED: 1991/05/13 DATE REVISED: 1999/10/31

CODED BY: PSF REVISED BY: PSF

FIELD CHECK: N

MINFILE NUMBER: 103F 053

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 054

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5880446

**EASTING: 677887** 

REPORT: RGEN0100

265

NAME(S): MATAJUR (A ZONE), BILL

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 02 38 N LONGITUDE: 132 20 47 W ELEVATION: 30 Metres

LOCATION ACCURACY: Within 500M

COMMODITIES: Copper

COMMENTS: Centre of surface trace of "A" Zone, 100 metres northwest of

MacKenzie Cove (Assessment Report 20330, Figure 4A).

Silver

MINERALS SIGNIFICANT: Pyrite

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Massive Shear

CLASSIFICATION: Hydrothermal TYPE: Unknown

SHAPE: Tabular

MODIFIER: Sheared STRIKE/DIP: 160/70E DIMENSION: 2 Metres TREND/PLUNGE: / Х

COMMENTS: Massive sulphide pod hosted in a shear zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP** STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Vancouver Karmutsen

LITHOLOGY: Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: A ZONE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YEAR: 1990 Assay/analysis

**GRADE** COMMODITY Per cent 1.0000

Copper COMMENTS: Chip sample taken across 4.5 metres of gossanous outcrop.

REFERENCE: Assessment Report 22952, Figure 3.

**CAPSULE GEOLOGY** 

The area immediately northwest of Mackenzie Cove is underlain by basalts and minor limestone of the Upper Triassic Karmutsen Formation. A diorite intrusion, possibly of the Jurassic San Christoval Plutonic Suite, intrudes the basalts farther to the northwest.

A pod of massive sulphide, 2 by 1.3 metres in size, outcrops in a small steeply plunging gully along a shear zone striking 160 degrees and dipping 70 degrees east. A channel sample taken over 1.3 metres and dipping 70 degrees east. A channel sample taken over 1.3 metrassayed 1.44 per cent copper and 1.1 grams per tonne silver (Assessment Report 20330, Figure 5A, Sample D3). A pyritic zone outcrops over an area 5 by 15 metres in size, 30 metres north-northwest of the massive sulphide pod. The zone appears to continue for some distance to the southwest along a cliff face overlooking the northwest shore of Mackenzie Cove. A chip sample taken across 5 metres assayed 0.37 per cent copper (Sample D4). Another chip sample taken across 4.5 metres of gossanous outcrop assayed 1.0 per cent copper (Assessment Report 22952, Figure 3).

This showing was mapped and sampled by Doromin Resources Ltd.

This showing was mapped and sampled by Doromin Resources Ltd. in 1990. The company also completed a VLF-EM and magnetometer survey along one line 170 metres long. Inco Exploration and Technical Services Inc. completed airborn electromagnetic and magnetometer surveys over the showing in 1992.

MINFILE NUMBER: 103F 054

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*20330, 22517, 22952 EMPR BULL 54 GSC P 86-20; 88-1E; 89-1H; 90-10 GSC MAP 1385A

DATE CODED: 1999/10/14 DATE REVISED: 1999/10/15 CODED BY: PSF REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103F 054

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 055

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5880532

EASTING: 676877

REPORT: RGEN0100

267

NAME(S): **HOOD**, NATISONE

STATUS: Showing REGIONS: Queen Charlotte Islands

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 02 42 N

LONGITUDE: 132 21 41 W ELEVATION: 500 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centred on Hood showing, 1.5 kilometres west of the north end of

Mackenzie Cove (Assessment Report 22952, Figure 3).

COMMODITIES: Zinc Silver Copper Lead

**MINERALS** 

SIGNIFICANT: Sphalerite Galena Chalcopyrite Pyrite

ASSOCIATED: Quartz Pyrite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein Shear CLASSIFICATION: Hydrothermal TYPE: 105 Polym thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: Shear hosted quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Vancouver Karmutsen

San Christoval Plutonic Suite Júrassic

LITHOLOGY: Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1993 Assav/analysis

SAMPLE TYPE: Unknown **GRADE** COMMODITY

Silver 78.0000 Grams per tonne Copper 1.6000 Per cent 1.5000 Per cent Lead 4.4000 Per cent 7inc

REFERENCE: Assessment Report 22952, Figure 3.

**CAPSULE GEOLOGY** 

The area west of Mackenzie Cove is underlain by Upper Triassic Karmutsen basalts, metabasalts and minor limestone, which are intruded by diorite possibly related to the Jurassic San Christoval

Plutonic Suite.

This showing consists of a shear hosted quartz-pyrite-sphalerite-galena-chalcopyrite vein, 30 to 40 centimetres thick. The vein parallels the foliation of the enclosing metabasalts. A sample of the vein assayed 4.4 per cent zinc, 1.6 per cent copper, 1.5 p cent lead and 78 grams per tonne silver (Assessment Report 22952, 1.5 per Figure 3).

This showing was sampled by Doromin Resources Ltd. in the early 1990s. Inco Exploration and Technical Services Inc. flew airborn electromagnetic and magnetometer surveys over the showing in 1992.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*22517, \*22952

EMPR BULL 54

GSC MAP 1385A

GSC P 86-20; 88-1E; 89-1H; 90-10

DATE CODED: 1999/10/15 CODED BY: FIELD CHECK: N REVISED BY: PSF DATE REVISED: 1999/10/31 FIFLD CHECK: N

MINFILE NUMBER: 103F 055

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 056

NATIONAL MINERAL INVENTORY:

NAME(S): ROD, NATISONE

STATUS: Showing REGIONS: Queen Charlotte Islands

NTS MAP: 103F01W BC MAP:

LATITUDE: 53 02 29 N LONGITUDE: 132 22 49 W ELEVATION: 600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centred on Rod showing, 1.2 kilometres north of Kuper Inlet, 2.3 kilometres west-southwest of the north end of Mackenzie Cove

(Assessment Report 22952, Figure 3).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite ASSOCIATED: Pyrite ALTERATION: Epidote Clay

ALTERATION TYPE: Epidote Argillic

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Hydrothermal **Epigenetic** TYPF: Unknown

COMMENTS: 3 to 75 centimetre thick zone of massive chalcopyrite and pyrite.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u>

Upper Triassic Júrassic

Vancouver

**FORMATION** Karmutsen

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5880084 EASTING: 675625

REPORT: RGEN0100

268

San Christoval Plutonic Suite

LITHOLOGY: Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: SHOWING

REPORT ON: N

CATEGORY: Assay/ana SAMPLE TYPE: Unknown Assay/analysis

YEAR: 1993

COMMODITY

**GRADE** 10.0000 Per cent

Copper

COMMENTS: Massive sulphide zone is reported to assay greater than 10 per cent copper (Assessment Report 22952, Figure 3).

REFERENCE: Assessment Report 22952, Figure 3.

CAPSULE GEOLOGY

The area west of Mackenzie Cove is underlain by Upper Triassic Karmutsen basalts, metabasalts and minor limestone, which are intruded by diorite possibly related to the Jurassic San Christoval

Plutonic Suite.

The Rod showing consists of a horizon of massive chalcopyrite and pyrite, 3 to 75 centimetres thick, hosted in epidote and clay altered basalts. Samples from the zone are reported to assay greater than 10 per cent copper (Assessment Report 22952, Figure 3).

This showing was sampled by Doromin Resources Ltd. in the early 1990s. Inco Exploration and Technical Services Inc. flew airborn electromagnetic and magnetometer surveys over the showing in 1992.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*22517, \*22952

EMPR BULL 54

GSC MAP 1385A

GSC P 86-20; 88-1E; 89-1H; 90-10

DATE CODED: 1999/10/15 DATE REVISED:

CODED BY: PSF REVISED BY:

MINFILE NUMBER: 103F 056

FIELD CHECK: N FIFLD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 057

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5921081

EASTING: 679169

REPORT: RGEN0100

269

NAME(S): YAKOUN RIVER OIL SHALE

STATUS: Showing REGIONS: Queen Charlotte Islands

NTS MAP: 103F08W BC MAP:

LATITUDE: 53 24 30 N

LONGITUDE: 132 18 16 W ELEVATION: 140 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location based on collar of drill hole 179 near MacMillan Bloedel

logging road Ghost Main, 3.1 kilometres southwest of the confluence of Ghost Creek and the Yakoun River, 6.4 kilometres north of Yakoun

Lake (Geological Survey of Canada Bulletin 365, Figure 5).

COMMODITIES: Bitumen

**MINERALS** 

SIGNIFICANT: Bitumen ASSOCIATED: Calcite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Stratabound

CLASSIFICATION: Fossil Fuel

Industrial Min.

TYPE: A06 Oil shale DIMENSION: 76

Metres

Concordant

Sedimentary STRIKE/DIP:

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Lower Jurassic Maude Triassic-Jurassic Kunga

**FORMATION** Ghost Creek Sandilands

LITHOLOGY: Siltstone

Argillaceous Siltstone Sandstone Sandy Limestone Silty Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

#### CAPSULE GEOLOGY

The area between the Yakoun River and its northeastward flowing tributary, Ghost Creek, is underlain by sediments of the Upper Triassic to Lower Jurassic Kunga Group and conformably overlying Lower Jurassic Maude Group. The basal formation of the Maude Group, the Ghost Creek Formation, consists of dark grey shale and silty shale that is characteristically fetid and bituminous. The upper most formation of the Kunga Group, the Upper Triassic to Lower Jurassic Sandilands Formation, locally also contains oil-bearing

black argillites and shales.
A drill hole collared near MacMillan Bloedel's Ghost Main logging road, 2 kilometres west of the Yakoun River, encountered a 76-metre section of Ghost Creek Formation, comprised of very argillaceous, dark grey siltstone with minor thin interbeds of shale, limestone and sandstone. The unit is overlain by 44 metres of medium grey siltstone and minor sandy limestone of the Rennel Junction Formation (Maude Group) and underlain by 90 metres of interbedded to interlaminated cyclically graded sandstone to siltstone and lesser argillaceous siltstone of the Sandilands Formation (Kunga Group). Bitumen is locally present throughout the Ghost Creek Formation and is somewhat more abundant in the upper two-thirds of the formation at about 62 to 111 metres depth. Here, bitumen and heavy oil seepage occurs in calcite veined, brecciated intervals and fractures. Similar breccia zones and fractures in the underlying Sandilands Formation are locally bituminous and stained with oil.

This showing was drilled by Intercoast Resources some time prior to 1985.

**BIBLIOGRAPHY** 

EMPR BULL 54, pp. 60-66,178,179

MINFILE NUMBER: 103F 057

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC BULL \*365, pp. 16-20 GSC MAP 1385A; 5-1990 GSC OF 2319 GSC P 86-20; 88-1E, pp. 221-227; 89-1H; pp. 19-22; 90-10, pp. 51-58

DATE CODED: 1999/10/30 DATE REVISED: / / CODED BY: PSF REVISED BY: FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103F 057

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 058

NATIONAL MINERAL INVENTORY:

NAME(S): SUPERBABE

STATUS: Showing REGIONS: Queen Charlotte Islands NTS MAP: 103F08E BC MAP:

LATITUDE: 53 16 00 N LONGITUDE: 132 15 07 W ELEVATION: 450 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on site of rock sample 1 (Assessment Report 24987, Figure 4).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Pyrite

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

Hydrothermal PORPHYRY TYPE: L

Porphyry

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Tertiary

GROUP Undefined Group

FORMATION Masset

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5905459 EASTING: 683265

REPORT: RGEN0100

271

LITHOLOGY: Felsic Intrusive

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

**CAPSULE GEOLOGY** 

The area encompassing the showing on the northwest flank of Slatechuck Mountain is underlain by mafic to felsic flows and

pyroclastic equivalents of the Tertiary Masset Formation.

Mineralization consists of molybdenite along fractures in a felsic intrusion. Granodiorite with pyrite blebs outcrops 550 metres

to the southeast.

This showing was discovered by E. Specogna in 1997, while

prospecting the area.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*24987

EMPR BULL 54

GSC MAP 1385A; 5-1990 GSC OF 2319

GSC P 88-1E; 89-1H, pp. 19-22; 90-10

DATE CODED: 1999/09/29 DATE REVISED: / /

CODED BY: PSF REVISED BY:

FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103F 058

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 059

NATIONAL MINERAL INVENTORY:

NAME(S): STEVEN, VICTORY

STATUS: Showing REGIONS: Queen Charlotte Islands

NTS MAP: 103F08W BC MAP:

LATITUDE: 53 25 51 N LONGITUDE: 132 21 52 W ELEVATION: 400 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on Victory zone, 600 metres northeast of Ghost Creek

(Assessment Report 18413, Figure 3).

COMMODITIES: Arsenic

Antimony

Mercury

**MINERALS** 

SIGNIFICANT: Realgar

Marcasite

Stibnite

Orpiment Pyrite Cinnabar

ASSOCIATED: Marcasite ALTERATION: Quartz

Chlorite ALTERATION TYPE: Silicific'n

Clay Chloritic

Argillic

DEPOSIT

MINERALIZATION AGE:

CHARACTER: Stratabound CLASSIFICATION: Replacement

Stratiform **Epigenetic**  Concordant Syngenetic

Disseminated Epithermal

TYPE: H

**EPITHERMAL** 

SHAPE: Tabular DIMENSION: 12

Metres COMMENTS: Attitude of bedded mineralized horizon. STRIKE/DIP: 110/46N

TREND/PLUNGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5923434

EASTING: 675090

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Cretaceous

**GROUP** 

Queen Charlotte

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

272

LITHOLOGY: Cherty Argillaceous Sandstone

Argillite

Tuff Wacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: SHOWING

REPORT ON: N

Assay/analysis

CATEGORY: Assa SAMPLE TYPE: Chip

YFAR: 1988

**COMMODITY** 

**GRADE** 11.8000 Per cent

Arsenic Mercurv

0.1360

Per cent

Antimony

Per cent 1.2400

COMMENTS: Chip sample of mineralized boulders. REFERENCE: Assessment Report 18413, page 13.

**CAPSULE GEOLOGY** 

The area along the northeast side of Ghost Creek is underlain by a massive sandstone overlain by thinly bedded turbiditic sandstones  ${\sf C}$ and shales, followed by conglomerates of the Cretaceous Honna
Formation. The turbiditic unit was previously included with the
Cretaceous Haida or Skidegate formations and is now considered an
unnamed unit during a revision of the nomenclature for the Cretaceous Queen Charlotte Group (Geological Survey of Canada Paper 91-1A, pp. 367-371).

Mineralization consists of up to 30 per cent realgar, 5 per cent stibnite, 5 per cent orpiment, with lesser pyrite, cinnabar and marcasite, occurring as massive pods, disseminations, veinlets and fracture fillings, within a cherty argillaceous sandstone near the top of the turbidite unit. The mineralized horizon is structurally overlain by silicified argillite, chloritic wacke and chlorite-clay altered sandy tuff. The mineralization is exposed over a width of 2.5 - 3 metres and a length of 10 - 12 metres. It strikes 110

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

degrees and dips 46 degrees north. Realgar, framboidal pyrite and marcasite exhibit bedding, but replacement textures also occur. Mineralization is cut off by a shear striking 11 degrees and dipping 85 degrees southwest. A chip sample of mineralized boulders assayed 11.8 per cent arsenic, 1.24 per cent antimony, 0.136 per cent mercury and less than 0.005 grams per tonne gold (Assessment Report 18413,

page 13).

The Victory zone was discovered by Newmont Exploration of Canada Ltd. in 1988, while prospecting along a newly constructed logging road. The zone was geologically mapped and sampled by the company.

#### **BIBLIOGRAPHY**

EMPR ASS RPT \*18413 EMPR BULL 54 GSC MAP 1385A; 5-1990 GSC OF 2319 GSC P 88-1E, pp. 367-371; 90-10, pp. 253-277, 279-294; 91-1A, pp. 367-371

DATE CODED: 1999/10/02 DATE REVISED: / / CODED BY: PSF REVISED BY: FIELD CHECK: N

MINFILE NUMBER: 103F 059

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 001

NATIONAL MINERAL INVENTORY: 103G13 Au1

PAGE:

**EASTING: 322995** 

REPORT: RGEN0100

274

NAME(S): BULL SWAMP, BLACK SANDS, MASSET SOUND

STATUS: Past Producer Open Pit

MINING DIVISION: Skeena REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103G13E

UTM ZONE: 09 (NAD 83) BC MAP: LATITUDE: 53 59 29 N NORTHING: 5985753

LONGITUDE: 131 42 06 W ELEVATION: 2 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol located on the northeast coast of Graham Island about 8.0

kilometres from Cape Fife, beginning at Martel Creek and extending 4.8 kilometres south (Bulletin 54, Figure 34).

COMMODITIES: Gold Magnetite Iron Titanium Zirconium

**MINERALS** 

SIGNIFICANT: Gold Ilmenite Magnetite Zircon Titanite

ASSOCIATED: Rutile Hematite Garnet **Epidote** Staurolite Quartz

MINERALIZATION AGE: Recent

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Placer Sedimentary Residual Industrial Min.

TYPE: C03 Marine placers

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary IGNEOUS/METAMORPHIC/OTHER FORMATION Unnamed/Unknown Informal

LITHOLOGY: Unconsolidated Sandstone

Sandstone Clay Gravel Conglomerate

HOSTROCK COMMENTS: Pleistocene to Recent unconsolidated sediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

TERRANE: Overlap Assemblage

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1957

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Per cent Iron 41.4800 Titanium 8.3800 Per cent

COMMENTS: Average of 2 head samples. Grade is for TiO2.

REFERENCE: CANMET Report MD 3177, 1957.

**CAPSULE GEOLOGY** 

The area is 8 kilometres from Cape Fife, beginning at Martel

Creek and extending south for 4.8 kilometres.

The gold bearing black sands of northeast Graham Island have been known since 1877. The sands were examined in 1905 and in 1910 Sandhurst Gold Mines, Limited, investigated the sands. In 1925, Tretheway-Tough Mining Syndicate tested the sand by amalgamation and cyanidation methods. Results showed recovery of 80 per cent of the gold in a fine free state, with values averaging \$2.90 per ton of Gold Beach Mines, Limited, operated in the area in 1932.
Mogul Mining Corporation Limited in about 1956 acquired placer

mining leases covering about 88.4 square kilometres. In June 1957 Lexindin Gold Mines, Limited, acquired from Mogul a 65 per cent interest in the property.

Pleistocene to Recent deposits of unconsolidated to semiconsolidated sands, clays, sandy clays, gravels, conglomerates, and a basal blue-grey glacial clay overlie Tertiary Skonun Formation.

Black sand deposits have a lenticular and varying distribution along the base of bordering beach-bluffs. The black sands, derived

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

from the erosion of the bluffs and subsequent concentration by wave and wind action, contain magnetite, titaniferous-hematite, ilmenite, rutile, zircon, and gold.

Beach sand and cyanide tailings samples were sent to the Mines Branch in Ottawa, in December 1956 and June 1957 for tests for concentrates of magnetite, ilminite, rutile and zircon. A chemical analysis of 2 head samples gave averages of 41.48 per cent iron and 8.38 per cent titanium dioxide (CANMET Report MD 3177, 1957).

Recorded production for the Masset Sound and northeast Graham Island beach placers is as follows (See Oeanda - 103G 002):

YEAR	GOL	D (GRAMS)
1921-1925		124
1926-1930		871
1931-1935		10,358
1936-1940		8,147
1941-1945		2,737
	TOTAL	22.239

#### **BIBLIOGRAPHY**

EMPR AR 1906-75,77; 1909-72; 1910-85; 1911-78; 1918-37,104; 1922-40; 1924-43; 1925-65; 1926-65,66; 1928-63; \*1929-62-65; 1930-63; 1932-38,39; 1933-40; 1935-B27

EMPR BULL 1 (1933), pp. 24-25; 2(1930), pp. 28-31; 21, p. 17; 28, p. 48; \*54, p. 174

EMPR OF \*1988-28, pp. 138-142

EMPR PF (Thompson, R.M., Howard, H.M., (1957): Testing of Queen Charlotte Sands, for Western Canada Steel Ltd., Mar.2, 1957)

EMR MIN BULL MR #31, 1959, p. 142

EMR MP CORPFILE (The Queen Charlotte Islands Collieries, Limited; Tretheway-Tough Mining Syndicate, Limited)

GSC MAP 176A; 177A; 278A; 1385A

GSC MEM 88, pp. 173,174

GSC P 69-54, Table 1; 86-20; 88-1E; 89-1H; 90-10

B.C. MINER Nov., 1933, pp. 714-718

CANMET IR No. MD 3177, Oct., 1957

CMJ Nov.28, 1924, p. 1165

Dawson, G.M. (1879): Queen Charlotte Islands, Reports of Progress, 1878-1879; GSC, p. 33B

DATE CODED: 1986/06/03 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/02/27 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 001

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 002

NATIONAL MINERAL INVENTORY: 103G13 Au2

PAGE:

REPORT: RGEN0100

276

NAME(S): OEANDA, BLACK SANDS, MASSET SOUND

STATUS: Past Producer Open Pit MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103G13W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 53 54 59 N NORTHING: 5977537 LONGITUDE: 131 45 06 W EASTING: 319394

ELEVATION: 1 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54); located on the northeast coast of

Graham Island about 4.8 kilometres south of the mouth of the Oeanda

River.

COMMODITIES: Gold Titanium Iron 7irconium

**MINERALS** 

SIGNIFICANT: Gold Magnetite Ilmenite 7ircon Titanite

ASSOCIATED: Rutile Hematite Garnet **Epidote** Staurolite Quartz

MINERALIZATION AGE: Recent

**DEPOSIT** 

CHARACTER: Unconsolidated

CLASSIFICATION: Placer Sedimentary Residual Industrial Min.

TYPE: C03 Marine placers

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE QROUP Quaternary IGNEOUS/METAMORPHIC/OTHER FORMATION Unnamed/Unknown Informal

LITHOLOGY: Unconsolidated Sandstone

Sandstone Clay Gravel Conglomerate

HOSTROCK COMMENTS: Pleistocene to Recent unconsolidated sediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

TERRANE: Overlap Assemblage

CAPSULE GEOLOGY

The gold-bearing black sands of northeast Graham Island have been known since 1877. The Oeanda area is located 4.8 kilometres

south of the mouth of the Oeanda River.

The sands were examined in 1906, and in 1910 Sandhurst Gold Mines, Limited, obtained 13 placer leases. In 1918 the company installed a centrifugal action gold amalgamating machine. They have estimated the sand would average 60 cents per yard, with maximum values of \$4 per yard in gold. In the summer of 1924 the area was tested by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method and 2 to 2.0 method by 57 pits 0.0 x 15 method by 57 They had tested by 57 pits, 0.9 x 1.5 metres and 2 to 3.6 metres deep. Taverage assay was 77 cents per ton of gold. The following year Tretheway-Tough Mining Syndicate, Limited, financed operations and testing. Twenty-eight assays from pit samples gave an average of \$2.90 per ton of gold and a recovery rate of 81 per cent of gold. In 1930, Hanssen Positive Separation-Mining Co., Limited, recovered \$325 in gold; the company declared bankruptcy on Nov. 27, 1930. In 1932 testing was carried on by Gold Beach Mines, Limited.

Mogul Mining Corporation Limited in about 1956 acquired placer mining leases covering about 17 square kilometres. In June 1957 Lexindin Gold Mines, Limited, acquired from Mogul a 65 per cent interest in the property.

Pleistocene to Recent deposits of unconsolidated to semiconsolidated sands, clays, sandy clays, gravels, conglomerates, and a basal blue-grey glacial clay overlie Tertiary Skonun Formation. The basal formation blue-grey glacial clay ranges up to 69 metres in thickness with 0.3 to 0.6 metre beds of ferrugenous gravel which lie above and below the clay beds. Sand and peat lie unconformably on the clay and cemented gravel beds which dip 015 degrees and strike east-west.

Black sand deposits have a lenticular and varying distribution along the base of bordering beach-bluffs. The black sands, derived

MINFILE NUMBER: 103G 002

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

from the erosion of the bluffs and subsequent concentration by wave and wind action, contain magnetite, titaniferous-hematite, ilmenite, rutile, zircon, and gold.

Beach sand and cyanide tailings samples were sent to the Mines Branch, Ottawa, in December 1956 and June 1957 for tests for concentrates of magnetite, ilminite, rutile and zircon. A chemical analysis of 2 head samples gave averages of 41.48 per cent iron and 8.38 per cent titanium dioxide (Mines Branch, Ottawa, Investigation Report No. MD 3177, October 1957).

Recorded production for the Masset Sound and northeast Graham Island beach placers is as follows (See Bull Swamp - 103G 001):

YEAR	GRAMS GOLD	
1921-1925	124	
1926-1930	871	
1931-1935	10,358	
1936-1940	8,147	
1941-1945	2,737	
	TOTAL 22,239	

#### **BIBLIOGRAPHY**

EMPR AR 1906-75,77; 1909-72; 1910-85; 1911-78; 1918-37,104; 1922-40; 1924-43; 1925-65; 1926-65,66; 1928-63; \*1929-62-65; 1930-63; 1932-38,39; 1933-40; 1935-B27

EMPR BULL 1 (1933), pp. 24-25; 2(1930), pp. 28-31; 21, p. 17; 28, p. 48; \*54, p. 174

EMPR OF \*1988-28, pp. 138-142

EMPR PF (Thompson, R.H., Howard, H.M., (1957): Testing of Queen Charlotte Sands for Western Canada Steel Ltd., Mar.2, 1957)

EMR MIN BULL MR #31, 1959, p. 142

EMM MP CORPFILE (The Queen Charlotte Islands Collieries, Limited; Tretheway-Tough Mining Syndicate, Limited)

GSC MAP 176A; 177A; 278A; 1385A

GSC MEM 88, pp. 173,174

GSC P 69-54, Table 1; 86-20; 88-1E; 89-1H; 90-10

B.C. MINER NOV., 1933, pp. 714-718

CANMET IR No. MD 3177, Oct., 1957

CMJ Nov.28, 1924, p. 1165

Dawson, G.M. (1879): Queen Charlotte Islands, Reports of Progress, 1878-1879; GSC, p. 33B

Western Canada Mining News, Aug.10, 1930

DATE CODED: 1986/06/03 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 003

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5954995 EASTING: 310443

REPORT: RGEN0100

278

NAME(S): **CAPE BALL** 

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103G12W BC MAP:

LATITUDE: 53 42 39 N LONGITUDE: 131 52 26 W ELEVATION: 2 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Agates along the beach and in bluffs at Cape Ball.

COMMODITIES: Agate Gemstones

**MINERALS** 

SIGNIFICANT: Agate MINERALIZATION AGE: Unknown Chalcedony Quartz

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: Q03 Agate

Residual Sedimentary Industrial Min.

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal **FORMATION** 

LITHOLOGY: Unconsolidated Sediment/Sedimentary

Conglomerate Sandstone Clay

HOSTROCK COMMENTS: Pleistocene to Recent unconsolidated sediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

TERRANE: Overlap Assemblage

**CAPSULE GEOLOGY** 

Pleistocene to Recent deposits of unconsolidated to semiconsolidated sands, clays, sandy clays, gravels, conglomerates, and a basal blue-grey glacial clay overlie Tertiary Skonun Formation. Agate pebbles, from carnelian to an opaque and banded matrix variety of buff, brown and black shades, occur on the beach from Cape Ball to Fife Point. The agates occur in semi-consolidated conglomerates in bluffs at Cape Ball.

**BIBLIOGRAPHY** 

EMPR AR \*1932-40; 1933-40,41

EMPR BULL 54

EMPR FIELDWORK 1997, pp. 19-1-19-14 GSC MAP 176A; 177A; 278A; 1385A GSC MEM 88 GSC P 86-20; 88-1E; 89-1H; 90-10

DATE CODED: 1986/06/03 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 003

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 004 NATIONAL MINERAL INVENTORY: 103G5 Au1

NAME(S):

**SOUTHEASTER**, SKIDEGATE, SUNRISE, SE, SOUTH EASTER (L.1302), BEACONSFIELD (L.1303)

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103G05W

BC MAP:

LATITUDE: 53 16 39 N LONGITUDE: 131 59 26 W

ELEVATION: 120 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located about 1.6 kilometres north of Skidegate village. Location is

main shaft, plan map (Norrie-Loewenthal, 1932, Property File).

COMMODITIES: Gold Silver I ead Copper Zinc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Chalcopyrite Gold

ASSOCIATED: Quartz ALTERATION: Clay Carbonate Silica Chlorite Sericite

ALTERATION TYPE: Argillic Silicific'n Carbonate **Propylitic** MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated

CLASSIFICATION: Epithermal Hydrothermal TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au **Epigenetic** 

SHAPE: Irregular

MODIFIER: Sheared DIMENSION: 300 x Metres STRIKE/DIP: 140/ TREND/PLUNGE: COMMENTS: Shear zone.

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Yakoun Undefined Formation

LITHOLOGY: Agglomerate

Tŭff Andesite Greenstone Sandstone Shale Diorite

HOSTROCK COMMENTS: Yakoun Formation has been reclassified as the Yakoun Group (Geological

Survey of Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1981

SAMPLE TYPE: Grab

COMMODITY **GRADE** Silver 33.3000 Grams per tonne Gold 76.5000 Grams per tonne Copper 0.0580 Per cent 7.0900 Per cent Lead Zinc 13.9000 Per cent

COMMENTS: Sample from dump or caved adit.

REFERENCE: Assessment Report 9769.

CAPSULE GEOLOGY

The showings are located 1.6 kilometres north of Skidegate village, just beyond the reserve, at an elevation of about 152 metres. The property is also called Skidegate and Skidegate-Sunrise.

The property was first mentioned in 1910 and was owned by

Messrs. McLellan, Gordon, and Bourne. A 6-metre shaft was sunk. The following year the shaft was deepened to 15 metres and two 21-metre and 12-metre drifts were driven. In 1912 South Easter (Lot 1302) and Beaconsfield (Lot 1303) claims were Crown-granted to John McLellan

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UTM ZONE: 09 (NAD 83)

NORTHING: 5907122 EASTING: 300723

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

and Alex Gordon.

In 1915 the property was leased to Messrs. Leighton and Hickey. The lessees sank a 7.6-metre shaft on the main vein. The property was returned to the owner in 1916 and in 1917 the 7 claims were bonded to the South Easter Mining Company, a subsidiary of Northern Customs Concentrators, Limited, of Cobalt, Ont.

In 1918 the company sank a 30-metre shaft with two drift levels. One drift was 38 metres long at the 15-metre level, and another drift was 107 metres long at the 30-metre level. South Easter relinquished the property in 1919.

the property in 1919.

In 1930 the property was taken over by Kitsault Eagle Silver Mines, Limited. A 13-metre shaft was sunk and from the bottom a crosscut was driven 12 metres west to the vein, which was drifted on for 11 metres north. Five surface samples over widths of 0.7 metre to 2 metres gave assays ranging from 0.6 to 179.7 grams per tonne gold. The original 30-metre shaft on the Southeaster claim was pumped out and exploration continued by crosscutting and drifting for the vertical extension of the ore shoot developed on the 15-metre level. Two adits were driven 177 and 207 metres from the main shaft, proving continuity of the vein for a length of 366 metres.

In 1932 considerable crosscutting was done on the 30-metre level of the main shaft. An open-cut on the northerly segment of the main vein is reported to have returned values of \$2.20 to \$58 across widths of 0.3 to over 1.2 metres. In 1932 reserves from the surface to 20 metres were estimated at 4,750 tons valued at \$12-30 per ton at an average width of 1.8 metres. Operations were suspended early in May of 1933.

The property is underlain by Middle Jurassic Yakoun Group volcanics consisting of agglomerates, andesites, tuffs, and greenstone. North of the property and along the coast, the Yakoun Group is covered by Cretaceous Queen Charlotte Group, Haida Formation sandstones and shales. A diorite pluton intrudes rocks to the north.

Mineralization occurs in a zone of quartz veins and quartz stockworks up to 6 metres wide within a shear zone 0.6 to 9 metres wide and 300 metres long. The shear zone strikes 140 degrees and dips steeply southwest, and is carbonatized and silicified. Quartz veins are often fine grained, banded, vuggy and chalcedonic, occasionally with amethyst, and are typically enveloped by broad zones of white to buff coloured clay. The veins contain scattered grains and blebs to sometimes bands of galena, pyrite, sphalerite, chalcopyrite, free gold, and an unidentified grey soft metallic mineral (telluride?). The zone is flanked to the west by an area of argillic alteration and to the east by propylitic (chlorite, carbonate, pyrite, sericite) altered volcanic rocks.

An average sample of dump material assayed 76.5 grams per tonne gold, 33.3 grams per tonne silver, 0.058 per cent copper, 7.09 per cent lead, and 13.90 per cent zinc (Assessment Report 9769). A trench sample taken across 3.7 metres of quartz vein and stockwork assayed 4.502 grams per tonne gold (Assessment Report 19941, page 7, Trench 2). Drilling in 1990 encountered 2.7 metres assaying 16.39 grams per tonne gold and 6.27 grams per tonne silver (Assessment Report 20493, page 1, DDH 11).

From 1910 to 1915 approximately 5 tonnes of high grade ore was

From 1910 to 1915 approximately 5 tonnes of high grade ore was extracted and from this approximately 653 grams of gold and 249 grams of silver were recovered. From 1919 to 1929 no production took place. From 1930 to 1936 approximately 454 tonnes of ore produced 622 grams gold, 591 grams silver with 117 kilograms of copper and 302 kilograms of lead. Clear Creek Resources conducted soil and rock sampling (423 soils, 114 rocks), VLF-EM and magnetometer surveys (20 line kilometres each), prospecting, geological mapping and trenching in 1989. This was followed by the drilling of 18 holes totaling 939.7 metres and the excavation of four trenches totaling 200 metres in 1990. The comapny continued work in 1991, with the drilling of 14 holes totaling 534.3 metres and the excavation of 13 trenches totaling 456 metres. Okak Bay Resources Ltd. completed geological mapping, trenching (16 totaling 675 metres) soil geochemistry (811 samples) and induced polarization surveys on the property in 1997 in an attempt to find similar mineralization north of the main zone.

### **BIBLIOGRAPHY**

EM EXPL 1997-15
EMPR AR 1910-85; 1911-77; 1912-325; 1914-163,170; 1915-75; 191688; 1918-37,105; 1923-42; 1925-65; 1926-66; 1929-55-57; 193062,63; 1931-34,35; 1932-39,40; 1933-39; 1935-G48; 1936-B3
EMPR ASS RPT 8144, \*9769, \*19941, \*20493, 21317, 25549
EMPR BC METAL MM00796
EMPR BULL 1, 1932, p. 29; 54, p. 216
EMPR EXPL 1980-376,377; 1981-114
EMPR FIELDWORK 1997, pp. 19-1-19-14

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EMPR INDEX 3-214
EMPR PF (\*Norrie-Loewanthal W.G. (1932): Report on the Skidgate Sunrise Mine, British Columbia, Oct., 1932)
EMR MP CORPFILE (Kitsault Eagle Silver Mines, Limited)
GSC MAP 176A; 177A; 278A; 1385A
GSC MEM 88, pp. 174,175
GSC P 86-20; 88-1E; 89-1H; 90-10
GCNL #12, 1987; #105(May 31) 1990; #26(Feb.6), 1991; #125 (June 30), 1997

DATE CODED: 1986/06/23 DATE REVISED: 1999/10/20 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103G 004

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 005 NATIONAL MINERAL INVENTORY: 103G4 Cu2

NAME(S): BAXTER CREEK (SNOW), SANDSPIT GOLD, SNOW 2, IXL, DONNA-LYNNE

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103G04W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 53 11 34 N LONGITUDE: 131 47 16 W NORTHING: 5897154 EASTING: 313872

ELEVATION: 60 Metres

LOCATION ACCURACY: Within 500M
COMMENTS: Trench 1, Figure 2 (Assessment Report 8958). Located north of Copper

Bay, on northern Moresby Island.

COMMODITIES: Gold Silver

**MINERALS** 

**DEPOSIT** 

SIGNIFICANT: Arsenopyrite Pyrite Pyrrhotite

COMMENTS: Copper mineralization is reported on National Mineral Inventory Card 103G Cu2.

ASSOCIATED: Quartz

ALTERATION: Quartz Sericite Chlorite **Epidote** Clav

Magnetite ALTERATION TYPE: Silicific'n Argillic Sericitic **Propylitic** 

MINERALIZATION AGE: Unknown

CHARACTER: Vein Disseminated CLASSIFICATION: Epithermal **Epigenetic** 

TYPE: H **EPITHERMAL** 

SHAPE: Bladed

MODIFIER: Sheared

DIMENSION: 300 x 25 x 20 Metres STRIKE/DIP: 055/80N TREND/PLUNGE:

COMMENTS: Baxter Creek mineralized zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Yakoun Undefined Formation Tertiary Kano Plutonic Suite

LITHOLOGY: Andesitic Lapilli Tuff

Andesitic Agglomerate

Diorite Quartz Diorite Rhyolite Andesite

HOSTROCK COMMENTS: Yakoun Formation has been reclassified as the Yakoun Group (Geological

Survey of Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

TERRANE: Wrangell

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/and SAMPLE TYPE: Drill Core Assay/analysis YEAR: 1985

**COMMODITY GRADE** 

Grams per tonne 5.8300 Gold 3.8400 Grams per tonne

COMMENTS: The sample width is 2.0 metres.

REFERENCE: Assessment Report 14695.

CAPSULE GEOLOGY

The property is located 6.5 kilometres south of Sandspit. The area is underlain predominately by andesitic agglomerates and lapilli tuffs of the Middle Jurassic Yakoun Group, which are in fault contact with Upper Cretaceous Honna Formation (Queen Charlotte Group) conglomerates. The rocks are cut by quartz diorite intrusives of the Tertiary Kano Plutonic Suite and are bounded to the east by the northwest trending Sandspit fault.

Gold mineralization occurs in areas of locally intense shearing

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

and silicification in andesite lapilli tuffs and agglomerates, quartz diorite to diorite and rhyolite tuffs along the Sandspit fault and northwest trending orthogonal splays off the Sandspit fault. Mineralization is accompanied by clay-sericite alteration, disseminated pyrite and arsenopyrite and quartz-arsenopyrite veining. The andesites and intrusives exhibit propylitic alteration (chlorite, epidote, magnetite) over a broad zone in the area of mineralization.

The bulk of this mineralization is developed in one zone 300 metres long, 10 to 20 metres wide and at least 25 metres deep along a structure striking 55 degrees and dipping 80 degrees north. This zone is defined by four drill holes and several surface trenches and appears to be open to the northeast/southwest along strike. The Sandspit fault lies about 100 metres northeast of the zone.

The structure contains sheared, brecciated and silicified to propylitically altered diorite, andesitic agglomerate and tuff and rhyolite, with up to 10 per cent disseminated pyrite and pyrrhotite, up to 5 per cent disseminated arsenopyrite and local grey quartz veins. Stronger mineralization is found in siliceous andesite tuff (rhyolite?). One drill hole encountered 9.3 metres grading 3.29 grams per tonne gold (Assessment Report 25433, page 13, hole 85-1, 19.75-29.06 metres). Subsequent drilling intersected 3.84 grams per tonne gold and 5.83 grams per tonne silver over 2.0 metres (Assessment Report 14695). A grab sample assayed 14.7 grams per tonne gold (Assessment Report 10140).

(Assessment Report 14695). A grab sample assayed 14.7 grams per tonne gold (Assessment Report 10140).

This deposit was first prospected and trenched by R.E. Mickle in 1979. Falconbridge Nickel Ltd. continued trenching and drilled three short holes totaling 17 metres in 1980. The company then collected 295 soil samples and excavated four trenches in 1981. Ventures West Minerals continued soil sampling in 1981. Majorem Minerals Inc., a successor of Ventures West, conducted soil and ground magnetic surveys in 1983, followed by an airborne magnetic and electromagnetic survey totaling 145 line kilometres in 1985. Lornex Mining Corp. drilled five holes totaling 380 metres in 1985. Mondavi Resources Ltd. completed geological mapping, soil sampling, induced polarization surveys in 1987, followed by the drilling of six holes totaling 629 metres in 1988. Jo Shearer prospected and mapped the deposit and vicinity in 1997.

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EMPR BULL 54

EMPR EXPL \*1979-251; 1980-386,387; 1984-368; 1985-C365; 1986-C421

EMPR FIELDWORK 1997, pp. 19-1-19-14

EMPR GEM \*1970-100

EMPR PF (Fairbank, B.D., (1987): Report on the Snow Property, Sandspit area, Queen Charlotte Islands, Jul.14, 1987 in Modavi Resources Ltd., Prospectus, Dec.17, 1987; Phase I Progress Report for the Snow Property, Sandspit area, Queen Charlotte Islands, Nov.6, 1987 in Modavi Resources Ltd., Prospectus, Dec.17, 1987)

GSC MAP 176A; 177A; 278A; 922; 1385A; 3-1990

GSC MEM 88

GSC P 86-20; 88-1E, pp. 217-219; 89-1H, pp. 7-11; 90-10

GCNL #218, 1982; #88,#147, 1984; #78,#110, 1988

Falconbridge File

DATE CODED: 1986/06/23 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1999/10/18 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103G 005

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 006

NATIONAL MINERAL INVENTORY: 103G4 Cu1

PAGE:

NORTHING: 5895742 EASTING: 314375

REPORT: RGEN0100

284

 $\begin{array}{ll} \mathsf{NAME}(\mathsf{S}) \colon & \underline{\mathsf{COPPER\ BAY}}, \, \mathsf{OLD\ SHAFT}, \, \mathsf{MILDRED}, \\ & \underline{\mathsf{SNOW}} \end{array}$ 

STATUS: Showing Underground MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103G04W

UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: LONGITUDE: 131 46 46 W ELEVATION: 30 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located just north of Copper Bay, South Moresby Island, Symbol, Figure

34 (Bulletin 54).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite

ASSOCIATED: Calcite ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: I06 Cu±A **Epigenetic** 

Cu±Ag quartz veins

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

GROUP Yakoun **FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Undefined Formation

LITHOLOGY: Andesitic Agglomerate Conglomerate

Rhyolite Dike Diorite Breccia Tuff Andesite

Yakoun Formation has been reclassified as the Yakoun Group (Geological HOSTROCK COMMENTS:

Survey of Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1907 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock

COMMODITY GRADE Silver 68.6000 Grams per tonne

Copper 10.0000 Per cent

COMMENTS: The assays were obtained from "selected" samples.

REFERENCE: Minister of Mines Annual Report 1907, page 72.

CAPSULE GEOLOGY

The showing is located on Copper Bay on the east side of Moresby Island.

The showing was discovered in 1862 by a Mr. Waddington. A shaft was sunk only to be abandoned in late 1863.

In 1907 D.R. Young and associates bonded the property from Sheldon and Shabbard. Young unwatered the shaft to a depth of 27 metres and took soundings of 14 metres or more. Two cross cuts were reported just above 27 metres, one to the east and one to the west, extending about 7.6 metres from the shaft. a fissure a few centimetres wide. The shaft was located on

The area is underlain predominately by andesitic agglomerates and tuffs of the Middle Jurassic Yakoun Group with lesser Upper Cretaceous Honna Formation (Queen Charlotte Group) conglomerates. The rocks are cut by rhyolite dikes and diorite intrusives of the Tertiary Kano Plutonic Suite and are bounded to the east by the

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

northwest trending Sandspit fault.
Disseminated chalcopyrite, pyrite and malachite occur in the Yakoun agglomerate within a calcite cemented breccia vein. Selected samples in 1907 assayed 10 per cent copper and 69 grams per tonne silver (Minister of Mines Annual Report 1907, page 72).

**BIBLIOGRAPHY** 

EMPR AR \*1905-81; \*1907-59,71,72; 1909-82 EMPR ASS RPT \*2343, 2777, 7684, 10140, 14695 EMPR BULL \*54, p. 220 EMPR EXPL 1979-251; 1980-386,387; 1984-368 GSC MAP 176A; 177A; 278A; 922; 1385A; 3-1990 GSC P 86-20; 88-1E, pp. 217-219; 89-1H, pp. 7-11; 90-10 GCNL #88, 1984; #110, 1988 Falconbridge File

DATE CODED: 1986/06/23 DATE REVISED: 1989/02/15 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 006

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 007

NATIONAL MINERAL INVENTORY:

NAME(S): CUMSHEWA INLET, CUMSHEWA LIMESTONE

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103F01E 103G04W BC MAP:

LATITUDE: 53 02 16 N

LONGITUDE: 132 00 06 W ELEVATION: 76 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Limestone unit, Figure 5, Sheet B (Bulletin 54).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite
MINERALIZATION AGE: Upper Triassic

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary

TYPE: R09 Limestone

Industrial Min.

SHAPE: Regular

DIMENSION: 2500 x 600

Metres

STRIKE/DIP: 070/50N

TREND/PLUNGE:

MINING DIVISION: Skeena

UTM ZONE: 08 (NAD 83)

NORTHING: 5880677

EASTING: 701018

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

Upper Triassic Kunga **FORMATION** Sadler

Massive

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

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LITHOLOGY: Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: SHOWING

REPORT ON: N

Per cent

YEAR: 1982

CATEGORY: Assav/analysis

SAMPLE TYPE: Unknown

Concordant

Limestone

COMMODITY **GRADE** 53,0900

COMMENTS: Assay given for CaO.

REFERENCE: Paulsen, 1982, page 3-4

**CAPSULE GEOLOGY** 

The lower two members of the Upper Triassic to Lower Jurassic Kunga Group, the Upper Triassic Sadler and Peril formations,

represent the main limestone resource of the Queen Charlotte Islands,

particularly the massive grey limestone of the basal Sadler Formation. Its thickness varies from less than 30 metres to more than 200 metres.

A band of limestone 500 - 600 metres wide extends eastward from Gordon Cove along the south shore of Gillatt Arm for 2500 metres. The limestone strikes 070 degrees and dips approximately 50 degrees northwest. The bed contains minor volcanic flows or sills. A sample assayed 53.09 per cent CaO, 1.75 percent MgO, 3.22 per cent SiO2 and 41.41 per cent loss on ignition (Paulsen 1982, page 3-4).

This occurrence was briefly evaluated by Consolidated Cinola

Mines in 1982 as a source of neutralizing medium for the Specogna epithermal gold prospect (103F 034).

**BIBLIOGRAPHY** 

EMPR BULL \*54, pp. 50,175

EMPR OF 1992-18, pp. 43-45
EMPR OF 1992-18, pp. 43-45
EMPR PF (\*Paulsen, L. (1982): Limestone Study - Preliminary Site
Evaluation - Queen Charlotte Joint Venture, in 103F General;
Geological Map of Cumshewa Inlet Limestone by McCammon, J.W.)
GSC MAP 176A; 177A; 278A; 1385A; 3-1990

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MINFILE NUMBER: 103G 007

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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90-10, pp. 163-172

DATE CODED: 1986/06/05 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1999/10/30 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103G 007

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REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 008

NATIONAL MINERAL INVENTORY: 103G4 Sb1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5884044 EASTING: 321000

REPORT: RGEN0100

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NAME(S): MARINO, BELLA, MOLY, MORE

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103G04E

BC MAP:

LATITUDE: 53 04 39 N LONGITUDE: 131 40 26 W ELEVATION: 260 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Figure 1 (Assessment Report 5431); Figure 3 (Assessment Report 9306). See also Bella (103G 028).

COMMODITIES: Antimony Gold

**MINERALS** 

SIGNIFICANT: Stibnite Pyrite Arsenopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Epithermal TYPE: H03 Ho Hydrothermal **Epigenetic** 

Hot spring Au-Ag

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Yakoun **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Undefined Formation

LITHOLOGY: Andesitic Agglomerate

Dacite Rhyolite Tuff

Volcanic Sediment/Sedimentary

Mafic Dike Andesite

HOSTROCK COMMENTS: Yakoun Formation has been reclassified as the Yakoun Group (Geological

Survey of Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

TERRANE: Wrangell

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1981

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Grams per tonne Gold 5.1400 5.2400 Per cent

Antimony COMMENTS: The sample width is 6.1 metres.

REFERENCE: Assessment Report 9306.

**CAPSULE GEOLOGY** 

The property is located 3.2 kilometres north of Cumshewa

Inlet.

The area is underlain by Middle Jurassic Yakoun Group rocks consisting of porphyritic andesite agglomerate, tuffs and volcanic sediments that are cut by mafic and felsic dikes. The strata dip

gently to the north.

Stibnite and possibly pyrite and arsenopyrite are disseminated within rhyolite, dacite, and andesite. A trench sample assayed 5.24 per cent antimony and 5.14 grams per tonne gold over 6.1 metres (Assessment Report 9306).

This showing was discovered by Efrem Specogna in 1972. The property was optioned by Umex Corp. in 1974 and Chevron Minerals in 1975. Work by these companies included soil and rock sampling and geological mapping. Thunderwood Explorations conducted soil sampling, ground VLF surveys and airborn magnetometer surveys in 1980. The showing was restaked by Cominco Ltd. in 1986. By the end of 1987 the company had completed line cutting, an induced polarization survey (28 kilometres), soil sampling and geological

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

mapping over the showing and surrounding area. Cominco continued work in 1995 with the flying of an airborn electromagnetic and magnetometer survey over the region totaling 228 line kilometres. See also Bella (103G 028).

**BIBLIOGRAPHY** 

EMPR ASS RPT 5000, 5333, \*5431, 8855, 8886, \*9306, 16127, 17390, 23973 EMPR BULL 54 EMPR EXPL 1975-173; 1980-385; 1981-1,16; 1987-C352 EMPR FIELDWORK 1997, pp. 19-1-19-14 EMPR GEM \*1974-323 GSC MAP 176A; 177A; 278A; 1385A; 3-1990 GSC MAP 1/6A; 17/A; 278A; 1385A; 3-1990 GSC MEM 88 GSC P 86-20; 88-1E, pp. 217-219; 89-1H, pp. 7-11; 90-10 GCNL #239, 1979; #90(May 8), 1980, #66, 1981 N MINER Apr.2, 1981 Chevron File

Falconbridge File

DATE CODED: 1986/06/06 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/02/25 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 008

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 009

NATIONAL MINERAL INVENTORY: 103G4 Au1

PAGE:

NORTHING: 5881867

EASTING: 317192

REPORT: RGEN0100

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NAME(S): CUMSHEWA (L.1223), HOMESTAKE (L.1222), GO EAST, CUMSHWA, NO. 4, CHAR,

MORE

Underground MINING DIVISION: Skeena

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103G04E UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 53 03 24 N

LONGITUDE: 131 43 46 W ELEVATION: 150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on the north side of Cumshewa Inlet on the east side of

Moresby Island; centre of Crown Grant 1223 (Map 103G/4E, Cumshewa, 1:50,000 Scale Topographic Map).

COMMODITIES: Gold Silver Lead Antimony

**MINERALS** 

SIGNIFICANT: Gold Galena Sphalerite Pyrite Stibnite

ASSOCIATED: Quartz Calcite

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stockwork Disseminated Breccia CLASSIFICATION: Epithermal Hydrothermal **Epigenetic** 

Epithermal Au-Ag: low sulphidation

TYPE: H05 E SHAPE: Irregular

DIMENSION: 133 x Metres STRIKE/DIP: 075/78N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Yakoun Undefined Formation

LITHOLOGY: Breccia

Porphyritic Andesitic Agglomerate

Mafic Dike

Tuff Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1932 Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Silver 144.0000 Grams per tonne Gold 6.9000 Grams per tonne

COMMENTS: The sample width is 66 centimetres.

REFERENCE: Minister of Mines Annual Report 1932, page 47.

CAPSULE GEOLOGY

The property is located between elevations of 91 and 305 metres

on the north side of Cumshewa Inlet, 1.6 kilometres northeast of McLellan Island, on the east side of Moresby Island.

The property was staked in 1907 for Messrs. Topping and Johnson as the Homestake, Go East and No. 4 claims. Adjacent ground was staked by Collier and Wilpetrick as the Place's Description. staked by Collier and Kilpatrick as the Black Bear, Gold Ore, King George, Gold Stake, and Eagle claims, and exploration work was done in shaft sinking.

The Homestake property was sold to a London, England, syndicate which incorporated The Queen Charlotte Mining & Prospecting Company, Limited. During 1910 two adits were driven and a 20 metre shaft sunk. The Homestake, Go East, and No. 4 claims, Lots 1222-1224, respectively, were Crown- granted to the company in 1911. In August

1911 the owners incorporated in Victoria a new company, Queen Charlotte Islands General Development Company, Limited.

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

development work ceased in 1912 the workings comprised some 366 metres of drifts, 186 metres of crosscuts, and 85 metres of winzes and raises in 2 adits. The main crosscut adit was driven N750E for 111 metres. At this point the adit branches, the southern Go East branch continuing on a similar bearing for 133 metres, while the northern Homestake branch was driven on a bearing of N400E for 73 metres. An upper adit, 20 metres above the main adit, was driven on the Homestake vein for 36 metres.

The Cumshewa Gold Mines, Limited was incorporated in February 1913 to acquire the property but no activity was reported and the company charter was surrendered in 1925. General Exploration Company, Limited examined the property in 1928.

By 1932 ground apparently adjacent to the Crown-grants had been restaked as the Cumshewa 1-3 and Queen Charlotte claims, owned by E.C. Stevens, of Skidgate. Open cutting and stripping was reported in 1932 and 1935.

Kennco Explorations, (Western) Limited in 1974 held the Char 1-32 claims covering these showings. Geological mapping and a geochemical silt survey M3 samples) were carried out.

The area is underlain by Middle Jurassic Yakoun Group rocks consisting of porphyritic andesite agglomerate, tuffs and volcanic sediments that are crosscut by mafic and felsic dikes. Galena, sphalerite, pyrite, and finely disseminated gold and stibnite occur in a quartz vein stockwork and quartz-filled breccia in silicified andesites and argillites

andesites and argillites.

The Homestake vein, 1.5 metres wide, has been explored for 73 metres along a vertical fault zone, trending 040 degrees. The Go East vein is 1.5 metres wide, strikes 075 degrees for 133 metres, and dips 78 degrees northwest. Mineralization is low grade except in small isolated patches.

The upper adit exposes a brecciated quartz vein 3 metres wide striking 046 degrees and dipping 85 degrees west. A 66 centimetre sample assayed 6.9 grams per tonne gold and 144.0 grams per tonne silver (Minister of Mines Annual Report 1932, page 47).

A small quantity of hand-picked ore was apparently shipped in

A small quantity of hand-picked ore was apparently shipped in 1913 but no record of production has been found. Cominco Ltd. flew an electromagnetic and magnetometer survey totaling 228 kilometres over the region in 1995.

#### **BIBLIOGRAPHY**

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EMPR ASS RPT 23973

EMPR BULL *54, p. 217

EMPR FIELDWORK 1997, pp. 19-1-19-14

EMPR GEM *1974-322

EMPR PF (Armstrong, K.A., (1923): Report of Mineral Claims owned by The Cumshewa Gold Mines Ltd., Cumshewa Inlet, Moresby Island, July 29, 1923)

GSC MAP 176A; 177A; 278A; 1385A; 3-1990

GSC MEM 88

GSC P 86-20; 88-1E, pp. 217-219; 89-1H, pp. 7-11; 90-10
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DATE CODED: 1986/06/05 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/02/27 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 009

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 010

NATIONAL MINERAL INVENTORY:

NAME(S): **GURD ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G15E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 53 53 39 N

NORTHING: 5973032 EASTING: 390552

LONGITUDE: 130 39 56 W ELEVATION: 30 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description - Geological Survey of Canada Paper 70-41, page 21.

Gurd Island.

COMMODITIES: Limestone Silica

MINERALS
SIGNIFICANT: Calcite Silica

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Massive Industrial Min.

TYPE: R09 Limestone SHAPE: Tabular DIMENSION: 0001 R07 Silica sandstone

STRIKE/DIP: 055/50 TREND/PLUNGE: Metres COMMENTS: Width.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Limestone

Quartzite Dioritic Gneiss

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexandér

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Greenschist

CAPSULE GEOLOGY

The underlying Permian (?) or older rocks consist of mainly blackish weathering, dark grey quartzite, interbedded with buff weathering, brown limestone, and light green-grey, well-laminated quartzite. These rocks are concordant with diorite gneiss of the

Coast Plutonic Complex.

Most of the limestone beds are less than a metre thick, however a 30 metre bed occurs on the small island (Robert Island?) off the western corner of Gurd Island. Bands of white limestone, 1 to 3 metres thick, occur on the low land at the northwest end of Gurd Island.

**BIBLIOGRAPHY** 

EMPR OF 1987-15, p. 45 GSC MAP 23-1970

GSC P \*70-41, p. 21 CANMET RPT #452, pp. 127,172; #811, Part V, 1944, p. 173

DATE CODED: 1986/07/25 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 011

NATIONAL MINERAL INVENTORY:

NAME(S): **PORCHER ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G16W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

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LATITUDE: 53 59 39 N

NORTHING: 5983871 EASTING: 403741

LONGITUDE: 130 28 06 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Industrial Minerals File. Porcher Island.

COMMODITIES: Clay

**MINERALS** 

SIGNIFICANT: Clay MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Sedimentary TYPE: B06 Fireclay

Residual

F07 Sedimentary kaolin

Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary <u>GRO</u>UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Undefined Group** Unnamed/Unknown Formation

LITHOLOGY: Clay

HOSTROCK COMMENTS: Pleistocene to recent glacial clay.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by Lower Mesozoic greenstone to the east and quartz diorite of the Coast Plutonic Complex to the west.

A large deposit of glacial clay is located on Porcher Island (Geological Survey of Canada Memoir 47, page 63).

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Clay and Shale Occurrences in BC (in Ministry

Library)) GSC MAP 23-1970 GSC MEM 47, p. 63

GSC P 70-41

DATE CODED: 1986/07/25 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 012

NATIONAL MINERAL INVENTORY: 103G16 Mo1

NAME(S): LOR, LOR 28, BILLY CREEK

STATUS: Showing REGIONS: British Columbia NTS MAP: 103G16W BC MAP:

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

LATITUDE: 53 53 19 N LONGITUDE: 130 26 36 W

NORTHING: 5972094 EASTING: 405141

PAGE:

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ELEVATION: 60 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 1-3, (Assessment Report 2706). Located on southern Porcher Island, on the east side of Porcher Inlet on Billy Creek.

COMMODITIES: Molybdenum

Copper

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrite Chalcopyrite **Bornite** 

ASSOCIATED: Quartz Orthoclase MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Massive CLASSIFICATION: Hydrothermal TYPE: L05 Porph Porphyry Epigenetic

Porphyry Mo (Low F- type) I 01 Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

MODIFIER: Sheared DIMENSION: 0050 x 0002 STRIKE/DIP: 025/84 TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** 

Cretaceous-Tertiary

Unnamed/Unknown Formation

Coast Plutonic Complex

LITHOLOGY: Greenstone

Schist Granite Quartz Diorite Meta Volcanic

Meta Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1970 Assay/analysis

SAMPLE TYPE: Rock

COMMODITY Molybdenum Per cent

COMMENTS: The sample width is 61 centimetres. REFERENCE: Assessment Report 2706.

CAPSULE GEOLOGY

A northwest trending belt of Jurassic to Triassic metasediments and metavolcanics is intruded by a granitic to quartz diorite pluton of the Tertiary to Cretaceous Coast Plutonic Complex. The metavolcanics, consisting of schists, lie west of a sheared contact with the granite.

Massive and disseminated molybdenite and minor pyrite occur along a 53 metre long, 0.6-2.1 metre wide shear zone in steeply dipping interbedded quartz-hornblende schist and impure micaceous quartzites. A 0.6 metre wide sample assayed 1.05 per cent MoS2 (Assessment Report 2706).

Scattered occurrences of mineralized quartz veins occur along a 1200 metre trend north of the above main showing. On the eastern shore of Porcher Inlet, about 2.3 kilometres northwest of the molybdenite showing is a one metre wide quartz band, within metasediments, containing irregular masses of chalcopyrite and bornite.

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 2706 EMPR GEM 1970-98 GSC MAP 23-1970 GSC P 70-41

DATE CODED: 1986/07/31 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/02/27 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 012

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 013

NATIONAL MINERAL INVENTORY: 103G16 Mo2

NAME(S): **BLUE JAY**, FAY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G16W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 53 57 34 N LONGITUDE: 130 20 06 W NORTHING: 5979835 EASTING: 412409

**ELEVATION: 60** Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Shaft, Figure 2 (Assessment Report 3838). Located on Porcher Island,

at the head of Porcher Inlet.

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrite Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Porphyry Porphyry Mo (Low F- type) TYPE: L05

**Epigenetic** I 01 Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** 

Permian Undefined Group

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Schist

Rhyolite Andesite Meta Volcanic

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Rock Assay/analysis

YEAR: 1966

COMMODITY

**GRADE** 

Molybdenum

0.2000 Per cent

COMMENTS: This is an average of 24 samples. REFERENCE: Property File (Report by Page, P.E., (1967)).

**CAPSULE GEOLOGY** 

A northwest trending belt of stratified Permian(?) or older metasediments and metavolcanics underlies the eastern part of Porcher Island. The metasediments, consisting of thinly laminated schists derived from argillites, are intruded by sills of metavolcanics derived from rhyolites and andesites. Granite of the Coast Plutonic Complex is noted to the south.

Mineralized quartz veins, up to 0.6 metres wide, occur within the metavolcanics near the contact with the metasediments. Mineralization consists of molybdenite, pyrite and minor chalcopyrite. An average of 24 samples assayed 0.2 per cent MoS2 (Irwin, J.F., 1966).

**BIBLIOGRAPHY** 

EMPR AR 1966-52

EMPR ASS RPT 3838, 5045, 5817 EMPR EXPL 1979-251,252

EMPR GEM 1972-498; 1974-323,324; 1976-162,163

EMPR PF (Irwin, J.F., (1966): Preliminary Report on Property Examination of the Blue Jay Molybdenum showings, Porcher Island, British Columbia, for Five Star Petroleum & Mines Ltd., Aug. 22, 1966; Page, P.E., (1967): Geological Report on Fifty-Six Min Claims located on Porcher Island, Near Prince Rupert, British Geological Report on Fifty-Six Mineral Columbia, for Silver Chief Minerals Ltd., May 31, 1967; (1979):

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Geology and Report on the Fay Mineral Claims, Porcher Island, Mar. 27, 1979)

EMR MP CORPFILE (Five Star Petroleum & Mines Ltd.)

GSC MAP 23-1970

GSC P 70-41, p. 17

DATE CODED: 1986/07/31 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 014

NATIONAL MINERAL INVENTORY:

Silica sandstone

R07

NAME(S): **LEWIS ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G16E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

298

LATITUDE: 53 59 49 N LONGITUDE: 130 14 06 W ELEVATION: 10 Metres NORTHING: 5983888 EASTING: 419042

LOCATION ACCURACY: Within 1 KM

COMMENTS: Southeast part of Lewis Island.

COMMODITIES: Limestone Silica

**MINERALS** 

SIGNIFICANT: Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Massive Industrial Min.

TYPE: R09 Limestone

SHAPE: Tabular DIMENSION: 0015 TREND/PLUNGE:

STRIKE/DIP: Metres COMMENTS: Maximum width of band.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Triassic-Jurassic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Limestone

Greenstone Chlorite Schist

HOSTROCK COMMENTS: Jurassic to Triassic metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexandér

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

Lewis Island is underlain mainly by Lower Mesozoic greenstone, and chlorite schist with minor limestone and impure layered quartzite.

White, coarse-grained calcium limestone and impure layered quartzi White, coarse-grained calcium limestone forms a series of lenticular masses, 9 to 15 metres thick, separated by schist. Analysis of a sample gave 94.61 per cent CaCO3, 2.52 per cent SiO2, 0.42 per cent Fe2O3, 0.39 per cent Al2O3, 0.36 per cent MgCO3, and 0.02 per cent Ca3(PO4)2 - (Pub. 811, 1944).

**BIBLIOGRAPHY** 

GSC MAP 23-1970 GSC P 66-33; 70-41

CANMET RPT \*811, Part V, 1944, p. 174

DATE CODED: 1986/07/25 DATE REVISED: 1988/12/28 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 015 NATIONAL MINERAL INVENTORY: 103G16 Cu1

NAME(S): GIBSON GIRL, WILD GOOSE, STANDARD

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103G16E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 55 39 N NORTHING: 5976070 LONGITUDE: 130 09 06 W EASTING: 424379

ELEVATION: 50 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Figure 2 (Assessment Report 9997). Located on

Gibson Island.

Silver COMMODITIES: Copper 7inc I ead

**MINERALS** 

SIGNIFICANT: Chalcopyrite Sphalerite Galena **Pyrite** Marcasite Pyrrhotite

ASSOCIATED: Quartz ALTERATION: Diopside Garnet **Epidote** Calcite Actinolite

Chlorite Epidote Silica Skarn

ALTERATION TYPE: Silicific'n Chloritic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive Disseminated Concordant

CLASSIFICATION: Skarn TYPE: K01 **Epigenetic** 

105 Cu skarn Polymetallic veins Ag-Pb-Zn±Au SHAPE: Regular

DIMENSION: 0100 x 0020 Metres STRIKE/DIP: 165/90 TREND/PLUNGE:

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Skarn Limestone

Hornblende Muscovite Garnet Schist

Quartz Feldspar Biotite Schist Chlorite Schist

HOSTROCK COMMENTS: Permian (?) or older metasediments known informally as the Prince

Rupert Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) TERRANE: Alexander

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: TRENCH

> YEAR: 1982 Assay/analysis

CATEGORY: Assay SAMPLE TYPE: Rock

**COMMODITY GRADE** Silver 25.7000 Grams per tonne

Copper 1.4700 Per cent Lead 1.0300 Per cent Zinc 1.4500 Per cent

COMMENTS: This is an unweighted average from 30 trench samples.

REFERENCE: Assessment Report 9997.

CAPSULE GEOLOGY

Gibson Island is underlain by a north-northwest trending, steep to vertical dipping section of Permian (?) or older metasediments consisting of lenses of crystalline limestone interbedded with quartz-feldspar-biotite schist, chlorite schist, and hornblende-

muscovite-garnet schist. Tight and locally intense folding and granitic dykes are common in the area.

A 100 by 20 metre discontinuous mineralized zone, along a schistlimestone contact, consists of disseminated and massive chalcopyrite, pyrite, sphalerite, galena, and sparse molybdenite in a siliceous gangue of garnet, epidote, chlorite, calcite, actinolite, and diopside. Thirty trench samples, from 1 to 4 metres wide, gave an

unweighted average of 1.47 per cent copper, 1.03 per cent lead, 1.45

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**CAPSULE GEOLOGY** 

**BIBLIOGRAPHY** 

per cent zinc, and 25.7 grams per tonne silver (Assessment Report 9997).

EMPR AR 1914-149,150; 1916-50; 1917-44; 1924-47; 1926-71; \*1929-72-74; 1930-69; 1931-35; 1951-108; \*1952-79,81,Fig.1,p.80 EMPR ASS RPT \*9997

EMPR EXPL 1980-388 GSC MAP 23-1970; 278A GSC P \*70-40, p. 51

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 016

NATIONAL MINERAL INVENTORY: 103G16 Fe1

NAME(S): ROYAL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G16E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

301

LATITUDE: 53 51 04 N

NORTHING: 5967483 EASTING: 429906

LONGITUDE: 130 03 56 W ELEVATION: 10 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description (Geological Survey of Canada Economic Geology Series, No. 3, Volume 1), on Bonwick Point, northeast Pitt Island.

COMMODITIES: Iron Magnetite

MINERALS
SIGNIFICANT: Magnetite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Replacement Industrial Min.

TYPE: K03 F SHAPE: Regular Fe skarn

DIMENSION: 0100 x 0005 STRIKE/DIP: 135/80E TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Permian **Undefined Group** Unnamed/Unknown Formation

LITHOLOGY: Schist

HOSTROCK COMMENTS: Permian (?) or old metasediments known informally as the Prince Rupert

Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1930 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock

COMMODITY Iron Per cent

COMMENTS: The sample width is 1 metre.

REFERENCE: Minister of Mines Annual Report 1930, page 69.

**CAPSULE GEOLOGY** 

A 100 metre long magnetite ore zone, striking northwest and dipping 80 degrees east, lies concordant with bedding and schistosity of the Permian (?) or older schists. Coast Plutonic Complex rocks lie to the west.

The magnetite occurs as small discontinuous massive bands and irregular lenses up to 4.5 metres wide. A one metre wide sample assayed 68 per cent iron (Minister of Mines Annual Report 1930).

**BIBLIOGRAPHY** 

EMPR AR \*1914-150; 1930-69

GSC EC GEOL \*Series No. 3, Vol. 1, pp. 24-26

GSC MAP 23-1970; 278A GSC P 70-41

DATE CODED: 1986/07/30 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 017

NATIONAL MINERAL INVENTORY:

NAME(S): **DEADMAN INLET** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G09W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

302

LATITUDE: 53 37 49 N

NORTHING: 5943420 EASTING: 401434

LONGITUDE: 130 29 26 W ELEVATION: 5 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: North end of Banks Island.

COMMODITIES: Limestone Silica

**MINERALS** 

SIGNIFICANT: Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary

Massive

TYPE: R09 Limestone

Industrial Min. R07 Silica sandstone

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROU</u>P

Permian **Undefined Group**  **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Limestone

Quartzite

Hornblende Schist Chlorite Schist Calcareous Schist Granodiorite Quartz Diorite

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

The underlying rocks consist of northwest striking Permian (?) or older limestone, quartzite, calcareous schist, hornblende schist, and chloritic schist. Bodies of crystalline limestone are the dominant lithology outcroping along the north end of Banks Island for about 3 kilometres. These rocks are in fault contact with sheared quartz diorite on the east and a 100 metre wide contact zone with

granodiorite on the west.

Contact

**BIBLIOGRAPHY** 

EMPR OF 1987-15, p. 45 GSC MAP 23-1970; 278A GSC P 70-41, p. 22

DATE CODED: 1986/07/28 DATE REVISED: 1989/01/20 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 018

NATIONAL MINERAL INVENTORY: 103G9 Cu1

PAGE:

NORTHING: 5936869 **EASTING: 415649** 

REPORT: RGEN0100

303

NAME(S): **GREAT WEST**, BAN, MARBLE BAY, EDD, BAN 1-2

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103G09W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 53 34 26 N LONGITUDE: 130 16 26 W

**ELEVATION:** Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized skarn, Figure 3 (Assessment Report 8463). Located on the

northeast coast of Banks Island, about 6.4 kilometres southeast of

Kevarka Cove.

COMMODITIES: Copper Molybdenum Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Epidote Molybdenite **Bornite** Pyrite Chalcocite Chlorite Garnet

ALTERATION: Silica Pyrite **Epidote** Chlorite Garnet Pyrite Skarn

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Skarn Disseminated

Igneous-contact **Epigenetic** K07 TYPE: K01 Cu skarn Mo skarn

DIMENSION: 0030 Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian IGNEOUS/METAMORPHIC/OTHER **FORMATION** Undefined Group Unnamed/Unknown Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Skarn

Limestone Marble Quartz Diorite Granodiorite Quartz Monzonite Quartzite Schist Slate

HOSTROCK COMMENTS: Permian (?) or older metasediments informally known as the Prince

Rupert Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Milbanke Strandflat

Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist Contact

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay SAMPLE TYPE: Rock YEAR: 1971 Assay/analysis

**GRADE** COMMODITY Copper 0.5500 Per cent Molybdenum 0.2500 Per cent

COMMENTS: The sample width is 5.2 metres.

REFERENCE: Assessment Report 3465.

CAPSULE GEOLOGY

A narrow belt of northwest striking Permian(?) or older metasediments is surrounded by younger quartz diorite, granodiorite and quartz monzonite of the Coast Plutonic Complex. The metasediments consist of laminated micaceous quartzite and crystalline limestone,

epidote-chlorite skarn, schist and slate.

Mineralized skarn occurs near shore at the contact of quartz diorite and limestone/marble. Mineralization consists of disseminations, blebs and fracture fillings of molybdenite, chalcopyrite, pyrite, and minor bornite with some chalcocite. Chalcopyrite and

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

molybdenite also occur within quartz veins up to 0.6 metres wide within the quartz diorite. Skarn minerals include epidote, garnet and chlorite. Pyrite is ubiquitous throughout the contact area.

A 5.2 metre wide sample of the skarn zone assayed 0.55 per cent copper and 0.25 per cent MoS2 (Assessment Report 3465). A small skarn zone, 450 metres south of the shore skarn, assayed 0.19 per cent copper, 0.10 per cent MoS2, and 3.4 grams per tonne silver over 6.4 metres (Assessment Report 3465).

#### **BIBLIOGRAPHY**

EMPR AR \*1920-38; 1929-75 EMPR ASS RPT \*3465, 8463, 13101 EMPR EXPL 1980-388; 1984-373 EMPR EXPL 1980-388; 1984-373
EMPR GEM 1972-498
EMPR PF (Cukor, V., (1971): Report on Ban Group, Banks Island for Quest Mining Corporation Ltd., Jan.18, 1971)
EMR MP CORPFILE (Quested Mining Corporation Ltd.)
GSC MAP 23-70
GSC P \*70-41 p. 52
GCNL #137, 1971; #153, 1980

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 019

NATIONAL MINERAL INVENTORY:

NAME(S): KINGKOWN LAKE

STATUS: Showing REGIONS: British Columbia NTS MAP: 103G09W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

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LATITUDE: 53 30 39 N LONGITUDE: 130 17 56 W ELEVATION: 5 ACCURACY: 11

NORTHING: 5929884 EASTING: 413866

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol 4 - Geological Survey of Canada Map 23-1970. Located on Kingkown Lake, north central Banks Island.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite Magnetite Sphalerite Molybdenite

ASSOCIATED: Quartz ALTERATION: Garnet ALTERATION TYPE: Skarn

**Epidote** Hornblende

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Massive CLASSIFICATION: Skarn **Epigenetic** 

TYPE: K01 Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Unnamed/Unknown Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Skarn

Marble Pelitic Schist Calc-silicate Granodiorite

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP:

GRADE: Greenschist

**CAPSULE GEOLOGY** 

A band of Permian (?) or older metasediments, striking 160 A band of Permian (?) or order metasedments, straing for degrees, consists of massive to finely bedded marble, calc-silicate, and metapelite, and is flanked by granodiorite of the Coast Plutonic Complex. Near the western contact is a quartz-garnet-epidote-hornblende skarn which is mineralized with chalcopyrite, pyrite,

magnetite, and minor sphalerite and molybdenite.

**BIBLIOGRAPHY** 

EMPR AR 1963-21,22 EMPR ASS RPT 13538, 14261 EMPR EXPL 1985-C368

GSC MAP 23-1970 GSC P \*70-41 p. 52

DATE CODED: 1986/07/30 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 020

NATIONAL MINERAL INVENTORY:

NAME(S): COLBY BAY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G09W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

306

LATITUDE: 53 34 19 N

NORTHING: 5936626 EASTING: 417116

LONGITUDE: 130 15 06 W ELEVATION: 3 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description and Geological Survey of Canada Map 23-1970.

COMMODITIES: Limestone Silica

**MINERALS** 

SIGNIFICANT: Calcite
MINERALIZATION AGE: Unknown Pyrite

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Massive Industrial Min.

TYPE: R09 Limestone R07 Silica sandstone

SHAPE: Tabular DIMENSION: 0300 STRIKE/DIP: 120/80S TREND/PLUNGE: Metres

COMMENTS: Width of band.

**HOST ROCK** DOMINANT HOSTROCK: Metasedimentary

**FORMATION GROUP** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Permian Unnamed/Unknown Formation **Undefined Group** 

LITHOLOGY: Limestone

Chert Siltstone Diorite Dolomite

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

Permian (?) or older crystalline limestone, banded and ribbon chert, and minor siltstone form a metasedimentary wedge in diorite. Pyrite is common in the carbonate. The area is faulted and folded and bedding attitudes change quickly from gentle to nearly vertical.

A band, 300 metres wide, of intermixed white and pale bluecalcium limestone and dolomite strikes 120 degrees and dips steeply southwest. About 2.4 kilometres to the northwest, a 30 metre band of similar rock strikes 127 degrees for 150 metres, dipping

vertically.

**BIBLIOGRAPHY** 

EMPR OF 1987-15, p. 45 GSC MAP 23-1970

GSC P 70-41, p. 22 CANMET RPT \*811, Part V, 1944, p. 173

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 021

 $\mathsf{NAME}(\mathsf{S}) : \ \ \underline{ \ \ \mathsf{YELLOW \ GIANT \ (KIM)}}_{\mathsf{TEL}}, \ \mathsf{KIM}, \ \mathsf{BANKS},$ 

STATUS: Developed Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103G08E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 53 22 09 N LONGITUDE: 130 07 41 W NORTHING: 5913932 EASTING: 424944

ELEVATION: 30 Metres LOCATION ACCURACY: Within 500M

COMMENTS: South-central Banks Island (Assessment Report 14171).

COMMODITIES: Gold Silver 7inc Lead Molybdenum

Copper

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Molybdenite Arsenopyrite Galena

Chalcopyrite ASSOCIATED: Quartz

ALTERATION: Sericite Quartz Chlorite Calcite Clinochlore

Actinolite ALTERATION TYPE: Sericitic **Propylitic** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein **Podiform** Disseminated Shear

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 102 Intrusion-related Au pyrrhotite veins 105 Polymetallic veins Ag-Pb-Zn±Au

K07 Mo skarn SHAPE: Bladed

MODIFIER: Sheared DIMENSION: 300 x 180 x 18 STRIKE/DIP: 108/80N Metres TREND/PLUNGE:

COMMENTS: Kim zone is open at length and depth with widths up to sixty metres.

HOST ROCK DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Group Unnamed/Unknown Formation Mesozoic-Cenozoic Coast Plutonic Complex

LITHOLOGY: Quartz Monzonite

Granodiorite Quartz Diorite Limestone Quartzite Schist Actinolite Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Plutonic Rocks Alexander

INVENTORY

REPORT ON: Y ORE ZONE: KIM

> CATEGORY: YEAR: 1988 Unclassified

QUANTITY: 77896 Tonnes **GRADE** COMMODITY

Gold 7.1000 Grams per tonne

REFERENCE: Trader Resource Corp., Letter to Shareholders March 28, 1988.

**CAPSULE GEOLOGY** 

Banks Island lies along the western edge of the Tertiary-Jurassic Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite, which are separated by narrow, persistent Permian(?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn and schist. The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact

metasomatism.

Regional and local faulting, fracturing and folding are common on the island. Two major right-lateral faults, striking 310 degrees, known as the Arseno and Hepler faults, have associated 045 degree

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NATIONAL MINERAL INVENTORY: 103G8 Au1

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

linears. Left-lateral faults striking 090 degrees also occur. Many contacts between the plutonic and metasedimentary rocks are faults or drag folds. Some faults have been healed by recrystallization. Structure is the prime factor in ore localization.

The Yellow Giant (Kim) zone is a complex combination of several different groups of mineralized quartz veins plus disseminated sulphide lenses within an intensely altered fracture system, which trends 288 degrees and is hosted by biotite quartz monzonite. Alteration is progressive from weakly sericitic on the margins of the deposit to intense quartz-sericite with minor chlorite, clinochlore and calcite near the higher grade gold mineralization. The alteration zone is offset by numerous strong faults trending 045 degrees with apparent left-lateral movement up to 15 metres. The disseminated sulphides are pyrite, arsenopyrite, sphalerite and galena, mainly in the central quartz-sericite-chlorite alteration zone. Sphalerite averages 1.0 per cent and galena, 0.25 per cent. Molybdenite is sparsely distributed as a halo through all surrounding, less altered siliceous granitic rocks where it is associated with quartz veins. Actinolite skarn near the Kim zone locally contains up to 3 per cent molybdenite.

The deposit is localized within a 1200 metre steeply dipping east-west shear zone. The deposit attains widths of up to 60 metres but averages about 18 metres and has been drilled to a vertical depth of 180 metres and a length of 300 metres. It is open at depth and along strike. A hole drilled in 1963 assayed 12.72 grams per tonne gold and 108.34 grams per tonne silver over 6.10 metres. A 1984 drill hole assayed 3.87 grams per tonne gold and 12.69 grams per tonne silver over 6 metres (Assessment Report 14171).

The Kim zone varies in composition and vein direction from

The Kim zone varies in composition and vein direction from east to west. The East subzone is characterized by erratic gold distribution and mineralized vein systems trending 012 to 031 degrees and dipping west. The Central subzone has higher gold values and veins trend 063 to 084 degrees and dip north. Vein orientation in the West subzone is poorly understood.

in the West subzone is poorly understood.

The prominent change of mineralized vein orientation in the East subzone could be due to drag folding along the 045 degree faults. However, there is also a strong possibility that the Kim zone rocks represent a semi-solid intrusion of biotite quartz monzonite that has domed or folded the metasedimentary package and in this case, the vein directions are related to their relative axial planar position along the domal structure.

Two hundred metres northeast of the Kim deposit, easterly trending quartz veins and veinlets with pyrite and unidentified manganese mineralization occur near metasediments. A sample assayed 2.12 per cent MnO2 (Assessment Report 14171).

Extensive diamond drilling was carried out in 1984 and 1985 on four mineralized zones (Kim, Bob, Discovery and Tel) on the Yellow Giant property. Unclassified reserves for the Kim zone are 77,896 tonnes grading 7.1 grams per tonne gold (Trader Resource Corp., Letter to Shareholders March 28, 1988). See Bob (103G 024), Discovery (103G 025) and Tel (103G 026) for additional reserves.

Doublestar Resources Ltd. acquired an interest in the property in 1998.

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GSC P 70-41
    IL #128, 1977; #197,#241, 1980; #8,#41,#108,#113,#130,#172,#205,
#213,#227,#237, 1984; #45,#142, 1985; #10,#14, 1986; #105(June 2),
GCNL #128,
N MINER Mar. 22, Sept. 6, 13, Dec. 6, 1984; Oct. 28, Dec. 7, 1985; *Jun. 23,
   Dec.9, 1986; Dec.8, 1987
NAGMIN Jun.7, Oct.11, 1985
PR REL Trader Resource Corp., Sept.5, 1984
WWW http://www.infomine.com/
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MINFILE NUMBER: 103G 021

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 022

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5925003

EASTING: 430615

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

REPORT: RGEN0100

310

NAME(S): BANKS ISLAND, DONALDSON CREEK, MARGARET (L.110)

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103G08E BC MAP:

LATITUDE: 53 28 10 N LONGITUDE: 130 02 43 W

ELEVATION: 15 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located around East Central Banks Island, between Patsey Cove and Donaldson Lake (Open File 1987-15, Figure 31). Occurrence is on

Industrial Min.

reverted Crown Grant Margaret Lot 110.

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Silica

ASSOCIATED: Amphibole MINERALIZATION AGE: Unknown Magnetite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I07 Silica

Silica veins

SHAPE: Regular DIMENSION: 0030 x 0020

STRIKE/DIP: TREND/PLUNGE: Metres

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary

LITHOLOGY: Hornblende Granodiorite Hornblende Quartz Biotite Diorite

Migmatite Gneissic Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Plutonic Ŕocks

INVENTORY

ORE ZONE: BANKS ISLAND

REPORT ON: Y

Per cent

CATEGORY: YFAR: 1975 Inferred

QUANTITY: 9000 Tonnes

COMMODITY **GRADE** Silica 98.8000

COMMENTS: Estimated grade of silica is 98.8 per cent SiO2. REFERENCE: Open File 1987-15, page 34.

CAPSULE GEOLOGY

The area of the occurrence is largely underlain by hornblende granodiorite of the Coast Plutonic Complex. There are also some exposures of Permian and/or older metasediments consisting mainly of laminated micaceous quartzite, crystalline limestone, skarn and schist. The showing is underlain by a gneissic diorite-migmatite

FORMATION

complex near the contact with hornblende-biotite quartz diorite.

Several outcrops of pure white quartz occur on the northwest side of Donaldson Creek. The outcrops define a northeasterly trending body exposed over an area measuring at least 20 by 30 metres. The quartz is usually massive, coarse-grained and milky white, but minor amounts of smoky quartz are present. Two other small bodies of quartz are exposed in Donaldson Creek to the south-west of the main group of outcrops. This quartz is white weathering, coarse-grained and massive. It contains veinlets of magnetite and amphibolitic inclusions. A chip sample of about seven metres from the main outcrop was collected by the Geological Survey Branch in 1982. It assayed 99.26 per cent silica (Open File 1987-15, page 34). In 1975, reserves were estimated to be at least 9,000 tonnes of silica with a grade of 98.8 per cent SiO2 (Open File 1987-15,

page 34).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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Falconbridge File

Falconbridge File

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 023 NATIONAL MINERAL INVENTORY: 103G8 Cu1

NAME(S): DONALDSON CREEK, HENRIETTA (L.109), MARGARET (L.110)

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103G08E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 28 09 N NORTHING: 5924973 LONGITUDE: 130 02 46 W EASTING: 430560

ELEVATION: 10 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Shaft location, Map 4 (Assessment Report 11176). Situated about 0.4

kilometres up Donaldson Creek from Patsy Cove, on the northeast side

of Banks Island.

Tungsten COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite Magnetite Pyrite Scheelite

ASSOCIATED: Quartz ALTERATION: Quartz Actinolité Calcite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Podiform Vein Disseminated Massive

CLASSIFICATION: Replacement **Epigenetic** K03 TYPE: K01 Fe skarn Cu skarn

SHAPE: Regular DIMENSION: 0018 x 0006 Metres STRIKE/DIP: 028/90 TREND/PLUNGE:

COMMENTS: Mineralized area in quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Unnamed/Unknown Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Limestone

Marble Quartzite Quartz Diorite Schist

HOSTROCK COMMENTS: Permian (?) or older metasediments informally described as the Prince

Rupert Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Plutonic Rocks METAMORPHIC TYPE: Contact Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1982 CATEGORY: Assay/analysis

> SAMPLE TYPE: Chip

**GRADE** COMMODITY

Silver 4.1000 Grams per tonne 1.0500 Per cent

Copper COMMENTS: The sample width is 2.3 metres. REFERENCE: Assessment Report 11176.

CAPSULE GEOLOGY

An 18 by 6 metre pod of massive sulphide is enclosed by a vertical dipping, 4 to 25 metre wide milky quartz vein, which strikes 028 degrees for 50 metres. The quartz is barren and appears to be a replacement of a large inclusion of metasediments within quartz diorite of the Coast Plutonic Complex. The Permian (?) or older diorite of the Coast Plutonic Complex. The Permian (?) or older metasediments are a segment of a northwest trending belt of laminated micaceous quartzite and crystalline limestone, marble, and schist.

The massive sulphide pod is a mineral assemblage of mainly magnetite and pyrrhotite with lesser amounts of chalcopyrite and pyrite and very minor scheelite. Actinolite, quartz, and calcite constitute the gangue material. A 2.3 metre chip sample assayed 1.05 per cent copper and 4.1 grams per tonne silver (Assessment

> MINFILE NUMBER: 103G 023

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MINFILE MASTER REPORT

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**CAPSULE GEOLOGY** 

Report 11176). A selected bulk sample taken in 1971 assayed 0.60 per cent copper and 1.12 per cent WO3 (Assessment Report 11176).

In 1968 a large chip sample was collected and yielded 0.58 per cent copper with traces of gold, silver and nickel (National Mineral Inventory Card 103G8 Cu1).

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 024

NATIONAL MINERAL INVENTORY: 103G8 Au1

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314

STATUS: Developed Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103G08E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: NORTHING: 5915071 LONGITUDE: 130 10 56 W EASTING: 421359

ELEVATION: 30 Metres LOCATION ACCURACY: Within 500M

COMMENTS: West-central Banks Island (Assessment Report 14171).

COMMODITIES: Gold Silver Copper 7inc I ead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Galena Arsenopyrite

ASSOCIATED: Quartz Calcite ALTERATION: Sericite Chlorite Silica Diopside **Epidote** 

Actinolite Garnet Zoisite ALTERATION TYPE: Silicific'n Skarn

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Breccia Vein Disseminated Massive

CLASSIFICATION: Skarn TYPE: I01 Replacement Epigenetic

102 Au-quartz veins Intrusion-related Au pyrrhotite veins

Polymetallic veins Ag-Pb-Zn±Au 105 K07 Mo skarn

SHAPE: Regular MODIFIER: Faulted Other

DIMENSION: 125 x 44 x 1 Metres STRIKE/DIP: 090/75N TREND/PLUNGE:

COMMENTS: Main ore shoot. Other modifier is brecciated.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Group Unnamed/Unknown Formation

Mesozoic-Cenozoic Coast Plutonic Complex

LITHOLOGY: Pelite

Marble Skarn Quartz Diorite Granodiorite Breccia Greywacke

Pelite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Milbanke Strandflat

Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: Y ORE ZONE: BOB

> CATEGORY: Indicated YEAR: 1986

QUANTITY: 45350 Tonnes **GRADE** COMMODITY

Gold 40.1000 Grams per tonne

REFERENCE: MDAP - Prospectus, Trader Resource Corporation, Yellow Giant, 1986.

**CAPSULE GEOLOGY** 

Banks Island lies along the western edge of the Tertiary-Jurassic Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian(?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn and schist. The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact metasomatism.

Regional and local faulting, fracturing and folding are common on the Island. Two major right-lateral faults, striking 310 degrees, known as the Arseno and Hepler faults, have associated 045 degree

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

linears. Left-lateral faults striking 090 degrees also occur. Many contacts between the plutonic and metasedimentary rocks are faults or drag folds. Some faults have been healed by recrystallization. Structure is the prime factor in ore localization.

The Yellow Giant (Bob) deposit occurs near the intersection of

The Yellow Giant (Bob) deposit occurs near the intersection of the northwest trending Bank-Barge lineament and the east trending Survey Bay fault, at the north end of the "Western Metasedimentary Belt". Underlying the deposit is an unusual biotite quartz diorite breccia containing abundant small to very large marble and greywacke fragments.

A marble block or horst associated with high grade gold mineralization averages 12 metres wide and may be related to disrupted drag folding. Skarn development is common along margins of the marble and quartz lenses occur at the outermost phase.

The fault-controlled deposit occurs partially in calcareous pelites, marble and skarn in the upper levels and predominantly in altered quartz diorite in the lower level. The main ore shoot is a sulphide lens over 44 metres long, up to 125 metres in vertical depth, and 1.7 metre average width that dips steeply (75-80 degrees) north and strikes easterly. Subsidiary mineralization lies above (5-10 metres) and below the main deposit.

Mineralization, consisting of abundant auriferous pyrite with lesser chalcopyrite and minor sphalerite, galena, and arsenopyrite, is controlled by the Bob fault, a well-defined steep north dipping, east-northeast striking fault which cuts all rocks and is accompanied by zones of intense brecciation.

Sampling of an underground drift, 40 metres below surface, averaged 31.71 grams per tonne gold and 97.03 grams per tonne silver across 1.69 metres along a 44 metre length. A drill hole intersected 46.63 grams per tonne gold and 168.17 grams per tonne silver over 4.5 metres in a massive pyrite and chalcopyrite zone (Assessment Report 14171).

Additional surface showings occur near the Bob zone. Showing A20, 70 metres north of the Bob deposit, occurs near the West Bank fault within skarnified marble adjacent to diorite. Drilling intersected a zone of sphalerite and galena assaying 1.7 grams per tonne gold, 30.9 grams per tonne silver, 4.68 per cent zinc and 1.84 per cent lead over 0.46 metres (Assessment Report 14171).

Another skarn-associated showing, 240 metres southeast of the main zone, contains pyrite and arsenopyrite and assayed 710 grams per tonne gold in a rock chip sample (Assessment Report 14171).

Extensive diamond drilling was carried out in 1984 and 1985 on four mineralized zones (Kim, Bob, Discovery and Tel). Indicated reserves for the Bob zone are 45,350 tonnes grading 40.1 grams per tonne gold (MDAP - Prospectus, Trader Resource Corporation, Yellow Giant, 1986). See Kim (103G 021), Discovery (103G 025) and Tel (103G 026) for additional reserves.

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    #10, #14, 1986; #105(June 2), 1998
N MINER Aug.10, 1978; Sept.6,13, Dec.13, 1984; Mar.21, Oct.28, Dec.9,
   1985; Jun. 23, Dec. 8, 1986
NAGMIN Jun.7,Oct.11, 1985
PR REL Trader Resource Corp., Sept.5, 1984
Falconbridge File
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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 025 NATIONAL MINERAL INVENTORY: 103G8 Au1

NAME(S): YELLOW GIANT (DISCOVERY), DISCOVERY, BANKS, HEPLER LAKE

STATUS: Developed Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103G08E UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 53 21 49 N LONGITUDE: 130 07 36 W

NORTHING: 5913312 EASTING: 425027 ELEVATION: 35 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: West-central Banks Island (Assessment Report 14171).

COMMODITIES: Gold Silver 7inc Copper Lead

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Arsenopyrite Sphalerite Chalcopyrite

Galena

ASSOCIATED: Quartz ALTERATION: Garnet ALTERATION TYPE: Silicific'n Actinolite Zoisite Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia

CLASSIFICATION: Skarn TYPE: 101 Replacement **Epigenetic** K04 Au-quartz veins

Au skarn 102 Intrusion-related Au pyrrhotite veins 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Regular MODIFIER: Other

DIMENSION: 90 x 76 x 3 Metres STRIKE/DIP: 135/80N TREND/PLUNGE:

COMMENTS: Discovery zone is open at length and depth. Other modifier is

brecciatéd.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE <u>GROUP</u>

Permian Unnamed/Unknown Group Unnamed/Unknown Formation Mesozoic-Cenozoic Coast Plutonic Complex

LITHOLOGY: Marble

Zoisite Actinolite Quartz Skarn

Granodiorite

Biotite Quartz Monzonite

Quartz Diorite Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander METAMORPHIC TYPE: Regional Plutonic Rocks RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DISCOVERY REPORT ON: Y

> CATEGORY: Unclassified YFAR: 1988

> QUANTITY: 58361 Tonnes

**COMMODITY** 15.5000 Grams per tonne

REFERENCE: Trader Resource Corp., Letter to Shareholders March 28, 1988.

CAPSULE GEOLOGY

Banks Island lies along the western edge of the Tertiary-Jurassic Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian(?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn and schist. The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact metasomatism. Regional and local faulting, fracturing and folding are common on the island. Two major right-lateral faults, striking 310 degrees, known as the Arseno and Hepler faults, have associated 045 degree linears. Left-lateral faults striking 090 degrees also 045 degree linears. Left-lateral faults striking 090 degrees also occur. Many contacts between the plutonic and metasedimentary rocks

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

are faults or drag folds. Some faults have been healed by recrystallization. Structure is the prime factor in ore localization. The Discovery zone is localized within a northwest trending fault zone that partially crosscuts metasedimentary rocks parallel to the margin of altered biotite quartz monzonite. The mineralized zone occurs between coarsely crystalline grey marble to the south and zoisite-actinolite-quartz skarn to the north. The metasediments are cut by hornblende quartz diorite dykes. The fault structure strikes 315 to 320 degrees and dips steeply (80 degrees) northeast. The mineralization dips less steeply near surface (55 to 65 degrees northeast). Sulphide mineralization consists of pyrite, pyrrhotite, arsenopyrite, sphalerite, and chalcopyrite which replaces the grey marble and brecciated skarn. The mineralized zone averages 3 metres wide and is up to 76 metres long and 90 metres vertical depth. The deposit appears to be a 30 degree southeast plunging shoot open at depth and strike length. A 15.2-metre drill intersection assayed 24.69 grams per tonne gold and 63.77 grams per tonne silver (Assessment Report 14171). Minimal zinc assays show a gold:zinc ratio of 0.55:1.0.

Extensive diamond drilling was carried out in 1984 and 1985 on four mineralized zones (Kim, Bob, Discovery and Tel). Unclassified reserves for the Discovery zone are 58,361 tonnes grading 15.5 grams per tonne gold (Trader Resource Corp., Letter to Shareholders March 28, 1988). See Kim (103G 021), Bob (103G 024) and Tel (103G 026) for additional reserves.

Doublestar Resources Ltd. acquired an interest in the property in 1998.

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1984; #45,#142, 1985; #10,#14, 1986; #105(June 2), 1998

N MINER Mar.22,Sept.6,13,Oct.28,Nov.15,Dec.9, 1985; Jun.23,Dec.8,
    1986
NAGMIN Jun.7, Oct.11, 1985
PR REL Trader Resource Corp., Sept.5, 1984
Falconbridge File
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ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 026 NATIONAL MINERAL INVENTORY: 103G8 Au2

NAME(S): YELLOW GIANT (TEL), TEL, BANKS, MAIN TEL, WEST TEL, CENTRAL

STATUS: Developed Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103G08E UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 53 21 54 N LONGITUDE: 130 09 41 W

NORTHING: 5913504 EASTING: 422719 ELEVATION: 25 Metres

LOCATION ACCURACY: Within 500M COMMENTS: West-central Banks Island (Assessment Report 14171).

COMMODITIES: Gold Silver 7inc Lead Copper

**MINERALS** SIGNIFICANT: Pyrite

Pyrrhotite Sphalerite Chalcopyrite Arsenopyrite

Quartz

ASSOCIATED: Calcite
ALTERATION: Garnet
ALTERATION TYPE: Skarn Actinolite Chlorite Silicific'n

Galena

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive Breccia Vein

CLASSIFICATION: Skarn TYPE: I01 Replacement **Epigenetic** Au-quartz veins 102

Intrusion-related Au pyrrhotite veins Polymetallic veins Ag-Pb-Zn±Au K04 Au skarn 105

SHAPE: Regular MODIFIER: Faulted

DIMENSION: 200 x 135 x 7 Metres STRIKE/DIP: 120/65N TREND/PLUNGE:

COMMENTS: Main Tel zone, average width.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Group Unnamed/Unknown Formation Mesozoic-Cenozoic Coast Plutonic Complex

LITHOLOGY: Marble

Garnet Actinolite Skarn

Diorite Granodiorite Quartz Monzonite Quartz Diorite Limestone Biotite Hornfels

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Milbanke Strandflat

Plutonic Rocks METAMORPHIC TYPE: Contact **RELATIONSHIP:** GRADE: Hornfels Regional Greenschist

INVENTORY

ORE ZONE: MAIN TEL REPORT ON: Y

> CATEGORY: Unclassified YEAR: 1988 QUANTITY: 71349 Tonnes

COMMODITY **GRADE** 

14.4000 Grams per tonne

REFERENCE: Trader Resource Corp., Letter to Shareholders March 28, 1988.

CAPSULE GEOLOGY

Banks Island lies along the western edge of the Tertiary-Jurassic Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian(?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn and schist. The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact metasomatism.

Regional and local faulting, fracturing and folding are common on the island. Two major right-lateral faults, striking 310 degrees,

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

known as the Arseno and Hepler faults, have associated 045 degree linears. Left-lateral faults striking 090 degrees also occur. Many contacts between the plutonic and metasedimentary rocks are faults or drag folds. Some faults have been healed by recrystallization. Structure is the prime factor in ore localization.

The Tel area is underlain by a northwest trending metasedimentary assemblage which dips moderately to steeply (55 to 80 degrees) northeast. The metasediments are mainly crystalline, silty and banded marble, and minor siltstone-biotite hornfels. The rocks are cut by many faults and shears, producing abundant chloritic slickensides, graphitic zones and gouge. All units have variable development of garnet-actinolite skarn and have been intruded by quartz diorite dykes, quartz felsite sills and quartz veins.

Three mineralized zones occurring along a 300 metre strike

Three mineralized zones occurring along a 300 metre strike length are the Main, Central and West Tel zones. Massive sulphide and quartz-sulphide vein mineralization contains pyrite, pyrrhotite, sphalerite, galena and arsenopyrite. Gangue minerals include calcite and brecciated quartz.

The Main Tel zone is 200 metres long, 7.6 metres average width, and 135 metres in vertical depth. The deposit is open along strike and at depth. A 14.33-metre drill intersection assayed 53.40 grams per tonne gold, 34.29 grams per tonne silver, 2.73 per cent zinc and 0.15 per cent copper (Assessment Report 14171). A 1985 drill intersection assayed 20.23 grams per tonne gold, 39.09 grams per tonne silver, 1.49 per cent lead and 1.07 per cent zinc over 22.34 metres (George Cross News Letter #245, 1985).

The West Tel zone, 250 metres to the northwest, has gold in both grants weim and sharp exposed in surface trenches. A 1.8-metre drill

The West Tel zone, 250 metres to the northwest, has gold in both quartz vein and skarn exposed in surface trenches. A 1.8-metre drill intersection assayed 0.62 grams per tonne gold (Assessment Report 14171). Two of the largest 045 degree cross faults, called the Tel and Sproatt faults, cut through the Main Tel and West Tel zones respectively.

The Central zone, 90 metres southeast of the West Tel zone, has sulphide lenses in diorite and marble. A 2.1-metre drill intersection assayed 9.26 grams per tonne gold, 27.43 grams per tonne silver and 2.65 per cent copper (Assessment Report 14171).

The Tel deposit appears to be a deformed Paleozoic gold deposit that may, in part, have been localized by solution collapse breccias formed in host carbonate lithologies.

Unclassified reserves of the Main Tel deposit are 71,349 tonnes grading 14.4 grams per tonne gold (Trader Resource Corp., Letter to Shareholders March 28, 1988).

Doublestar Resources Ltd. acquired an interest in the property in 1998.

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EMPR OF 1992-1
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GSC MAP 23-1970
GSC MAP 23-1970
GSC MAP 23-1970
GSC MAP 37-199, #204, #215, 1975; #8, #41, #108, #113, #172, #213, #237, 1984; #45, #142, #215, #243, #245, 1985; #9, #10, #11, #13, #14, #20, #111, #134, #151, #190, 1986; #32, #42, #54, 1987; #234(Dec.4), 1990; #105(June 2), 1998
IPDM Feb., 1986
N MINER Sept.6, 13, Oct. 28, Nov. 18, Dec. 9, 23, 1985; Jan. 27, Feb. 10, *Jun. 23, Jul. 21, Oct. 6, Dec. 8, 1986; Apr. 13, Sept. 14, 28, 1987
NAGMIN Jun. 7, Oct. 11, 1985
PR REL Trader Resource Corp., Sept. 5, 1984
V STOCKWATCH Aug. 12, 1987
Falconbridge File
Seraphim, R.H. (1975): Report on the Tel Claims, Banks Island in Sproatt Silver Mines Ltd., Statement of Material Facts, Jun., 1975
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DATE CODED: 1986/08/08 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/02/27 REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 027

NATIONAL MINERAL INVENTORY: 103G9 Au1

PAGE:

REPORT: RGEN0100

320

NAME(S): ROWE GOLD BUG, STARBOARD WATCH, STANDARD WATCH

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103G09E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: NORTHING: 5954477 LONGITUDE: 130 11 16 W ELEVATION: 425 Metres **EASTING: 421646** 

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol #2 (Geological Survey of Canada Map 23-1970), situated on Pitt

Island on the west slope of Noble Mountain.

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Gold Pyrite Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 102 Intrusion-related Au pyrrhotite veins 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Regular MODIFIER: Sheared

STRIKE/DIP: 035/25E Metres TREND/PLUNGE:

DIMENSION: 0200 x 0001

HOST ROCK DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1930

SAMPLE TYPE: Grab

GRADE 27.4000 COMMODITY Silver Grams per tonne 70.0000 Gold Grams per tonne

REFERENCE: Minister of Mines Annual Report 1930, pages 69,70.

**CAPSULE GEOLOGY** 

A 1.2 to 1.8 metre quartz vein, trending 035 degrees and dipping 15 to 30 degrees east, occurs in quartz diorite of the Coast Plutonic Complex. The vein can be traced for 200 metres and contains lenses of pyrite, variable gold, and minor chalcopyrite. A 1.5 metre sample assayed trace gold, 10.3 grams per tonne silver, and 0.5 per cent copper and a grab sample assayed 70 grams per tonne gold and 27.4 grams per tonne silver (Minister of Mines Annual Report 1930, page

69).

**BIBLIOGRAPHY** 

EMPR AR 1922-43,44; 1923-45; 1925-67; 1926-71; 1927-61; 1929-75;

\*1930-69,70; 1931-35; 1932-49 EMPR BULL 1, 1932, pp. 21,29 GSC MAP 23-1970; 278A

GSC P \*70-41, p. 49

CODED BY: LDJ REVISED BY: LLD

DATE CODED: 1986/07/31 DATE REVISED: 1989/02/27 FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 028

NATIONAL MINERAL INVENTORY: 103G4 Sb1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5884163 EASTING: 317838

REPORT: RGEN0100

321

NAME(S): **BELLA**, MARINO, MOLY, MORE

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103G04E

BC MAP:

LATITUDE: 53 04 39 N LONGITUDE: 131 43 16 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located about 3.2 kilometres north of Cumshewa Inlet. See Figure 1

(Assessment Report 5431). See also Marino (103G 008).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite Calcite

ASSOCIATED: Quartz ALTERATION: Calcite ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Vein Epigenetic **Epithermal** 

CLASSIFICATION: Hydrothermal TYPE: H03 Hot sp Hot spring Au-Ag

STRIKE/DIP: DIMENSION: 600 x 600 Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Yakoun Middle Jurassic Undefined Formation

LITHOLOGY: Andesite

Dacite Rhvolite Bréccia

Sediment/Sedimentary

HOSTROCK COMMENTS: Yakoun Formation has been reclassified as the Yakoun Group (Geological

Survey of Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YEAR: 1975 Assay/analysis

SAMPLE TYPE: Drill Core COMMODITY

Grams per tonne

COMMENTS: The sample width is 6.1 metres.

REFERENCE: Assessment Report 5431.

CAPSULE GEOLOGY

The property is located 3 kilometres north of Cumshewa.

The area is underlain by Middle Jurassic Yakoun Group rocks consisting of porphyritic andesite agglomerate, tuffs and volcanic sediments that are cut by mafic and felsic dikes. The strata dip

gently to the north.

Disseminations and stringers of pyrite, arsenopyrite and stibnite occur in carbonate altered rhyolite, rhyolite porphyry, breccia, and andesite. Drilling encountered higher gold values associated with quartz-calcite-pyrite-arsenopyrite veinlets in an analysis of the person of the p area 600 by 600 metres in size. A 6 metre intersection in drill hole B75-1 assayed 1.5 grams per tonne gold (Assessment Report 5431). A 1988 drill hole encountered 3 grams per tonne gold over 3.05 metres (Assessment Report 17390, page 5). Surface samples have assayed up to 5 grams per tonne gold over 1 metre (Assessment Report 17390, page 5).

This showing was discovered by Efrem Specogna in 1972. The property was optioned by Umex Corp. and Chevron Minerals in 1974 and RUN DATE: 26-Jun-2003 **MINFILE**RUN TIME: 12:06:33 GF01.0GI

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

1975. Work by these companies included soil and rock sampling and geological mapping, and the drilling of five holes totaling 350 metres. Thunderwood Explorations completed an airborn magnetometer surveys in 1980. The showing was restaked by Cominco Ltd. in 1986. By the end of 1987 the company had completed line cutting, an induced polarization survey (28 kilometres), soil sampling and geological mapping over the showing and surrounding area. Cominco drilled 33 percussion holes totaling 2500 metres in 1988 to test induced polarization anomalies over the showing. Cominco continued work in 1995 with the flying of an airborn electromagnetic and magnetometer survey over the region totaling 228 kilometres.

See also Marino (103G 008).

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EMPR GEM \*1974-323

GSC MAP 176A; 177A; 278; 1385A; 3-1990

GSC MEM 88

GSC P 86-20; 88-1E, pp. 217-219; 89-1H, pp. 7-11; 90-10

GCNL #239, 1979; #90(May 8), 1980

Chevron File

Falconbridge File

DATE CODED: 1986/06/06 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1999/10/31 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103G 028

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 029

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5900816

EASTING: 311230

REPORT: RGEN0100

323

NAME(S): **SNOW 3**, BAXTER CREEK

STATUS: Showing REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103G04W BC MAP:

LATITUDE: 53 13 29 N

LONGITUDE: 131 49 46 W ELEVATION: 25 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map (Assessment Report 7805); located west of Cape Chroustcheff, Moresby Island.

COMMODITIES: Barite Lead 7inc

MINERALS
SIGNIFICANT: Barite Pyrite Sphalerite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Epigenetic Industrial Min.

110 TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au Vein barite

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

GROUP Yakoun Middle Jurassic Undefined Formation

LITHOLOGY: Tuff

Andesitic Agglomerate Andesite

Rhyolitic Dike Diorite

HOSTROCK COMMENTS: Yakoun Formation has been reclassified as the Yakoun Group (Geological

Survey of Canada Paper 88-1E, pages 221-229).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Ranges TERRANE: Wrangell

**CAPSULE GEOLOGY** 

The area is underlain predominately by andesitic agglomerates and tuffs of the Middle Jurassic Yakoun Group with lesser Upper Cretaceous Honna Formation conglomerates. The rocks are cut by rhyolite dikes and diorite intrusives and are bounded to the east by

the northwest trending Sandspit fault.

A barite vein with associated galena and sphalerite occurs in

Yakoun volcanics.

**BIBLIOGRAPHY** 

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Falconbridge File

DATE CODED: 1986/06/23 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/02/27 REVISED BY: LLD FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 030

NATIONAL MINERAL INVENTORY:

NAME(S): **ENGLISHMAN**, YELLOW GIANT

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 103G08E BC MAP:

LATITUDE: 53 21 54 N LONGITUDE: 130 07 26 W ELEVATION: 30 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Figure 2 (Assessment Report 14171); 250 metres east of Discovery (103G025). West Central Banks Island.

Molybdenum

COMMODITIES: Gold

Silver

7inc

Lead

Copper

PAGE:

REPORT: RGEN0100

324

**MINERALS** 

SIGNIFICANT: Pyrite

Molybdenite

Pyrrhotite Sphalerite Arsenopyrite

Galena

Chalcopyrite

ASSOCIATED: Quartz

ALTERATION: Sericite

Quartz

Chlorite Chloritic

Calcite

Clinochlore

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Vein Disseminated

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 102 Intrusion-related Au pyrrhotite veins

SHAPE: Regular MODIFIER: Faulted

DIMENSION: 0380 x 0090 x 0024 Metres

COMMENTS: Main zone; open length and depth; maximum width.

STRIKE/DIP: 115/80N

105

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

Polymetallic veins Ag-Pb-Zn±Au

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5913464 EASTING: 425214

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP

LITHOLOGY: Quartz Monzonite Limestone Quartzite

Schist Hornblende Quartz Diorite

Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Alexander

Plutonic Rocks

**FORMATION** 

PHYSIOGRAPHIC AREA: Milbanke Strandflat

INVENTORY

ORE ZONE: MAIN

REPORT ON: N

YEAR: 1985

CATEGORY: Assay/analysis

SAMPLE TYPE: Drill Core COMMODITY

**GRADE** 

Silver Gold

10.2900 Grams per tonne 7.5400 Grams per tonne

COMMENTS: Main Zone, 2.44 metre width. Also 4.8 grams per tonne gold on

North Zone over 4.0 metres.

REFERENCE: Assessment Report 14171, page 23.

CAPSULE GEOLOGY

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian (?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist.

The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact metasomatism.

Regional and local faulting, fracturing, and folding are common on the Island. Two major, right lateral faults, trending 310 degrees known as the Arseno and Hepler faults have associated 045 degree Left lateral faults trending 090 degrees also occur. Many contacts between the plutonic and metasedimentary rocks are faults or

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

drag folds. Some faults have been healed by recrystallization. Structure is the prime factor in ore localization.

The Englishman Zone lies along a major east-west fracture-shear system and is characterized by intense sericite-chlorite-quartz alteration, hosted by biotite quartz monzonite. The Main Zone strikes 115 degrees and dips 80 degrees north and the North Zone strikes 135 degrees and is close to vertical. The two zones are separated by a 20 to 30 metre distinctive hornblende quartz diorite with many intrusive breccia features. Pyrite, pyrrhotite, and arsenopyrite, with minor sphalerite, galena, and molybdenite occur as disseminations.

The east-west trend of the Englishman Zone is displaced by 045 degree cross faults with up to 50 metre left-lateral displacements. The Main Zone strikes 380 metres, has a vertical depth of 90 metres, and widths up to 24 metres. The North Zone strikes a similar length, has a 40 metre vertical depth and widths up to 4 metres. Both zones are open in length and depth.

A 2.44 metre drill intersection in the Main Zone assayed 7.54 grams per tonne gold and 10.29 grams per tonne silver. A 4.0 metre intersection of the North Zone assayed 4.8 grams per tonne gold (Assessment Report 14171).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 5720, 12719, \*14171, 15759, 17503

EMPR EXPL 1975-174; 1976-162; 1984-372; 1985-C367

EMPR PF (Trader Resource Corp., Statement of Material Facts, Jan.13, 1986)

EMR MP CORPFILE (Trader Resource Corp.)

GSC MAP 23-1970

GSC MAP 23-1970

GSC P 70-41; 86-20; 88-1E; 89-1H

N MINER Dec.9, 1985

NAGMIN Jun.7, 1985

DATE CODED: 1986/08/07 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/02/27 REVISED BY: LLD FIELD CHECK: N

GCNL #205, 1984; #45, 1985; #14, 1986

MINFILE NUMBER: 103G 030

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 031

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

326

NAME(S): QUARTZ HILL, CLIFF, MEADE, YELLOW GIANT

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103G08E UTM ZONE: 09 (NAD 83)

BC MAP:

NORTHING: 5913305 EASTING: 425489 LATITUDE: LONGITUDE: 130 07 11 W

ELEVATION: 55 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Figure 2 (Assessment Report 14171). West Central Banks Island.

COMMODITIES: Gold 7inc Silver Lead Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Molybdenite

ASSOCIATED: Quartz
ALTERATION: Chlorite
ALTERATION TYPE: Silicific'n Sericite Silica Actinolite Garnet Chloritic Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Vein Disseminated

CLASSIFICATION: Skarn **Epigenetic** K02 Pb-Zn skarn

TYPE: K04 A SHAPE: Irregular Au skarn

MODIFIER: Sheared

Metres STRIKE/DIP: TREND/PLUNGE:

DIMENSION: 0250 x 0100 COMMENTS: Area of quartz masses.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Permian Undefined Group Unnamed/Unknown Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Marble

Actinolite Garnet Skarn Quartz Monzonite Granodiorite Quartz Diorite Limestone Schist

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat TERRANE: Alexander

Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis YEAR: 1985

**COMMODITY GRADE** 

34.3000 Grams per tonne Gold

COMMENTS: The sample was taken from a width of 5 to 13 centimetres over 6.1

metres of length.

REFERENCE: Assessment Report 14171.

**CAPSULE GEOLOGY** 

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian (?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist. The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact metasomatism.

Regional and local faulting, fracturing, and folding are common on the Island. Two major, right lateral faults, trending 310 degrees known as the Arseno and Hepler faults have associated 045 degree Left lateral faults trending 090 degrees also occur. Many

RUN DATE: 26-Jun-2003 **MINFILE I**RUN TIME: 12:06:33 GEOLOGIC

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

contacts between the plutonic and metasedimentary rocks are faults or drag folds. Some faults have been healed by recrystallization. Structure is the prime factor in ore localization.

Structure is the prime factor in ore localization.

The Quartz Hill area consists of abundant large, irregular quartz veins and masses in a 250 by 100 metre area associated with metasedimentary rocks in contact with quartz monzonite. The quartz masses are at the intersection of a 150 metre long east-west shear and a 240 metre northeast-southwest structural lineament.

The metasedimentary rocks consist of marble and actinolitegarnet skarn. Disseminated sulphide mineralization occurs throughout the area as sparse molybdenite, sphalerite, and pyrite. Galena containing up to 342 grams per tonne silver is occasionally present near vein contacts (Assessment Report 14171).

near vein contacts (Assessment Report 14171).

Trenching of the "Cliff Zone" exposed a heavily manganese oxidestained contact between hornblende-biotite quartz monzonite and
garnet-actinolite skarn with 10 to 15 centimetre widths of massive
pyrite and lesser sphalerite. Samples assayed 3.4 grams per tonne
gold, 27.4 grams per tonne silver, 2.0 per cent zinc, and 0.71 per
cent lead. A 3.0 metre chip sample assayed 1.54 grams per tonne
gold. The "Meade vein", 80 metres to the south assayed 34.3 grams
per tonne gold from a 5 to 13 centimetre width over a 6.1 metre
length (Assesment Report 14171).

### **BIBLIOGRAPHY**

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EMPR EXPL 1975-174; 1976-162; 1984-372; 1985-C367
EMPR PF (Trader Resource Corp., Statement of Material Facts, Jan.13, 1986)
EMR MP CORPFILE (Trader Resource Corp.)
GSC MAP 23-1970
GSC P 70-41
GCNL #98,#130,#213, 1984; #14, 1986

DATE CODED: 1986/08/07 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/02/27 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 031

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 032

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

328

NAME(S): MIDWAY, YELLOW GIANT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103G08E BC MAP:

LATITUDE: 53 21 39 N NORTHING: 5912986 LONGITUDE: 130 06 36 W EASTING: 426131

Metres ELEVATION: 65 LOCATION ACCURACY: Within 500M

COMMENTS: Trench, Figures 44, 45 (Assessment Report 14171). West Central Banks

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz

ALTERATION: Sericite
ALTERATION TYPE: Silicific'n Chlorite Silica Chloritic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 102 Intrusio DIMENSION: 0040 x 0005 Intrusion-related Au pyrrhotite veins STRIKE/DIP: 130/ TREND/PLUNGE: Metres

COMMENTS: Area of quartz veins.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Permian Undefined Group Unnamed/Unknown Formation

Cretaceous-Tertiary

LITHOLOGY: Meta Greywacke

Quartz Monzonite Granodiorite Quartz Diorite Limestone Quartzite Schist

Meta Greywacke

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Milbanke Strandflat Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1985 Assay/analysis

> CATEGORY: Assa SAMPLE\_TYPE: Chip

COMMODITY **GRADE** 2.2300 Gold Grams per tonne

COMMENTS: The sample width is 2 metres. REFERENCE: Assessment Report 14171.

**CAPSULE GEOLOGY** 

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly  $\frac{1}{2}$ granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian (?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist.

The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact metasomatism.

The Midway area is characterized by siliceous, sericite-chlorite altered quartz monzonite in contact with metagreywacke. Trenching uncovered pyritic quartz veins across a 5 metre width trending northwest for about 40 metres. A 2 metre sample averaged 2.23 grams per

tonne gold (Assessment Report 14171).

MINFILE NUMBER: 103G 032

Coast Plutonic Complex

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 5720, 12719, \*14171, 15759, 17503 EMPR EXPL 1975-174; 1976-162; 1984-372; 1985-C367 EMPR PF (Trader Resource Corp., Statement of Material Facts, Jan.13,

1986)
EMR MP CORPFILE (Trader Resource Corp.)
GSC MAP 23-1970
GSC P 70-41
GCNL #45, 1985; #10,#14, 1986
IPDM Feb., Mar., 1985
NAGMIN Jun.7, 1985

DATE CODED: 1986/08/07 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 032

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RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 033

NATIONAL MINERAL INVENTORY:

NAME(S): EX, YELLOW GIANT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

330

NTS MAP: 103G08E BC MAP: LATITUDE: 53 21 24 N

NORTHING: 5912512 EASTING: 426771

LONGITUDE: 130 06 01 W ELEVATION: 20 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Figure 2, (Assessment Report 14171). West Central Banks Island.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz ALTERATION TYPE: Silicific'n Actinolite Garnet Skarn

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated CLASSIFICATION: Skarn TYPE: K04 Hydrothermal Replacement Epigenetic Intrusion-related Au pyrrhotite veins

Au skarn 102

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Permian

**Undefined Group** Unnamed/Unknown Formation Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Marble

Garnet Actinolite Skarn

Hornfels

Quartz Monzonite Granodiorite Quartzite Schist Limestone

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat TERRANE: Alexander Plutonic Rocks

METAMORPHIC TYPE: Contact Regional RELATIONSHIP: GRADE: Hornfels

Greenschist

INVENTORY

REPORT ON: N ORE ZONE: FLOAT

> CATEGORY: Assay SAMPLE TYPE: Rock YEAR: 1985 Assay/analysis

> COMMODITY **GRADE**

Gold 17.1000 Grams per tonne COMMENTS: Float sample.

REFERENCE: Assessment Report 14171.

CAPSULE GEOLOGY

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian (?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist. The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact metasomatism.

The Ex Creek area is underlain by metasediments in contact with quartz monzonite. The metasediments, consisting of thin bedded siltstone and white, medium crystalline marble, are altered to rusty, quartz-rich silty hornfels and garnet actinolite skarn. Disseminated pyrite is common and gold occurs in quartz stringers. Numerous mineralized float specimens assayed up to 17.1 grams per tonne gold (Assessment Report 14171).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 5720, 12719, \*14171, 15759, 17503 EMPR EXPL 1975-174; 1976-162; 1984-372; 1985-C367 EMPR PF (Trader Resource Corp., Statement of Material Facts, Jan.13,

1986)
EMR MP CORPFILE (Trader Resource Corp.)
GSC MAP 23-1970
GSC P 70-41
GCNL #13,#14, 1986
N MINER Jan.27, 1986

DATE CODED: 1986/08/07 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 033

PAGE:

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 034

NATIONAL MINERAL INVENTORY:

NAME(S): INDIA, YELLOW GIANT

STATUS: Showing REGIONS: British Columbia NTS MAP: 103G08E BC MAP:

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

LATITUDE: 53 21 29 N LONGITUDE: 130 07 11 W ELEVATION: 50 Metres

NORTHING: 5912687 EASTING: 425480

PAGE:

REPORT: RGEN0100

332

LOCATION ACCURACY: Within 500M

COMMENTS: Sulfide showing, Figure 48 (Assessment Report 14171). West Central

Banks Island.

COMMODITIES: Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite COMMENTS: Only a trace gold. ALTERATION: Actinolite
ALTERATION TYPE: Skarn Garnet

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Skarn TYPE: K04 **Epigenetic** 

Au skarn SHAPE: Irregular

102 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** 

Permian Cretaceous-Tertiary Undefined Group

**FORMATION** Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Marble

Actinolite Garnet Skarn

Quartz Diorite Limestone Quartzite Schist Granodiorite Quartz Monzonite

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Milbanke Strandflat Plutonic Rocks

TECTONIC BELT: Coast Crystalline TERRANE: Alexander METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian (?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist.

The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact metasomatism.

The India area contains sulfide-rich actinolite-garnet skarn along the margins of marble in contact with coarse hornblende diorite. Mineralization consists of massive pyrrhotite with minor chalcopyrite. Only trace gold occurs.

**BIBLIOGRAPHY** 

EMPR ASS RPT 5720, 12719, \*14171, 15759, 17503 EMPR EXPL 1975-174; 1976-162; 1984-372; 1985-C367

EMPR PF (Trader Resource Corp., Statement of Material Facts, Jan.13,

1986)

EMR MP CORPFILE (Trader Resource Corp.)

GSC MAP 23-1970 GSC P 70-41 GCNL #14, 1986

DATE CODED: 1986/08/07 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 035

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5913630

**EASTING: 424478** 

REPORT: RGEN0100

333

NAME(S): **ISLAND**, YELLOW GIANT

STATUS: Showing REGIONS: British Columbia

GIONS: British Columbia
MAP: 103G08E
UTM ZONE: 09 (NAD 83)

NTS MAP: 103G08E BC MAP: LATITUDE: 53 21 59 N

LONGITUDE: 130 08 06 W ELEVATION: 30 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 49 (Assessment Report 14171), West central Banks

Island.

COMMODITIES: Gold Zinc Copper

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Bornite

ASSOCIATED: Graphite Manganite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Podiform
CLASSIFICATION: Skarn Replacement
TYPE: K04 Au skarn

TYPE: K04 Au skarn K01 Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE
Permian GROUP FORMATION Unnamed/Unknown Formation GROUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Argillite

Skarn

Hornblende Diorite

Quartz
Schist
Limy Argillite
Granodiorite
Quartz Monzonite
Quartz Diorite

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat TERRANE: Alexander Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1985

SAMPLE TYPE: Chip

 COMMODITY
 GRADE

 Gold
 2.0600
 Grams per tonne

 Copper
 1.7300
 Per cent

 Zinc
 0.3700
 Per cent

COMMENTS: The sample width is 1.2 metres. REFERENCE: Assessment Report 14171.

CAPSULE GEOLOGY

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian (?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist. The metasedimentary rocks generally exhibit a wide range of

"granitization" effects and contact metasomatism.

The Island showing consists of pyrrhotite-chalcopyrite lenses in skarn and limy argillite adjacent to hornblende diorite. A 1.2 metre sample assayed 2.06 grams per tonne gold, 0.37 per cent zinc and 1.73 per cent copper (Assessment Report 14171).

BIBLIOGRAPHY

EMPR ASS RPT 12719, \*14171, 15759, 17503

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR EXPL 1984-372; 1985-C367 EMPR PF (Trader Resource Corp., Statement of Material Facts, Jan.13, 1986)

EMR MP CORPFILE (Trader Resource Corp.) GSC MAP 23-1970 GSC P 70-41 GCNL #14, 1986

DATE CODED: 1986/08/08 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 035

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 036

NATIONAL MINERAL INVENTORY:

NAME(S): CRACK, YELLOW GIANT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G08E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

335

LATITUDE: 53 21 34 N

NORTHING: 5912877 EASTING: 423264

LONGITUDE: 130 09 11 W ELEVATION: 20 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Diamond-Drill Hole 6-76, Figure 81 (Assessment Report 14171), West

central Banks Island.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Magmatic TYPE: I02 In

Intrusion-related Au pyrrhotite veins

SHAPE: Tabular

STRIKE/DIP: 155/75E Metres

DIMENSION: 0080 x 0006 COMMENTS: Mineralized felsic sills.

**GROUP** 

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian Cretaceous-Tertiary

Undefined Group

**FORMATION** Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

Coast Plutonic Complex

LITHOLOGY: Marble

Hornfels Granodiorite Siltstone Quartzite Limestone Schist Granodiorite

Quartz Monzonite Hornblende Tremolite Hornfels

HOSTROCK COMMENTS: Also includes quartz diorite. Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat Plutonic Rocks

TERRANE: Alexander METAMORPHIC TYPE: Contact

RELATIONSHIP: GRADE: Hornfels Regional

Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1985

SAMPLE TYPE: Drill Core **COMMODITY** 

0.9000 Grams per tonne

COMMENTS: The sample width is 6.1 metres.

Gold

REFERENCE: Assessment Report 14171.

**CAPSULE GEOLOGY** 

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian (?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist. The metasedimentary rocks generally exhibit a wide range of

"granitization" effects and contact metasomatism.

Stratabound pyritic quartz felsite sills are folded along with enclosing metasediments, which consist of marble and siltstone. The sills are a mixture of several plutonic types and at least one metasedimentary hornfels. Granodiorite is most common with quartz

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

diorite, quartz monzonite, and hornblende-tremolite hornfels. Cataclastic textures and quartz granulations are common.

A drill hole intersected 0.9 grams per tonne gold over 6.1

metres (Assessment Report 14171).

**BIBLIOGRAPHY** 

EMPR ASS RPT 5395, 5720, 12719, \*14171, 15759, 17503 EMPR EXPL 1975-174; 1976-162; 1984-372; 1985-C367 EMPR PF (Trader Resource Corp., Statement of Material Facts, Jan.13, 1986) EMR MP CORPFILE (Trader Resource Corp.) GSC MAP 23-1970 GSC P 70-41 GCNL #13,#14, 1986 N MINER Jan.27, 1986

DATE CODED: 1986/08/11 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 036

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 037

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

337

NAME(S): CROSSBREAK, YELLOW GIANT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G08E BC MAP:

LATITUDE: 53 22 09 N NORTHING: 5913975 EASTING: 422265

LONGITUDE: 130 10 06 W ELEVATION: 30 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 82 (Assessment Report 14171), West central Banks

COMMODITIES: Gold Silver 7inc Lead

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite Sphalerite Galena

ASSOCIATED: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Replacement

102 TYPE: K04 Au skarn Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Permian **Undefined Group** Unnamed/Unknown Formation

LITHOLOGY: Quartzite

Marble Granodiorite Quartz Monzonite Quartz Diorite Limestone Quartzite Schist

Biotite Feldspar Hornfels

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat TERRANE: Alexander Plutonic Rocks

METAMORPHIC TYPE: Contact Regional RELATIONSHIP: GRADE: Hornfels

Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core YEAR: 1985 Assay/analysis

**COMMODITY GRADE** 

Silver 17.8300 Grams per tonne Gold 3.7700 Grams per tonne

COMMENTS: The sample width is 2.3 metres. REFERENCE: Assessment Report 14171.

**CAPSULE GEOLOGY** 

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian (?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist. The metasedimentary rocks generally exhibit a wide range of

"granitization" effects and contact metasomatism.

The Crossbreak Zone occurs near the intersection of the east-northeast trending Crossbreak fault and the northwest trending Bank-Barge Lineament. Argillaceous quartzite, marble, and siltstone with graphitic horizons strike northwest and are displaced left laterally south of the Crossbreak fault. The rocks are complexly folded.

Disseminated pyrite, arsenopyrite, and minor sphalerite and galena occur in a distinctive argillaceous quartzite unit within RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

a thick marble unit. The quartzite grades into biotite feldspar hornfels toward the fault. A 7 metre chip sample assayed 2.61 grams per tonne gold and a 2.3 metre drill intersection assayed 3.77 grams per tonne gold and 17.83 grams per tonne silver (Assessment Report 14171).

**BIBLIOGRAPHY** 

EMPR ASS RPT 5518, 12719, \*14171, 15759, 17503 EMPR EXPL 1975-174; 1976-162; 1984-372; 1985-C367 EMPR PF (Trader Resource Corp., Statement of Material Facts, Jan.13, 1986) EMR MP CORPFILE (Trader Resource Corp.) GSC MAP 23-1970 GSC P 70-41 GCNL #14, 1986

DATE CODED: 1986/08/08 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 037

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 038

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

339

NAME(S): WEST BANKS LAKE, YELLOW GIANT

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103G08E BC MAP:

LATITUDE: 53 22 49 N NORTHING: 5915206 LONGITUDE: 130 09 51 W EASTING: 422562

ELEVATION: 10 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description Page 32; Contact zone, Figure 6 (Assessment Report 14171).

West central Banks Island.

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite

COMMENTS: Auriferous pyrite.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 102 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

Permian **Undefined Group** Unnamed/Unknown Formation Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Marble

Argillite Quartz Diorite Quartz Monzonite Granodiorite Quartzite Schist

HOSTROCK COMMENTS: Permian (?) or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander METAMORPHIC TYPE: Regional Plutonic Rocks RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1985 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock COMMODITY Silver

75.4000 Grams per tonne

Gold 100.0000 Grams per tonne

REFERENCE: Assessment Report 14171.

CAPSULE GEOLOGY

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow, persistent Permian (?) or older metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist. The metasedimentary rocks generally exhibit a wide range of "granitization" effects and contact metasomatism.

Narrow gold bearing quartz veins occur near the contact area between metasediments consisting of argillites and marble and plutonics consisting of quartz diorite and quartz monzonite. Samples from a trench below water level in the lake assayed 100 grams per tonne gold and 75.4 grams per tonne silver (Assessment Report 14171).

**BIBLIOGRAPHY** 

EMPR ASS RPT 12719, \*14171, 1 EMPR EXPL 1984-372; 1985-C367 15759, 17503

EMPR PF (Trader Resource Corp., Statement of Material Facts, Jan.13,

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

1986)
EMR MP CORPFILE (Trader Resource Corp.)
GSC MAP 23-1970
GSC P 70-41
GCNL #14, 1986

DATE CODED: 1986/08/11 DATE REVISED: 1989/02/27

CODED BY: LDJ REVISED BY: LLD

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 039

NATIONAL MINERAL INVENTORY:

NAME(S): **SKARN** 

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G08E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

341

LATITUDE: 53 26 59 N

NORTHING: 5922767 EASTING: 433479

LONGITUDE: 130 00 06 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of skarn gabbro body, Figure 4/84 (Assessment Report 12346).

East central Banks Island.

COMMODITIES: Iron Titanium Vanadium Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite Ilmenite

COMMENTS: Minor anomalies in platinum, palladium, and gold. ASSOCIATED: Hornblende ALTERATION: Epidote Plagioclase Pyroxene Chlorite

ALTERATION TYPE: Propylitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered Disseminated Massive CLASSIFICATION: Magmatic TYPE: M05 A Hydrothermal Industrial Min.

Alaskan-type Pt±Os±Rh±Ir SHAPE: Regular

DIMENSION: 300 x 60 Metres STRIKE/DIP: 130/75E TREND/PLUNGE:

COMMENTS: Magnetite band.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Gabbro

Skarn Dioritic Gneiss Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: HIGH-GRADE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1984 Assay/analysis

**GRADE** 

COMMODITY 49.0000 Per cent Iron Per cent Titanium 7.0000 1.2000 Per cent

COMMENTS: The sample was taken from high grade material.

Vanadium REFERENCE: Assessment Report 12346.

**CAPSULE GEOLOGY** 

A gabbro complex of the Coast Plutonic Complex is in fault contact with gneissic diorite to the north, hornblende-biotite quartz diorite to the southwest, and a skarn-metasediment unit to the northeast. The gabbro body is up to 500 metres wide and 1000 metres long and is composed largely of hornblende, plagioclase and pyroxene.

The gabbro carries disseminations and bands of vanadium-rich titanomagnetite up to 60 metres wide and over 300 metres along

north trends with steep east dips. A sample of the higher grade material assayed 49 per cent iron, 7.0 per cent titanium and 1.2 per cent vanadium (Assessment Report 12346). Minor anomalies in plat-

inum, palladium and gold are also reported.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*12346, 13737, \*16100, 1745 EMPR EXPL 1984-372; 1985-C366; 1987-C354

EMPR OF \*1988-28, pp. 125,126

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC EC GEOL \*No. 27, pp. 57,116 GSC MAP 23-1970 GSC P 69-54, Table 1; 70-41, p. 27 GSC RPT OF ACTIVITIES 1970, p. 57

DATE CODED: 1986/08/12 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 039

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 040

NATIONAL MINERAL INVENTORY:

NAME(S): **KOOR** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G08E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 53 20 34 N

NORTHING: 5910916 EASTING: 430169

LONGITUDE: 130 02 56 W ELEVATION: 30 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Skarn, figure 1, Assessment Report 13958, Central Banks Island.

Silver

Pyrite

COMMODITIES: Copper

7inc

**MINERALS** 

SIGNIFICANT: Pyrite ALTERATION: Garnet ALTERATION TYPE: Skarn

Chalcopyrite Actinolite

**Bornite** 

Sphalerite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Skarn TYPE: K01

**Epigenetic** Cu skarn

K02 Pb-7n skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary

Unnamed/Unknown Formation Undefined Group

Coast Plutonic Complex

LITHOLOGY: Garnet Actinolite Skarn

Marble

Biotite Quartz Diorite Siltstone

Argillaceous Quartzite

Calc-silicate

HOSTROCK COMMENTS: Permian (?) or older metasediments.

Regional

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexandér METAMORPHIC TYPE: Contact

Plutonic Rocks RELATIONSHIP:

GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Rock

YEAR: 1983

COMMODITY

**GRADE** 

Silver

Grams per tonne 0.6000

Copper REFERENCE: Assessment Report 13958. 0.0350 Per cent

CAPSULE GEOLOGY

A northwest trending Permian (?) or older metasedimentary sequence of rocks are flanked by Tertiary-Cretaceous Coast Plutonic Complex. The metasediments, which consist of pyrite-rich argillaceous quartzite, massive marble, skarn, calc-silicate and siltstone, strike at least 1.5 kilometres and are up to 150 metres wide. They are in contact with biotite quartz monzonite to the east and horn-

blende quartz diorite to the west.

A 1.0 metre wide, rusty garnet-actinolite skarn occurs at the marble quartz diorite contact. It contains disseminated pyrite, chalcopyrite, bornite, and sphalerite. A rock sample assayed 0.035 per cent copper, trace lead, 0.003 per cent zinc, 0.6 grams per tonne silver and 0.005 grams per tonne gold (Assessent Report 13958).

**BIBLIOGRAPHY** 

EMPR ASS RPT 13958 EMPR EXPL 1985-366 GSC MAP 23-1970 GSC MEM 394

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 70-41

DATE CODED: 1987/12/30 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/02/27 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103G 040

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 041

NATIONAL MINERAL INVENTORY:

NAME(S): **KOOR-MOLY** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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NTS MAP: 103G08E BC MAP:

NORTHING: 5910586 EASTING: 431551

LATITUDE: 53 20 24 N LONGITUDE: 130 01 41 W ELEVATION: 35 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineral showing, figure 1, Assessment Report 13958, Central Banks

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Porphyry Hydrothe TYPE: L05 Porphyry Mo (Low F- type)

Hydrothermal **Epigenetic** 

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Cretaceous-Tertiary **FORMATION** IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex

LITHOLOGY: Biotite Quartz Monzonite

Siltstone Calc-silicate Marble

Argillaceous Quartzite Hornblende Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Plutonic Řocks Alexander

**CAPSULE GEOLOGY** 

A northwest trending metasedimentary sequence of rocks are flanked by Tertiary-Cretaceous Coast Plutonic Complex. The metasediments, which consist of pyrite-rich argillaceous quartzite, massive marble, skarn, calc-silicate and siltstone, strike at least 1.5 kilometres and are up to 150 metres wide. They are in contact with biotite quartz monzonite to the east and hornblende quartz diorite to the west.

Several molybdenite bearing quartz veins, up to 5.0 centimetres

wide, occur within the quartz monzonite unit.

**BIBLIOGRAPHY** 

EMPR ASS RPT 13958 EMPR EXPL 1985-366 GSC MAP 23-1970 GSC MEM 394 GSC P 70-41

DATE CODED: 1987/12/30 DATE REVISED: 1989/02/27 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 042

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5901510

EASTING: 428733

REPORT: RGEN0100

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NAME(S): BANKS ISLAND GARNET

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103G08E 103G01E BC MAP: LATITUDE: 53 15 29 N

LONGITUDE: 130 04 06 W ELEVATION: 75 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located on the west coast of Banks Island, southeast of Grief Point

(Area 4, Figure 10, Open File 1988-26).

COMMODITIES: Garnet

**MINERALS** 

SIGNIFICANT: Garnet

ASSOCIATED: Biotite Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered Stratabound

CLASSIFICATION: Metamorphic Syngen
TYPE: P02 Kyanite-sillimanite schists Industrial Min. Syngenetic

SHAPE: Tabular MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Permian IGNEOUS/METAMORPHIC/OTHER **FORMATION** Unnamed/Unknown Informal

LITHOLOGY: Garnet Biotite Quartz Schist

**Garnet Schist** 

Crystal Limestone

HOSTROCK COMMENTS: Permian (?) and/or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Regional Alexander

RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

On the west coast of Banks Island, south of Grief Point, garnet occurs in Permian (?) and/or older metasediments which are comprised mainly of laminated micaceous quartzite, crystalline limestone, skarn and schist. The garnet-biotite-quartz schists host garnets which range up to 2.5 centimetres in length and are strongly flattened parallel to the schistosity (Geological Survey of Canada Paper

70-41).

**BIBLIOGRAPHY** 

EMPR OF \*1988-26, p. 15 GSC MAP 23-1970 GSC P \*70-41

DATE CODED: 1988/03/30 DATE REVISED: 1989/02/01 CODED BY: JP REVISED BY: LLD FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 043

NATIONAL MINERAL INVENTORY:

NAME(S): **BOUTWELL**, ISLA 2, ISLA MIST

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103G08E BC MAP:

LATITUDE: 53 22 29 N LONGITUDE: 130 05 05 W ELEVATION: 335 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located west of Foul Bay on Banks Island. Mineralized location in

Figure 5 (Christopher, P.A., 1988).

COMMODITIES: Silver Copper Molybdenum Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz

Molybdenite Magnetite

Pyrite

Limonite

ALTERATION: Sericite
ALTERATION TYPE: Silicific'n Chlorite Silica Oxidation Propylitic

MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Vein

CLASSIFICATION: Hydrothermal

**Epigenetic** 

105 TYPE: L05 Porphyry Mo (Low F- type) Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5914505 **EASTING: 427837** 

REPORT: RGEN0100

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Coast Plutonic Complex

LITHOLOGY: Quartz Monzonite

Biotite Quartz Monzonite

Granodiorite Quartz Vein

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexandér

METAMORPHIC TYPE: Regional

Plutonic Rocks

RELATIONSHIP: Syn-mineralization

REPORT ON: N

Per cent

Per cent

PHYSIOGRAPHIC AREA: Teslin Plateau

Post-mineralization

GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

YEAR: 1987

SAMPLE TYPE: Chip

Assay/analysis

**GRADE** 40.4000 0.0800

Grams per tonne Grams per tonne

Copper Molybdenum

CATEGORY:

COMMODITY Silver

Gold

1.6000 0.0360

COMMENTS: 1.2 metre chip sample PC 87-1, assay is for MoS2. REFERENCE: Property File: Christopher, P.A., 1988.

CAPSULE GEOLOGY

Banks Island is situated near the western margin of the Coast Plutonic Complex. The island is underlain by Tertiary to Cretaceous granitic rocks that vary in composition from gabbro to quartz mon-The granitic rocks host roof pendants of Permian (?) or older zonite. metasediments consisting of crystaline limestone/marble, pelites and skarn.

The Isla Mist property is underlain by granodiorite and quartz monzonite phases of the Coast Plutonic Complex. Locally, the biotite quartz monzonite or granodiorite is fine-grained, light colored and hosts abundant quartz veins infilling a strong fracture pattern. light-colored dykes, characterized by muscovite, quartz and white feldspars, cut the fine quartz monzonite unit.

Major fault directions on the property are 295 degrees and 045 to 050 degrees, with extensive fracturing controlling sheeted and stockwork veining.

Three mineralized areas are known to occur on the property and all are hosted by the fine quartz monzonite unit. The unit has

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

associated silica-sericite alteration with stockwork and sheeted veining. Majority of the veins strike between 110 degrees and 140 degrees but the strong "Boutwell Vein" subparallels a 090 degree structural trend.

Veins vary from 1 to 2 centimetres to over 1 metre and several generations of veins are present. Early veins are barren and later veins host chalcopyrite, pyrite and molybdenite with local scheelite concentrations (refer to Tungsten 103G 044 and Isla Mist 103G 045).

Mineralization in the Boutwell vein was exposed in 1985. Chalcopyrite is concentrated near the centre of the quartz vein with molybdenite occurring mainly on slickensided vein margins. Magnetite and pyrite are present and account for the oxidation and abundant limonite staining.

In 1987, a chip sample across 1.2 metres of the Boutwell vein assayed 0.037 per cent molybdenum, 1.6 per cent copper, 0.11 per cent zinc, 40.4 grams per tonne silver and 0.08 grams per tonne gold (Property File: Christopher, P.A., 1988).

### **BIBLIOGRAPHY**

EMPR ASS RPT 14297, \*14706
EMPR EXPL 1985-C366; 1986-C422
EMPR PF (Christopher, P.A., (1988): \*Report on the Isla Mist
Property, Banks Island, British Columbia, for Claw Resources Ltd.,
Prospectus dated May 10, 1988)
GSC MAP 23-1970
GSC P 70-41
GCNL #72, 1987; #50, 1989

DATE CODED: 1989/02/28 DATE REVISED: / /

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 044

NATIONAL MINERAL INVENTORY:

NAME(S): TUNGSTEN, ISLA 3, ISLA MIST

STATUS: Showing REGIONS: British Columbia NTS MAP: 103G08E BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

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LATITUDE: 53 23 07 N LONGITUDE: 130 06 15 W ELEVATION: 155 Metres NORTHING: 5915699 EASTING: 426562

LOCATION ACCURACY:

COMMENTS: Located west of Foul Bay on Banks Island. Mineralized location in Figure 6 (Property File: Christopher, P.A., 1988).

COMMODITIES: Tungsten

Silver

**MINERALS** 

**DEPOSIT** 

SIGNIFICANT: Scheelite

Pyrite Sphalerite

7inc

ASSOCIATED: Quartz ALTERATION: Sericite
ALTERATION TYPE: Silicific'n

Chlorite Feldspar Propylitic '

Potassic

MINERALIZATION AGE: Unknown

CHARACTER: Vein CLASSIFICATION: Hydrothermal

Stockwork **Epigenetic** 

TYPE: I12 W veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary

GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Quartz Monzonite

Biotite Quartz Monzonite

Granodiorite Quartz Vein

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexandér

Plutonic Rocks

PHYSIOGRAPHIC AREA: Teslin Plateau

METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization Post-mineralization GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY:

Assay/analysis

YEAR: 1987

SAMPLE TYPE: Chip

COMMODITY Silver

**GRADE** 1.9000

Grams per tonne

Tungsten

0.0389

Per cent

Zinc

0.0834 Per cent

COMMENTS: Sample R87-19, 1.0 metre chip sample from centre of vein.

REFERENCE: Property File: Christopher, P.A., 1988.

**CAPSULE GEOLOGY** 

Banks Island is situated near the western margin of the Coast Plutonic Complex. The island is underlain by Tertiary to Cretaceous granitic rocks that vary in composition from gabbro to quartz mon-zonite. The granitic rocks host roof pendants of Permian (?) or older metasediments consisting of crystalline limestone/marble, pelites and skarn.

The Isla Mist property is underlain by granodiorite and quartz monzonite phases of the Coast Plutonic Complex. Locally, the biotite quartz monzonite or granodiorite is fine-grained, light colored and hosts abundant quartz veins infilling a strong fracture pattern. Many

light-colored dykes, characterized by muscovite, quartz and white feldspars, cut the fine quartz monzonite unit.

Major fault directions on the property are 295 degrees and 045 to 050 degrees, with extensive fracturing controlling sheeted and stock-

work veining.

Three mineralized areas are known to occur on the property and all are hosted by the fine quartz monzonite unit. The unit has associated silica-sericite alteration with stockwork and sheeted

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

veining. Majority of the veins strike between 110 degrees and 140 degrees.

The Tungsten vein consists of scheelite bearing quartz stringers and stockwork mineralization. In 1985 a trench exposed this mineralized zone which ranges up to 4.0 metres in width, strikes about 120 degrees and is traceable for approximately 55 metres. Mineralization consists of pyrite and rare blebs of dark brown sphalerite and scheelite. Silicification, sericite, chlorite and pink feldspar alteration occur within the mineralized stringers.

In 1987, a 1.0 metre chip sample collected from the centre of the vein assayed 1.9 grams per tonne silver, 0.083 per cent zinc and 0.039 per cent tungsten (Property File: Christopher, P.A., 1988).

### **BIBLIOGRAPHY**

EMPR ASS RPT 14297, \*14706

EMPR EXPL 1985-C366; 1986-C442

EMPR OF 1991-17

EMPR PF (Christopher, P.A., (1988): \*Report on the Isla Mist

Property, Banks Island, British Columbia, for Claw Resources Ltd.,

Prospectus dated May 10, 1988)

GSC MAP 23-1970

GSC P 70-41

GCNL #72, 1987; #50, 1989

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 045

NATIONAL MINERAL INVENTORY:

NAME(S): ISLA MIST, PETE'S, ISLA

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G08E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 53 22 43 N LONGITUDE: 130 05 20 W ELEVATION: 290 Metres

NORTHING: 5914942 EASTING: 427566

LOCATION ACCURACY: Within 500M

COMMENTS: Located west of Foul Bay on Banks Island. Mineralized location in Figure 7 (Property File: Christopher, P.A., 1988).

COMMODITIES: Silver Copper Molybdenum Tungsten Gold

**MINERALS** 

SIGNIFICANT: Molybdenite Scheelite Chalcopyrite Pyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: L05 Porph nermal Epigenetic Porphyry Mo (Low F- type)

105 Polymetallic veins Ag-Pb-Zn±Au 112 W veins IN2 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Coast Plutonic Complex

LITHOLOGY: Quartz Monzonite

Biotite Quartz Monzonite

Granodiorite Quartz Vein

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Teslin Plateau

Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist

Post-mineralization

INVENTORY

ORE ZONE: PETE'S VEIN REPORT ON: N

> CATEGORY: YFAR: 1987 Assay/analysis

SAMPLE TYPE: Grab COMMODITY Silver **GRADE** 

40.5000 0.0880 Grams per tonne Gold Grams per tonne 0.7100 Per cent Copper Per cent Molybdenum 0.0134 Per cent Tungsten 0.0096

COMMENTS: Grab sample P87-36 from Pete's vein. REFERENCE: Property File: Christopher, P.A., 1988.

CAPSULE GEOLOGY

Banks Island is situated near the western margin of the Coast Plutonic Complex. The island is underlain by Tertiary to Cretaceous granitic rocks that vary in composition from gabbro to quartz monconite. The granitic rocks host roof pendants of Permian (?) or older metasediments consisting of crystalline limestone/marble, pelites and skarn.

The Isla Mist property is underlain by granodiorite and quartz monzonite phases of the Coast Plutonic Complex. Locally, the biotite quartz monzonite or granodiorite is fine-grained, light colored and hosts abundant quartz veins infilling a strong fracture pattern. light-colored dykes, characterized by muscovite, quartz and white feldspars, cut the fine quartz monzonite unit.

Major fault directions on the property are 295 degrees and 045 to 050 degrees, with extensive fracturing controlling sheeted and stockwork veining.

Three mineralized areas are known to occur on the property and all are hosted by the fine quartz monzonite unit. The unit has

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

associated silica-sericite alteration with stockwork and sheeted veining. Majority of the veins strike between 110 degrees and 140 degrees.

The Pete's vein mineralization consists of quartz stringers and veins which host minor chalcopyrite, pyrite, molybdenite and scheelite. The main zone vein averaged about 1.0 metres width. 1987, a sample from this zone assayed 0.088 grams per tone gold, 40.5 grams per tonne silver, 0.71 per cent copper, 0.0134 per cent molybdenum and 0.0096 per cent tungsten (Property File: Christopher, P.A., 1988).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 14297, \*14706 EMPR EXPL 1985-C366; \*1986-C422 EMPR OF 1991-17 EMPR OF 1991-17
EMPR PF (Christopher, P.A., (1988): \*Report on the Isla Mist
 Property, Banks Island, British Columbia, for Claw Resources Ltd.,
 Prospectus dated May 10, 1988)
GSC MAP 23-1970
GSC P 70-41
GCNL #72, 1987; #50, 1989

DATE CODED: 1989/02/28 DATE REVISED: 1989/02/28 CODED BY: LLD REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 046

NATIONAL MINERAL INVENTORY:

NAME(S): **COLBY BAY LIMESTONE**, BANKS ISLAND

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103G09W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 53 34 26 N LONGITUDE: 130 15 39 W ELEVATION: 1 Metres

NORTHING: 5936853 EASTING: 416513

TREND/PLUNGE:

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location on northeast shore of Banks Island, 8.0 kilometres northwest of Colby Bay (Canmet Report 811, page 173).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite

Silica

ASSOCIATED: Dolomite MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Stratiform

Massive

CLASSIFICATION: Sedimentary DIMENSION:

Industrial Min. STRIKE/DIP: 120/ Evaporite

COMMENTS: Limestone strikes 120 degrees, dips steeply southwest.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Unknown Coast Plutonic Complex

LITHOLOGY: Limestone

Chert Siltstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander METAMORPHIC TYPE: Contact **RELATIONSHIP:** GRADE:

**CAPSULE GEOLOGY** 

A band of white intermixed high calcium limestone and dolomite at least 270 metres wide outcrops on the northeast shore of Banks Island, 8 kilometres northwest of Colby Bay, and continues inland for some distance. The band and associated chert and siltstone lie in an 8 kilometre long, northwest trending metasedimentary wedge enclosed in diorite of the Coast Plutonic Complex. The limestone bed strikes 120 degrees and dips steeply southwest. The rock is relatively free of dykes. Much of the dolomite was found to be siliceous.

Various other occurrences of white and rose coloured limestone, sometimes containing wavy lenses of diorite, are reported in this wedge of metasediments.

**BIBLIOGRAPHY** 

EM ASS RPT 23873, 25494 GSC MAP 23-70; 278A

GSC P 70-41, p. 22

CANMET RPT 811, Part 5, p. 173

DATE CODED: 1989/07/28 CODED BY: PSF REVISED BY: FIELD CHECK: N DATE REVISED: / / FIELD CHECK:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 047

NATIONAL MINERAL INVENTORY:

NAME(S): SKIDEGATE LAKE SOUTH

STATUS: Showing REGIONS: Queen Charlotte Islands

NTS MAP: 103G04W BC MAP:

LATITUDE: 53 04 45 N

LONGITUDE: 131 55 05 W ELEVATION: 280 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location based on centre of limestone outcrop 1.5 kilometres south of Skidegate Lake, 3 kilometres north of Dawson Cove on Cumshewa Inlet

(Geological Survey of Canada Map 3-1990).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite MINERALIZATION AGE: Upper Triassic

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Sedimentary
TYPE: R09 Limestone DIMENSION: 2000 x 1000

Concordant Syngenetic

Metres

Industrial Min.

STRIKE/DIP:

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5885058 EASTING: 304550

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**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

Upper Triassic Kunga DATING METHOD: Fossil Kunga

MATERIAL DATED: Various Fossils

LITHOLOGY: Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

INVENTORY

ORE ZONE: SHOWING

REPORT ON: N

Per cent

YEAR: 1982

Assay/analysis CATEGORY: SAMPLE TYPE: Unknown

GRADE

COMMODITY Limestone

COMMENTS: Assay is for CaO.

REFERENCE: Paulsen, 1982, page 3-1.

**CAPSULE GEOLOGY** 

The lower two members of the Kunga Group, consisting of the Upper Triassic Sadler and Peril formations, represent the main limestone resource of the Queen Charlotte Islands, particularly the basal massive grey limestone comprising the Sadler Formation. Its thickness varies from less than 30 metres to more than 200 metres.

54.1700

**FORMATION** 

Sadler

The Kunga Group, consisting of the limestone members and an overlying argillite member, rests conformably on the Karmutsen Formation, and may be overlain conformably by the Jurassic Maude

Group or disconformably by the Middle Jurassic Yakoun Group.

Limestone of the Sadler Formation outcrops over an elongate northwest trending steeply-sided hill 200 metres high. The limestone is exposed discontinuously over a length of two kilometres and width of up to one kilometre. A sample assayed 54.17 per cent CaO, 1.79 per cent MgO, 1.16 per cent SiO2 and 42.4 per cent loss on ignition (Paulsen 1982 page 2-1)

(Paulsen, 1982, page 3-1).
Consolidated Cinola Mines Ltd. briefly evaluated this occurrence as a source of neutralizing medium for its Specogna epithermal gold prospect (103F 034).

BIBLIOGRAPHY

EMPR BULL 54, pp. 50, 175 EMPR OF 1992-18, pp. 43-45 EMPR PF (\*Paulsen, L. (1982): Limestone Study - Preliminary Evaluation - Queen Charlotte Joint Venture; in 103F General)

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 1385A; 3-1990 GSC P 86-20; 88-1E; 89-1H, pp. 7-11; 90-10, pp. 163-172

DATE CODED: 1999/10/31 DATE REVISED: / / CODED BY: PSF REVISED BY: FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103G 047

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 048

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5887657 EASTING: 303781

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

356

NAME(S): SKIDEGATE LAKE NORTH

STATUS: Showing REGIONS: Queen Charlotte Islands

NTS MAP: 103G04W BC MAP:

LATITUDE: 53 06 08 N LONGITUDE: 131 55 52 W ELEVATION: 50 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on limestone outcrop on north side of Skidegate Lake, four kilometres west of the east end of the lake (Geological

Survey of Canada Map 3-1990).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite

MINERALIZATION AGE: Upper Triassic

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Sedimentary
TYPE: R09 Limestone

DIMENSION: 900 x 500

Concordant Syngenetic

STRIKE/DIP: Metres

**FORMATION** 

Sadler

Industrial Min.

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE
Upper Triassic
Kunga

Upper Triassic Kunga DATING METHOD: Fossil

MATERIAL DATED: Various fossils

LITHOLOGY: Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Wrangell

PHYSIOGRAPHIC AREA: Queen Charlotte Ranges

CAPSULE GEOLOGY

The lower two members of the Kunga Group, consisting of the Upper Triassic Sadler and Peril formations, represent the main limestone resource of the Queen Charlotte Islands, particularly the basal massive grey limestone comprising the Sadler Formation. thickness varies from less than 30 metres to more than 200 metres.

The Kunga Group, consisting of the limestone members and an

overlying argillite member, rests conformably on the Karmutsen Formation, and may be overlain conformably by the Jurassic Maude Group or disconformably by the Middle Jurassic Yakoun Group.

Limestone of the Sadler Formation outcrops over a broad peninsula extending from the north side of Skidegate Lake, 4 kilometres west of the east end of the lake. The limestone is exposed discontinuously over a length of 0.9 kilometre and width of up to 0.5 kilometre. The quality of the limestone is reported to be high and to be of similar character as the limestone comprising Skidegate Lake South (103G 047) on the south side of the lake

(Paulsen, 1982, page 3-3).

Consolidated Cinola Mines Ltd. briefly evaluated this occurrence as a source of neutralizing medium for its Specogna epithermal gold prospect (103F 034).

BIBLIOGRAPHY

EMPR BULL 54, pp. 50, 175

EMPR OF 1992-18, pp. 43-45 EMPR PF (\*Paulsen, L. (1982): Limestone Study - Preliminary Evaluation

- Queen Charlotte Joint Venture; in 103F General)

GSC MAP 1385A; 3-1990

GSC P 86-20; 88-1E; 89-1H, pp. 7-11; 90-10, pp. 163-172

DATE CODED: 1999/10/31 DATE REVISED:

CODED BY: PSF REVISED BY:

FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 001

NATIONAL MINERAL INVENTORY:

NAME(S): WEEWANIE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103H10W BC MAP:

NORTHING: 5949361 **EASTING: 513738** 

PAGE:

REPORT: RGEN0100

357

LATITUDE: 53 41 34 N
LONGITUDE: 128 47 31 W
ELEVATION: 30 Metres
LOCATION ACCURACY: Within 500M COMMENTS: Mineral Inventory Map.

COMMODITIES: Hotspring

**MINERALS** 

SIGNIFICANT: Salts MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Hydrothermal TYPE: T02 Geothe Industrial Min.

Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

<u>GRO</u>UP STRATIGRAPHIC AGE

**FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

Paleozoic Paleozoic-Mesozoic **Undefined Group** Coast Plutonic Complex

LITHOLOGY: Biotite Gneiss

Granodiorite

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline
TERRANE: Undivided Metamorphic Assembl. Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by a northwest trending belt of biotite and banded gneiss along the southwest flank of the Foch Antiform, the core of which is granodiorite of the Coast Plutonic Complex.

The hotspring issues at 60 litres per minute and 47.5 degrees

Celsius.

**BIBLIOGRAPHY** 

GSC MAP 23-1970; 1385A

GSC P 70-41

GSC SUM RPT 1921A, Fig. 6
McDonald, J., (1978): \*Hotsprings of Western Canada, A Complete

Guide; Labrador Tea Company, Vancouver, pp. 114,115

CODED BY: LDJ REVISED BY: JNR DATE CODED: 1986/08/28 DATE REVISED: 1988/12/30 FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 002

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

**EASTING: 542436** 

REPORT: RGEN0100

358

NAME(S): **BRIM RIVER** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H09W BC MAP: UTM ZONE: 09 (NAD 83) LATITUDE: 53 30 59 N NORTHING: 5929908

LONGITUDE: 128 21 36 W ELEVATION: 50 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol - Geological Survey of Canada, Map 23-1970.

COMMODITIES: Hotspring

**MINERALS** 

SIGNIFICANT: Salts COMMENTS: Sodium sulphate. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown

CLASSIFICATION: Hydrothermal Industrial Min.

TYPE: TÓ2 Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER
Coast Plutonic Complex STRATIGRAPHIC AGE GROUP
Paleozoic-Mesozoic FORMATION

LITHOLOGY: Hornblende Biotite Quartz Diorite

Hornblende Biotite Granodiorite

HOSTROCK COMMENTS: Owyacumish Creek Pluton. Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Kitimat Ranges

CAPSULE GEOLOGY

The area is underlain by hornblende biotite quartz diorite of the Owyacumish Creek pluton, gradational to the east with hornblende

biotite granodiorite.

The hotspring issues from near the contact between the quartz diorite and granodiorite. It is about 38 degrees Celcius and contains the following constituents, in parts per million: C1-52, Na-43, SO4-78, Mg-12, Ca-17, HCO3-40, SiO2-35.5. Total dissolved solids are 281 parts per million.

**BIBLIOGRAPHY** 

EMPR AR 1929-76
GSC MAP \*23-1970; 1385A
GSC P 70-41, pp. 54,55; 73-18, pp. 231,233
GSC SUM RPT 1921A, pp. 41,48,49,Fig. 6
CANMET RPT 669, pp. 26-28
McDonald, J., (1978): \*Hotsprings of Western Canada, A Complete

Guide; Labrador Tea Company, Vancouver, pp. 118,119

DATE CODED: 1986/08/28 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 003

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5922394

EASTING: 529774

REPORT: RGEN0100

359

NAME(S): GARDNER CANAL, SHEARWATER POINT

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H07E BC MAP: LATITUDE: 53 26 59 N

LONGITUDE: 128 33 06 W ELEVATION: 3 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol - Geological Survey of Canada, Map 23-1970.

COMMODITIES: Hotspring

**MINERALS** 

SIGNIFICANT: Salts COMMENTS: Sodium sulphate. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown

CLASSIFICATION: Hydrothermal Industrial Min.

TYPE: TÓ2 Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Undivided Metamorphic Assembl. PHYSIOGRAPHIC AREA: Kitimat Ranges

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The hotspring issues at 484 litres per minute from a crevice about 5 centimetres wide and several metres long in Paleozoic chloritic schist. It is well over 45 degrees Celsius and consists of the following, in parts per million: Cl-60, Na-259, SO4-546, Mg-5, Ca-67, K-29, HCO3-167, SiO2-90. Total dissolved solids are 1228

parts per million.

**BIBLIOGRAPHY** 

EMPR AR 1929-76 GSC MAP \*23-1970; 1385A

GSC P 70-41, pp. 54,55; 73-18, pp. 231,232 GSC SUM RPT 1921A, pp. 41,46,47,Fig. 6 CANMET RPT 669, pp. 26-28 McDonald, J., (1978): \*Hotsprings of Western Canada, A Complete

Guide; Labrador Tea Company, Vancouver, pp. 116,117

DATE CODED: 1986/08/28 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 004 NATIONAL MINERAL INVENTORY: 103H13 Fe1

NAME(S): KUMEALON

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 51 39 N NORTHING: 5968478 LONGITUDE: 129 58 26 W ELEVATION: 5 Metres EASTING: 435950

LOCATION ACCURACY: Within 500M

COMMENTS: Located on Kumealon Inlet at the north end of Grenville Channel.

COMMODITIES: Iron Sillimanite Magnetite

**MINERALS** 

SIGNIFICANT: Ilmenite Sillimanite Pyrite Marcasite Magnetite

Corundum Emery ASSOCIATED: Hornblende Cordierite Orthopyroxene

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Metamorphic TYPE: R09 Limes

Industrial Min. Limestone

DIMENSION: 0500 STRIKE/DIP: 120/60 TREND/PLUNGE: Metres COMMENTS: Limestone band width.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

STRATIGRAPHIC AGE Paleozoic Unnamed/Unknown Formation **Undefined Group** 

LITHOLOGY: Limestone

Hornblende Schist Sillimanite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexandér METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

CAPSULE GEOLOGY

A 500 metre wide blue and white limestone band, striking 120 degrees and dipping about 60 degrees southwest, lies conformable with hornblende and sillimanite schist. The schists are mineralized in places with disseminated marcasite and pyrite and narrow bands of

sillimanite and ilmenite.

Within the schists are narrow-banded streaks of very hard, greyish-black minerals resembling emery (magnetite and corundum). Analysis of the rock gave 30 per cent silica, 35 per cent magnetic iron oxide, 30 per cent alumina, and 1.2 per cent lime (Annual Report 1929). A qualitative analysis of the rock showed sillimanite and

ilmenite.

**BIBLIOGRAPHY** 

EMPR AR \*1912-99; 1917-43; \*1929-74-75; 1930-68-69

EMPR OF 1988-28 p.136 GSC EC GEOL Series #3, Vol. 1, p. 26

GSC MAP 23-1970; 1385A, 1868A

DATE CODED: 1986/08/01 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1989/08/02 FIELD CHECK: N

MINFILE NUMBER: 103H 004

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 005

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5925094

EASTING: 510951

REPORT: RGEN0100

361

NAME(S): **BISHOP BAY** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H07W BC MAP:

LATITUDE: 53 28 29 N LONGITUDE: 128 50 06 W ELEVATION: 3 Metres

LOCATION ACCURACY: Within 500M COMMENTS:

COMMODITIES: Hotspring

**MINERALS** 

SIGNIFICANT: Salts COMMENTS: Sodium sulphate. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown

CLASSIFICATION: Hydrothermal Industrial Min.

TYPE: TÓ2 Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Upper Cretaceous GROUP IGNEOUS/METAMORPHIC/OTHER Butedale Pluton **FORMATION** 

LITHOLOGY: Granodiorite

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

The hot spring issues at 60 litres per minute from a crevice in granodiorite of the Late Cretaceous Butedale Pluton. It is over 45 degrees Celsius and consists of the following, in parts per million: Cl-32, Na-92, SO4-179, Ca-18, HCO3-4, CO3-7, SiO2-62.

Total dissolved solids are 402 parts per million.

**BIBLIOGRAPHY** 

EMPR AR 1929-76

GSC MAP 23-1970; 1385A

GSC P 70-41, pp. 54,55; 73-18, pp. 231,232 GSC SUM RPT 1921A, pp. 41,45,46,Fig. 6

CANMET RPT 669, pp. 26-28
McDonald, J.,(1978): \*Hotsprings of Western Canada, A Complete
Guide; Labrador Tea Company, Vancouver, pp. 120,121

DATE CODED: 1986/08/28 DATE REVISED: 1989/08/10 FIELD CHECK: N CODED BY: LDJ REVISED BY: LDJ

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 006

NATIONAL MINERAL INVENTORY:

NAME(S): **URSULA CHANNEL**, GOAT HARBOUR

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H07W BC MAP: LATITUDE: 53 21 32 N

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

362

LONGITUDE: 128 53 04 W ELEVATION: 5 Metres

NORTHING: 5912201 EASTING: 507691

LOCATION ACCURACY: Within 1 KM

COMMENTS: Figure 6 - Geological Survey of Canada, Summary Report 1921A.

COMMODITIES: Hotspring

**MINERALS** 

SIGNIFICANT: Salts COMMENTS: Sodium sulphate.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown

CLASSIFICATION: Hydrothermal Industrial Min.

TYPE: TÖ2 Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER Butedale Pluton STRATIGRAPHIC AGE GROUP **FORMATION** 

Upper Cretaceous

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

The hot spring issues from a 2.5 centimetre wide crevice, 1.8 metres long in granodiorite of the Late Cretaceous Butedale Pluton. It is above 45 degrees Celsius and consists of the following, in part per million: C1-24, Na-81, SO4-174, Ca-22, HCO3-2, CO3-10, SiO3-59, FeO+Al2O3-23. Total dissolved solids are 395 parts per million.

**BIBLIOGRAPHY** 

EMPR AR 1929-76

GSC MAP 23-1970; 1385A

GSC P 70-41, pp. 54,55; 73-18, pp. 231,233 GSC SUM RPT \*1921A, pp. 41,44,45,Fig. 6

CANMET RPT 669, pp. 26-28
McDonald, J.,(1978): Hotsprings of Western Canada, A Complete Guide; Labrador Tea Company, Vancouver, p. 121

DATE CODED: 1986/08/28 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 007

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5899788

EASTING: 521019

REPORT: RGEN0100

363

NAME(S): KLEKANE INLET

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H02E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 14 49 N LONGITUDE: 128 41 06 W ELEVATION: 6 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol - Geological Survey of Canada, Map 23-1970.

COMMODITIES: Hotspring

**MINERALS** 

SIGNIFICANT: Salts COMMENTS: Sodium chloride. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown

CLASSIFICATION: Hydrothermal Industrial Min.

TYPE: TÓ2 Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER Butedale Pluton FORMATION

Upper Cretaceous

LITHOLOGY: Granodiorite

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

The hot spring issues at 264 litres per minute from a crevice in granodiorite of the Late Cretaceous Butedale Pluton. It is over 45 degrees Celsius and consists of the following, in parts per million: Cl-4600, Na-2523, SiO2-38, SO4-717, Mg-179, Ca-385, K-82, HCO3-58, FeO+Al2O3-58. Total dissolved solids are 8640 parts per million. Contamination of the meteoric water by sea water is likely.

**BIBLIOGRAPHY** 

EMPR AR 1929-76

EMPR OF 2002-03 GSC MAP \*23-1970; 1385A

GSC P 70-41, pp. 54,55; 73-18, pp. 231,233 GSC SUM RPT \*1921A, pp. 41,43,44,Fig. 6 CANMET RPT 669, pp. 26-28 McDonald, J.,(1978): Hotsprings of Western Canada, A Complete

Guide; Labrador Tea Company, Vancouver, p. 122,123

DATE CODED: 1986/08/28 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 008

NATIONAL MINERAL INVENTORY:

NAME(S): JIMMY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103H05W BC MAP:

PAGE:

REPORT: RGEN0100

364

LATITUDE: 53 18 49 N

NORTHING: 5907495 EASTING: 443352

LONGITUDE: 129 51 01 W ELEVATION: 55 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Skarn, Figure 5 (Assessment Report 14312).

COMMODITIES: Molybdenum

**MINERALS** 

Pyrite Pyrrhotite

SIGNIFICANT: Molybdenite COMMENTS: Minor tungsten.

ASSOCIATED: Garnet Actinolite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown

CLASSIFICATION: Skarn TYPE: K07 Replacement

Mo skarn K05 W skarn

SHAPE: Regular

DIMENSION: 0008 COMMENTS: Width of skarn. STRIKE/DIP: 160/75W Metres TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION GROUP** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

Paleozoic Undefined Group Unnamed/Unknown Formation Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Marble

Granodiorite Quartz Monzonite Meta Pelite Dioritic Sill Dioritic Dike

Hornblende Hornfels Biotite Hornfels

HOSTROCK COMMENTS: The Coast Plutonic Complex includes rocks as young as Tertiary.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TECTONIC BELT: Coast Crystalline
TERRANE: Alexander
METAMORPHIC TYPE: Contact R Plutonic Rocks RELATIONSHIP: Regional GRADE: Hornfels Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1985 CATEGORY: Assay/analysis

> SAMPLE TYPE: Grab

COMMODITY **GRADE** Molybdenum 0.0170 Per cent

COMMENTS: Minor tungsten REFERENCE: Assessment Report 14312.

**CAPSULE GEOLOGY** 

A metasedimentary unit of interbedded marble and metapelite, striking 160 degrees for 2.5 kilometres and having a 700 metre width is bounded to the west by quartz monzonite and granodiorite of the Juro-Cretaceous Coast Plutonic Complex. Northwest trending dykes and sills of diorite and quartz diorite occur throughout the metasediments. Local contact metamorphic and metasomatic effects include skarn in calcareous units and hornblende and biotite hornfels in more pelitic units.

A rusty molybdenite and pyrite-bearing garnet actinolite skarn occurs within marble in contact with granodiorite. The unit is at least 8 metres wide and undeterminable strike length. A grab sample assayed 0.017 per cent molybdenum and minor tungsten (Assessment Report 14312).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*14312, 15951 EMPR EXPL 1987-C354 EMPR OF 2002-03 GSC MAP 23-1970; 1385A GSC P 70-41, p. 20

DATE CODED: 1986/08/12 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 008

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 009

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5903080

EASTING: 438020

REPORT: RGEN0100

366

NAME(S): VG

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H05W BC MAP:

LATITUDE: 53 16 24 N

LONGITUDE: 129 55 46 W ELEVATION: 90 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 5 (Assessment Report 14537).

COMMODITIES: Tungsten 7inc

**MINERALS** 

SIGNIFICANT: Scheelite COMMENTS: Zinc bearing mineral not known.

ASSOCIATED: Diopside ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Skarn Replacement

TYPE: K05 W skarn

SHAPE: Irregular MODIFIER: Folded

STRIKE/DIP: TREND/PLUNGE: DIMENSION: 0005 Metres

COMMENTS: Length of skarn zone.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Group Unnamed/Unknown Formation Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Limestone

Granodiorite

Micaceous Quartzite

HOSTROCK COMMENTS: The Coast Plutonic Complex includes rocks as young as Tertiary.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat Plutonic Rocks

TERRANE: Alexander METAMORPHIC TYPE: Contact RELATIONSHIP: Regional GRADE: Hornfels

Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

Faulted

CATEGORY: YEAR: 1985 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY **GRADE** 

Per cent Tungsten 0.3600 Zinc 0.7200 Per cent

REFERENCE: Assessment Report 14537.

**CAPSULE GEOLOGY** 

A northwest trending narrow belt of Paleozoic metasedimentary rocks consisting of micaceous quartzite and crystalline limestone is  $\frac{1}{2}$ bounded to the east by granodiorite and to the west by diorite of the Coast Plutonic Complex. The metasediments are highly folded and

faulted.

A scheelite-bearing zone in skarn occurs near the limestonegranodiorite contact. Disseminated scheelite grains occur in a steep dipping diopside-bearing skarn which is several metres wide and trends for about 5 metres. A sample assayed 0.36 per cent tungsten oxide and 0.72 per cent zinc (Assessment Report 14537).

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EMPR OF 1991-17 GSC MAP 23-1970; 1385A

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 70-41

DATE CODED: 1986/08/12 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/12 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 009

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 010

NATIONAL MINERAL INVENTORY:

NAME(S): KEECHA CREEK, KEECH, ZINC

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H05W BC MAP:

LATITUDE: 53 18 09 N LONGITUDE: 129 58 26 W

ELEVATION: 45 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 2 (Assessment Report 656). Near the northwestern tip of Keecha Lake.

COMMODITIES: Zinc Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite

Pyrite Graphite Sphalerite

Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Chlorite ALTERATION TYPE: Chloritic

Sericite

Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal

**Epigenetic** 

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

Paleozoic Paleozoic-Mesozoic Undefined Group

**FORMATION** 

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

PAGE:

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Coast Plutonic Complex

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5906364

EASTING: 435101

LITHOLOGY: Biotite Quartz Monzonite

Graphitic Rock Altered Siltstone Calc-silicate Micaceous Quartzite

Limestone Diorite

HOSTROCK COMMENTS: The Coast Plutonic Complex includes rocks as young as Tertiary.

**GEOLOGICAL SETTING** 

**CAPSULE GEOLOGY** 

TECTONIC BELT: Coast Crystalline

TERRANE: Alexander

PHYSIOGRAPHIC AREA: Milbanke Strandflat

A northwest trending Paleozoic metasedimentary belt consisting of micaceous quartzite, crystalline limestone and calc-silicate altered siltstone is bounded by diorite and quartz monzonite of the

Plutonic Rocks

Coast Plutonic Complex.

Drilling intersected chalcopyrite, sphalerite, pyrite, and pyrrhotite with accompanying graphitic rock. Mineralization is associated with shearing in sericite-chlorite alteration zones hosted by the "Kim" biotite quartz monzonite. Stronger mineralization is associated with auriferous veins or veinlets such as those seen on Bushy Creek (103H 042). Assays ranged 2-4 per cent zinc and minor

gold and silver (Assessment Report 656).

**BIBLIOGRAPHY** 

EMPR AR 1963-21

EMPR ASS RPT \*656, 657, \*15301, 16707, \*17180 EMPR EXPL 1986-C424; 1987-A15

GSC MAP 23-1970; 1385A

GSC P 70-41

Falconbridge File

DATE CODED: 1986/08/12 DATE REVISED: 1989/08/23 CODED BY: LDJ REVISED BY: LDJ

MINFILE NUMBER: 103H 010

FIELD CHECK: N

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 011 NATIONAL MINERAL INVENTORY: 103H13 Cu1, Pyr1

NAME(S): ECSTALL, THIRTEEN CREEK, RED GULCH CREEK, BLUESTONE (L.111), BELL HELEN (L.112), RED GULCH (L.113), RED BLUFF (L.114), QUEEN (L.115), SULPHIDE (L.2661-2676),

JUNGLE 101

Underground MINING DIVISION: Skeena

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103H13E UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 53 52 29 N NORTHING: 5969705 EASTING: 466287

LONGITUDE: 129 30 46 W ELEVATION: 170 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of north lens (Minister of Mines Annual Report 1952, page

COMMODITIES: Iron Zinc Silver Sulphur Copper

Gold Lead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Pyrrhotite Marcasite

**G**alena MINERALIZATION AGE: Paleozoic

ISOTOPIC AGE: 377 +/- 9/4 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

DEPOSIT

CHARACTER: Concordant CLASSIFICATION: Volcanogenic Massive Industrial Min.

TYPE: G06 SHAPE: Tabular Noranda/Kuroko massive sulphide Cu-Pb-Zn

MODIFIER: Sheared

DIMENSION: 300 x 150 x 30 STRIKE/DIP: 360/80E TREND/PLUNGE: Metres

COMMENTS: North lens. Quartz diorite sill cuts the Ecstall VMS.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Paleozoic Central Gneiss Complex

LITHOLOGY: Quartz Sericite Schist Quartz Biotite Chlorite Schist

Quartzite Araillite

Granitic Gneiss

Quartz Hornblende Chlorite Schist

HOSTROCK COMMENTS: The Ecstall pendant occurs within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: ECSTALL REPORT ON: Y

> Unclassified CATEGORY: YFAR: 1993 QUANTITY: 6349700 Tonnes

**COMMODITY GRADE** 

Silver 20.0000 Grams per tonne Gold 0.5000 Grams per tonne 0.6000 Copper Per cent 2.5000 Per cent

REFERENCE: George Cross News Letter No.26 (February 8), 1994.

CAPSULE GEOLOGY

The property is located on the Ecstall River some 70 kilometres southeast of Prince Rupert. Red Gulch Creek, a southerly flowing

tributary, exposed the mineralization for a distance of about 610 metres between elevations of about 60 to 200 metres.

The showings were apparently discovered by Indian residents of the area, and staked in the 1890's by Charles Todd, Indian Agent for northern B.C. for himself and J.N. MacKay, H.B. Co. Chief Factor at Fort Simpson. Four claims, the Bluestone, Bell Helen, Red Gulch, and Red Bluff were staked on the showings. John Bryden and associates of

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

Victoria purchased the property in 1900 and in March 1901 incorporated The British Columbia Pyrites Company, Limited. The above 4 claims and the Queen claim (Lots 111-115 respectively) were Crown-granted to the company in 1902. Underground work was begun in 1901. A crosscut adit was driven 20 metres to the mineralized zone and drifts totalling about 12 metres were run to the north and south. Diamond drilling totalled 21 metres. A tramline was built 720 metres to the river in 1902. A bulk sample of about 90 tonnes from the mineralized zone was shipped to the Victoria Chemical Works, probably in 1903.

No further activity was reported until late in 1916 when the property was optioned to New York agents for The Granby Consolidated Mining, Smelting and Power Company, Limited. Diamond drilling by the company during the period 1917-1920 totalled about 3350 metres. The option was given up in the summer of 1920. Granby optioned the property again in 1923. Further diamond drilling and metallurgical studies were reported. The option was given up later in the year and the property reverted to British Columbia Pyrites. Based on diamond drilling to that date the two main mineralized lenses were indicated to contain about 4,536,000 tonnes averaging 49.35 per cent sulphur, 42.75 per cent iron, 0.2 per cent lead, 2.30 per cent zinc, 0.80 per cent copper, 0.69 gram per tonne gold and 24.3 grams per tonne silver. Included in the above is a section in the west part of the north lens containing an indicated 589,670 tonnes averaging 1.91 per cent copper, 2.30 per cent zinc, 1.0 gram per tonne gold and 34 grams per tonne silver (W.B. Maxwell 16/04/1942 - for Metals Controller - British Columbia Pyrites Company, Limited).

The Sulphide group of 16 claims (Lots 2661-2676) were staked surrounding the original group and extending south across the Ecstall River; the dates of staking and Crown-granting are not available.

Texas Gulf Sulphur Company purchased the property from British Columbia Pyrites in 1937. A geophysical survey was carried out and some diamond drilling was done to check prior work. An operating company Northern Pyrites, Limited was incorporated in December 1937. A new crosscut adit was begun on the west side of Red Gulch creek at about the 30-metre elevation in 1938. The adit was extended to a length of 847 metres in 1940. Seven crosscuts totalling 263 metres were driven across the mineralized zone from the adit and a 60 degree raise was driven about 180 metres to the surface.

The property was transferred to another Texas Gulf subsidiary, Sulgas Properties Ltd., which was incorporated in 1951; Northern Pyrites, Limited was wound up voluntarily in 1952. During 1952 Sulgas carried out 420 metres of surface diamond drilling, 2707 metres of underground diamond drilling, and a low frequency electromagnetic survey. Reserves were reported to be at least 8,000,000 tons, no grade stated (EMPR Bull 39, page 41, 1957).

The assets of Ecstall Mining Company Ltd. were transferred to

The assets of Ecstall Mining Company Ltd. were transferred to the parent company, Texas Gulf Sulphur Company, in 1960 and Ecstall was placed in voluntarily liquidation in August of that year. In 1966 a ten ton bulk sample was shipped for metallurgical testing.

The company name (Texas Gulf) was changed in 1972 to Texas Gulf, Inc., and in 1973 to Texasgulf Inc. A horizontal loop electromagnetic survey was carried out over 8.7 line kilometres covering Jungle 101 claim (units 1-3, 14-19) in 1975. Texas Gulf back in 1965 incorporated a new subsidiary Ecstall Mining Limited to hold the property; the latter name was changed in 1975 to Texasgulf Canada Ltd. This company was acquired in 1981 by Canada Development Corporation, at that time 87.7 per cent owned by the Government of Canada. The name (Texasgulf Canada) was changed in 1981 to Kidd Creek Mines Ltd. They dropped the claims and they were re-staked by Mr. C.W. Graf. In 1981, the property was optioned by a joint venture of E & B Explorations Inc. and Welcome North Mines Ltd. who did airborne geophysics, geology and geochemistry. After the property was dropped, Noranda Exploration Company Limited optioned the property in 1985. They staked more claims and carried out airborne EM surveys, ground geophysics, geology and rock geochemistry. Noranda dropped the property in 1987 and the claims were transferred to Mr. Graf. In 1988, Ecstall Mining Corporation purchased the property consisting of 15 claims including Ecstall 8, 9, 10, 15; Tall 1, 3, 6, 13; Fall 10-11 and Fall 12-13 Fr. In 1989, Cominco Ltd. optioned the deposit.

The Ecstall deposit, and a cluster of three spatially associated showings; the Third Outcrop (103H 012), the East Plateau (103H 050) and the Trench (103H 051), lie within the Scotia-Quaal metamorphic belt, which extends from Hawkesbury Island north to Work Channel. The belt consists of a ?Proterozoic-Paleozoic metasedimentary and metavolcanic sequence that includes the Middle Devonian Big Falls orthogneiss, Early Jurassic orthogneiss, and Jurassic or Cretaceous mafic and ultramafic intrusive rocks. The

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

assemblage may be correlative with the Nisling terrane. The metamorphic belt is intruded by the Late Cretaceous Ecstall pluton on the west, and the Paleogene Quottoon plutons to the east.

The rocks dip about 80 degrees east and consist of

The rocks dip about 80 degrees east and consist of quartz-biotite-chlorite schists, quartz-hornblende-chlorite schist, quartzite grading to quartz-mica schist, minor black argillite and granitic gneiss. The VMS in the Ecstall Belt are part of a mid Devonian volcanic and intrusive event (Fieldwork 2000, p. 269-278). The quartz diorite gives a minimum age to the VMS. A felsic metavolcanic associated with the deposit gives 393 Ma and the Big Falls tonalite gives 385 Ma. These are indistinguishable in age at stated accuracies. Of interest are local quartzites with detrital zircons of Precambrian age (Fieldwork 2000, pages 269-278).

The Ecstall deposit occurs in a hydrothermally altered sequence

The Ecstall deposit occurs in a hydrothermally altered sequence of volcanic/volcaniclastic rocks, close to a felsic volcanic centre. Two tabular concordant bodies, known as the North Lens and South Lens, have an en echelon relationship. Mineralization consists largely of pyrite with minor chalcopyrite and sphalerite and lesser pyrrhotite, marcasite and galena.

The North Lens measures about 300 by 150 by 30 metres and the South Lens measures about 400 by 360 by 7 metres. A 6.1-metre sample of the South Lens assayed 3.02 per cent zinc, 0.18 per cent copper, 20.6 grams per tonne silver and 0.69 gram per tonne gold (Minister of Mines Annual Report 1952).

The two lenticular bodies of massive pyrite strike north, dip steeply east and plunge steeply south. The North Lens contains 3.1 million tonnes grading 0.80 per cent copper, 2.0 per cent zinc, 43.5 per cent iron, 49.5 per cent sulphur, 17.1 grams per tonne silver and 0.5 grams per tonne gold. The South Lens contains 3.8 million tonnes grading 0.5 per cent copper, 3.0 per cent zinc, 41.3 per cent iron and 47.6 per cent sulphur. The upper 1.3 million tonnes grades 20.2 grams per tonne silver and 0.5 grams per tonne gold (Assessment Report 15488). Unclassified reserves in 1993 for the Ecstall deposit (North and South lenses) are 6,349,700 tonnes grading 0.6 per cent copper, 2.5 per cent zinc, 0.5 gram per tonne gold and 20.0 grams per tonne silver (George Cross News Letter No.26 (February 8), 1994).

A smaller deposit occurs 760 metres north of the North Lens, where 30 by 2.4 metres of massive pyrite is exposed.

Results of property-scale exploration by Falconbridge in 1986/87 indicated the presence of significant stockwork copper mineralization in felsic rocks, occurring south of the Ecstall River in Thirteen Creek area. The stockwork mineralization was interpreted as a possible feeder zone to a volcanogenic massive sulphide deposit. This area was explored by Atna Resources Ltd. in 1994, confirming stockwork copper mineralization and outlining disseminated copper mineralization over a large area, including a previously unexplored area at the north end of the grid. The work by Atna outlined disseminated and vein copper mineralization over a 2000 by 150 metre area on Thirteen Creek grid. Results of a systematic chip sampling program across the zone yielded values of 0.198 per cent copper over 124 metres across one of the better exposures (Assessment Report

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    151-170
EMPR AR 1900-788-789; 1901-991; 1902-47,308; 1916-50; 1917-45;
1918-47; 1919-42; 1920-40; 1923-46; 1938-B28; 1939-100; 1940-86; *1952-81-84; 1958-7; 1966-54 EMPR ASS RPT 5859, 10007, *15488, *15756, 16600, 16711, *24605,
    25862
EMPR BULL 39
EMPR BULL 39, p. 41
EMPR EXPL 1975-E175; 1987-C355
EMPR MAP 65 (1989)
EMPR OF 1992-1; 1992-3; 1992-9; 1998-10; 1999-2; 2002-03
EMPR PF (Mr. Robert Swinerton's Pyrite Mine; Atna Resources Limited
   Website, (June 2000))
EMR MIN BULL MR 223 B.C. 285
EMR MP CORPFILE (The British Columbia Pyrites Company, Limited;
    Northern Pyrites, Limited; Ecstall Mining Company Ltd.;
    Texasgulf Inc.)
EMR MP RESFILE (Ecstall River)
GSC MAP 23-1970; 1385A; 1868A
GSC P *70-41, pp. 15,50,51
GSC SUM RPT 1924 Part A, p. 43
CANMET IR 2297 (1948); Memorandum Series 118 (1952), p. 78
CANMET RPT 167 (1912), p. 86
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RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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unpublished Texas Gulf Sulphur report

DATE CODED: 1986/08/13 DATE REVISED: 1999/10/21 CODED BY: LDJ REVISED BY: JMR

MINFILE NUMBER: 103H 011

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FIELD CHECK: N

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 012

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5970476

**EASTING: 466475** 

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REPORT: RGEN0100

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NAME(S): THIRD OUTCROP, ECSTALL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H13E BC MAP: LATITUDE: 53 52 54 N

LONGITUDE: 129 30 36 W ELEVATION: 415 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 6 (Assessment Report 15488).

COMMODITIES: Copper 7inc

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Sphalerite

ALTERATION: Silica Chlorite

Chloritic Sericitic

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic Massive

Noranda/Kuroko massive sulphide Cu-Pb-Zn

TYPE: G06 Norand SHAPE: Tabular DIMENSION: 0030 x 0002 STRIKE/DIP: 165/80F TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Paleozoic Central Gneiss Complex

LITHOLOGY: Quartz Sericite Schist

Granodiorite

HOSTROCK COMMENTS: Hosted in the Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl.
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1987

SAMPLE TYPE: Drill Core

COMMODITY Copper **GRADE** Per cent 0.6300

7inc 2.3000 Per cent

COMMENTS: The sample width is 5.18 metres. REFERENCE: Assessment Report 15488.

CAPSULE GEOLOGY

The showing is one of a cluster of showings around the Ecstall deposit (103H 011). The north-northwest trending Paleozoic Ecstall Pendant, a metasedimentary-metavolcanic belt within the Central Gneiss Complex, is flanked by granodiorite of the Coast Range Intrusive Complex.

The Third Outcrop showing is a bed of pyrite, 1.5 to 2.0 metres wide and 30 metres long, hosted by quartz-sericite schist. Drilling in 1952 intersected 5.18 metres of massive sulphide grading 0.63 per cent copper and 2.30 per cent zinc (Assessment Report 15488).

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EMPR AR 1952-81,84

EMPR ASS RPT \*15488, \*15756

EMPR EXPL 1987-C355

EMPR OF 1999-2; 2002-03

GSC MAP 23-1970; 1385A, 1868A

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 70-41

DATE CODED: 1987/07/21 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/11 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 012

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 013 NATIONAL MINERAL INVENTORY: 103H14 CU2, Pyr2

NAME(S): PACKSACK, GUNNYSACK, ECSTALL, TALL, FALL

STATUS: Developed Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103H14W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE:

NORTHING: 5959783 LONGITUDE: 129 26 16 W **EASTING: 471157** 

ELEVATION: 240 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of showings, Map 2 (Assessment Report 4509).

COMMODITIES: Copper 7inc Silver Gold I ead

Iron

**MINERALS** 

SIGNIFICANT: Pyrite Chalcocite Chalcopyrite Sphalerite ASSOCIATED: Quartz ALTERATION: Sericite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Concordant Disseminated CLASSIFICATION: Volcanogenic Syngenetic Industrial Min.

Noranda/Kuroko massive sulphide Cu-Pb-Zn

TYPE: G06 N SHAPE: Tabular MODIFIER: Sheared

DIMENSION: 365 x 6 Metres STRIKE/DIP: 165/85 TREND/PLUNGE:

COMMENTS: South body; foliation of host rock.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Central Gneiss Complex

LITHOLOGY: Quartz Sericite Schist

Hornblende Lamprophyre Dike

Phyllite Quartz Schist Meta Siltstone

HOSTROCK COMMENTS: Hosted in the Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Kitimat Ranges

TECTONIC BELT: Coast Crystalline
TERRANE: Undivided Metamorphic Assembl.
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: PACKSACK REPORT ON: Y

> CATEGORY: Unclassified YEAR: 1986

> QUANTITY: 2700000 Tonnes COMMODITY **GRADE**

Silver 34.0000 Grams per tonne Gold 0.3000 Grams per tonne 0.5000 Per cent Copper Leàd 0.0100 Per cent Zinc 0.2000 Per cent

REFERENCE: Assessment Report 15756.

**CAPSULE GEOLOGY** 

The Packsack deposit is located 12 kilometres from tidewater on Douglas Channel about halfway between Prince Rupert and Kitimat. The claims lie on the east side of the ridge at the bend of the Ecstall The River, 10 kilometres south of Johnston Lake. The Steelhead (103H 036) and Horsefly (103H 014) showings occur on the same

property.

Ecstall Mining Company Ltd. carried out a reconnaissance geological survey in this vicinity in 1957 under the direction of W.R. Bacon. Sulphide showings were discovered at an elevation of about 800 feet in the beds of two intermittent streams on the east slope of what came to be know locally as Prospect Hill. Sixteen

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

claims in two rows of eight (Packsack 1-8 and Gunnysack 1-8) were staked in a north-south direction. An electromagnetic survey was carried out over the showings in 1958.

The assets of Ecstall were transferred to the parent company, Texas Gulf Sulphur Company, in 1960 and Ecstall was placed in voluntary liquidation in August of that year. Work during 1960 included 881 metres of diamond drilling in 11 holes. All the holes are reported to have cut pyrite mineralization, much of which is massive.

The company name (Texas Gulf) was changed in 1972 to Texas Gulf, Inc. and in 1973 to Texasgulf Inc. During 1973 geological mapping, and a geochemical soil survey (119 samples) over 2 line-miles were carried out over Packsack 1-4 and Gunnysack 1-8. In 1975 a shootback electromagnetic survey was carried out over 9.75 line-kilometres on Packsack 1 and 2 and Gunnysack 1-6. Texasgulf Inc. dropped the claims and they were restaked by Mr. C.W. Graf. In 1981, the property was optioned by a joint venture of E & B Explorations Inc. and Welcome North Mines Ltd. who did airborne geophysics, geology and geochemistry. After the property was dropped, Noranda Exploration Company Limited optioned the property in 1985. They staked more claims and carried out airborne EM surveys, ground geophysics, geology and rock geochemistry. Noranda dropped the property in 1987 and the claims were transferred to Mr. Graf. In 1988, Ecstall Mining Corporation purchased the property consisting of 15 claims including Ecstall 8, 9, 10, 15; Tall 1, 3, 6, 13; Fall 10, 11; Fall 12-13 Fr. In 1989, Cominco Ltd. optioned the deposit. In 1990, they drilled 3 holes totalling 934 metres.

A north trending, steep easterly dipping belt of metavolcanics and metasediments consisting of chlorite-sericite schist, quartz-sericite schist, mixed dacitic to rhyolitic rocks, phyllite, and meta-siltstone are bounded by altered hornblende diorite of the Coast Plutonic Complex. All rocks are cut by hornblende lamprophyre dikes.

Two massive sulphide bodies, 170 metres apart, occur within the

Two massive sulphide bodies, 170 metres apart, occur within the quartz-sericite schist and are associated with a 600-metre long, 34 metre wide shear zone. The deposit averages 3.8 metres in thickness and has been traced continuously for 600 metres.

The mineralization is similar to that at the Ecstall deposit (103H 011), about 13 kilometres to the north-northeast.

The southern body, up to 6 metres wide and traced for 365 metres, consists of massive pyrite with minor chalcopyrite, chalcocite and sphalerite. The mineralized body is open at depth and along strike in both directions and appears to be thickening and becoming more zinc rich (relative to copper) with depth. The northern body is up to 0.6 metres wide. Disseminated pyrite is common in the quartz-sericite schist. In 1986, unclassified reserves were 2.7 million tonnes grading 0.5 per cent copper, 0.2 per cent zinc, 0.01 per cent lead, 34 grams per tonne silver and 0.3 grams per tonne gold (Assessment Report 15756).

The property is held by Ecstall Mining Corporation.

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DATE CODED: 1986/08/14 DATE REVISED: 1999/10/21 CODED BY: LDJ REVISED BY: JMR

MINFILE NUMBER: 103H 013

FIELD CHECK: N

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 014

NATIONAL MINERAL INVENTORY: 103H14 Pyr1

NAME(S): **HORSEFLY** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H14W BC MAP:

UTM ZONE: 09 (NAD 83)

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LATITUDE: 53 46 04 N NORTHING: 5957752 EASTING: 474989

LONGITUDE: 129 22 46 W ELEVATION: 680 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Map 2 (Assessment Report 15306). See also Packsack (103H 013) and Steelhead (103H 036).

COMMODITIES: Zinc Silver Gold Copper I ead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite

ASSOCIATED: Quartz

Chlorite

Chalcopyrite Pyrrhotite

ALTERATION: Sericite
ALTERATION TYPE: Sericitic Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Disseminated

CLASSIFICATION: Volcanogenic

Noranda/Kuroko massive sulphide Cu-Pb-Zn

TYPE: G06 N SHAPE: Tabular MODIFIER: Sheared

DIMENSION: 1500 x 60 Metres STRIKE/DIP: 150/90 TREND/PLUNGE: COMMENTS: Mineralized zone.

**HOST ROCK** DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Central Gneiss Complex

LITHOLOGY: Chlorite Schist

Quartz Sericite Schist

Andesite Rhyolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1986 Assay/analysis

SAMPLE TYPE: Rock

COMMODITY Silver GRADE 33.0000 Grams per tonne 0.5000 Gold Grams per tonne Copper 0.4000 Per cent Lead 0.0800 Per cent Zinc 3.8000 Per cent

REFERENCE: Assessment Report 15014.

**CAPSULE GEOLOGY** 

The area is underlain by northwest trending metavolcanics and metasediments of the Central Gneiss Complex, intruded by granitic rocks of the Coast Plutonic Complex.

Massive and disseminated pyrite and minor sphalerite, chalcopyrite, and pyrrhotite occur along a shear zone within highly metamorphosed felsic volcanics, consisting of chloritic schists and weakly foliated andesite flows. These rocks lie adjacent to a pyritic quartz sericite schist horizon which contains anamalous copper-zinc values. The mineralized area measures intermittently copper-zinc values. The mineralized area measures inte over 1500 metres by 60 metres along a 150 degree trend.

A rock sample assayed 0.4 per cent copper, 3.8 per cent zinc, 0.08 per cent lead, 33.0 grams per tonne silver, and 0.5 grams per tonne gold (Assessment Report 15306). A sample 900 metres to the southeast, on the Steelhead grid (103H 036), assayed 1.08 per cent

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

copper, 0.974 per cent zinc, 0.0018 per cent lead, 28 grams per tonne silver, and 0.42 grams per tonne gold (Assessment Report 15306).

In 1995, with support from the Explore B.C. Program, Atna Resources Ltd. under joint venture with Ecstall Mining Corporation conducted an electromagnetic survey and diamond drilling (1075 metres in 8 holes) on the Horsefly and Steelhead (103H 036) showings. A 20metre wide zone of disseminated massive sulphides was located by two of the drillholes and traced for 90 metres. It is open in all directions. Three other targets located by EM survey remain to be drill tested (Explore B.C. Program 95/96 - M59). See also Packsack (103H 013).

#### **BIBLIOGRAPHY**

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001, pp. 151-170 EMPR AR 1968-69 EMPR ASS RPT \*1804, 10007, \*14340, \*15306, \*15491, 24368 EMPR B.C. Explore Program 95/96 - M59 EMPR EXPL 1986-C425; 1987-C356 EMPR GEM 1969-369 EMPR INF CIRC 1995-19, p. 25; 1996-1, p. 25 EMPR OF 1999-2; 2002-03 EMPR PF (Ecstall Mining Corp., Prospectus, May 1989 in 103H 013; Ecstall Mining Corporation Website (Nov.1999): Ecstall River Properties, 2 p.)
GSC MAP 23-1970; 1385A, 1868A GSC P 70-41 GCNL #51(Mar.13), #66, 1990; #200 (Oct.18), #217(Nov.10), 1995; #217(Nov.10), 1997 N MINER June 5, 1995 WWW http://www.ecstall.com

DATE CODED: 1986/08/14 DATE REVISED: 1996/11/04 CODED BY: LDJ REVISED BY: VAP FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103H 014

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 015

NATIONAL MINERAL INVENTORY: 103H11 Cu1

NAME(S): KISKOSH INLET

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103H11E BC MAP:

NORTHING: 5933452 EASTING: 484246

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LATITUDE: 53 32 59 N LONGITUDE: 129 14 16 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Occurrence (Geological Survey of Canada, Map 278A). Contact area (Geological Survey of Canada, Map 23-1970).

COMMODITIES: Copper

MINERALS
SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Unnamed/Unknown Informal

LITHOLOGY: Schist

Biotite Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline
TERRANE: Undivided Metamorphic Assembl. PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area is underlain by metasediments consisting mainly of

schists intruded by biotite quartz monzonite.

A copper occurrence is noted on GSC Map 278A. No other infor-

mation is available.

**BIBLIOGRAPHY** 

EM FIELDWORK 2001, pp. 151-170 GSC MAP 23-1970; \*278A; 1385A, 1868A

GSC P 70-41

DATE CODED: 1986/08/14 DATE REVISED: 1989/08/02 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 016 NATIONAL MINERAL INVENTORY: 103H11 Zn1

NAME(S): **DECAIRE** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H11E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 40 44 N

LONGITUDE: 129 11 46 W ELEVATION: 170 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Descriptions in Annual Report 1929 p. 70.

COMMODITIES: Zinc Lead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Pyrite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

SHAPE: Irregular
DIMENSION: 0018 x 0003 Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Granitic Gneiss

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TECTONIC BELT: Coast Crystalline
TERRANE: Undivided Metamorphic Assembl.
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

A quartz vein, 1.8 to 3.6 metres wide and 18 metres long, mineralized with sphalerite, pyrite, and minor galena, occurs in

granite gneiss.

**BIBLIOGRAPHY** 

EM FIELDWORK 2000, pp. 279-306; 2001, pp. 151-170 EMPR AR \*1929-70; 1930-66

ENPR OF 2002-03 GSC MAP 23-1970; 1385A, 1868A

GSC P 70-41

DATE CODED: 1986/08/14 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

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NORTHING: 5947814

EASTING: 487046

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 017

NATIONAL MINERAL INVENTORY: 103H11 Cu2

NAME(S): **ABRUZZI** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H11E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 53 40 29 N

NORTHING: 5947343 EASTING: 489981

LONGITUDE: 129 09 06 W ELEVATION: 1 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location from descriptions in Annual Reports 1929 p.70 and 1930 p.66.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Mica Pyrrhotite

ALTERATION: Chlorite ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Concordant CLASSIFICATION: Replacement

Disseminated

Massive

SHAPE: Irregular

MODIFIER: Folded DIMENSION: 0003 Metres COMMENTS: Mineralized lens. Attitude of host rock.

STRIKE/DIP: 150/80S TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Unnamed/Unknown Informal

LITHOLOGY: Altered Schist

Quartz Diorite

**GEOLOGICAL SETTING** TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1930 Assay/analysis

SAMPLE TYPE: Rock

COMMODITY Silver **GRADE** 10 2900

Grams per tonne Copper 1.4000 Per cent

COMMENTS: The sample width is 2.3 metres.

REFERENCE: Minister of Mines, Annual Report 1930, page 66.

**CAPSULE GEOLOGY** 

A 10 metre wide band of folded, altered schist, trending 150 degrees and dipping 80 degrees south occurs in quartz diorite of the Coast Plutonic Complex. The schist is micaceous, garnetiferous,

and chloritic.

Mineralization consists of disseminated and massive chalcopyrite and pyrrhotite. One lens measured 3 metres long and 23 centimetres wide. A 2.3 metre sample assayed 1.4 per cent copper and 10.29 grams per tonne silver (Minister of Mines, Annual Report 1930).

**BIBLIOGRAPHY** 

EM FIELDWORK 2000, pp. 279-306; 2001, pp. 151-170 EMPR AR \*1929-70, \*1930-66 EMPR OF 2002-03

GSC MAP 23-1970; 1385A, 1868A

GSC P 70-41

CODED BY: LDJ REVISED BY: LDJ DATE CODED: 1986/08/14 DATE REVISED: 1989/08/12 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Gold

MINFILE NUMBER: 103H 018

NATIONAL MINERAL INVENTORY: 103H14 Cu1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5959076

EASTING: 498243

REPORT: RGEN0100

382

NAME(S): **DRUM LUMMON**, CALEDONIA, PAISLEY POINT, LOS ANGELES-VANCOUVER

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103H14E

BC MAP:

COMMODITIES: Copper

LATITUDE: LONGITUDE: 129 01 36 W

ELEVATION: 150 Metres LOCATION ACCURACY: Within 500M COMMENTS: Adits and showings.

**MINERALS** 

SIGNIFICANT: Chalcocite Bornite Covellite Chalcopyrite Gold Silver

ASSOCIATED: Quartz Orthoclase Microcline **Biotite** Magnetite

Silver

Hematite ALTERATION: Clay **Epidote** Hematite Silica

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown Silicific'n

**DEPOSIT** 

CHARACTER: Podiform CLASSIFICATION: Pegmatite **Epigenetic** 

SHAPE: Irregular

DIMENSION: 0100 x 0030 x 0015 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Pegmatite mass.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

Pegmatite

HOSTROCK COMMENTS: The Coast Plutonic Complex includes same Tertiary intrusions.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Rocks

CAPSULE GEOLOGY

Irregular shaped pegmatite masses of feldspar and quartz occur in quartz diorite of the Coast Plutonic Complex. Erratically in quartz diorite of the Coast Plutonic Complex. Erratically distributed and irregular shaped pods of chalcocite, bornite and covellite with minor chalcopyrite, gold and silver occur mainly with the feldspar near the margins of the pegmatite and locally within the country rock. A large pegmatite mass, measuring at least 100 by 30 by 15 metres, which has been explored by underground workings contains lenses of bornite and chalcocite up to 1.2 metres wide. A 4.5 tonne sample assayed 50.6 per cent copper, 606.9 grams per tonne silver and 57.3 grams per tonne gold (Minister of Mines, Appular Report 1921) Annual Report 1921).

Recorded production for 1918 to 1926 totals 1,773 grams of gold, 49,018 grams of silver and 33,423 kilograms of copper.

**BIBLIOGRAPHY** 

EMPR AR 1908-58; 1909-56-57; 1916-50,436; 1917-37,42-43; 1918-35, 46; 1919-41-42; 1920-35,39,260; 1921-41; 1922-45-46; 1923-46,300; 1924-46; 1925-67; 1926-64,71; 1928-70; \*1929-70-71; \*1930-66-67;

EMPR ASS RPT 15885 EMPR EXPL 1979-252; 1987-C357

EMPR INDEX 3-194

EMPR OF 2002-03

EMR MP CORPFILE (Drum Lummon Mines Limited; Douglas Channel Mines,

Limited; Los Angelas-Vancouver Mines, Ltd.)

EMR MRD Metals Committee File: 167-C3-2-41 GSC MAP 23-1970, 278A, 1868A GSC P \*70-41, p. 53

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**BIBLIOGRAPHY** 

GSC SUM RPT \*1921A, pp. 26,29,35-38

DATE CODED: 1986/08/15 DATE REVISED: 1989/08/12 FIELD CHECK: N FIELD CHECK: N CODED BY: LDJ REVISED BY: LDJ

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 019 NATIONAL MINERAL INVENTORY: 103H15 Au1

NAME(S): GOLDEN CROWN

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103H15E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 5982042 EASTING: 529944

LATITUDE: 53 59 09 N
LONGITUDE: 128 32 36 W
ELEVATION: 200 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Descriptions and Map 23-1970 (Geological Survey of Canada, Paper

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite COMMENTS: Probable minerals present.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
DIMENSION: 0006 Epigenetic

STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Width of vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE GROUP **FORMATION** 

Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

A 6 metre wide quartz vein containing copper, gold and silver values occurs in quartz diorite of the Coast Plutonic Complex.
In 1904, 5 tonnes of mined ore produced 93 grams of gold.

**BIBLIOGRAPHY** 

EMPR AR 1899-656; 1900-787; 1901-992; 1902-47; 1903-51; 1904-102; 1905-82; 1907-74; 1909-57; 1928-69

EMPR BC METAL MM00745 EMPR INDEX 3-198 GSC MAP 23-1970; 1385A GSC P 70-41, p. 49

DATE CODED: 1986/08/15 DATE REVISED: 1989/08/12 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 020

NATIONAL MINERAL INVENTORY: 103H16 Cu1,Cu2

NORTHING: 5963680

EASTING: 533903

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REPORT: RGEN0100

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NAME(S): KILDALA, BOLTON

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H16W BC MAP: UTM ZONE: 09 (NAD 83)

LONGITUDE: 128 29 06 W ELEVATION: 1 Metres LOCATION ACCURACY: Within 500M

LATITUDE: 53 49 14 N

COMMENTS: Description from Annual Reports.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite ALTERATION: Garnet Chalcopyrite Epidote COMMENTS: Probable skarn.

ALTERATION TYPE: Skarn MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Paleozoic-Mesozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Coast Plutonic Complex

LITHOLOGY: Limestone

Greenstone Granodiorite

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain by greenstones and crystalline limestone near granodiorite of the Coast Plutonic Complex.

Irregular patches of pyrite and chalcopyrite occur in the meta-sediments on a point jutting from the north side of Kildala River flats. The mineralization is probably hosted in a skarn as evidenced by the presence of garnet and epidote.

About 2.8 kilometres to the north and at elevation 120 metres, similar mineralization occurs which assayed trace gold, silver and copper across 3 metres. Earlier reports of 1.7 per cent tin could not be confirmed (Geological Survey of Canada, Paper 70-41).

**BIBLIOGRAPHY** 

EMPR AR 1928-69-70; 1929-70 GSC MAP 23-1970; 1385A GSC P 70-41, pp. 52,53

DATE CODED: 1986/08/15 DATE REVISED: 1989/08/12 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 021

NATIONAL MINERAL INVENTORY: 103H7 Cu2

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NAME(S): **KEN**, COPPER CLIFF, BLUEBELL, BLUE BELL

STATUS: Showing Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103H07W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 53 20 39 N LONGITUDE: 128 59 36 W NORTHING: 5910557 EASTING: 500444

ELEVATION: 350 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 2 (Assessment Report 3347).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Bornite Chalcocite Covellite

COMMENTS: Trace gold and silver. ALTERATION: Quartz
ALTERATION TYPE: Skarn Garnet Diopside

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Skarn Replacement

TYPE: K01 C SHAPE: Irregular Cu skarn

STRIKE/DIP: DIMENSION: 1000 Metres TREND/PLUNGE:

COMMENTS: Length of showings, strata generally strikes 135 degrees and dips to

the northeast.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Unnamed/Unknown Formation

Paleozoic Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Diopside Garnet Skarn

Quartz Diorite

HOSTROCK COMMENTS: Includes plutons of Tertiary age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl. Plutonic Rocks
METAMORPHIC TYPE: Regional PLUTONIC ROCKS RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1971 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Copper 0.2800 Per cent

COMMENTS: The 7.6 centimetre sample also contained trace silver and gold.

REFERENCE: Property File Report by Sevensma, 1971.

CAPSULE GEOLOGY

Quartz diorite of the Coast Plutonic Complex contains zones of diopside-garnet-quartz skarn with small lenses of disseminated chalcopyrite, bornite, chalcocite and covellite. Showings occur in a northwest trending, northeast-dipping structure over a 1000-metre length. A 7.6 centimetre sample of a lens assayed 0.28 per cent copper, trace gold and trace silver (Sevensma, 1971).

The property was first staked in 1900 as the Copper Cliff

Group, and was owned by Gribbell Island Copper Company. During that year development included three open cuts, each accompanied by short adits. Between then and 1905, several more adits were driven, including one 108 metres in length, and more shallow pits, open cuts and two shallow prospect shafts. Eight Crown Grants were issued to Gribbell Island Copper Company on the Copper Cliff Group in June 1910.

Phelps Dodge Corporation of Canada did some further work 1964. The property was then restaked as the Ken 1-12. In 1970 Balfour Mining Limited acquired the rights and conducted exploration until

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**CAPSULE GEOLOGY** 

 $1973\,,$  including geochemical surveying, trenching, and some diamond drilling.

**BIBLIOGRAPHY** 

EMPR AR 1899-656; 1900-787; 1901-992; 1902-47; 1903-51; 1904-102; \*1905-85-88; 1910-246

EMPR ASS RPT 3347

EMPR GEM 1971-112

EMPR GEM 1971-112

EMPR PF (Reports by W.M Brewer, 1905; \*P.H. Sevensma, 1971)

EMR MP CORPFILE (Balfour Mining Ltd. (N.P.L.))

GSC MAP 23-1970; 1385A

GSC P 70-41, p. 522

GSC SUM RPT 1921A, p. 39

DATE CODED: 1986/08/25 DATE REVISED: 1999/07/25 CODED BY: LDJ REVISED BY: JMR FIELD CHECK: N FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 022

NAME(S): OX, EMPRESS, GRIBBLE ISLAND, GRIBBELL ISLAND

Underground MINING DIVISION: Skeena

NATIONAL MINERAL INVENTORY: 103H7 Cu1

REGIONS: British Columbia NTS MAP: 103H07W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 53 19 29 N LONGITUDE: 128 57 16 W

STATUS: Past Producer

NORTHING: 5908395 EASTING: 503034

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REPORT: RGEN0100

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ELEVATION: 450 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main showing, Figure 2 (Assessment Report 3347).

Gold COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Bornite Chalcocite Covellite Chalcopyrite

ALTERATION: Quartz Diopside Garnet Epidote Calcite ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Skarn Vein

Replacement

TYPE: K01 Cu skarn

SHAPE: Irregular

MODIFIER: Sheared
DIMENSION: 152 x 84 x STRIKE/DIP: 090/65S TREND/PLUNGE: Metres

COMMENTS: Area of showing.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** 

Unnamed/Unknown Formation Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Marble

Limestone Schist

Marble Epidote Skarn Diopside Skarn

Hornblende Biotite Quartz Diorite

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) Plutonic Rocks

TERRANE: Undivided Metamorphic Assembl.
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1971 Assay/analysis

SAMPLE TYPE: Rock

**GRADE COMMODITY** Silver 13.7000 Grams per tonne

Copper 1.0200 Per cent

COMMENTS: The sample width is 5.2 metres. REFERENCE: Property File Report by Sevensma, 1971.

**CAPSULE GEOLOGY** 

The property is located on the southeastern tip of Gribbell Island, approximately 2.4 kilometres inland from Pilot Point.

An east dipping (60 degrees), 6 to 9 metre wide bed of marble, intercalated with schist is cut by hornblende-biotite quartz diorite of the Coast Plutonic Complex. The main showing is a bedded sequence of red garnet and white quartz, marble-epidote skarn, and diopside skarn, irregularly mineralized with bornite, chalcocite, and minor covellite as disseminations, streaks, and splotches. The showing occurs in a northeast plunging anticline and averages 5 metres in

width. A 5.2-metre sample assayed 1.02 per cent copper, 13.7 grams per tonne silver and trace gold (Sevensma, 1971).

The occurrence was staked in 1900 as the Empress Group by Canadian-American Mining Company of Bellingham, Washington

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

(previously known as the New Whatcom Mining Company). During that year development included trail-making, and four short adits. In 1901 the company drove a 91-metre adit at 366 metres elevation to tap the main ledge. In 1903 a wharf and tramway were built. A 58-metre adit was driven in 1904. During 1905 and 1906, the 1901 adit was continued to a length of 220 metres, and 35 tonnes of ore were removed, from which 31 grams of gold, 1306 grams of silver, and 372 kilograms of copper were recovered. The company was issued 6 Crown Grants (Lots 580R4-585R4) in 1911.

Phelps Dodge did some further work in 1964. The property was restaked under the Ox name by Balfour Mining Limited in 1970. They conducted geochemical surveying, trenching, and drilling of three diamond drill holes between 1970 and 1973.

Smaller showings occur in an easterly direction over a 152

metre length and 84 metre vertical depth.

#### **BIBLIOGRAPHY**

EMPR AR 1899-656; 1900-787; 1901-992; 1902-47; 1903-51; 1904-102; \*1905-85-88; 1910-246; 1911-287 EMPR ASS RPT 3347 EMPR GEM 1971-112 EMPR INDEX 3-195 EMPR PF (Reports by W.M. Brewer, 1905; \*P.H. Sevensma, 1971) EMR MP CORPFILE (Balfour Mining Ltd. (N.P.L.)) GSC MAP 23-1970; 1385A GSC P 70-41, p. 52 GSC SUM RPT 1921A, p. 39

DATE CODED: 1986/08/25 DATE REVISED: 1999/08/13 CODED BY: LDJ REVISED BY: JMR FIELD CHECK: N

MINFILE NUMBER: 103H 022

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ENERGY AND MINERALS DIVISION

NATIONAL MINERAL INVENTORY: 103H3 Cu2

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MINFILE NUMBER: 103H 023

NAME(S): RIVER BIGHT

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H03E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 12 39 N
LONGITUDE: 129 01 56 W
ELEVATION: 100 Metres
LOCATION ACCURACY: Within 1 KM NORTHING: 5895725 EASTING: 497848

COMMENTS: Geological Survey of Canada, Map 278A.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

**HOST ROCK**DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Schist

Gneiss

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TECTONIC BELT: Coast Crystalline
TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Pyritized quartz veins occur in schist and gneiss of the  ${\tt Coast\ Plutonic\ Complex}$  .

**BIBLIOGRAPHY** 

EMPR AR 1920-38 GSC MAP 23-1970; \*278A; 1385A GSC P 70-41

DATE CODED: 1986/08/25 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1989/08/12 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 024 NATIONAL MINERAL INVENTORY: 103H3 Cu1

NAME(S): **CAMPANIA**, MOOSE

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103H03E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 10 20 N NORTHING: 5891432 EASTING: 494393

LONGITUDE: 129 05 02 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of Reverted Crown Grants (Lots 1804-1806).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Marcasite ASSOCIATED: Quartz Chalcopyrite Magnetite Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

Cu±Ag quartz veins

TYPE: 106 Cu SHAPE: Irregular DIMENSION: 365 x 2 STRIKE/DIP: 070/50N TREND/PLUNGE: Metres

COMMENTS: Quartz vein.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Paleozoic-Mesozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Hornblende Schist

**Gneissic Diorite** 

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1935 Assay/analysis

> SAMPLE TYPE: Rock

COMMODITY **GRADE** Silver Grams per tonne 3.4000 3.4000

Gold Grams per tonne 0.2000 Per cent Copper

COMMENTS: The assays were obtained from a composite sample.

REFERENCE: Minister of Mines Annual Report 1935, page B2.

**CAPSULE GEOLOGY** 

The property is located approximately 1.6 kilometres south-southeast of Leading Point, on the northwestern end of Princess

Roval Island.

In January 1920, Whale Channel Mines, Limited, was incorporated. The company holdings at that time included the Moose 1-3. Prior to 1920 work on this property included a 21-metre adit crossing the regional geologist, reporting property assessment work, found a 366 metre adit along the strike of the vein, which appeared to have been driven prior to 1934, but for which there is no report driven prior to 1934, but for which there is no report.

The area is underlain by hornblende schist and gneissic diorite of the Coast Plutonic Complex. A quartz vein 365 metres long and 2.4 metres wide and trending east with a 40 to 60 degree north dip occurs in the hornblende schist. Sparsely distributed mineralization in the quartz vein consists of marcasite, chalcopyrite, magnetite and pyrite. A composite sample assayed 3.4 grams per tonne gold, 3.4 grams per tonne silver, and 0.2 per cent copper (Minister of Mines

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**CAPSULE GEOLOGY** 

Annual Report 1935, p. B2).

**BIBLIOGRAPHY** 

EMPR AR 1919-41; \*1920-38; \*1935-B2 GSC MAP 23-1970; 1385A GSC P 70-41

DATE CODED: 1986/08/25 DATE REVISED: 1999/08/19 CODED BY: LDJ REVISED BY: JMR FIELD CHECK: N FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 025

NATIONAL MINERAL INVENTORY: 103H2 Au4

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NORTHING: 5890780

EASTING: 500446

REPORT: RGEN0100

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NAME(S): **CORDILLA**, MOUNTAIN VIEW, ROYAL, LANDSLIE, BIGHT, COUNDER,

**PRESENT** 

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103H02W UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 53 09 59 N LONGITUDE: 128 59 36 W

ELEVATION: 5 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Symbol #13, Map 23-1970 (Geological Survey of Canada, Paper 70-51).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

**Epigenetic** 

TYPE: 101 Au-quartz veins

SHAPE: Irregular MODIFIER: Sheared

STRIKE/DIP: 155/90 DIMENSION: TREND/PLUNGE:

COMMENTS: Shear zone.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex STRATIGNALLIS.
Paleozoic-Mesozoic STRATIGRAPHIC AGE GROUP **FORMATION** 

LITHOLOGY: Quartz Diorite

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1922 SAMPLE TYPE: Rock

COMMODITY Silver **GRADE** 69,0000 Grams per tonne Gold 4.1100 Grams per tonne

REFERENCE: Minister of Mines, Annual Report 1922, page 43.

**CAPSULE GEOLOGY** 

The showings are situated on the west side of Drake Inlet (Princess Royal Island) near the adjoining Cornwall Inlet (referred to in older reports as Rivers Bight).

In July 1920, the Cordilla group, consisting of six claims, the Mountain View, Royal, Landslide, Bight, Counder and Present, was staked by Cordilla and Koski. The claims were bonded in 1921 to the Rivers Bight Syndicate.

During 1921-22, a 91-metre adit was driven along the mineralized shear zone but the results were unsatisfactory, and the bond lapsed in 1922. In 1926 the owners extended the adit a short distance.

Pyritized quartz veins occur in a shear zone, striking 155 degrees and dipping vertical, in quartz diorite of the Coast Plutonic Complex. A sample assayed 4.11 grams per tonne gold and 69 grams per tonne silver (Minister of Mines, Annual Report 1922, p.43).

BIBLIOGRAPHY

EMPR AR 1920-35; 1921-40; \*1922-43; 1923-45; 1926-71

EMPR BULL 1, 1932, pp. 21,29 GSC MAP 23-1970; 278A; 1385A

GSC P 70-41, p. 50

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GSC SUM RPT 1921A, p. 35

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MINFILE NUMBER: 103H 025

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 026 NATIONAL MINERAL INVENTORY: 103H2 Au3

NAME(S): WELLS

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103H02W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 05 44 N NORTHING: 5882905 EASTING: 506771

LONGITUDE: 128 53 56 W ELEVATION: 700 Metres LOCATION ACCURACY: Within 500M COMMENTS: Descriptions.

> COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** Au-quartz veins

TYPE: I01 A SHAPE: Irregular

MODIFIER: Sheared DIMENSION: 18 x COMMENTS: Vein. STRIKE/DIP: TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Coast Plutonic Complex

Paleozoic-Mesozoic

LITHOLOGY: Quartz Diorite

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

This group was owned by F. Wells in 1921. The property is located on the steep side of the precipitous mountain which stands  $\frac{1}{2}$ just north of the point where Paradise Creek enters Bear Lake, at about 610 metres elevation.

During the years 1920 and 1921, Mr. Wells' work mainly involved driving a drift adit for over 90 metres, just below the surface showing. He also did some surface stripping.

Drilling near the Wells property in 1942 intersected 3 metres of 6.5 grams per tonne gold, and one metre of 21.6 grams per tonne gold (George Cross Newsletter Number 108). In 1997 Rupert Resources drilled the down dip extension of the Surf orebody (103H 027). This extension occurs on the Wells property.

A quartz vein containing auriferous pyrite occurs in sheared

quartz diorite of the Coast Plutonic Complex. The vein is 1.2 to 1.5 metres wide for 18.2 metres.

**BIBLIOGRAPHY** 

EMPR AR \*1920-37; 1933-300 EMPR ASS RPT 10071 EMPR BULL 1, 1932, pp. 21,29 EMPR EXPL 1975-E174 GSC MAP 23-1970; 1385A GSC P 70-41

GSC SUM RPT \*1921A, p. 35

DATE CODED: 1986/08/22 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1999/08/13 REVISED BY: JMR FIELD CHECK: N

PAGE:

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 027

NAME(S): SURF INLET, PUGSLEY, SURF, SURF INLET MINE, PUGSLEY MINE, BELMONT-SURF INLET, PRINCESS ROYAL, HOMESTAKE, D.L.S., BLUFF, SADIES CREEK, SEAGULL (L.2097), HOMESTAKE (L.21)

Underground MINING DIVISION: Skeena

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 103H02W

BC MAP:

LATITUDE: 53 05 29 N LONGITUDE: 128 52 56 W

ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Surf Inlet mine (the Pugsley mine is 1700 metres to the south).

COMMODITIES: Gold Silver Molybdenum Copper

Calcite

**MINERALS** 

SIGNIFICANT: Pyrite Chalcocite Chalcopyrite Silver Bornite

Molybdenite Covellite ASSOCIATED: Quartz Ankerite

ALTERATION: Chlorite
ALTERATION TYPE: Sericitic Sericite Chloritic

MINERALIZATION AGE: Upper Cretaceous ISOTOPIC AGE: 80 +/- 1 Ma

DATING METHOD: Potassium/Argon MATERIAL DATED: Whole rock

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Shear **Epigenetic** 

TYPE: I01 Au-quartz veins

SHAPE: Tabular

MODIFIER: Sheared Faulted

DIMENSION: 350 x 300 x 12 Metres STRIKE/DIP: 003/45W TREND/PLUNGE:

COMMENTS: Surf vein; maximum width is 12 metres. Material dated is altered shear zone mineralization from a sericite-altered diorite porphyry

(Assessment Report 15377).

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Mesozoic-Cenozoic Coast Plutonic Complex

LITHOLOGY: Hornblende Gneiss Quartz Diorite Porphyry

Hornblende Biotite Quartz Diorite

Dioritic Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

REPORT ON: Y ORE ZONE: TAILINGS

> YEAR: 1988 CATEGORY: Indicated

QUANTITY: 169500 Tonnes **GRADE** COMMODITY

Gold 1.1310 Grams per tonne

COMMENTS: Calculated reserves of tailings site located at the confluence of

Paradise Creek and Bear Lake. REFERENCE: Assessment Report 17275.

ORE ZONE: PUGSLEY REPORT ON: Y

> CATEGORY: Combined YEAR: 1961

QUANTITY: 47250 Tonnes

COMMODITY Silver

9.5000 Grams per tonne Grams per tonne Gold 11.3400 0.6000 Per cent

Copper COMMENTS: Probable and possible.

REFERENCE: CIM Special Volume 37, page 184 and Northern Miner Jan. 24, 1974.

MINFILE NUMBER: 103H 027

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5882443 EASTING: 507887

NATIONAL MINERAL INVENTORY: 103H2 Au1

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

INVENTORY

ORE ZONE: DUMPS

REPORT ON: Y

CATEGORY: Unclassified QUANTITY: 270000 Tonnes

YEAR: 1986

COMMODITY

GRADE 3.4300 Gra

3.4300 Grams per tonne

COMMENTS: Tonnages range from 270,000 to 360,000 in waste dumps.

REFERENCE: MDAP - Prospectus, Surf Inlet Mines Ltd. 1986.

#### CAPSULE GEOLOGY

The Surf Inlet mine is located on Princess Royal Island near the head of Surf Inlet southeast of Prince Rupert.

The property straddles a deeply entrenched creek; the Surf Inlet group (D.L.S. group and La Cuivre group) of claims lying to the north, and the Pugsley group (Princess Royal and Homestake groups) of

claims lying to the south.

Exploration and development work began in about 1900. The Princess Royal group of 3 claims was owned by Messrs. Wilson, Irving, & Rithet; the Homestake group of 5 claims, adjoining and south of the Princess Royal group was owned by Messrs. McMillan, Howden, Cliff, and Nowell; the D.L.S. group was owned by Messrs. Cleveland and Kelly. Additional claims in the Bluff group were staked in 1901 adjoining the D.L.S. group and were subsequently included in it. The Princess Royal and Homestake groups were bonded to Mr. J. Findlay and Associates in 1902; the Princess Royal claim (Lot 7, R 4) was Crown-granted to Messrs. Wilson and Rithet in 1902. All groups were apparently idle from about 1903 until 1910.

apparently idle from about 1903 until 1910.

Surf Inlet Gold Mines Limited was formed in 1910 to develop the D.L.S. group of 9 claims; however, very little work was done by the company. The Tonopah-Belmont Development Company optioned the property in 1915 and Belmont Canadian Mines Limited was formed to carry on development work. The following year the Princess Royal group was optioned from Princess Royal Gold Mines Limited; this group had previously been held by Princess Royal Island Mining Company

Limited, which was incorporated in June 1911.

Belmont Canadian Mines Limited was reorganized under the name Belmont-Surf Inlet Mines Limited in 1917 with Surf Inlet Mines Limited retaining a 20 per cent interest in the new company. A 270-tonne mill was put into operation in 1917. Development of the Princess Royal group under the option agreement continued until 1921 when the purchase of the property was completed. The company operated continuously until June 1926 when operations were suspended.

Princess Royal Gold Mines Limited, incorporated in May 1933, acquired the Surf Inlet and Pugsley groups and exploration and development work was begun. The old mill was reconditioned to handle 63 tonnes per day. The company name was changed in 1935 to Surf Inlet Consolidated Gold Mines Limited. Operations were continuous until November 1942 when the mine closed for the duration of the war. Work was resumed in April 1946 and suspended again the following December. During the year some 152 metres of underground development work was completed and 2320 metres of diamond drilling was done from the surface.

Underground development work totals some 15,240 metres of drifts, cross-cuts, and raises. During the period 1940-46 some

20,420 metres of diamond drilling were completed.

The company name was changed to Surf Inlet Consolidated lines
Limited in 1955 and to Western Surf Inlet Mines Limited in 1959.

Matachewan Consolidated Mines, Limited acquired the assets of the company in 1966. Reserves on the Pugsley group were estimated in 1961 at 42864 tonnes. In 1981, the occurrence was optioned by Cominco Limited and Placer Development Limited. They diamond drilled 10 holes totalling 1526 metres along a shear zone strike length of 1950 metres; results ruled out a large tonnage low-grade potential. The option was terminated in June 1984 with Matchewan retaining 100 per cent interest in 21 patented Crown leases.

Surf Inlet Mines Limited began work on the property in 1985. Sampling programs, surveys and metallurgical testwork were done to evaluate the tonnage and grade of the stockpiles and tailings on the Surf Inlet property. During 1988 work was begun on rehabilitation of the 900 level of the Surf Mine, in preparation for drill testing. During 1991 the company contracted Rem Exploration to carry out a sampling program of the Surf and Pugsley Mine dumps.

sampling program of the Surf and Pugsley Mine dumps.
In 1997, Rupert Resources Limited drilled the downdip extension of the Surf orebody. This extension occurs on the former Wells

property (103H 026).

Drilling near the Wells property in 1942 intersected 3 metres of 6.5 grams per tonne gold and 1 metre of 21.6 grams per tonne gold (GCNL #108, June 5, 1997).

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

The area is underlain by hornblende-biotite quartz diorite with diorite gneiss bands of the Tertiary-Jurassic Coast Plutonic Complex. A large, complex fault zone, traced for about 4.5 kilometres in a north-south direction, hosts the ore zones of the Surf Inlet and Pugsley mines. In the mine area the fault zone is convex toward the west and consists of several shear zones up to 9 metres thick and 45 to 60 metres apart with average dips of 45 degrees west.

Mineralized quartz veins parallel or subparallel the shear zones. The veins, 30 to 50 metres apart and up to 12 metres wide, contain mainly auriferous pyrite with minor chalcopyrite, silver, chalcocite, bornite, covellite and molybdenite. Gangue minerals include quartz, ankerite and minor calcite. Sericite and chlorite alteration are common near the veins.

Distribution of ore shoots within the veins depends on late-stage fault adjustments and flexures during which veins along certain shear surfaces and zones were fractured and mineralized (Assessment Report 15377).

The Surf Inlet mine veins lie near the east side of a north trending inclusion of hornblende gneiss, which is 300 to 600 metres wide. The veins are up to 300 metres long, 12 metres wide and 350 metres in vertical depth. They appear to fill subsidiary tension fractures, opened by movement along the main shears, resulting in a left-hand offset in which the west or hanging wall moved upward and southward. In 1981, reserves of the 550 level mine dump from the Surf Inlet mine were calculated to be 362,880 tonnes of 2.98 grams per tonne gold (Assessment Report 16092).

A 1.1-metre sample of a quartz vein (Bluff showing) near the 200

A 1.1-metre sample of a quartz vein (Bluff showing) near the 200 level adit area assayed 30.0 grams per tonne gold, 97.7 grams per tonne silver, 0.02 per cent copper and .003 per cent tellurium. A sample of the 200 level adit dump assayed 136.5 grams per tonne gold, 172 grams per tonne silver, 0.021 per cent tellurium and 0.02 per cent molybdenum (Assessment Report 15377). An 80-centimetre sample of a quartz vein on Sadie Creek, at 145 metres elevation, assayed 45.0 grams per tonne gold, 15.1 grams per tonne silver, 1.02 per cent copper and 0.0033 per cent tellurium. A 2.5-metre channel sample of quartz vein and shear in the 900 level adit assayed 14.0 grams per tonne gold, 29.9 grams per tonne silver, 0.234 per cent copper and 0.0018 per cent tellurium. A diamond-drill hole (81-2), 800 metres to the south-southeast, intersected 10.4 grams per tonne gold, 69.7 grams per tonne silver over 60 centimetres. This hole is the sample location for a potassium/argon age date of 80 Ma plus or minus 1 Ma from a mineralized. altered diorite porphyry (Assessment Report

from a mineralized, altered diorite porphyry (Assessment Report The Pugsley mine, 1700 metres south of the Surf mine, occurs mainly in quartz diorite porphyry. The main veins, about 45 metres apart, are up to 500 metres long and 300 metres vertical depth. Proven and probable reserves, estimated in 1961, at the Pugsley mine are 47,250 tonnes grading 0.6 per cent copper, 11.34 grams per tonne gold, and 9.5 grams per tonne silver (CIM Special Volume 37, page 184 and Northern Miner, Jan. 24, 1974).

Reserves of the tailings site located at the confluence of Paradise Creek and Bear Lake were calculated in 1988 to be 169,500 tonnes grading 1.131 grams per tonne gold (Assessment Report 17275). Reserves of the waste dumps range from 270,000 to 360,000 tonnes grading 3.43 grams per tonne gold (MDAP - Prospectus, Surf Inlet Mines Ltd. 1986).

Mining of nearly 1 million tonnes of rock from both mines averaged 13.0 grams per tonne gold, 6.8 grams per tonne silver and 0.31 per cent copper. The mines were in operation from 1915 to 1925 and again from 1935 to 1941.

The Surf One and Surf Two claims are held in good standing until February 28, 2007 by Rupert Resources Limited of Vancouver. Fifteen other claims in the same area on mapsheet 103H02W are held by the same owner until various dates in 2007.

### **BIBLIOGRAPHY**

```
EM FIELDWORK 1999, pp. 319-324; 2000-1-8

EMPR AR 1900-787,788; 1901-992,993; 1902-51-53; 1903-51; *1912-
100-103; 1914-150,151; 1915-69; 1916-435,436; *1917-38-42,372,
373; 1918-45,46; 1919-40,41; 1920-35,37,260-261; 1921-40; 1922-
43; 1923-45; 1924-45; 1925-66,360; 1926-68,69; 1930-70;
1933-41; *1934-B5-6; 1935-25; 1936-57; 1937-B42; 1938-26;
1939-67,68; 1940-53; 1941-54,55; 1942-54; 1943-54; 1946-85

EMPR ASS RPT 5393, 9904, 10071, *15369, *15377, 16092, *17275,
22169

EMPR BC METAL MM00799

EMPR BULL 1 (1932), pp. 21,29; 10, p. 57

EMPR EXPL 1975-174; 1986-C423; 1987-C354; 1997-14

EMPR INDEX 3-215

EMPR MAP 58; 65 (1989)
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EMR MP CORPFILE (Tonopah-Belmont Development Co.; Surf Inlet Gold Mines Ltd.; Belmont-Surf Inlet Mining Co.; Western Surf Inlet Mines Ltd.; Matachewan Consolidated Mines, Limited) GSC EC GEOL 10, pp. 33,37 GSC MAP 23-1970; 278A; 1385A GSC MAP 23-1970; 278A; 1385A GSC P \*70-41, pp. 46-47 GSC SUM RPT \*1912, pp. 63-67; 1921 Part A, pp. 29-35 CANMET IR 617 (No. 190), 1923; 776 (No. 687), 1936 CIM Jubilee \*Vol. 1948, pp. 99-104 GCNL #101, 1988; #184(Sept.24), 1990; #79(Apr.24),#108(June 5), 1997; #158(Aug.17), #177(Sept.15), 2000 N MINER Jan.24, 1974; Nov.2, 1987 V STOCKWATCH Nov.30, 1987 WWW http://www.infomine.com/ Placer Dome File EMPR OF 1998-10

CODED BY: LDJ REVISED BY: LDJ DATE CODED: 1986/08/18 DATE REVISED: 1998/08/05 FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 028

NATIONAL MINERAL INVENTORY: 103H2 Cu1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5890206 EASTING: 520597

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REPORT: RGEN0100

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NAME(S): BUTE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H02E BC MAP:

LATITUDE: 53 09 39 N LONGITUDE: 128 41 31 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Description.

> COMMODITIES: Copper Tungsten Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Hornblende Molybdenite Scheelite Pyrite

ALTERATION: Epidote Garnet Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown Skarn

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L04 Porph Disseminated Epigenetic

Porphyry Cu ± Mo ± Au

SHAPE: Irregular MODIFIER: Sheared

STRIKE/DIP: 005/75E TREND/PLUNGE: DIMENSION: Metres

COMMENTS: Mineralized width up to 60 centimetres.

DOMINANT HOSTROCK: Metaplutonic

IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP **FORMATION** 

LITHOLOGY: Granodiorite

Hornblende Gneiss

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

The showings are situated opposite Butedale on the south side of Butedale Bay, off Fraser Reach, about 144 kilometres south of Prince Rupert.

This property consisted of the Bute and Bute No. 2 claims,

owned in 1930 by A. Land and G. Knutson of Butedale.

In an open cut made in 1930, about 4.5 metres above high-tide mark, a width of about 0.6 metre of rock well mineralized with chalcopyrite was exposed. No tracing back from the shore was done. Veinlets and patches of chalcopyrite and pyrite with minor molybdenite and scheelite occur in slightly sheared hornblende

gneissic bands in granodiorite of the Coast Plutonic Complex. bands strike north and dip 75 degrees east and are altered to epidote, garnet, and quartz. Mineralized widths are about 0.6 metre with estimates of up to 7 per cent copper over 0.3 metre.

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EMPR AR 1930-65,66 EMPR BULL 10, p. 57

EMPR OF 1991-17

GSC EC GEOL Series No. 17, p. 42 GSC MAP 23-1970; 278A; 1385A

GSC P 70-41

DATE CODED: 1986/08/25 DATE REVISED: 1999/08/19 CODED BY: LDJ REVISED BY: JMR FIELD CHECK: N

MINFILE NUMBER: 103H 028

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 029

NATIONAL MINERAL INVENTORY: 103H2 Cu2

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5899484 EASTING: 522132

REPORT: RGEN0100

401

NAME(S): PINK ROSE, BOLTON, COPPER CLIFF, NEW CROWN, LILY, BELLA,

KEY, LAST CHANCE, LAST CHANCE NO. 2,

**BONANZA** 

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103H02E BC MAP:

LATITUDE: 53 14 39 N
LONGITUDE: 128 40 06 W
ELEVATION: 670 Metres
LOCATION ACCURACY: Within 1 KM COMMENTS: Description.

> Gold COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcocite ASSOCIATED: Quartz Bornite Chalcopyrite

Garnet

ALTERATION: Epidote
ALTERATION TYPE: Skarn
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Replacement Disseminated

Skarn Epigenetic

TYPE: K01 Cu skarn SHAPE: Irregular MODIFIER: Folded

DIMENSION: 0030 x 0018 Metres STRIKE/DIP: 120/90 TREND/PLUNGE:

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** 

Paleozoic Undefined Group Unnamed/Unknown Formation Butedale Pluton Cretaceous

LITHOLOGY: Limestone

Chlorite Schist Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) TERRANE: Alexander Plutonic Rocks

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE:

CAPSULE GEOLOGY

The property was formerly known as the Bolton group and was initially located in 1911. It is situated on the north side of Klekane inlet off Graham reach, about 1.6 kilometres from the head of the inlet and at an elevation of 670 metres.

During 1916-1917 the claims were under option to The Granby Consolidated Mining, Smelting and Power Company Limited. After considerable development work Granby relinquished their option.

In 1918, J. Leedy of Seattle, did some prospecting on the group.
In 1922 A. McLeod and Associates purchased the property. At that
time the group consisted of four claims (Copper-Cliff, New Crown, Lily, and Pink Rose) but as the development work continued, the group was expanded and in 1926 consisted of eight claims: Copper-Cliff, New Crown, Bella, Key, Pink Rose, Last Chance, Last Chance No. 2 and Bonanza. During the period 1922-1930 the main development work included stripping) trenching along veins and the driving of an adit for 20 metres through granite and schists, and then drifting 9 metres on the vein.

Chalcocite and bornite occur in altered limestone interbedded with chlorite schist within granodiorite of the Butedale Pluton. The metasediments strike 120 degrees and dip vertically and contain the altered minerals garnet and epidote. The mineralization is traced for 30 metres along strike, 18 metres vertical distance, and 0.5 metres width. Values in gold and silver were reported.

To the east, about 100 metres below the original showing, is

a quartz vein up to 2 metres wide and 150 metres long containing chalcopyrite.

MINFILE NUMBER: 103H 029

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1913-78; 1916-50; 1917-42; 1918-47; 1922-44; 1923-46; 1924-45; 1925-66,67; 1926-70; 1929-69; 1930-66
GSC MAP 23-1970; 278A; 1385A
GSC P 70-41
GSC SUM RPT \*1921A, pp. 38-39

CODED BY: LDJ REVISED BY: JMR FIELD CHECK: N DATE CODED: 1986/08/26 DATE REVISED: 1999/08/18

MINFILE NUMBER: 103H 029

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 030 NATIONAL MINERAL INVENTORY: 103H2 Au2

NAME(S): MALCOLM

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103H02E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 05 19 N

LONGITUDE: 128 34 46 W ELEVATION: 150 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Quartz **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

Au-quartz veins

TYPE: I01 A SHAPE: Regular DIMENSION: 2 STRIKE/DIP: 160/36N TREND/PLUNGE: Metres

COMMENTS: Average width of quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

Cretaceous **Butedale Pluton** 

LITHOLOGY: Biotite Sericite Schist

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

This property is located on the northeastern corner of Princess Royal Island, about 9 kilometres north-northwest of the tip of Swanson Point. The vein itself is situated at an elevation of about 146 metres.

The Malcolm claim was Crown-granted in 1916 to J. Falkner.

Some tunneling was done on the property.
A quartz vein, 1.2 to 3.6 metres wide, occurs in biotitesericite schist within granodiorite of the Butedale Pluton. The vein strikes parallel to the schist 160 degrees, and dips 36 degrees northeast. It is mineralized with abundant pyrrhotite and minor pyrite. Anomalous gold occurs with sulphide mineralization.

**BIBLIOGRAPHY** 

EMPR AR 1916-521 GSC MAP 23-1970; 1385A GSC P 70-41 GSC SUM RPT \*1921A, p. 35

DATE CODED: 1986/08/26 DATE REVISED: 1999/08/20 CODED BY: LDJ REVISED BY: JMR FIELD CHECK: N

MINFILE NUMBER: 103H 030

PAGE:

NORTHING: 5882211

EASTING: 528166

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 031

NATIONAL MINERAL INVENTORY: 103H2 Au5

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5877288

EASTING: 531733

REPORT: RGEN0100

404

NAME(S): MILLBANK, PLATTENBERGER, CRAWFORD, CLAWHAMMER, PIE, GOLDEN ORE,

BIG SLIDE, SLIDE TWO, SUMMIT

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103H02E

BC MAP:

LATITUDE: 53 02 39 N LONGITUDE: 128 31 36 W ELEVATION: 18 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Descriptions.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 101 Au-quartz veins

SHAPE: Regular DIMENSION: 300 x 3 COMMENTS: Quartz vein.

Metres STRIKE/DIP: 170/54E TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Unnamed/Unknown Informal

LITHOLOGY: Sericite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

GRADE: Greenschist METAMORPHIC TYPE: Regional RELATIONSHIP:

CAPSULE GEOLOGY

The showing is located about 3.2 kilometres north of Swanson Bay, at an approximate elevation of 183 metres. The showing was owned by J. Plattenberger, of Swanson Bay, prior to the 1920s. Considerable surface work was done on the showings and a 49-metre

crosscut adit was driven.

In 1923 the showing was restaked by E.H. Crawford as the Millbank Group, consisting of the Millbank, Clawhammer, Pie, Golden Ore, Big Slide, and Slide Two claims. During 1924 the crosscut was extended to a length of about 122 metres, cutting the vein at a depth of 94.5 metres below the surface. The Summit claim was staked, possibly covering in part the Big Slide and Slide Two claims. An auriferous pyritic quartz vein, 1.8 to 3.6 metres wide and traceable for 300 metres, occurs in sericite schist. The vein

strikes 170 degrees and dips 54 degrees northeast.

**BIBLIOGRAPHY** 

EMPR AR 1923-46; 1924-45 GSC MAP 23-1970; 1385A GSC P 70-41 GSC SUM RPT 1921A, p. 35

CODED BY: LDJ REVISED BY: JMR DATE CODED: 1986/08/26 FIELD CHECK: N DATE REVISED: 1999/08/23 FIELD CHECK: N

MINFILE NUMBER: 103H 031

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 032

NATIONAL MINERAL INVENTORY: 103H1 Pb1,103H2Pb1

PAGE:

REPORT: RGEN0100

405

NAME(S): **SWANSON BAY** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H01W 103H02E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 00 39 N NORTHING: 5873593 EASTING: 533621

LONGITUDE: 128 29 56 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 1 KM COMMENTS: Description.

> COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite Pyrrhotite Sphalerite Chalcopyrite

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Concordant

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Faulted

STRIKE/DIP: 150/70N TREND/PLUNGE: DIMENSION: Metres

COMMENTS: Schistosity.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Unnamed/Unknown Informal

LITHOLOGY: Mica Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexandér METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

CAPSULE GEOLOGY

The occurrence lies approximately 800 metres south of Swanson Bay, on the southwest side of a creek which flow northwest into Swanson Bay.

In 1918, ownership of these claims belonged to J. C. McNichols of Swanson Bay, and associates. A small amount of rock trenching was done by the owners that year.

Quartz stringers containing pyrite and minor galena occur in silicified micaceous schist. The mineralized zone lies in a faulted zone parallel to the schistosity which strikes 150 degrees and dips 65 to 75 degrees northeast. Microscopic minerals include

pyrrhotite, sphalerite, and chalcopyrite.

**BIBLIOGRAPHY** 

EMPR AR 1917-42; 1918-47 GSC MAP 23-1970; 1385A GSC P 70-41 GSC SUM RPT 1921A, p. 40

DATE CODED: 1986/08/26 CODED BY: LDJ FIELD CHECK: N REVISED BY: JMR DATE REVISED: 1999/08/20 FIELD CHECK: N

MINFILE NUMBER: 103H 032

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 033 NATIONAL MINERAL INVENTORY: 103H1 Cu1

NAME(S): WESTERN COPPER, KHUTZE RIVER, MARTIN & SHANNON

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103H01W BC MAP:

LATITUDE: 53 05 49 N

LONGITUDE: 128 20 06 W ELEVATION: 600 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions.

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Chalcocite Covellite Pyrite

Feldspar MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Massive

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: I01 A SHAPE: Irregular Au-quartz veins

MODIFIER: Sheared
DIMENSION: 1200 x 0002
COMMENTS: Quartz vein. STRIKE/DIP: 070/25S TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: LENS REPORT ON: N

> CATEGORY: YEAR: 1932 Assay/analysis

SAMPLE TYPE: Rock **GRADE** COMMODITY

Silver 212.6000 Grams per tonne Gold 5.5000 Grams per tonne 15.5000 Copper Per cent

COMMENTS: The sample width is 60 centimetres.

REFERENCE: Bulletin 1, pages 37,38.

**CAPSULE GEOLOGY** 

A quartz-feldspar vein, striking 070 degrees and dipping 20 to 30 degrees south, along a narrow shear zone, occurs in grano-diorite of the Coast Plutonic Complex. The vein is up to 2 metres

wide and is traced for 1200 metres.

wide and is traced for 1200 metres.

Mineralization occurs as isolated lenses of massive and disseminated pyrite, chalcopyrite, chalcocite, and covellite. The largest lens measures 10 metres long and 1.5 metres wide of which a 60 centimetre sample assayed 15.5 per cent copper, 212.6 grams per tonne silver, and 5.5 grams per tonne gold (Bulletin 1).

Recorded production for 1928 and 1928 from 215 tonnes mined was

5,319 grams of gold, 45,193 grams of silver and 30,812 kilograms

copper.

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\*1928-67,68; 1929-72; 1930-64; 1931-35; 1932-48

EMPR ASS RPT 15886 EMPR BULL \*1, 1932, pp. 37-38

EMPR EXPL 1987-C354

MINFILE NUMBER: 103H 033

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5883262

**EASTING: 544528** 

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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GSC P \*70-41, p. 47
GSC SUM RPT 1921A, p. 40

DATE CODED: 1986/08/26 DATE REVISED: 1989/08/06 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 033

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REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 034

NATIONAL MINERAL INVENTORY: 103H1 Au1

PAGE:

NORTHING: 5894047

EASTING: 541087

REPORT: RGEN0100

408

NAME(S): **HUNTER**, GRIZZLY, BEAR HEATHER, CRAIG, RUBY 1-7, JUBILEE 1-8, BEE FRACTION, JAY FRACTION,

MAIN, PARALLEL, CROSS, BURNT TREE, NO. 4, RIVER, HUNTER GROUP

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103H01W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: LONGITUDE: 128 23 06 W

ELEVATION: 690 Metres
LOCATION ACCURACY: Within 500M Metres

COMMENTS: Main vein; the River vein is 1400 metres northeast.

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Gold Tetradymite ASSOCIATED: Quartz Ankerite Orthoclase

ALTERATION: Pyrite Chlorite Sericite ALTERATION TYPE: Chloritic Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I01 Au-qu **Epigenetic** 

Au-quartz veins

SHAPE: Tabular

MODIFIER: Fractured DIMENSION: 130 x 70 Metres STRIKE/DIP: 021/55E TREND/PLUNGE: 210/35

COMMENTS: Main vein

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Unnamed/Unknown Group Unnamed/Unknown Formation

Mesozoic-Cenozoic Coast Plutonic Complex

LITHOLOGY: Granitic Gneiss

Biotite Quartz Dioritic Gneiss

Peamatite Dike Felsic Dike Aplite Dike Meta Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline
TERRANE: Undivided Metamorphic Assembl. PHYSIOGRAPHIC AREA: Kitimat Ranges

Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

REPORT ON: Y ORE ZONE: HUNTER

> YEAR: 1980 CATEGORY: Unclassified

QUANTITY: 94338 Tonnes **GRADE** COMMODITY

Gold 12.0000 Grams per tonne

COMMENTS: Diluted to a 1.2-metre mining width.
REFERENCE: George Cross News Letter #114 (June 13), 1984.

CAPSULE GEOLOGY

The property is located on the Khutze River about 19 kilometres from the head of Khutze Inlet, some 95 kilometres south of Kitimat. The initial discovery, on the east side of the river, was staked in 1927. Further discoveries were made in 1929 and 1930 on the west side of the river between elevations of 365 and 838 metres. C.W. Meldrum and Associates of Vancouver, optioned the property late in the 1930 season. Trenching and sampling was reported on the Hunter, Grizzly, Bear, Heather, and Craig claims in the following years, and a 3-tonne shipment of ore was made in 1933 from surface outcrops, from which 373 grams of silver, 933 grams of gold, and 40 kilograms

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

of copper were recovered.

In 1939 owners G.M. Meldrum and J.G. Campbell optioned the property to P.W. Racey and Associates of Seattle, and work continued into 1941. The workings at that time included a 143.5-metre long adit on the Main vein, and a 45-metre long inclined shaft, with 54.5 metres of drifts on the River Vein. The ground was restaked as the Ruby 1-7, Jubilee 1-8, Bee Fraction, and Jay Fraction (Lots 2977-2993) and these claims were Crown-granted in 1949 to Campbell and Associates.

In 1980 the property was owned by J.M. and K.D. Meldrum. A project of geological mapping, trenching, and sampling was carried out by Dejour Mines Limited. The consulting firm of Derry, Mitchener and Booth sampled underground in 1980 and estimated reserves at 94,338 tonnes grading 12 grams per tonne gold, diluted to a 1.2-metre mining width (George Cross News Letter June 13, 1984).

Associate companies Arnhem Resources Incorporated and Enfield Resources Incorporated acquired a 50-50 option on the property in 1982; the Enfield interest was transferred to Arnhem in July 1983. Work by Arnhem that year included geological mapping and a geochemical soil, silt and rock survey (217 samples). The Crown-grants were overstaked as the Hunter 1-4 claims.

Du-well Resources Limited optioned the property in 1984 and carried out geological mapping, a geochemical soil survey (86 samples) and 735 metres of diamond drilling in seven holes; the option was terminated.

Biotite granitoid gneiss occurs as part of a northwest trending roof pendant of metavolcanics, between cupolas of a granitic pluton consisting of biotite quartz diorite gneiss belonging to the Tertiary-Jurassic Coast Plutonic Complex. The rocks are cut by numerous pegmatite, aplite and felsic dikes.

Six gold-bearing, quartz-pyrite veins lie primarily within the roof pendant of metavolcanics of which the best exposed are the Main and River veins. Mineralization consists of pyrite, chalcopyrite, gold and tetradymite with ankerite and orthoclase gangue. Chloritic and sericitic alteration are associated with the veins.

The Main vein, at 690 metres elevation, cuts across all rocks and has been exposed along surface for 130 metres and to a vertical depth of 70 metres by underground workings. The vein has a 021 degree strike, dips of 30 to 80 degrees east and an average width of 23 centimetres. Six samples taken across this width over a 17.4 metre length averaged 35.35 grams per tonne gold and 87.1 grams per tonne silver (Assessment Report 13398). An ore shoot within the Main vein has an apparent plunge of 035 degrees towards 210 degrees.

Quartz veins intermittently exposed 200 to 500 metres northeast of the Main vein include the Parallel veins, 15 centimetres wide and 0.3 metre apart with moderate southeast dips, and the Cross Vein, striking 165 degrees for 200 metres and up to 40 centimetres wide. The Burnt Tree vein and No. 4 vein, about 500 metres apart, lie 600 metres east of the Main vein. The No. 4 vein occurs in a 1-metre wide, 050 degree striking fault zone.

The River vein, 1400 metres northeast of the Main vein and 300 metres elevation, occurs within all rock types and partly within a quartz-orthoclase pegmatite dike. The vein strikes 020 to 035 degrees for 150 metres and dips 55 to 70 degrees east for a known 42 metres downdip. The vein is commonly 8 to 20 centimetres thick and 6 samples along a 12.5-metre length averaged 67.0 grams per tonne gold, 32.57 grams per tonne silver and 0.67 per cent copper over an average width of 0.19 metre (Assessment Report 11937)

width of 0.19 metre (Assessment Report 11937).

The No. 2 vein, 50 metres west of the River vein, is in excess of 43 metres within a narrow pegmatite dike striking 032 degrees and dipping 80 degrees east in biotite gneiss.

Unclassified reserves for the Hunter property are 94,338 tonnes

Unclassified reserves for the Hunter property are 94,338 tonnes grading 12 grams per tonne gold, diluted to a 1.2 metre mining width (George Cross News Letter June 13, 1984).

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EMPR ASS RPT \*11937, \*13398

EMPR BC METAL MM00753

EMPR BULL \*1 (1932), pp. 34-37

EMPR EXPL 1980-388; 1983-501; 1984-373

EMPR INDEX 3-200

EMPR MAP 58; 65 (1989)

EMPR OF 1992-1

EMPR PF (\*Reports by Parrish, 1980; Fawley, 1963; Warren and Cummings, 1936; Dolmage, 1931)

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PAGE:

REPORT: RGEN0100

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GCNL #249, 1982; #27,#28, 1983; Apr.30, #83,#114,#137, 1984
IPDM Jan./Feb., 1983; Aug./Sept., Nov./Dec., 1984
N MINER Feb.24, 1983; Sept.13, 1984

DATE CODED: 1986/08/27 DATE REVISED: 1999/08/24 CODED BY: LDJ REVISED BY: JMR FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103H 034

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 035

NATIONAL MINERAL INVENTORY: 103H8 Cu1

NAME(S): PAYROLL, HIGH TIDE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103H08W BC MAP: LATITUDE: 53 19 57 N

NORTHING: 5909380 EASTING: 533889

PAGE:

REPORT: RGEN0100

411

LONGITUDE: 128 29 28 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Symbol #12 on Geological Survey of Canada Map 23-1970.

COMMODITIES: Copper Graphite

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite COMMENTS: Trace gold and silver. ASSOCIATED: Quartz Chalcopyrite Graphite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal SHAPE: Regular **Epigenetic** Industrial Min.

DIMENSION: 0003 STRIKE/DIP: 165/90 TREND/PLUNGE: Metres

COMMENTS: A 3.0 metre wide quartz vein.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

Paleozoic

LITHOLOGY: Hornblende Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YEAR: 1929 Assay/analysis

**GRADE** COMMODITY

Per cent Copper 0.2000

COMMENTS: The sample also contains trace gold and silver; sample width is

3 metres.

REFERENCE: Minister of Mines, Annual Report 1929, page 69.

**CAPSULE GEOLOGY** 

A 3 metre wide quartz vein, trending 165 degrees and dipping near vertical, mineralized with pyrrhotite, pyrite, and minor chalcopyrite, occurs in hornblende schist. A 3 metre sample assayed 0.2 per cent copper and trace gold and silver (Minister of Mines, Annual

Report 1929).

One hundred fifty metres above the vein, a 3 to 4.5 metre wide

graphite horizon lies concordant with the schists.

**BIBLIOGRAPHY** 

EMPR AR \*1920-38; 1921-40; 1922-45; \*1929-69

GSC MAP 23-1970; 1385A

GSC P \*70-41, p. 49

DATE CODED: 1986/08/27 DATE REVISED: 1989/08/14 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 036

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5957131

**EASTING: 475535** 

REPORT: RGEN0100

412

NAME(S): STEELHEAD, HORSEFLY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H14W BC MAP:

LATITUDE: 53 45 44 N LONGITUDE: 129 22 16 W ELEVATION: 1070 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample location, Map 2 (Assessment Report 15491). See also Packsack (103H 013) and Horsefly (103H 014).

COMMODITIES: Copper 7inc Silver

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite

ASSOCIATED: Quartz

ALTERATION: Sericite
ALTERATION TYPE: Sericitic Chlorite Chloritic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound

CLASSIFICATION: Volcanogenic

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP
Paleozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Central Gneiss Complex

LITHOLOGY: Pyrite Quartz Sericite Schist

Chlorite Schist Sericite Schist Quartz Sericite Schist Andesite

Tuff Greywacke Siltstone Argillite

HOSTROCK COMMENTS: Hosted by the Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl.
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1986 Assav/analvsis

SAMPLE TYPE: Rock **COMMODITY GRADE** 

Silver 5.8000 Grams per tonne Copper 0.3000 Per cent

Zinc 3.8000 Per cent COMMENTS: These are the best assays obtained from a pyritic horizon.

REFERENCE: Assessment Report 15491.

CAPSULE GEOLOGY

The north-northwest trending Ecstall Pendant, a metasedimentary-metavolcanic belt within the Central Gneiss Complex, is flanked by

granodiorite of the Coast Range Intrusive Complex.

The Steelhead showing, about 12 kilometres from tidewater on Douglas Channel, is underlain by intercalated felsic and intermediate volcanics and fine clastic sediments. The rocks include sericite schist, quartz sericite schist, pyritic quartz sericite schist, chlorite schist, andesite, tuff, greywacke, siltstone, and argillite. Pyrite, sphalerite, and chalcopyrite occur in the pyritic quartz sericite schist. Sampling of a pyritic horizon gave assays up to 0.3 per cent copper, 3.8 per cent zinc, and 5.8 grams per tonne silver

(Assessment Report 15491).

MINFILE NUMBER: 103H 036 RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

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#### **CAPSULE GEOLOGY**

In 1995, Atna Resources Ltd., under joint venture with Ecstall Mining Corporation, conducted an electromagnetic survey and diamond drilling (1075 metres in 8 holes) on the Horsefly (103H 014) and Steelhead showings. See also Packsack (103H 013).

### **BIBLIOGRAPHY**

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001, pp. 151-170 EMPR ASS RPT \*15306, \*15491, 24368 EMPR EXPL 1986-C425; 1987-C356 EMPR INF CIRC 1995-19, p. 25; 1996-1, p. 25 EMPR OF 1999-2; 2002-03 EMPR PF (Ecstall Mining Corp., Prospectus, May 1989 in 103H 013) GSC MAP 23-1970; 1385A, 1868A GSC P 70-41 GCNL #51(Mar.13) #66, #127(Jul.3), 1990; #190(Oct.3), #200 (Oct.18), #217(Nov.10), 1995 N MINER June 5, 1995 WWW http://www.ecstall.com

DATE CODED: 1987/07/22 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/12 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 036

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 037

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5896992

EASTING: 442949

REPORT: RGEN0100

414

NAME(S): CAL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H04W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 13 09 N LONGITUDE: 129 51 16 W ELEVATION: 50 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Skarn (Assessment Report 14296).

COMMODITIES: Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Epidote ALTERATION TYPE: Skarn Pyrrhotite Sphalerite **Garnet** Quartz

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Skarn TYPE: K02 Replacement

Pb-Zn skarn SHAPE: Irregular

DIMENSION: 0200 x 0050 STRIKE/DIP: TREND/PLUNGE: Metres

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Limestone

Granodiorite

HOSTROCK COMMENTS: Includes plutons of Tertiary age. Limy metasediments occur as pendant

within granodiorite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat TERRANE: Alexandér Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YFAR: 1985 Assay/analysis

COMMODITY **GRADE** 

Gold Copper 0.2160 Grams per tonne 1.0000 Per cent

COMMENTS: The reference states "Over 1 per cent copper".

REFERENCE: Assessment Report 14296.

**CAPSULE GEOLOGY** 

A skarn body, trending irregularly northward and measuring 200 by 50 metres, occurs within limy metasediments as a pendant in granodioritic rock. Mineralization consists of disseminated pyrite, pyrrhotite, and sphalerite. A sample assayed over 1 per cent copper and 0.216 gramma per tenne cold (Managament Penert 14226)

and 0.216 grams per tonne gold (Assessment Report 14296).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*14296 GSC MAP 23-1970; 1385A GSC P 70-41

DATE CODED: 1986/08/12 DATE REVISED: 1989/08/06 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

> MINFILE NUMBER: 103H 037

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 038

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

MINFILE NUMBER:

103H 038

REPORT: RGEN0100

415

NAME(S): LIMESTONE BAY, DESPAIR POINT, BANKS ISLAND

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H05W BC MAP:

LATITUDE: 53 26 30 N NORTHING: 5921850 EASTING: 435035

LONGITUDE: 129 58 41 W ELEVATION: 7 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on Despair Point on the northeast coast of Banks

Island as shown on NTS topographic map 103H/05W.

**Building Stone** COMMODITIES: Limestone Marble Dolomite

**MINERALS** 

SIGNIFICANT: Calcite Pyrrhotite ASSOCIATED: Quartz Dolomite

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Stratabound Massive CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R09 SHAPE: Tabular Limestone R10 Dolomite

STRIKE/DIP: 100/90 DIMENSION: 1200 x 300 Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Coast Plutonic Complex

LITHOLOGY: Limestone

Dolomite **Gneissic Diorite** Migmatite Quartz Diorite Quartzite Schist

HOSTROCK COMMENTS: Situated within a metasedimentary roof pendant in the Coast Plutonic

Complex.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TECTONIC BELT: Coast Crystalline TERRANE: Alexander METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1944 Assay/analysis SAMPLE TYPE: Chip

COMMODITY

94.2400 Per cent Limestone

COMMENTS: Chip sample over 15.2 metres, equivalent to 52.8 per cent CaO. REFERENCE: Canmet Report 811, Part 5, page 176.

**CAPSULE GEOLOGY** 

A 240 to 300 metre wide band of limestone outcrops on Despair Point on the northeast coast of Banks Island and continues southeastward for 1.2 kilometers. The band contacts gneissic diorite and migmatite to the northwest and quartz diorite to the west. The limestone strikes 100 degrees and dips vertically. It is occasionally split into two bands by pyrrhotized quartzite and banded silicified schist fied schist.

The deposit is comprised mostly of white, coarse-grained limestone and minor grey, medium-grained limestone with irregular interbeds and masses of dolomite. A 15.2 metre chip sample taken across light grey limestone on the northeast side of the deposit contained 52.80% CaO, 0.85% MgO, 1.66% SiO2, 0.53% Al2O3, 0.20% Fe2O3 and 0.03% sulphur, while a sample taken across a 4.6 metre thick bed

of coarse-grained white dolomite near the southwestern edge of the

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RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

deposit contained 31.72% CaO, 20.62% MgO, 0.78% SiO2, 0.15% Al2O3, 0.08% Fe2O3 and nil sulphur (Canmet Report 811, page 176 - Samples 35 and 35A).

**BIBLIOGRAPHY** 

EMPR AR \*1930-68 EMPR ASS RPT 12346 GSC MAP 23-1970; 1385A GSC P 70-41

CANMET RPT \*452, Vol. 5, pp. 172,173; \*811, Part 5, 1944,

pp. 173,176

DATE CODED: 1986/08/01 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/07/28 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103H 038

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 039

NATIONAL MINERAL INVENTORY:

NAME(S): BANKS ISLAND (L.2224)

STATUS: Showing REGIONS: British Columbia NTS MAP: 103H05W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

417

LATITUDE: 53 23 58 N

NORTHING: 5917100 EASTING: 438886

TREND/PLUNGE:

LONGITUDE: 129 55 09 W ELEVATION: 3 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location is centre of Lot 2224, on the northeast coast of Banks Island

as shown on NTS topographic map 103H/05W.

COMMODITIES: Limestone Dolomite

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Dolomite MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Stratabound Massive CLASSIFICATION: Sedimentary TYPE: R09 Limes Industrial Min.

Limestone

SHAPE: Tabular DIMENSION: 0200 Metres

STRIKE/DIP: 135/90 COMMENTS: Limestone band 200 metres wide strikes at 130 to 140 degrees and dips

steeply.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Limestone

Dolomite Schist Quartz Diorite

HOSTROCK COMMENTS: Situated in a metasedimentary roof pendant within the Coast Plutonic

Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1944 Assay/analysis

SAMPLE TYPE: Chip

**COMMODITY** 97.3800 Per cent

Limestone COMMENTS: Chip sample across 30 metres, equivalent to 54.56 per cent CaO.

REFERENCE: Canmet Report 811, Part 5, page 173.

CAPSULE GEOLOGY

A 180 metre thick steeply dipping bed of limestone striking 130 to 140 degrees outcrops on Lot 2224 on the north coast of Banks Island, 12 kilometres northwest of Keecha Point. The limestone lies within quartz diorite of the Coast Plutonic Complex. It contains interbeds of schist that become numerous towards the edges of the deposit.

The bed consists of erratically intermingled white high calcium limestone and dolomite. The dolomite occurs as thin beds to large lenses that become more frequent near the margins of the bed. A chip sample taken across 30 metres of high calcium limestone contained 54.56% CaO, 0.72% MgO, 0.24% SiO2, 0.18% Al2O3, 0.07% Fe2O3 and nil sulphur, while a sample across a 9 metre thick dolomite lens assayed 31.84% CaO, 20.77% MgO, 0.24% SiO2, 0.08% Al2O3, 0.23% Fe2O3 and a trace of sulphur (Canmet Report 811, p.176, Samples 34 and 34A).

**BIBLIOGRAPHY** 

GSC MAP 23-1970; 1385A

MINFILE NUMBER: 103H 039

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 70-41, p. 20 CANMET RPT 452, Vol.5, pp. 172,173; \*811, Part 5, 1944, pp. 173,176

DATE CODED: 1986/08/01 DATE REVISED: 1989/07/28 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103H 039

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REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 040

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5971517

EASTING: 560137

REPORT: RGEN0100

419

NAME(S): ATNA PEAK, ATNA ANDALUSITE, ATAN PEAK

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H16E BC MAP: LATITUDE: 53 53 19 N

LONGITUDE: 128 05 06 W ELEVATION: 1500 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Coordinates for centre of zone southwest of Atna Peak (Area 5, Fig. 10,

Open File 1988-26).

COMMODITIES: Andalusite

**MINERALS** 

SIGNIFICANT: Andalusite

**Biotite** 

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered Stratabound

CLASSIFICATION: Metamorphic TYPE: P01 Anda Industrial Min. Syngenetic

Andalusite hornfels

SHAPE: Tabular MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Central Gneiss Complex

LITHOLOGY: Quartz Biotite Schist

Meta Sediment/Sedimentary

HOSTROCK COMMENTS: Permian (?) and older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Kitimat Ranges

Undivided Metamorphic Assembl.

METAMORPHIC TYPE: Contact Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The Atna Peak area is underlain by Permian (?) and older metasediments which are part of the Central Gneiss Complex. And alusite is present near Atna Peak within quartz-biotite schists adjacent to intrusive rocks (Open File 1988-26, Figure 10). Locally, the andalusite forms porphyroblasts which range up to 10 centimetres in length and

comprises a major constituent of the schists (Evenchick, 1979).

**BIBLIOGRAPHY** 

EMPR OF \*1988-26, p. 15

GSC MAP 23-1970 GSC P 70-41

Evenchick, C.A., (1979): \*Stratigraphy, Structure and Metamorphism of the Atna Peak area, British Columbia, unpublished B.Sc. Thesis, Carleton University, Ottawa, Ontario, 54 pgs.

DATE CODED: 1988/03/28 DATE REVISED: 1989/01/31 FIELD CHECK: N CODED BY: CODED BY: JP REVISED BY: LLD

MINFILE NUMBER: 103H 040

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 041

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5874980

EASTING: 471792

REPORT: RGEN0100

420

NAME(S): **CAMPANIA ISLAND**, QUARTZ DOME

STATUS: Developed Prospect REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

NTS MAP: 103H03W BC MAP: LATITUDE: 53 01 25 N

LONGITUDE: 129 25 14 W ELEVATION: 25 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Deposit located about 0.5 kilometre from the west shore of Campania

Island in Hectate Strait (Open File 1987-15, Figure 28).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Silica ASSOCIATED: Muscovite COMMENTS: Minor muscovite. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: IO7 Silica Stockwork

Industrial Min. Epigenetic

Silica veins

DIMENSION: 105 x 35 COMMENTS: Quartz Dome vein. Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Granite

Quartz Diorite

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Ŕocks

INVENTORY

ORE ZONE: QUARTZ DOME REPORT ON: Y

> CATEGORY: YEAR: 1975 Inferred

> QUANTITY: 270000 Tonnes **GRADE** COMMODITY

98.0000 Per cent Silica

COMMENTS: Estimated open pit reserves at about 98 per cent silica (SiO2). REFERENCE: Open File 1987-15, page 33.

**CAPSULE GEOLOGY** 

Campania Island is underlain by granitic rocks of the Jurassic to Tertiary Coast Plutonic Complex. In the vicinity of the silica occurrence the rocks are comprised mainly of medium to coarse-grained granites and quartz diorites that are generally well-jointed in an east-west direction.

Three showings comprise the silica occurrence. The central and main outcrop is referred to as the Quartz Dome. It measures approximately 105 by 35 metres and consists of a vein of coarse anhedral Impurities consist of minor muscovite and very milky white quartz. local rusty stains along fractures. Two chip samples from the vein, collected in 1982 by the Geological Survey Branch, assayed 99.73 and 99.84 per cent silica (Open File 1987-15, page 33). Three outcrops aligned north-south occur 160 metres east of the Quartz Dome. The two northern outcrops contain only narrow quartz-stockwork veining, but a quartz vein with an outcrop area of 10 by 31 metres cuts the southern outcrop. The third showing lies 70 metres west of the Quartz Dome and consists of an outcrop cut by quartz stockwork veindards. ing. Open-pit reserves of the Quartz Dome were estimated in 1975 at more than 270,000 tonnes at about 98 per cent silica (Open File 1987-15, page 33).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*17559
EMPR FIELDWORK 1982, p. 198
EMPR OF \*1987-15, pp. 32,33
EMPR PF (\*McDougall, J.J., (1961): Preliminary Report on Campania Silica, Campania Island; \*Allen, A.R., (1963): Report on the Campania Island Silica Deposits, British Columbia)
GSC MAP 23-1970; 1385A
GSC P 70-41, p. 40
Falconbridge File

CODED BY: LDJ REVISED BY: LLD DATE CODED: 1986/08/01 DATE REVISED: 1989/02/01 FIELD CHECK: N FIELD CHECK: Y

MINFILE NUMBER: 103H 041

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 042

NATIONAL MINERAL INVENTORY:

NAME(S): BUSHY CREEK, KEECH

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

422

NTS MAP: 103H05W BC MAP: LATITUDE: 53 18 29 N LONGITUDE: 129 58 26 W

NORTHING: 5906982 EASTING: 435109

ELEVATION: 150 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone (Assessment Report 15301). Several showings occur in

the Bushy Creek area, which is located near the northwestern tip of

Keecha Lake.

COMMODITIES: Gold

Zinc Copper

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Chalcopyrite Pyrrhotite Galena

Molybdenite ASSOCIATED: Quartz

ALTERATION: Sericite Chlorite

ALTERATION TYPE: Sericitic Chloritic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Epigenetic Hydrothermal

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 343/75E TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Paleozoic-Mesozoic FORMATION IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex

LITHOLOGY: Biotite Quartz Monzonite

Granite

HOSTROCK COMMENTS: Includes Tertiary plutons. Veins are hosted by "Kim" quartz monzonite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1987 SAMPLE TYPE: Channel

COMMODITY GRADE
Gold 21.9700

Gold 21.9700 Grams per tonne

COMMENTS: Sample #74901 over 1.5 metres. REFERENCE: Assessment Report 16707.

**CAPSULE GEOLOGY** 

The Bushy Creek showing is located north of the Keecha Creek showing (103H 010) near the northwestern tip of Keecha Lake on Banks Island.

Mineralized quartz veins and sericite-chlorite alteration zones occur over a 75 metre distance within the "Kim" biotite quartz monzonite of the Coast Plutonic Complex. The "Kim" quartz monzonite hosts the Vellow Giant deposit to the porth (1036, 021-024)

the Yellow Giant deposit to the north (103G 021-024).

The parallel veins, ranging from 0.2 to 1.2 metres in width, strike 343 degrees and dip 75 degrees northeast. The veins contain varying amounts of pyrite, sphalerite, and chalcopyrite with associated gold values. Minor disseminated pyrrhotite, galena and molybdenite occur in the alteration zones.

In 1987 a channel sample over 1.5 metres from a newly discovered vein assayed 21.97 grams per tonne gold (Assessment Report 16707, Sample #74901). Drilling on a different vein in 1986 resulted in a best assay of 81.6 grams per tonne gold over a 76 centimetre intersection (Assessment Report 15301).

**BIBLIOGRAPHY** 

EMPR ASS RPT 13071, \*15301, \*16707, \*17180

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR EXPL 1986-C424 GSC MAP 23-1970; 1385A GSC P 70-41

DATE CODED: 1987/02/09 DATE REVISED: 1989/08/04 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103H 042

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 043

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5879197 EASTING: 469397

REPORT: RGEN0100

424

NAME(S): **CAMPANIA IS. MICA** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H03W BC MAP:

LATITUDE: 53 03 41 N
LONGITUDE: 129 27 24 W
ELEVATION: 10 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Description. Pre 1986 103H-G043.

COMMODITIES: Mica

**MINERALS** 

SIGNIFICANT: Mica MINERALIZATION AGE: Unknown

**DEPOSIT** 

Industrial Min.

CHARACTER: Vein
CLASSIFICATION: Pegmatite Inc
TYPE: O03 Muscovite pegmatite

SHAPE: Irregular DIMENSION: 0020 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Average length of pegmatite bands.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER
Coast Plutonic Complex **FORMATION** 

Lower Cretaceous
ISOTOPIC AGE: 115 +/- 6 Ma
DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Biotite Quartz Monzonite

Granodiorite Peamatite

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TECTONIC BELT: Coast Crystalline
TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The core of Campania Island consists of clean, massive medium to coarse-grained biotite quartz monzonite of the Coast Plutonic Complex. To the west of a northwest trending fault is granodiorite. Mica, resembling coarse muscovite crystals, occurs in 15 to 60 centimetre wide bands of coarse pegmatite within the quartz monzonite. These bands are irregular and discontinuous and are 7 to 30 metres in extent. Belts and streaky zones of fine crystalline mica, up to 100 metres length, are widely distributed in finer-textured

pegmatites.

The coarser-grained mica constitutes about 10 to 25 per cent of the bands and the finer mica composes 25 to 50 per cent of the

zones.

**BIBLIOGRAPHY** 

EMPR AR \*1930-67,68 GSC MAP 23-1970; 1385A GSC P \*70-41, p. 40

DATE CODED: 1986/08/01 DATE REVISED: 1989/08/03 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIFLD CHECK: N

MINFILE NUMBER: 103H 043

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5964088

EASTING: 440645

IGNEOUS/METAMORPHIC/OTHER

425

Open Pit

MINFILE NUMBER: 103H 044

NATIONAL MINERAL INVENTORY:

NAME(S): BAKER INLET, MICA MAID, MICA BOY, SERICITE, BAKER MICA, BAKA-MICA

STATUS: Past Producer

REGIONS: British Columbia NTS MAP: 103H13W

BC MAP: LATITUDE:

LONGITUDE: 129 54 06 W ELEVATION: 120 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on north side of Baker Inlet, 60 kilometres south-southeast of Prince Rupert (Minister of Mines Annual Report 1934).

COMMODITIES: Mica

**MINERALS** 

SIGNIFICANT: Mica

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Pegmatite TYPE: 003 M Industrial Min.

Muscovite pegmatite

SHAPE: Irregular

DIMENSION: 3 x 1 Metres STF COMMENTS: Pockets and lenses of good grade mica in pegmatitc zone. STRIKE/DIP: 360/17W TREND/PLUNGE:

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Paleozoic

Coast Plutonic Complex

FORMATION

LITHOLOGY: Mica Schist

Pegmatite Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexandér METAMORPHIC TYPE: Regional RFI ATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

A small amount of mica was mined from the north shore of Baker Inlet, east of Grenville Channel, 60 kilometres south-southeast of Prince Rupert.

A belt of metasediments of the Alexander Terrane, up to 1 kilometre wide, extends southeast from Telegraph Passage along the east side of Grenville Channel for 60 kilometres. The belt is locally intruded and bounded to the northeast by quartz monzonites of

the Coast Plutonic Complex.

A pegmatitic zone outcrops along a bluff at 88 metres elevation, 300 metres north of Baker Inlet, within northwest trending mica schists. The zone strikes north, dips 17 degrees west and has been traced along strike for 60 metres. Trenching has uncovered pockets and lenses of good grade mica within the pegmatite up to 3 metres long and 1.5 metres wide. Pulverizing tests carried out by ore testing labs in Ottawa are as follows (Minister of Mines Annual Report 1934, page B10):

Size	Per cent of	Mica grade
fraction	raw feed	(per cent)
+100 mesh	77	99
-100 to $+200$	88	99
-200 mesh	68	80

A second deposit of mica outcrops in the vicinity, at 120 metres elevation, 180 metres from Baker Inlet. A micaceous zone in altered mica schists has been traced for 200 metres and contains 10 to 90 per cent sericite across widths of 0.6 to 2.1 metres (Minister of Mines Annual Report 1940, page 99). In 1940, 73 tonnes of crude sericite mica were shipped from this deposit by P.M. Ray to Fairey & Company in Vancouver. About 71 tonnes was also shipped in 1941.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1932-50; 1933-45; \*1934-B10; \*1940-99; 1941-93-94; 1947-A220

J947-AZZU

EMPR PF (Synopsis-description of Mica deposit, Baker Inlet, by J.T. Mandy, 1937; Spectrographic analysis of Baker Inlet Mica, May, 1939; Analysis of Baker Inlet Mica, July 1939)

GSC MAP 23-1970; 1385A, 1868A

GSC P 70-41

Mits Development Co. Ltd., June, 1978 Report (source unavailable)

CODED BY: LDJ REVISED BY: PSF DATE CODED: 1986/08/01 DATE REVISED: 1991/06/12 FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103H 044

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 045

NATIONAL MINERAL INVENTORY:

NAME(S): INDEPENDENCE, SURF INLET

STATUS: Showing REGIONS: British Columbia NTS MAP: 103H02W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

427

LATITUDE: 53 04 39 N LONGITUDE: 128 52 36 W ELEVATION: 300 Metres

NORTHING: 5880899 EASTING: 508262

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, plate 3 (Assessment Report 15377). Located 1800 metres south of the Surf Inlet Mine (103H 027).

Gold

COMMODITIES: Copper

Silver

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Quartz
ALTERATION TYPE: Sericitic Sericite Ankerite Quartz-Carb. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: I01 SHAPE: Regular Au-quartz veins

MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Diorite

Gneissic Volcanic

Gneissic Meta Sediment/Sedimentary

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1986 CATEGORY: Assay/analysis SAMPLE TYPE:

Chip COMMODITY **GRADE** 

Silver 3.6000 Grams per tonne Gold 0.4600 Grams per tonne Copper 0.9350 Per cent

COMMENTS: The sample width is 30 centimetres.

REFERENCE: Assessment Report 15377.

CAPSULE GEOLOGY

An extensive complex shear system occurs in intrusive and gneissic volcanics and metasediments of the Coast Plutonic Complex. Gold associated with pyrite occurs in quartz-ankerite-sericite-

The Independence showings are located in the southern part of the north-south trending shear system, about 1800 metres south of the Surf Inlet Mine (103H 027) and just east of the Pugsley Mine. A north trending quartz vein, with chalcopyrite, occurs in sheared and altered diorite. A 30 centimetre sample across the vein assayed 0.935 per cent copper, 0.46 grams per tonne gold, and 3.6 grams per

tonne silver (Assessment Report 15377).

BIBLIOGRAPHY

EMPR AR 1904-103; 1905-82; 1909-275

EMPR ASS RPT 9904, EMPR EXPL 1986-C423 10071, 15369, \*15377

EMPR PF (Surf Inlet Mines Ltd., Prospectus, Aug. 27, 1987 in

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

103H 027) GSC MAP 23-1970; 1385A GSC P 70-41 V STOCKWATCH Nov.30, 1987

DATE CODED: 1987/02/18 DATE REVISED: 1989/08/05 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 045

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 046

NATIONAL MINERAL INVENTORY:

NAME(S): **DIABASE**, SURF INLET

STATUS: Showing REGIONS: British Columbia NTS MAP: 103H02W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

LATITUDE: 53 04 09 N

NORTHING: 5879973 EASTING: 508636

PAGE:

REPORT: RGEN0100

429

LONGITUDE: 128 52 16 W ELEVATION: 760 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, plate 3 (Assessment Report 15377). Located 2700 metres south of the Surf Inlet Mine (103H 027).

COMMODITIES: Gold

Silver

Tellurium

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz

ALTERATION: Quartz
ALTERATION TYPE: Sericitic

Sericite Ankerite Quartz-Carb.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

**Epigenetic** 

TYPE: I01 SHAPE: Regular Au-quartz veins

MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Paleozoic-Mesozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Diorite

Diabase Dike Gneissic Volcanic

Meta Sediment/Sedimentary

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Plutonic Rocks METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YFAR: 1986

CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis

COMMODITY

Silver Gold

**GRADE** 24.4000 Grams per tonne 4.4000 Grams per tonne

Tellurium

0.0015 Per cent

COMMENTS: The sample width is 70 centimetres.

REFERENCE: Assessment Report 15377.

**CAPSULE GEOLOGY** 

An extensive, complex shear system occurs in intrusive and gneissic volcanics and metasediments of the Coast Plutonic Complex. Gold associated with pyrite occurs in quartz-ankerite-sericite-

The Diabase showing is located in the southern part of the north-south trending shear system, about 2700 metres south of the Surf Inlet Mine (103H 027). A 1 metre wide quartz vein, occurring within sheared and altered diorite, is cut by a 3 metre wide diabase dyke. A 70 centimetre sample across the vein assayed 4.4 grams per tonne gold, 24.4 grams per tonne silver and 0.0015 per cent tellurium (Assessment Report 15377).

**BIBLIOGRAPHY** 

EMPR ASS RPT 10071, 15369, \*15377 EMPR EXPL 1986-C423

EMPR PF (Surf Inlet Mines Ltd., Prospectus, Aug. 27, 1987, in

MINFILE NUMBER: 103H 046

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

103H 027) GSC MAP 23-1970; 1385A GSC P 70-41 V STOCKWATCH Nov.30, 1987

DATE CODED: 1987/02/18 DATE REVISED: 1989/08/05 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 046

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 047

NATIONAL MINERAL INVENTORY:

NAME(S): **BONANZA**, SURF INLET

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103H02W BC MAP: LATITUDE: 53 04 09 N

NORTHING: 5879973 EASTING: 508822

PAGE:

REPORT: RGEN0100

431

LONGITUDE: 128 52 06 W ELEVATION: 800 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, plate 3 (Assessment Report 15377). Located 2700 metres south of the Surf Inlet Mine (103H 027).

COMMODITIES: Gold Tellurium Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz

ALTERATION: Quartz
ALTERATION TYPE: Sericitic Sericite Chlorite Ankerite Quartz-Carb.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: I01 SHAPE: Regular Au-quartz veins

MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Diorite

Quartz Feldspar Biotite Gneiss

Gneiss

Gneissic Volcanic

Meta Sediment/Sedimentary

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1986 Assay/analysis

SAMPLE TYPE: Chip GRADE

COMMODITY Silver 86.0000 Grams per tonne 12.8000 Gold Grams per tonne Copper 1.7200 Per cent

COMMENTS: The sample width is 1.2 metres.

REFERENCE: Assessment Report 15377.

Tellürium

**CAPSULE GEOLOGY** 

An extensive, complex shear system occurs in intrusive and gneissic volcanics and metasediments of the Coast Plutonic Complex. Gold associated with pyrite occurs in quartz-ankerite-sericite-

0.0033

Per cent

sulphide veins within the shear zone.

The Bonanza showing is located in the southern part of the north-south trending shear system, about 2700 metres south of the Surf Inlet Mine (103H 027). Two parallel north-northwest trending quartz veins occur along the contact between diorite and quartz-feldspar-biotite-hornblende gneiss. The contact zone is altered with chlorite, sericite, ankerite and quartz. A 1.2 metre sample across a quartz vein assayed 12.8 grams per tonne gold, 86.0 grams per tonne silver, 1.72 per cent copper and 0.0033 grams per tonne tellurium (Assessment Report 15377).

> MINFILE NUMBER: 103H 047

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1900-788; 1901-993; 1902-53; 1908-249
EMPR ASS RPT 10071, 15369, \*15377
EMPR EXPL 1986-C423
EMPR PF (Surf Inlet Mines Ltd., Prospectus, Aug.27, 1987 in 103H 027)
GSC MAP 23-1970; 1385A
GSC P 70-41
V STOCKWATCH Nov.30, 1987

DATE CODED: 1987/02/18 DATE REVISED: 1989/07/23 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103H 047

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 048

NATIONAL MINERAL INVENTORY:

NAME(S): SUMMIT, SURF INLET

STATUS: Showing REGIONS: British Columbia NTS MAP: 103H02W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

PAGE:

REPORT: RGEN0100

433

LATITUDE: 53 03 49 N

NORTHING: 5879355 EASTING: 508823

LONGITUDE: 128 52 06 W ELEVATION: 725 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, plate 3 (Assessment Report 15377). Located 3400 metres south of the Surf Inlet Mine (103H 027).

COMMODITIES: Gold Tellurium Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz

ALTERATION: Quartz
ALTERATION TYPE: Quartz-Carb.
MINERALIZATION AGE: Unknown Chlorite Sericite Ankerite Sericitic

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: I01 SHAPE: Regular Au-quartz veins

MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Coast Plutonic Complex

LITHOLOGY: Diorite

Feldspar Biotite Hornblende Gneiss

Gneissic Volcanic Meta Sediment/Sedimentary

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1986 Assay/analysis

CATEGORY: Assa SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver 14.5000 Grams per tonne Gold Grams per tonne 6.6700 0.0150 Copper Per cent

Tellurium 0.0015 Per cent

COMMENTS: The sample width is 90 centimetres. REFERENCE: Assessment Report 15377.

CAPSULE GEOLOGY

An extensive, complex shear system occurs in intrusive and gneissic volcanics and metasediments of the Coast Plutonic Complex. Gold associated with pyrite occurs in quartz-ankerite-sericite-sulphide veins within the shear zone.

The Summit showing is located in the southern end of the north-

south trending shear system, about 3400 metres south of the Surf Inlet Mine (103H 027). A narrow northeast trending quartz vein occurs along the contact between diorite and quartz-feldspar-biotitehornblende gneiss. The contact zone is altered with chlorite, sericite, ankerite and quartz. A 90 centimetre sample across the quartz vein assayed 6.67 grams per tonne gold, 14.5 grams per tonne silver, 0.015 per cent copper and 0.0015 per cent tellurium (Assessment Report 15377).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1900-788; 1902-53; 1908-249

EMPR ASS RPT 10071, \*15377

EMPR EXPL 1986-C423

EMPR PF (Surf Inlet Mines Ltd., Prospectus, Aug.27, 1987 in 103H 027)

GSC MAP 23-1970; 1385A

GSC P 70-41

V STOCKWATCH Nov.30, 1987

DATE CODED: 1987/02/18 DATE REVISED: 1989/08/07 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103H 048

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 049

NATIONAL MINERAL INVENTORY:

NAME(S): CASSIE, SURF INLET

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H02W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

435

LATITUDE: 53 03 39 N NORTHING: 5879046 EASTING: 508824

LONGITUDE: 128 52 06 W ELEVATION: 500 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, plate 3 (Assessment Report 15377). Located 3700 metres south of the Surf Inlet Mine (103H 027).

COMMODITIES: Gold

Silver Tellurium

**MINERALS** 

SIGNIFICANT: Pyrite

ASSOCIATED: Quartz Chalcopyrite Chalcocite Bornite Covellite

Molybdenite

Sericite Quartz

Sericitic

ALTERATION: Chlorite G ALTERATION TYPE: Quartz-Carb. MINERALIZATION AGE: Unknown ISOTOPIC AGE: 104.9 +/- 0.3 Ma

DATING METHOD: Uranium/Lead

Ankerite

MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 101 Au-quartz veins

SHAPE: Regular MODIFIER: Sheared

COMMENTS: Strongly foliated diorite. EM Fieldwork 2001, pp. 135-149.

HOST ROCK DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP

Paleozoic-Mesozoic

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Diorite

Feldspar Biotite Hornblende Gneiss

Gneissic Volcanic

Meta Sediment/Sedimentary

HOSTROCK COMMENTS: Includes Tertiary plutons.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Grab

Assay/analysis

YEAR: 1986

COMMODITY Silver

93.2000 63.0000 Grams per tonne Grams per tonne

Gold Tellurium

0.0022 Per cent

COMMENTS: The sample was taken from an ore dump.

REFERENCE: Assessment Report 15377.

**CAPSULE GEOLOGY** 

An extensive, complex shear system occurs in intrusive and gneissic volcanics and metasediments of the Coast Plutonic Complex. Gold associated with pyrite occurs in quartz-ankerite-sericite-

**GRADE** 

sulphide veins.

The Cassie showing is located in the southern part of the northsouth trending shear system, about 3700 metres south of the Surf Inlet Mine (103H 027). Two parallel northwest trending quartz veins occur along the contact between diorite and quartz-feldspar-biotite-hornblende gneiss. The contact zone is altered with chlorite, sericite, ankerite and quartz. Grab samples from an ore dump assayed 63.0 grams per tonne gold, 93.2 grams per tonne silver and 0.0022 per cent tellurium (Assessment Report 15377).

The zircon date shows that the host is 105 Ma. A previous K/Ar

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

from Dawson is a cooling date of 80 Ma. Thus the mineralization is between 80 and 105 Ma in age.(op cit).

**BIBLIOGRAPHY** 

EM FIELDWORK 2001, pp. 135-149
EMPR AR 1905-82; 1913-422
EMPR ASS RPT 10071, \*15377
EMPR EXPL 1986-C423
EMPR PF (Surf Inlet Mines Ltd., Prospectus, Aug.27, 1987 in 103H 027)
GSC MAP 23-1970; 1385A
GSC P 70-41
V STOCKWATCH Nov.30, 1987

DATE CODED: 1987/02/18 DATE REVISED: 1989/08/07 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 049

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 050

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5970164

EASTING: 467021

REPORT: RGEN0100

437

NAME(S): **EAST PLATEAU**, ECSTALL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H13E 103H14W BC MAP:

LATITUDE: 53 52 44 N

LONGITUDE: 129 30 06 W ELEVATION: 665 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 6 (Assessment Report 15488).

COMMODITIES: Zinc Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Chlorite Sphalerite

ALTERATION: Sericite ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic

Noranda/Kuroko massive sulphide Cu-Pb-Zn

TYPE: G06 N SHAPE: Tabular MODIFIER: Sheared

STRIKE/DIP: 175/85W TREND/PLUNGE: DIMENSION: 0001 Metres

COMMENTS: Width of shear zone.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP
Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Central Gneiss Complex

LITHOLOGY: Chlorite Schist

Granodiorite

HOSTROCK COMMENTS: Hosted by Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl.

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1986 Assay/analysis

COMMODITY **GRADE** 

Per cent Copper 0.0320 Per cent 0.1840 7inc

REFERENCE: Assessment Report 15488.

**CAPSULE GEOLOGY** 

The showing is one of a cluster of showings around the Ecstall deposit (103H 011). The north-northwest trending Ecstall Pendant, a metasedimentary-metavolcanic belt within the Central Gneiss Complex, is flanked by granodiorite of the Coast Range Intrusive Complex. A heavily pyritized, sericitic shear zone, 1.0 metre wide, occurs in chlorite schist. The shear zone strikes 175 degrees and dips 85

degrees west, and contains trace amounts of sphalerite. A sample assayed 0.184 per cent zinc and 0.032 per cent copper (Assessment A sample

Report 15488).

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001, pp. 151-170

EMPR ASS RPT \*15488, \*15756 EMPR EXPL 1987-C355

EMPR OF 1999-2; 2002-03

GSC MAP 23-1970; 1385A; 1868A

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 70-41

DATE CODED: 1987/07/22 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/07 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 050

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 051

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5969088 EASTING: 466100

REPORT: RGEN0100

439

NAME(S): TRENCH, ECSTALL, DUNSMUIR, SOUTH LENS, SOUTHWEST SHEAR

STATUS: Showing REGIONS: British Columbia NTS MAP: 103H13E

MINING DIVISION: Skeena

BC MAP:

LATITUDE: 53 52 09 N LONGITUDE: 129 30 56 W

ELEVATION: 105 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 6 (Assessment Report 15488). See Ecstall (103H 011).

COMMODITIES: Copper 7inc Silver

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite

ASSOCIATED: Quartz Sericite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant Massive CLASSIFICATION: Volcanogenic Exhalative TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Paleozoic

Central Gneiss Complex

LITHOLOGY: Quartz Sericite Schist

Granodiorite

HOSTROCK COMMENTS: Hosted by the Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Kitimat Ranges

TECTONIC BELT: Coast Crystalline

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: TRENCH REPORT ON: N

> CATEGORY: YEAR: 1986 Assav/analysis

SAMPLE TYPE: Chip COMMODITY Silver **GRADE** 

4.5000 Grams per tonne 0.0330 Copper Per cent 7inc 0.1200 Per cent

REFERENCE: Assessment Report 15488.

**CAPSULE GEOLOGY** 

The Trench prospect crops out immediately southwest of the Ecstall South Lens (1) (See Ecstall 103H 011). The showing is exposed by a large open cut near the base of the hill immediately north of the old mining camp, and 140 metres east of the Main Adit portal (Hassard et al., 1987a, Figure 6). In the exploration trench, quartz-sericite schist hosts a north-trending 10-centimetre thick sulphide bed. A sample assayed 330 ppm copper, 1200 ppm zinc, 46 ppm lead, 4.5 ppm silver and 70 ppb gold (Hassard et al., 1987a, p. 26).

This same thin massive sulphide bed crops out again uphill

directly to the north of this trench where it was termed the Southwest Shear (Douglas, 1953, p. 21 and 28). This showing is a 25-centimetre wide band of massive pyrite hosted in quartz-sericite schist, and was investigated by a cluster of small prospecting pits to the west of the South Lens, 120 metres south-southwest of the portal of the Dunsmuir Tunnel, along the claim boundary between the Bluestone and the Red Gulch mineral claims. This same sulphide zo was intersected again in the Main Adit, mid-way between the portal This same sulphide zone and the No. 1 crosscut, and was also intersected in underground drillholes 60 and 60a, which were drilled southward from the east end of the No. 1 crosscut (Douglas, 1953, p. 21). The Trench/Southwest Shear prospect is significant because it indicates good potential for an en echelon lens of mineralization to the southwest of the South

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

Lens.

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001, pp. 151-170 EMPR ASS RPT \*15488, \*15756, 24605 EMPR EXPL 1987-C355

GSC MAP 23-1970; 1385A; 1868A GSC P 70-41

Douglas, H. (1953): Geology of the Ecstall Mine, Ecstall River, B.C.; unpublished Texas Gulf Sulphur Report

DATE CODED: 1987/07/21 DATE REVISED: 2000/10/30 CODED BY: LDJ REVISED BY: DJA FIELD CHECK: N

MINFILE NUMBER: 103H 051

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 052

NATIONAL MINERAL INVENTORY:

NAME(S): MARIPOSITE, ECSTALL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H13E BC MAP:

LATITUDE: 53 51 04 N

LONGITUDE: 129 30 36 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Sample location, Figure 7 (Assessment Report 15488).

COMMODITIES: Zinc.

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Mariposite

ALTERATION: Sericite Chlorite

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

Sericitic

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic Massive Exhalative

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP **FORMATION** Paleozoic

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5967077

EASTING: 466451

REPORT: RGEN0100

441

Central Gneiss Complex

LITHOLOGY: Quartz Sericite Schist

HOSTROCK COMMENTS: Hosted by the Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1986

SAMPLE TYPE: Chip

COMMODITY Zinc

0.2200 Per cent

COMMENTS: Heavily mineralized sample. REFERENCE: Assessment Report 15488.

**CAPSULE GEOLOGY** 

The north-northwest trending Ecstall Pendant, a metasedimentarymetavolcanic belt within the Central Gneiss Complex, is flanked by

granodiorite of the Coast Range Intrusive Complex.

Massive pyrite, up to 50 per cent, and mariposite occurs in an 80 metre wide belt of quartz-sericite schist. The schist is stronchloritized and sericitized. A heavily mineralized sample assayed The schist is strongly

0.22 per cent zinc (Assessment Report 15488).

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001, pp. 151-170 EMPR ASS RPT 15328, \*15488, \*15756, 16711 EMPR EXPL 1986-C424; 1987-C355

EMPR OF 1999-2; 2002-03 GSC MAP 23-1970; 1385A; 1868A

GSC P 70-41

DATE CODED: 1987/07/22 DATE REVISED: 1989/08/07 CODED BY: FIELD CHECK: N REVISED BY: LDJ FIFLD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 053

NATIONAL MINERAL INVENTORY:

Gold

Oxidation

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5966468

EASTING: 465258

REPORT: RGEN0100

442

NAME(S): WEST GRID, ELAINE CREEK, ECSTALL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H13E BC MAP:

LATITUDE: 53 50 44 N

LONGITUDE: 129 31 41 W ELEVATION: 420 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample location, Figure 7 (Assessment Report 15488).

COMMODITIES: Copper Silver 7inc

**MINERALS** 

Pyrite Pyrrhotite

Malachite

SIGNIFICANT: Chalcopyrite ALTERATION: Silica ALTERATION TYPE: Chloritic Sericitic

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound Disseminated Vein

CLASSIFICATION: Volcanogenic Exhalative TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn Hydrothermal

SHAPE: Tabular MODIFIER: Sheared DIMENSION: 0900 x 0120 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Belt of disseminated chalcopyrite.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Central Gneiss Complex

LITHOLOGY: Quartz Sericite Kyanite Schist

Amphibolite Granodiorite

HOSTROCK COMMENTS: Hosted in the Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Silicific'n

TERRANE: Undivided Metamorphic Assembl.

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1986 Assay/analysis

**GRADE** COMMODITY

Copper U.2/00 Fel Cell.
COMMENTS: This is the average of 12 samples taken within a 120 metre wide belt.

REFERENCE: Assessment Report 15488.

**CAPSULE GEOLOGY** 

The north-northwest trending Ecstall Pendant, a metasedimentarymetavolcanic belt within the Central Gneiss Complex, is flanked by granodiorite of the Coast Range Intrusive Complex. The West Grid occurrence, which is located about 4 kilometres southwest of the Ecstall deposit (103H 011), lies within a zone of strong hydrothermal

alteration including choritization, sericitization, and silicification.

Disseminated and stringer chalcopyrite and malachite occur in a 120 metre wide belt of quartz-sericite-kyanite schist for about 900 metres. Twelve samples taken along the belt averaged 0.27 per cent copper, with one assaying 1.5 per cent copper (Assessment Report

15488). Seven grab samples of stringer material averaged 3.04 per cent copper, 0.0695 per cent zinc, 11.7 grams per tonne silver, and 1.525

grams per tonne gold (Assessment Report 16711). The area also contains mineralized quartz veins in small shear zones within amphibolite. Mineralization consists of pyrite, chalcopyrite, and pyrrhotite.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001, pp. 151-170 EMPR ASS RPT \*15488, \*15756, 16600, \*16711 EMPR EXPL 1987-C355,C356 EMPR OF 1999-2; 2002-03 GSC MAP 23-1970; 1385A, 1868A GSC P 70-41

DATE CODED: 1987/07/22 DATE REVISED: 1989/08/12 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 053

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Silicific'n

MINFILE NUMBER: 103H 054

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5965076

EASTING: 465339

REPORT: RGEN0100

444

NAME(S): THIRTEEN CREEK CIRQUE, ECSTALL, RED GULCH

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H13E BC MAP:

LATITUDE: 53 49 59 N

LONGITUDE: 129 31 36 W ELEVATION: 700 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Figure 7 (Assessment Report 15488).

COMMODITIES: Copper Silver Gold 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrite Sphalerit COMMENTS: Pyrrhotite and galena found in boulders. Sphalerite Pyrrhotite Galena

ASSOCIATED: Quartz Sericitic

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic Massive Exhalative

TYPE: G06 SHAPE: Tabular Noranda/Kuroko massive sulphide Cu-Pb-Zn

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Central Gneiss Complex

LITHOLOGY: Chert

Quartz Biotite Chlorite Schist

Argillite Granodiorite

HOSTROCK COMMENTS: Hosted in Ecstall Pendant, consisting of metasedimentary and meta-volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl.

**RELATIONSHIP:** METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1986 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab <u>GRA</u>DE

COMMODITY Silver 350,0000 Grams per tonne 2.4000 Gold Grams per tonne

8.0600 Per cent Copper Zinc 0.5300 Per cent

REFERENCE: Assessment Report 15488.

CAPSULE GEOLOGY

The north-northwest trending Ecstall Pendant, a metasedimentarymetavolcanic belt within the Central Gneiss Complex, is flanked by granodiorite of the Coast Range Intrusive Complex.

The Thirteen Creek occurrence, located about 4 kilometres southwest of the Ecstall deposit (103H 011), occurs in a zone of strong hydrothermal alteration, including chloritization, sericitization, and silicification.

A 30 centimetre wide, 100-metre long chert bed with pods of massive pyrite-chalcopyrite mineralization occurs in quartz-biotitechlorite schist. A grab sample taken at 640 metres elevation assayed 8.06 per cent copper, 0.53 per cent zinc, 350 grams per tonne silver, and 2.4 grams per tonne gold (Assessment Report 15488). Several boulders found within the cirque contain pyrrhotite-pyritechalcopyrite-galena mineralization.

A drill hole, 350 metres to the north intersected a 10 centimetre section of argillite with sphalerite and pyrite containing 0.98 per cent zinc.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

A 200-metre wide succession, containing disseminated and stringer copper mineralization and local banded zinc mineralization is reported (GCNL #26, February 8, 1994).

A belt of vertically dipping sericitic quartzofeldspathic gneiss 150 metres wide and 2.5 kilometres long contains widespread

disseminated chalcopyrite, minor pyrite and traces of bornite. The longest chip sample assayed 0.20 per cent copper over 119 metres; the highest grade sample returned 0.65 per cent copper over 7.5 metres (Exploration 1994).

#### **BIBLIOGRAPHY**

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001, pp. 151-170

EMPR ASS RPT \*15488, \*15756, 16600, 16711

EMPR EXPL 1987-C355,356; 1994-34

EMPR OF 1999-2; 2002-03

GSC MAP 23-1970; 1385A; 1868A

GSC P 70-41

GCNL #26, (Feb.8), 1994

N MINER June 5, 1995

DATE CODED: 1987/07/22 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 054

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 055

NATIONAL MINERAL INVENTORY:

NAME(S): SOUTH GRID EAST, ECSTALL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H14W BC MAP:

LATITUDE: 53 49 19 N LONGITUDE: 129 29 36 W ELEVATION: 980 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample location (Assessment Report 15488).

COMMODITIES: Copper 7inc

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz ALTERATION: Sericite ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic

SHAPE: Tabular MODIFIER: Sheared DIMENSION: 0003

COMMENTS: Width of shear zone.

STRIKE/DIP: 172/85F Metres

TREND/PLUNGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5963824

EASTING: 467525

PAGE:

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HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Central Gneiss Complex

LITHOLOGY: Quartz Sericite Schist

HOSTROCK COMMENTS: Hosted in Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

Massive

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl.
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay/analysis YEAR: 1986

SAMPLE TYPE: Chip **COMMODITY** 

Copper 0.1200 Per cent 7inc 0.0240 Per cent

REFERENCE: Assessment Report 15488.

**CAPSULE GEOLOGY** 

The north-northwest trending Ecstall Pendant, a metasedimentarymetavolcanic belt within the Central Gneiss Complex, is flanked by

**GRADE** 

granodiorite of the Coast Range Intrusive Complex.

A 3 metre wide pyritic shear zone occurs in a quartz-sericite belt. The zone strikes 172 degrees and dips 85 degrees east. A sample assayed 0.12 per cent copper and 0.024 per cent zinc (Assess-

ment Report 15488).

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001,

pp. 151-170

EMPR ASS RPT \*15488, \*15756 EMPR EXPL 1987-C355

EMPR OF 2002-03

GSC MAP 23-1970; 1385A, 1868A

GSC P 70-40

CODED BY: LDJ REVISED BY: LDJ DATE CODED: 1987/07/22 FIELD CHECK: N DATE REVISED: 1989/08/10 FIFLD CHECK: N

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 056

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5959499

EASTING: 467311

REPORT: RGEN0100

447

NAME(S): BEAR

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H14W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 46 59 N LONGITUDE: 129 29 46 W ELEVATION: 510 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample location, Map 11 (Assessment Report 15491).

COMMODITIES: Copper 7inc Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

Massive

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Paleozoic Central Gneiss Complex

LITHOLOGY: Pyrite Quartz Sericite Schist Greywacke

Siltstone Quartzite Argillite Granodiorite

HOSTROCK COMMENTS: Hosted in the Ecstall Pendant, consisting of metasedimentary and meta

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl.

**RELATIONSHIP:** GRADE: Greenschist METAMORPHIC TYPE: Regional

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1987 CATEGORY: Assay/analysis SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Grams per tonne Silver 12,0000 Copper 0.1200 Per cent 0.6800 7inc Per cent

REFERENCE: Assessment Report 15491.

**CAPSULE GEOLOGY** 

The north-northwest trending Ecstall Pendant, a metasedimentary-metavolcanic belt within the Central Gneiss Complex, is flanked by granodiorite of the Coast Range Intrusive Complex.

The Bear grid is underlain mainly by sediments which include greywacke, laminated siltstone, banded quartzite, and argillite. A pyritic quartz sericite schist horizon contains pyrite, chalcopyrite, and malachite. A sample assayed 0.54 per cent copper. Six hundred

and malachite. A sample assayed 0.54 per cent copper. metres to the southwest, a sample in banded quartzite assayed 0.68 per cent zinc, 0.12 per cent copper, and 12 grams per tonne silver (Assessment Report 15491).

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001, pp. 151-170

EMPR ASS RPT \*15491 EMPR EXPL 1987-C356 EMPR OF 1999-2; 2002-03 GSC MAP 23-1970; 1385A, 1868A

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 70-41

DATE CODED: 1987/07/22 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/17 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 056

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 057

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 5943315

EASTING: 499890

REPORT: RGEN0100

449

NAME(S): HAWKSBURY ISLAND GARNET

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103H10W 103H11E BC MAP: LATITUDE: 53 38 19 N

LONGITUDE: 129 00 06 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: A 7 to 8 kilometre long zone striking approximately east-west. Coordinates for centre of zone (Area 2, figure 10, Open File 1988-26).

COMMODITIES: Garnet **Kyanite** 

**MINERALS** 

SIGNIFICANT: Garnet **Kvanite** COMMENTS: Almandine garnet.

ASSOCIATED: Staurolite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered CLASSIFICATION: Metamorphic Stratabound

Industrial Min. Syngenetic

TYPE: P02 Kyanite-sillimanite schists

SHAPE: Tabular MODIFIER: Folded

STRIKE/DIP: TREND/PLUNGE: **DIMENSION:** 2000 x 0030 Metres

COMMENTS: Dimension of kyanite-staurolite-garnet schist.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Central Gneiss Complex

LITHOLOGY: Kyanite Staurolite Garnet Schist

Sericite Epidote Schist

Gneiss Amphibolite

HOSTROCK COMMENTS: Permian (?) and/or older metasediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1959 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Garnet

Per cent Per cent 20.0000 Kyanite

COMMENTS: Schists contain 20 per cent almandine garnet and 20 per cent

kyanite, visually.

REFERENCE: Money, 1959.

CAPSULE GEOLOGY

Hawkesbury Island is underlain mainly by Permian (?) and/or older metasediments within the Central Gneiss Complex. On Hawkesbury Island, south of Prince Rupert, kyanite-staurolite-almandine schists are exposed with sericite-epidote schist, gneiss and amphibolite. The schieft are the schieft and the schieft are the schieft are the schieft are the schieft and the schieft are the sch individual kyanite-staurolite-almandine garnet schists may vary from one metre to over 30 metres in thickness and are traceable along strike for up to 2 kilometres (Area 2, Figure 10, Open File 1988-26). These schists contain up to 20 per cent almandine garnet and up to 20 per cent kyanite (Money, 1959). The garnet is present as subhedral to euhedral grains ranging up to 5 centimetres in diameter or as anhedral rounded aggregates about 7.5 centimetres in size. The kyanite may be extremely coarse with blades that reach 20 centimetres by 1 centimetre in size. Sillimanite is reported from only one locality on Hawkesbury Island (refer to 103H 058).

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1987-424

EMPR OF \*1988-26, p. 15

GSC MAP 23-1970; 1385A, 1868A

GSC P 70-41

Money, P.L., (1959): \*The Geology of Hawksbury Island, Skeen Mining
Division, British Columbia, unpublished M.Sc. Thesis, University
of British Columbia, Vancouver, British Columbia, 159 pgs.

DATE CODED: 1988/03/30 DATE REVISED: 1989/01/31 CODED BY: JP REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103H 057

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 058

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5936208

EASTING: 497131

IGNEOUS/METAMORPHIC/OTHER

Central Gneiss Complex

REPORT: RGEN0100

451

NAME(S): HAWKESBURY ISLAND KYANITE, HAWKESBURY SILLIMANITE, FISHTRAP BAY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H11E BC MAP:

LATITUDE: 53 34 29 N

LONGITUDE: 129 02 36 W ELEVATION: 760 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of sillimanite occurrence (Area 2, Figure 10, Open File 1988-

COMMODITIES: Kyanite

Sillimanite

**MINERALS** 

SIGNIFICANT: Kyanite Sillimanite

ASSOCIATED: Quartz Plagioclase MINERALIZATION AGE: Unknown

Staurolite Mica

**DEPOSIT** 

CHARACTER: Stratiform

CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P02 Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Paleozoic

LITHOLOGY: Sillimanite Quartz Plagioclase Gneiss

Kyanite Staurolite Garnet Schist

Biotite Schist Amphibolite

Schist

Sericite Epidote Schist

Graphitic Plagioclase Schist

Quartzite

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Undivided Metamorphic Assembl.

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The central part of Hawkesbury Island is underlain by amphibolite, biotite schist, kyanite-staurolite-almandine mica schist, sericite-epidote schist, fine-grained sillimanite-quartz-plagioclase gneiss, graphitic plagioclase schists, quartzite, and crystalline limestone.

**FORMATION** 

On Hawkesbury Island the kyanite-staurolite-almandine schists exposed contain up to 20 per cent almandine garnet and up to 20 per cent kyanite (Money, 1959). The kyanite may be extremely coarse with blades that reach 20 centimetres by 1 centimetre in size. The individual kyanite-staurolite-almandine schist units vary from a metre to over 30 metres in thickness and are traceable along strike for up to 2 kilometres (refer to Hawkesbury Island Garnet, 103H-057).

Sillimanite is reported from only one locality on Hawkesbury Island near Fishtrap Bay (refer to Area 2, Figure 10, Open File 1988-26). At this locality, the sillmanite is present as rounded knots in gneiss and comprises up to 15 per cent of the rock (Money, 1959).

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EMPR FIELDWORK 1987-424

EMPR IND MIN FILE (Andalusite, Kyanite, and Sillaminite Occurrences

in BC (in Ministry Library)) EMPR OF 1988-26, p. 15 GSC MAP 23-1970; 1385A, 1868A

GSC P 70-41, p. 14
Money, P.L., (1959): The Geology of Hawkesbury Island, Skeena Mining
Division, British Columbia, unpublished M.Sc. Thesis, University of

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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DATE CODED: 1986/08/05 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/01/31 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103H 058

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 059

NATIONAL MINERAL INVENTORY:

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NAME(S): WORK ISLAND

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H02E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 5892001 EASTING: 521090 LATITUDE: 53 10 37 N LONGITUDE: 128 41 04 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: West end of Work Island. Pre 1986 103H-G059.

COMMODITIES: Limestone Marble **Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Massive Industrial Min.

TYPE: R09 R04 Limestone Dimension stone - marble

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Paleozoic IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal **FORMATION** 

LITHOLOGY: Biotite Quartz Schist

Marble

**GEOLOGICAL SETTING** PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TECTONIC BELT: Coast Crystalline TERRANE: Alexander METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Work Island is underlain by metasedimentary rocks consisting mainly of thinly layered biotite-quartz schist with interlayered

marble near the western end.

**BIBLIOGRAPHY** 

GSC MAP 23-1970; 1385A GSC P \*70-41, p. 18

DATE CODED: 1986/08/01 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/01 REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 060

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

454

NAME(S): GIL ISLAND

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H03W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 04 59 N NORTHING: 5881546 EASTING: 481468

LONGITUDE: 129 16 36 W ELEVATION: 5 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Fawcett Point. Pre 1986 103H-G060.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Sedimentary Massive Industrial Min.

TYPE: R09 SHAPE: Tabular Limestone

DIMENSION: STRIKE/DIP: 050/70S TREND/PLUNGE:

COMMENTS: General attitude of metasediments.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Unnamed/Unknown Informal

LITHOLOGY: Limestone

Quartzite

Garnet Biotite Schist

Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander

**CAPSULE GEOLOGY** 

Metasedimentary rocks, consisting mainly of grey quartzite, include intercalated beds of crystalline limestone, skarn, and garnet-biotite schist. A 30 metre wide white crystalline limestone bed and a wider zone of ribbon limestone occur with a general north-

east strike and moderate to steep southeast dip.

**BIBLIOGRAPHY** 

GSC MAP 23-1970; 1385A

GSC P 70-41, pp. 18,19

DATE CODED: 1986/08/01 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/03 REVISED BY: LDJ FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 061

NATIONAL MINERAL INVENTORY:

NAME(S): **DEWDNEY ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H04E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

455

LATITUDE: 53 01 07 N LONGITUDE: 129 37 36 W ELEVATION: 5 Metres

NORTHING: 5874525 EASTING: 457962

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description. Pre 1986 103H-G061.

COMMODITIES: Marble Dimension Stone

**Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound
CLASSIFICATION: Sedimentary
TYPE: R09 Limestone Massive Industrial Min.

SHAPE: Tabular

R04 Dimension stone - marble

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Unknown

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Marble

Quartzite Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Milbanke Strandflat

RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

A well-bedded series of intercalated quartzite and marble are

in sharp contact with quartz diorite of the Coast Plutonic Complex.

**BIBLIOGRAPHY** 

GSC MAP 23-1970; 1385A

GSC P \*70-41, p. 19

DATE CODED: 1986/08/01 CODED BY: LDJ FIELD CHECK: N

REVISED BY: LDJ DATE REVISED: 1989/08/03 FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 062

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5901588

EASTING: 446358

TREND/PLUNGE:

REPORT: RGEN0100

456

NAME(S): BANKS ISLAND (L.797), GALE POINT

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H05W BC MAP: LATITUDE: 53 15 39 N

LONGITUDE: 129 48 15 W ELEVATION: 46 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centered on Lot 797, on east coast of Banks Island as shown

on NTS topographic map 103H/05W.

COMMODITIES: Limestone Dolomite

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Quartz Dolomite

MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Stratabound Massive CLASSIFICATION: Sedimentary TYPE: R09 Lime Industrial Min.

Limestone

SHAPE: Tabular DIMENSION: 0180 STRIKE/DIP: 125/90 Metres

COMMENTS: Band is 180 metres wide and is vertical to steeply northeast dipping.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Limestone

Dolomite **Gneissic Diorite** Migmatite Granodiorite

HOSTROCK COMMENTS: Situated in a metasedimentary roof pendant within the Coast Plutonic

Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

A 180 metre wide band of white, coarse-grained limestone and dolomite outcrops on Lot 797 on the east coast of Banks Island, 2.5 kilometres south of Gale Point. The bed is contained in a roof pendant of gneissic diorite and migmatite within granodiorite of the Coast Plutonic Complex. The deposit strikes 125 degrees and dips steeply northeast to vertical. Numerous inclusions of country rock are present along the northeast edge of the band. Sinuous quartzite fragments are sometimes found floating in the limestone. The dolomite commonly contains veins of white guartz.

mite commonly contains veins of white quartz.

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GSC MAP 23-1970; 278A; 1385A

GSC P 70-41, p. 20 CANMET RPT 452, Vol. 5, p. 172; \*811, Part 5, 1944, pp. 171-173

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RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 063

NATIONAL MINERAL INVENTORY:

NAME(S): MARMOR

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H01W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

457

LATITUDE: 53 06 28 N LONGITUDE: 128 12 29 W ELEVATION: 914 Metres

NORTHING: 5884553 EASTING: 553015

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on surface trace of limestone band as shown on GSC

**Epidote** 

Map 23-1970. Pre-1986 103H-G063.

COMMODITIES: Limestone

**Building Stone** 

Garnet

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz Marble

Muscovite

ALTERATION: Epidote
ALTERATION TYPE: Skarn

Chlorite Garnet

MINERALIZATION AGE: Paleozoic

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R09 SHAPE: Tabular Limestone

MODIFIER: Folded

DIMENSION: 9999 x 900

Metres STRIKE/DIP: 160/55

COMMENTS: Dimensions of northwest trending crystalline limestone unit (over 16

kilometres long and up to 900 metres wide).

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Paleozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

Coast Plutonic Complex

LITHOLOGY: Limestone

Marble Garnet Schist **Garnet Gneiss** 

Hornblende Plagioclase Amphibolite Hornblende Epidote Gneissic Skarn

Pegmatite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Kitimat Ranges

RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

A 16-kilometre long northwestward trending mass of thickly bedded coarse grained grey limestone up to 900 metres wide outcrops between Marmor Peak and the headwaters of the Mussel River, 110 kilometres south-southeast of Kitimat. The deposit is enclosed in hornblende and epidote rich gneissic skarn flanked by garnet bearing schists, gneisses and hornblende plagioclase amphibolites. limestone is intercalated with quartz zones commonly containing chlorite, epidote and muscovite. An extensive stockwork of pegmatite cuts the limestone.

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 319-324
EMPR IND MIN FILE (Limestone Occurrences in BC (in Ministry

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EMPR OF 1992-18, p. 61 GSC MAP 23-1970; 1385A GSC P \*70-41, pp. 11,22

DATE CODED: 1986/08/01 DATE REVISED: 1990/04/27

CODED BY: LDJ

FIELD CHECK: N REVISED BY: PSF FIELD CHECK: N

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 064

NATIONAL MINERAL INVENTORY:

NAME(S): **DOUGLAS CHANNEL GARNET** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H11E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

458

LATITUDE: 53 39 29 N LONGITUDE: 129 12 36 W ELEVATION: 225 Metres NORTHING: 5945498 EASTING: 486122

MINING DIVISION: Skeena

LOCATION ACCURACY: Within 5 KM

COMMENTS: An 8 kilometre zone parallel to shore of Douglas Channel, extending from Gertrude Point to the northeast. Coordinates are for southwest end of zone (Area 1, figure 10, Open File 1988-26).

COMMODITIES: Garnet

**MINERALS** 

SIGNIFICANT: Garnet ASSOCIATED: Biotite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered CLASSIFICATION: Metamorphic Stratabound

Industrial Min. Syngenetic

TYPE: P02 Kyanite-sillimanite schists

SHAPE: Tabular MODIFIER: Folded

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION

Paleozoic Central Gneiss Complex

LITHOLOGY: Garnet Biotite Schist

Garnet Biotite Gneiss

HOSTROCK COMMENTS: Permian and/or older metasediments and gneisses.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Ŕocks METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1958 Assay/analysis

COMMODITY **GRADE** 

Per cent 50,0000 Garnet

COMMENTS: Biotite-garnet schists along the shores of Douglas Channel.

REFERENCE: Padgham, 1958.

CAPSULE GEOLOGY

In the Douglas Channel-Kitkiata area south of Prince Rupert, extremely garnetiferous schists and gneisses have been reported (Area 1, Figure 10, Open File 1988-26). These garnet-bearing rocks are prised of Permian (?) and/or older metasediments and granatoid gneisses which are related to the Central Gneiss Complex. These garnet-bearing rocks are com-

The biotite-garnet schists and biotite-garnet gneisses host euhedral garnets which range from 0.25 to 2.0 centimetres in length and locally, comprise from 10 to 15 per cent of the rocks. Biotite-garnet schists along the shores of Douglas Channel often contain up to 50 per cent garnet (Padgham, 1958).

**BIBLIOGRAPHY** 

EM FIELDWORK 2000, pp. 279-306; 2001, pp. 151-170 EMPR OF \*1988-26, p. 15

GSC MAP 23-1970; 1385A, 1868A

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GSC SUM RPT 1921, Part A, pp. 22-49
Padgham, W.A. (1958): \*The Geology of the Ecstall-Quall Rivers area, British Columbia, unpublished M.Sc. Thesis, University of British

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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DATE CODED: 1988/03/30 CODED BY: JP FIELD CHECK: N
DATE REVISED: 1989/01/31 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103H 064

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 065

NATIONAL MINERAL INVENTORY:

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UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

460

NAME(S): **DOUGLAS CHANNEL** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H11E 103H11W 103H06E 103H06W BC MAP:

LATITUDE: 53 29 59 N NORTHING: 5927892 EASTING: 483306

LONGITUDE: 129 15 06 W ELEVATION: 10 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Between Hartley Bay and Helen Point, location just south of Kiskosh

COMMODITIES: Gemstones

**MINERALS** 

SIGNIFICANT: Microcline Orthoclase **Biotite** 

ASSOCIATED: Anorthite Perthite Oligoclase Albite Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Pipe Vein

Hydrothermal **Epigenetic** Industrial Min.

CHARACTER. 1 IPC CLASSIFICATION: Pegmatite SHAPE: Irregular

**HOST ROCK** DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Upper Cretaceous Ecstall Pluton

LITHOLOGY: Pegmatite

Grănodiorite Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Kocks

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Pegmatite dykes and pipe-like masses of pegmatite are numerous along the northwest shore of Douglas Channel between Hartley Bay and Helen Point. The area is underlain by the southeast end of the Ecstall Pluton consisting of granodiorite and quartz diorite. The pegmatites are composed of microcline, orthoclase, oligo-clase, albite, perthite, micropegmatite, quartz, and biotite. The microcline, orthoclase, and biotite form crystals up to 45 centimetres

in size.

**BIBLIOGRAPHY** 

EMPR OF 1988-26, Figure 10

GSC MAP 23-1970; 1385A, 1868A GSC P 70-41, pp. 31,36 GSC SUM RPT \*1921, Part A, p. 26A

FIELD CHECK: N DATE CODED: 1986/08/05 CODED BY: LDJ REVISED BY: LLD DATE REVISED: 1989/01/31 FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 066

NATIONAL MINERAL INVENTORY:

NAME(S): PIT, TRINITY, GRENVILLE, PITT ISLAND, TEAM, MEADOW CREEK,

SOUTH PYRITE CREEK

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 103H12W

BC MAP:

LATITUDE: 53 42 04 N LONGITUDE: 129 52 36 W

ELEVATION: 520 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of main showing, Figure 3 (Assessment Report 10713); Figure 4 (Assessment Report 11207). Pre 1986 103H-G066 (Assessment Report 10713, 11207).

COMMODITIES: Copper

Lead

7inc

Gold

UTM ZONE: 09 (NAD 83)

NORTHING: 5950625

EASTING: 442125

MINING DIVISION: Skeena

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**MINERALS** 

SIGNIFICANT: Pyrite

Chalcopyrite Quartz

Sphalerite

Galena

Pyrrhotite

Covellite

ASSOCIATED: Biotite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal

Stratiform

Faulted

Epigenetic

Disseminated

Massive

Silver

Noranda/Kuroko massive sulphide Cu-Pb-Zn TYPE: G06

SHAPE: Tabular MODIFIER: Sheared

DIMENSION: 0300 x 0170 x 0001

Metres COMMENTS: Host schist unit.

STRIKE/DIP: 140/70S

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Unknown

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Pyritic Quartz Muscovite Schist

Mica Quartz Biotite Schist Meta Rhvolite Amphibolite Granodiorite Quartzite Phyllite Conglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Milbanke Strandflat

RELATIONSHIP: Post-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: MAIN

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Channel

YEAR: 1987

**GRADE** COMMODITY Silver 52.0000 Grams per tonne

Gold 0.4800 Grams per tonne Copper 2.3200 Per cenit Lead 0.5700 Per cent 2.5300 Per cent

COMMENTS: Average of 10 channel samples over average thickness of 1.2 metres.

REFERENCE: Assessment Report 15674.

CAPSULE GEOLOGY

A narrow northwest trending metasediment-metavolcanic belt lies west of the Grenville Channel fault and east of rocks consisting of diorite to quartz diorite of the Coast Plutonic Complex. The metamorphic rocks consist of quartzite, quartz-muscovite schist, phyllite, conglomerate, and biotite schist.

The main showing occurs as a concordant, steeply dipping zone,

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RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

between micaceous quartzite and quartz-muscovite schist, 20 to 30 metres from the intrusive contact. The massive sulphide schist band is exposed along Pyrite Creek for 300 metres, over a vertical range of 170 metres, at an average width of one metre. It strikes about 140 degrees and dips about 70 degrees southwest. The "conglomerate" texture of the sulphide schist is likely the result of tectonic fragmentation. The zone coincides with a major fault and is crosscut by shears and faults with left lateral displacements. Mineralization, consisting of pyrite, chalcopyrite, sphalerite, pyrrhotite, galena, and covellite is most intense in the cross structures and occurs as fracture fillings, discrete enhedral grains, and stringers within the laminae of the schist. An average of 10 channel samples collected across the thicker (1.2 metre) central section of the zone assayed 2.32 per cent copper, 0.57 per cent lead, 2.53 per cent zinc, 52.0 grams per tonne silver, and 0.48 gram per tonne gold (Assessment Report 15674).

In 1992, Inco conducted airborne geophysics, geological mapping,

In 1992, Inco conducted airborne geophysics, geological mapping sampling, prospecting and drilling on the Team zone, chip sampling across 1.2 metres gave 4.6 per cent copper, 1 per cent lead, 7.1 per cent zinc, 102.9 grams per tonne silver and 1.85 grams per tonne gold. The zone also contains up to 4 per cent barium (Northern Miner, August 24, 1992). Other zones along a 1700-metre strike include the Meadow Creek and the South Pyrite Creek.

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DATE CODED: 1986/08/13 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/05 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 066

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 067

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

463

NAME(S): BANK

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103H05W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 19 29 N NORTHING: 5908830 LONGITUDE: 129 58 01 W ELEVATION: 320 Metres EASTING: 435597

LOCATION ACCURACY: Within 500M

COMMENTS: Largest vein (Assessment Report 13071).

COMMODITIES: Gold 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Galena Sphalerite Chalcopyrite **Bornite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 105 P SHAPE: Irregular Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 800 x 300 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Area of erratic quartz veining.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Quartz Monzonite

Granodiorite Quartz Diorite Limestone

Micaceous Quartzitic/Quartzose Skarn

Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YEAR: 1984 Assay/analysis

**GRADE** COMMODITY 15,7700 Gold Grams per tonne

COMMENTS: The sample is from a 8 centimetre wide vein. REFERENCE: Assessment Report 13071.

CAPSULE GEOLOGY

Banks Island lies along the western edge of the Coast Plutonic Complex characterized by northwest trending granitic bodies, mainly granodiorite-quartz monzonite and quartz diorite which are separated by narrow (100 to 200 metres) persistent metasedimentary belts, mainly crystalline limestone, micaceous quartzite skarn, and schist. The metasedimentary rocks generally exhibit a wide range of "grani-

tization" effects and contact metasomatism.

In an area 800 metres by 300 metres, six areas of mineralized, east trending, quartz veins occur in quartz monzonite. Minerals include pyrite, galena, sphalerite, chalcopyrite, and minor bornite. The veins occur either as small swarms over areas approximately 2 by 2 metres or as single veins.

The largest vein, 2 by 0.38 metres, assayed 1.37 grams per tonne gold over 0.38 metres. A pyritic quartz vein 200 metres to the south assayed 5.07 grams per tonne gold over 0.50 metres and a 0.08 metre chip sample of a vein, 700 metres to the north, assayed 15.77 grams per tonne gold (Assessment Report 13071).

The quartz monzonite is generally fresh unfractured and

unmineralized.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13071 EMPR EXPL 1984-369,370 GSC MAP 23-1970; 1385A GSC P 70-41

DATE CODED: 1986/08/11 DATE REVISED: 1989/08/07 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 103H 067

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 068

NATIONAL MINERAL INVENTORY:

NAME(S): KILTUISH INLET GARNET

STATUS: Showing REGIONS: British Columbia NTS MAP: 103H08W BC MAP:

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

LATITUDE: 53 20 29 N

NORTHING: 5910372 EASTING: 534288

PAGE:

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LONGITUDE: 128 29 06 W ELEVATION: 175 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: An 8 kilometre long zone, striking north-northwest. Coordinates for north end of zone on the east side of Kiltuish Inlet (Area 3, Figure

10, Open File 1988-26).

COMMODITIES: Garnet

**MINERALS** 

SIGNIFICANT: Garnet ASSOCIATED: Sillimanite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Layered CLASSIFICATION: Metamorphic Stratabound Syngenetic

Garnet skarn

TYPE: K08
SHAPE: Tabular
MODIFIER: Folded

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Paleozoic Central Gneiss Complex

Industrial Min.

LITHOLOGY: Garnet Sillimanite Schist

Meta Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Undivided Metamorphic Assembl. PHYSIOGRAPHIC AREA: Kitimat Ranges

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Garnet and sillimanite occur in a number of localities in the Douglas Channel-Hectate Strait area (Geological Survey of Canada, Paper 70-41, Figure 10). In particular, garnet and sillimanite occur east of Kiltuish Inlet and along the Kiltuish River. The strata is part of the Central Gneiss Complex and is comprised mainly of Permian and/or older metasediments. Along the east side of the Kiltuish Inlet is an 8 kilometre long zone, striking north-northwest, which is underlain by schists which host abundant garnet and commonly sillimanite (Area 3, Figure 10, Open File 1988-26).

**BIBLIOGRAPHY** 

EMPR OF \*1988-26, p. 15 GSC MAP 23-1970; 1385A GSC P \*70-41

DATE CODED: 1988/03/30 DATE REVISED: 1989/01/31 CODED BY: JP REVISED BY: LLD FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 069

NATIONAL MINERAL INVENTORY:

NAME(S): PHOEBE CREEK, ECSTALL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H13E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: LONGITUDE: 129 31 53 W ELEVATION: 240 Metres NORTHING: 5967675 EASTING: 465048

LOCATION ACCURACY: Within 500M

COMMENTS: Location of sample ADO1939, Figure 7 (Assessment Report 16711).

COMMODITIES: Copper 7inc Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Volcanogenic Disseminated

Hydrothermal **Epigenetic** Noranda/Kuroko maśsive sulphide Cu-Pb-Zn

TYPE: G06
DIMENSION: 0006 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Disseminated chalcopyrite zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Paleozoic-Mesozoic

Central Gneiss Complex

Unnamed/Unknown Informal

LITHOLOGY: Quartz Sericite Kyanite Schist

Gneiss

Meta Sediment/Sedimentary

Hosted in the Ecstall Pendant, consisting of metasedimentary and meta-HOSTROCK COMMENTS:

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: YFAR: 1987 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 19.1000 Grams per tonne

Gold 0.1500 Grams per tonne Per cent Copper 6.5600 Zinc 0.0296 Per cent

REFERENCE: Assessment Report 16711.

CAPSULE GEOLOGY

The area is underlain by part of the north trending Ecstall Pendant, a metavolcanic-metasedimentary belt within the Central Gneiss Complex. The belt is approximately 8 kilometres wide and trends 170 degrees. It is bounded to the west by the Ecstall Pluton and to the east by the Quottoon Pluton, which are part of the extensive Coast Range Intrusive Complex.

The Ecstall Pendant consists mainly of hornblende-plagicclase amphibolites with lesser amounts of quartzite, marble, migmatite and granitoid rocks of late Paleozoic or early Mesozoic age. These rocks have been metamorphosed to the amphibolite facies and are locally migmatitic along pluton margins.

Mineralization in the Phoebe Creek area consists of stringer and disseminated chalcopyrite within quartz-sericite-kyanite schist and mixed gneiss. The stringers are 1 to 3 centimetres wide and a few metres long. A grab sample (AD01939) contained 6.56 per cent copper, 0.0296 per cent zinc, 19.1 grams per tonne silver and 0.15 grams per tonne gold (Assessment Report 16711). The disseminated chalcopyrite occurs in a zone 6.5 metres wide. Seven composite chip samples, taken across 1 metre intervals, indicate that the mineralization is

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**CAPSULE GEOLOGY** 

fairly consistent and averages  $0.69~\rm per$  cent copper,  $2.22~\rm grams$  per tonne silver and  $0.25~\rm grams$  per tonne gold (Assessment Report 16711).

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001,

pp. 151-170 EMPR ASS RPT \*16711 EMPR OF 1999-2; 2002-03 GSC MAP 23-1970; 1385A, 1868A

GSC P 70-41

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 070

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5966096 EASTING: 465347

IGNEOUS/METAMORPHIC/OTHER

Central Gneiss Complex Unnamed/Unknown Informal

REPORT: RGEN0100

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NAME(S): SPHALERITE, ECSTALL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H13E BC MAP:

LATITUDE: 53 50 32 N LONGITUDE: 129 31 36 W ELEVATION: 465 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of sample AD01700, Figure 8 (Assessment Report 16711).

COMMODITIES: Zinc. Cadmium Copper

**MINERALS** 

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered CLASSIFICATION: Hydrothermal

Metamorphic

TYPE: K02 Pb-Zn skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

Paleozoic Paleozoic-Mesozoic

LITHOLOGY: Calc-silicate

Quartz Chlorite Biotite Schist

HOSTROCK COMMENTS: Hosted in the Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

<u>GR</u>ADE

0.0746

0.0600

6.0000

**FORMATION** 

PHYSIOGRAPHIC AREA: Kitimat Ranges GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE

Assav/analysis

CATEGORY: SAMPLE TYPE: Grab

COMMODITY

Cadmium

Copper

7inc

Per cent Per cent Per cent

REPORT ON: N

YEAR: 1987

REFERENCE: Assessment Report 16711.

**CAPSULE GEOLOGY** 

The area is underlain by part of the north trending Ecstall Pendant, a metavolcanic-metasedimentary belt within the Central Gneiss Complex. The belt is approximately 8 kilometres wide and trends 170 degrees. It is bounded to the west by the Ecstall Pluton and to the east by the Quottoon Pluton, which are part of the extensive Coast Range Intrusive Complex.

The Ecstall Pendant consists mainly of hornblende-plagioclase amphibolites with lesser amounts of quartzite, marble, migmatite and granitoid rocks of late Paleozoic or early Mesozoic age. These r have been metamorphosed to the amphibolite facies and are locally These rocks

migmatitic along pluton margins.

Mineralization at the Sphalerite occurrence consists of a 4 centimetre wide by 2.2 metre long band of sphalerite within a green, medium-grained, calc-silicate horizon at the contact between quartz-chlorite-biotite schist and marble. A grab sample (AD01700) contained 6.00 per cent zinc, 0.06 per cent copper, 1.5 grams per tonne silver and 0.0746 per cent cadmium (Assessment Report 16711).

**BIBLIOGRAPHY** 

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-306; 2001, pp. 151-170

EMPR ASS RPT \*16711

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

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**BIBLIOGRAPHY** 

EMPR OF 2002-03 GSC MAP 23-1970; 1385A, 1868A GSC P 70-41

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MINFILE NUMBER: 103H 070

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 071

NATIONAL MINERAL INVENTORY:

NAME(S): **EL AMINO** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H13E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 53 48 28 N

NORTHING: 5962281 EASTING: 463087

LONGITUDE: 129 33 38 W ELEVATION: 730 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of sulphide lens (Fig.5, Assessment Report 17682) in the El Amino valley on Sulphide Creek.

7inc

COMMODITIES: Copper

Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Quartz

Chalcopyrite

Pyrite

Disseminated

Sphalerite

Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Volcanogenic SHAPE: Regular

MODIFIER: Folded

DIMENSION: 0030 x 0001 x 0003 Metres

Calcite

STRIKE/DIP: 258/70E

TREND/PLUNGE:

COMMENTS: Outcrop containing sulphide lens is folded in a tight antiform.

**HOST ROCK** 

Paleozoic

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Central Gneiss Complex Unnamed/Unknown Informal

Paleozoic-Mesozoic LITHOLOGY: Quartzite

Limy Siltstone

HOSTROCK COMMENTS: Hosted in the Ecstall Pendant, consisting of metasedimentary and meta-

volcanic rocks, within the Central Gneiss Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Undivided Metamorphic Assembl. Alexander

PHYSIOGRAPHIC AREA: Kitimat Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY:

Assay/analysis

YEAR: 1988

SAMPLE TYPE: Grab

**GRADE** 

15.9000

COMMODITY Silver

Grams per tonne

Copper

0.8880 Per cent

Zinc

0.5000 Per cent

COMMENTS: Sample containing massive sulphides, pyrrhotite, minor chalcopyrite taken from fold nose (#74158). Over 1.4 metres.

REFERENCE: Assessment Report 17682.

CAPSULE GEOLOGY

The El Amino showing is located south of the Ecstall sulphide

deposit (103H 011), on Sulphide Creek.

The area is underlain by part of the north trending Ecstall Pendant, a metavolcanic-metasedimentary belt within the Central Gneiss Complex. The belt is approximately 8 kilometres wide and trends 170 degrees. It is bounded to the west by the Ecstall Pluton and to the east by the Quottoon Pluton, which are part of the exten-

sive Coast Range Intrusive Complex.

The Ecstall Pendant consists mainly of hornblende-plagioclase amphibolites with lesser amounts of quartzite, marble, migmatite and granitoid rocks of late Paleozoic or early Mesozoic age. These rocks have been metamorphosed to the amphibolite facies and are locally migmatitic along pluton margins.

A massive sulphide horizon outcrops on Sulphide Creek. Mineralization is hosted by quartzite and limy siltstone which has been folded into a tight antiform. Stratigraphy strikes at 258 degrees and dips 70 degrees east. The lensoid horizon measures 30 by

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

1.4 by 3 metres.

Mineralization consists of pyrrhotite, chalcopyrite, minor

discominated pyrite. The gangue consists sphalerite, galena and disseminated pyrite. The gangue consists of either calcite or silica.

A sample containing massive sulphides, pyrrhotite and chalcopyrite taken over 1.4 metres from the fold-nose in 1988 assayed 0.888 per cent copper, 0.5 per cent zinc and 15.9 grams per tonne silver (Assessment Report 17682 p.8).

A 60 centimetre wide mineralized zone, hosted in dark quartzite, was discovered in 1991 approximately 700 metres north of the original showing. Sphalerite, chalcopyrite, pyrite and galena are reported exposed along a 1.5-metre strike length (Assessment Report 22391).

### **BIBLIOGRAPHY**

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 279-312; 2001, pp. 151-170 EMPR ASS RPT \*17682, 20958, 22391 EMPR OF 1999-2; 2002-03 GSC MAP 23-1970; 1385A; 1868A GSC P 70-41

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CODED BY: LDJ REVISED BY:

FIELD CHECK: N FIELD CHECK:

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 072

NATIONAL MINERAL INVENTORY:

NAME(S): VG-2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103H05W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

472

NORTHING: 5902986 **EASTING: 435777** 

LATITUDE: 53 16 20 N LONGITUDE: 129 57 47 W ELEVATION: 125 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Location of sample VMR 88066 (Assessment Report 17332).

Silver

COMMODITIES: Copper

Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Epidote

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Paleozoic-Mesozoic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Sediment/Sedimentary

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Alexander

PHYSIOGRAPHIC AREA: Milbanke Strandflat

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: SAMPLE TYPE: Grab

Assay/analysis

YEAR: 1988

COMMODITY Silver

**GRADE** 19.8000

Grams per tonne 0.1980 Grams per tonne

Gold Copper

1.3600 Per cent

REFERENCE: Assessment Report 17332.

**CAPSULE GEOLOGY** 

The area is underlain by granodiorite of the Coast Plutonic Complex. Disseminated pyrite, with some epidote occurs in a rock of probable sedimentary composition, within granodiorite. A sample assayed 1.36 per cent copper, 19.8 grams per tonne silver and 0.198 grams per tonne gold (Assessment Report 17332).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*17332 GSC MAP 23-1970; 1385A

GSC P 70-41

DATE CODED: 1989/08/01 DATE REVISED: 1989/08/31

CODED BY: LDJ REVISED BY: LDJ

MINFILE NUMBER: 103H 072

FIFLD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 073

NATIONAL MINERAL INVENTORY:

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MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5970632

EASTING: 434409

REPORT: RGEN0100

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NAME(S): KUMEALON INLET LIMESTONE, KUMEALON LAGOON

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103H13W 103G16E BC MAP:

LATITUDE: 53 52 48 N LONGITUDE: 129 59 52 W

ELEVATION: 61 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Centre of the surface trace for the pure zone of limestone on the southwest shore of Kumealon Lagoon (Industrial Mineral File - Reyes,

F.A., 1985).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Dolomite
MINERALIZATION AGE: Paleozoic Pyrite

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R09 Lime Massive Industrial Min.

Limestone

DIMENSION: 6500 x 520 Metres STRIKE/DIP: 120/60W TREND/PLUNGE:

COMMENTS: The limestone deposit dips 55 to 90 degrees southwest.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

Paleozoic-Mesozoic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Coast Plutonic Complex

LITHOLOGY: Limestone

Schist **Biotite Schist** Greenstone Schist Granodiorite

HOSTROCK COMMENTS: Situated in a roof pendant within the Jurassic to Tertiary Coast

Plutonic Complex.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: KUMEALON LAGOON (PURE) REPORT ON: Y

> CATEGORY: YEAR: 1958 Inferred

QUANTITY: 19000000 Tonnes

GRADE 55.0600 COMMODITY Per cent Limestone

COMMENTS: Grade determined from chip sampling over a 24.4-metre section.

Reserves calculated for a deposit 1200 by 180 by 30 metres.

REFERENCE: Industrial Mineral File - Bown, C.D., 1958, page 7.

CAPSULE GEOLOGY

A 520-metre thick bed of limestone outcrops on either side of the head of Kumealon Inlet, on the east side of Grenville Channel, 54

kilometres south-southeast of Prince Rupert.

The limestone is situated in a sequence of metasediments comprising a roof pendant within the Jurassic to Tertiary Coast Plutonic Complex. The bed is bounded to the southwest by fine grained biotite schist and to the northeast by locally dioritized greenstone schist. The deposit strikes 120 degrees for at least 6.5 kilometres and dips 55 to 90 degrees southwest.

The bed is composed mostly of fine to coarse grained, white and bluish grey, high calcium limestone with some thin beds and lenticular masses of dolomite. The limestone becomes pyritic and interbedded with schist, over a 9-metre width, on the southwest margin of the deposit. Several inclusions of mica schist and igneous rock, up to 9-metres thick, occur within the limestone. A chip sample, taken over a 27.4-metre thick band of coarse grained, white

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RUN DATE: 26-Jun-2003 MINFILE MASTER REF

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

limestone near the northeast edge of the deposit, assayed 52.35 per cent CaO, 2.07 per cent MgO, 1.04 per cent SiO2, 0.18 per cent Al2O3, 0.14 per cent Fe2O3 and 0.04 per cent sulphur (CANMET Report 811, p. 176, Sample 36A).

Previous prospecting outlined a zone of purer limestone outcropping along the southwest shore of Kumealon Lagoon, 1000 to 2200 metres northwest of the head of Kumealon Inlet. The zone is comprised mostly of white, recrystallized, fine to coarse grained limestone with some blue to grey, coarse grained limestone and minor dolomite as lenses, streaks and beds up to 0.3 metre thick. The zone strikes 150 degrees for at least 1200 metres and dips vertically to steeply southwest. The bed is estimated to have an average stratigraphic thickness of 180 metres. The limestone contains minor fine grained, disseminated pyrite and rare tremolite. No dykes are evident within this zone. Eight, 3.05-metre, chip samples, taken in succession across a face parallel to the shore, averaged 55.06 per cent CaO, 2.11 per cent insolubles and 43.51 per cent ignition loss (Industrial Mineral File - C.D. Bown, 1958, Samples A to H). The zone is estimated to contain 19 million tonnes of limestone over a strike length of 1200 metres, with an average width of 180 metres and an average height above water of 30 metres (Industrial Mineral File - C.D. Bown, 1958, p. 7).

The deposit was examined by Columbia Cellulose Co. Ltd. of

Prince Rupert in 1958, during a search for local limestone sources.

### **BIBLIOGRAPHY**

DATE CODED: 1989/07/28 CODED BY: PSF FIELD CHECK: N
DATE REVISED: 1989/12/04 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103H 073

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 074

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5881515

EASTING: 493190

NAME(S): SABLE SABLE BLACK GRANITE, PRINCESS ROYAL

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103H03E

BC MAP: LATITUDE: 53 04 59 N LONGITUDE: 129 06 06 W

ELEVATION: 100 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The claims surround Barnard Harbour and cover Borde Island. Location taken from approximate centre of claim block, Assessment Report

22734.

COMMODITIES: Granite

**Dimension Stone** 

Industrial Min.

**Building Stone** 

**MINERALS** 

SIGNIFICANT: Albite ASSOCIATED: Olivine
MINERALIZATION AGE: Mesozoic Anorthite Orthoclase Hypersthene Magnetite

Diopside Ilmenite

Apatite

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Magmatic

TYPE: R03 Dimension stone - granite

**HOST ROCK** 

Mesozoic

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP

FORMATION

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

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Coast Plutonic Complex

LITHOLOGY: Melanocratic Anorthosite

HOSTROCK COMMENTS: The dimension stone prospect is an anorthosite phase within an area

mapped as "gabbro-diorite migmatite complex".

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Alexandér

PHYSIOGRAPHIC AREA: Hecate Depression

### CAPSULE GEOLOGY

The Sable is a dimension stone prospect located around Barnard Harbour on Princess Royal Island. The stone is melanocratic anorthosite, a minor phase of the Mesozoic Coast Plutonic Complex, and is marketed as 'black granite'. The target anorthosite is to minor to appear on the 1:250,000 scale map of Roddick (GSC MAP 23-1970); it falls within an area mapped as gabbro-diorite migmatite complex. Mineralogy of the anorthosite is fresh albite, anorthite, hypersthene, diopside, minor olivine and orthoclase, and accessory magnetite, ilmenite and apatite. The Sable 3-12 claims were staked and prospected in 1989 by A. Karup and F. Ayres while they were investigating a high magnetic anomaly. Samples were taken and polished for promotional material. They contracted Granitic Contacts in 1992 to evaluate the potential of the claims as a dimension stone property. Two zones of rock with favourable attributes (low fracture and joint density, quarryability, attractive texture, and absence of inclusions) were identified. The target rock, when broken, has a fresh sparkly black appearance with white speckles. The material polishes to dark black with a greenish hue. Samples were submitted for testing, and met the physical requirements as prescribed in ASTM C615 'Standard Specifications for Granitic Dimension Stone' for: Absorption and Density, Compressive Strength, Flexural Strength, and Modulus of Rupture.

The Sable III to IX claims are held in good standing until the end of February 2001 by Frank Ayres of Anaheim Lake and Anthony Karup of Bella Coola.

**BIBLIOGRAPHY** 

EMPR ASS RPT 22734 GSC MAP 23-1970

DATE CODED: 1999/07/02 CODED BY: JMR FIELD CHECK: N DATE REVISED: 1999/09/15 REVISED BY: JMR FIELD CHECK: N

> MINFILE NUMBER: 103H 074

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 075

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5885248 EASTING: 483156

REPORT: RGEN0100

476

NAME(S): BUNCH

STATUS: Anomaly REGIONS: British Columbia

NTS MAP: 103H03E 103H03W BC MAP:

LATITUDE: 53 06 59 N LONGITUDE: 129 15 06 W ELEVATION: 0 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location from southwest corner of claim block on Fish Bay, Gil

Island (Assessment Report 17987).

COMMODITIES: Copper

Lead

7inc

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Galena

COMMENTS: Mineralization found in float only.

ASSOCIATED: Quartz MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unknown Coast Plutonic Complex

LITHOLOGY: Quartz

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Hecate Depression

TERRANE: Alexander

CAPSULE GEOLOGY

The Bunch claim was staked in 1988 by United Pacific Gold Ltd. to cover a 500,000 nanogram gold anomaly in a pan concentrate. A float sample of smokey grey vitreous quartz mineralized with chalcopyrite, galena, and sphalerite was assayed and returned 0.997

gram per tonne gold and 0.424 per cent zinc.

**BIBLIOGRAPHY** 

EMPR ASS RPT 17987

DATE CODED: 1999/07/13 CODED BY: JMR FIELD CHECK: N DATE REVISED: / / REVISED BY: FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 076

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5912786

EASTING: 481885

REPORT: RGEN0100

477

NAME(S): CROWN OF THE SEA, COTS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H06W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 21 50 N LONGITUDE: 129 16 20 W ELEVATION: 0 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located 6 kilometres south of Hartley Bay on the west side of

Waterman Point.

COMMODITIES: Copper Silver Molybdenum Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite Molybdenite ASSOCIATED: Quartz Chlorite

ALTERATION: Pyrite
COMMENTS: Wallrock alteration is not obvious although disseminated pyrite occurs

adjacent to the vein.

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
DIMENSION: 20

Metres STRIKE/DIP: 231/46 TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metaplutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION

Mesozoic Coast Plutonic Complex

LITHOLOGY: Dioritic Gneiss

HOSTROCK COMMENTS: Migmatitic.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Alexander

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1988

SAMPLE TYPE: Grab

COMMODITY Copper **GRADE** 1.4200 Per cent 0.0138 Molybdenum Per cent

Gold 0.3100 Grams per tonne 3.0000 Silver Grams per tonne

COMMENTS: Patch of chalcopyrite in quartz (DVL 88044).

REFERENCE: EMPR Exploration 1988, p. B143.

**CAPSULE GEOLOGY** 

The showing is located about 6 kilometres south of Hartley Bay on the west side of Camp Point which is also known as Waterman Point.

The showing is underlain by dioritic gneiss belonging to a migmatitic complex which is part of the Coast Complex. Gneissic layering trends northwesterly, dips steeply east and is cut by numerous pegmatitic veinlets. A single quartz vein crops out on the shoreline and extends laterally for approximately 20 metres. The vein width varies from more than 60 centimetres to less than 1 centimetre near the western termination. The vein trends approximately 231 degrees and dips moderately to the north. A minon orthwest-trending left hand fault displaces the vein by  $1.5\,$  metres at one point. Patches of pyrite, chalcopyrite and dark green chlorite occur scattered throughout the white quartz. Flakes of molybdenite coat some fractures within the vein. Two out of four grab samples taken from the vein material assayed over 1 per cent copper and were anomalous in molybdenum and gold.

**BIBLIOGRAPHY** 

EMPR EXPL \*1988, p. B143

MINFILE NUMBER: 103H 076

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 70-41, 56 pages

MINFILE NUMBER: 103H 076

PAGE:

FIELD CHECK: N FIELD CHECK: Y

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 077

NATIONAL MINERAL INVENTORY:

NAME(S): FRIDAY THE 13TH

STATUS: Showing REGIONS: British Columbia NTS MAP: 103H13W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

479

LATITUDE: 53 59 07 N

NORTHING: 5982075 EASTING: 457870

LONGITUDE: 129 38 33 W ELEVATION: 61 Metres LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Zinc Copper

**MINERALS** 

SIGNIFICANT: Unknown COMMENTS: Reported as a highly gossanous band.

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Unknown

CLASSIFICATION: Unknown DIMENSION: 50 STRIKE/DIP: TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Unknown

**FORMATION** STRATIGRAPHIC AGE Devonian GROUP Unnamed/Unknown Group IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Formation

LITHOLOGY: Quartz Muscovite Schist

Hornblende Biotite Plagioclase Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl.

**CAPSULE GEOLOGY** 

The Friday the 13th occurrence is exposed in a logging road cut through an approximately 300-metre wide by a 3-kilometre long north trending belt of Devonian felsic quartz muscovite schist contained within an extensive package of mafic hornblende biotite plagioclase schist. A 50-metre long highly gossanous zone is reported to contain copper and zinc mineralization.

**BIBLIOGRAPHY** 

EM FIELDWORK \*1999, p. 263; 2000, pp. 279-306; 2001,

pp. 151-170 EMPR ASS RPT 26168 EMPR OF 2002-03 GSC MAP 23-1970; 1385A GSC P 70-41

DATE CODED: 2000/07/04 CODED BY: IW FIELD CHECK: N DATE REVISED: / / REVISED BY: FIELD CHECK: N

MINFILE NUMBER: 103H 077

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 078

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5938525

EASTING: 499338

REPORT: RGEN0100

480

NAME(S): **DANI** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103H11E 103H10W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 53 35 44 N

LONGITUDE: 129 00 36 W ELEVATION: 160 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of Dani 1-4 claims.

COMMODITIES: Zinc Silver Gold I ead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Pyrite Galena

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Stratiform Massive

CLASSIFICATION: Volcanogenic

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic Central Gneiss Complex

LITHOLOGY: Felsic Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl.

INVENTORY

ORE ZONE: MAIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 2002

SAMPLE TYPE: Grab

COMMODITY Zinc **GRADE** 10.2000 Per cent Silver 203.0000 Grams per tonne 1.2600 Grams per tonne Gold 5.7000 Per cent Lead

REFERENCE: PR REL Southern Rio Resources Ltd., August 20, 2002.

**CAPSULE GEOLOGY** 

The Dani prospect is located 3.7 kilometres west-northwest of the head of Danube Bay on the east side of Hawkesbury Island, Douglas Channel, at elevations between 80 metres and 480 metres. Prospectors Sean Turford, Ralph Keefe and Brian Remander made the discovery in August 2000 and optioned it to Southern Rio Resources Ltd. in 2002. The property covers a polymetallic massive sulphide occurrence, at the south end of the Ecstall volcanic belt (EMPR FIELDWORK 200, pp. 279-305), and is hosted by mid-Cretaceous, pyrite bearing, felsic schist. Two samples of massive sulhpide boulders collected assayed

10.2 per cent zinc, 5.7 per cent lead, 203 grams per tonne silver and 1.26 grams per tonne gold; and 6.1 per cent zinc, 1.9 per cent lead, 71 grams per tonne silver and 1.26 grams per tonne gold, respectively (Press Release,

Southern Rio

Resources Ltd., August 20, 2002). The massive sulphides occur as bands within a 50-metre to 100-metre wide zone.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 2000, pp. 279-305

EMPR OF 1994-14

PR REL Southern Rio Resources Ltd., Aug. 20, Sept. 9, 2002

WWW http://www.southernrio.com

FIELD CHECK: N DATE CODED: 2002/09/01 DATE REVISED: 2002/09/19 CODED BY: IW REVISED BY: IW

MINFILE NUMBER: 103H 078

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 001

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6085651 EASTING: 538354

REPORT: RGEN0100

481

NAME(S): BUCCANEER OF THE NORTH, BOCKNER OF THE NORTH, RITCHIE, TERRACE MARL

STATUS: Past Producer Open Pit MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103I16W

BC MAP:

LATITUDE: 54 54 59 N LONGITUDE: 128 24 06 W

ELEVATION: 130 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing 5 (Geological Survey of Canada Memoir 329, Map 1136A).

COMMODITIES: Marl

MINERALS
SIGNIFICANT: Calcite
Ouster MINERALIZATION AGE: Quaternary

**DEPOSIT** 

CHARACTER: Massive Unconsolidated CLASSIFICATION: Sedimentary Industrial Min.

TYPE: B07 E SHAPE: Tabular Bog Fe, Mn, U, Cu, Au

DIMENSION: 180 x 115 x 10 STRIKE/DIP: TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Marl

Unconsolidated Sediment/Sedimentary

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: BASIN REPORT ON: Y

> CATEGORY: Inferred YEAR: 1990

QUANTITY: 41000 Tonnes

COMMODITY **GRADE** Marl 100.0000 Per cent

COMMENTS: Reserves of dry marl contained in a depression with dimensions of 110 by 115 by 5 metres, assuming a moisture content of 50 per cent.

REFERENCE: Fieldwork 1989, page 495.

ORE ZONE: SOUTHEAST REPORT ON: Y

> YEAR: 1990 CATEGORY: Inferred

QUANTITY: 47400 Tonnes

**GRADE COMMODITY** Marl 100.0000 Per cent

COMMENTS: Reserves of dry marl contained on a bench, assuming a moisture content

of 50 per cent. REFERENCE: Fieldwork 1989, page 495.

**CAPSULE GEOLOGY** 

The Buccaneer of the North marl deposit is located 1 kilometre west of the Canadian National Railway Ritchie siding, 46 kilometres

north-northeast of Terrace.

The deposit lies on a wide gravel bench of glaciofluvial origin in an ephemeral kettle lake within an abandoned channel of the Skeena River. This glaciofluvial cover of gravel and sand is in excess of 10 metres thick and overlies Jurassic to Cretaceous Bowser Lake Group sediments.

The marl is contained in a depression 110 metres wide and 115 metres long and continues south-southeast for at least 70 metres beneath a gently dipping bench. Hand drilling in the depression encountered 9 metres of marl. The deposit is reported to thicken to 10 metres at the east end of the bench. Reserves for the entire deposit are estimated to range between 64600 and 88400 tonnes of dry

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

marl assuming a moisture content of 30 to 50 per cent for the crude marl (Fieldwork 1988, p. 495).

The deposit is comprised of white to light grey to medium green-grey laminated marl containing abundant fragments of roots, wood and aquatic mosses. Pelecypod and gastropod shells are also present. The average analysis of eight grab samples is as follows in per cent (Fieldwork 1989, p. 496):

> CaO 45.88 MgO 0.63 sĭo2 7.94 A1203 1.79 Fe203 0.70 MnO 0.01 TiO2 0.09 K20 0.34 Na20 0.55 P205 0.06 BaO 0.03 Sulphur 0.03 40.45 L.O.I.

A total of 111 tonnes of marl were produced by Anderson and Johnson in 1936 and 1939.

### **BIBLIOGRAPHY**

EMPR AR 1931-72; 1932-90; 1935-C34 EMPR FIELDWORK \*1989, pp. 493-499 EMPR MAP 8; 69-1 EMPR PF (\*Lay, D., PR PF (\*Lay, D., (1935): Map; \*Equity Silver Mines Ltd. (1988): Map, Assays; Energy, Mines and Petroleum Resources (1989): Assays) GSC MAP 11-1956; 1136A; 1385A GSC MEM \*212, pp. 54,55; 329, p. 98

DATE CODED: 1986/09/30 DATE REVISED: 1991/03/29 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

> 103I 001 MINFILE NUMBER:

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 002

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6087970 EASTING: 509307

REPORT: RGEN0100

483

NAME(S): NASS-SKEENA, CEDAR RIVER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I15W BC MAP:

LATITUDE: 54 56 19 N
LONGITUDE: 128 51 17 W
ELEVATION: 300 Metres
LOCATION ACCURACY: Within 1 KM COMMENTS: Description.

COMMODITIES: Coal

**MINERALS** 

SIGNIFICANT: Coal MINERALIZATION AGE: Jurassic-Cretaceous

DEPOSIT

Concordant Massive

CHARACTER: Stratabound Co CLASSIFICATION: Sedimentary Fo TYPE: A03 Sub-bituminous coal SHAPE: Irregular Fossil Fuel

DIMENSION: STRIKE/DIP: 070/50N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Coal

Graphitic Slate Sandstone

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Bowser Lake

**CAPSULE GEOLOGY** 

Several coal seams, striking 070 degrees and dipping 50 degrees north, are concordent with sandstone and black graphitic slate of the Jurassic to Cretaceous Bowser Lake Group. The seams vary from 0.9 to 1.2 metres wide. A 0.76 metre sample from Coal-seam No. 1 analysed 4.0 per cent moisture, 2.0 per cent volatile combustible matter, 45.0 per cent fixed carbon, and 49.0 per cent ash (Minister of Mines Annual Report 1914).

A 0.9 metre sample, 240 metres northeast of No. 1 seam, analysed 5.8 per cent moisture, 4.2 per cent volatile combustible, 67.3 per cent fixed carbon, and 22.7 per cent ash (Minister of Mines Annual Report 1914).

**BIBLIOGRAPHY** 

EMPR AR \*1914-108,109; 1919-43; 1922-47

EMPR COAL ASS RPT 229

GSC MAP 11-1956; 1136A; 1385A GSC MEM 205, p. 7; 329 GSC SUM RPT 1922A, p. 49

DATE CODED: 1986/09/29 DATE REVISED: 1986/09/29 CODED BY: LDJ REVISED BY: CB FIELD CHECK: N

> MINFILE NUMBER: 1031 002

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 003

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 6089678 EASTING: 445899

REPORT: RGEN0100

484

NAME(S): BURTON CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 57 04 N
LONGITUDE: 129 50 41 W
ELEVATION: 100 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Map VIII.4 (McDonald, 1978).

COMMODITIES: Hotspring

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Hydrothermal TYPE: T02 Geothe

Industrial Min.

Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleocene Ponder Pluton

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

**CAPSULE GEOLOGY** 

The area is underlain by granodiorite of the Tertiary Ponder pluton. A small volume of water issues at 45.0 degrees Celsius and

with a pH of 6.62.

**BIBLIOGRAPHY** 

GSC MAP 1136A; 1385A

GSC MEM 329

McDonald, J. (1978): Hotsprings of Western Canada, A Complete Guide; Labrador Tea Company, Vancouver, pp. 109,110

DATE CODED: 1986/09/22 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> 1031 003 MINFILE NUMBER:

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 004

NATIONAL MINERAL INVENTORY:

NAME(S): **LAKELSE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l07E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

485

LATITUDE: 54 21 34 N LONGITUDE: 128 32 26 W ELEVATION: 75 Metres NORTHING: 6023612 EASTING: 529856

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Hotspring Lithium

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown
CLASSIFICATION: Hydrothermal
TYPE: T02 Geoth Industrial Min.

Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex

LITHOLOGY: Granodiorite

Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Kitimat Trench

CAPSULE GEOLOGY

Quaternary sediments overlie granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. The hot springs flow at a rate of 457 litres per minute, are 52.0 degrees to 73.5 degrees Celsius, and have a pH of 7.96 to 6.52. The springs have a continuous gas discharge. Chemical analysis of the springs is as follows (in parts per million): 46.6 Ca, 0.5 Mg, 320.1 Na, 15.6 CO3, 457.0 SO4, 215.9 Cl, 3.3 F, 50.6 SiO2 and 1186 total dissolved solids (\*Property File, Local 1951). A high gentont of lithium has been reported to be 10.20. Leach, 1951). A high content of lithium has been reported to be 10.2

parts per million (Geological Survey of Canada Paper 73-18).

**BIBLIOGRAPHY** 

EMPR AR 1914-111; 1930-80 EMPR PF (\*Leach, T.A.J. (1951): Survey of Lakelse Hot Springs) GSC MAP 1136A; 1385A GSC MEM 329, p. 100

GSC P 73-18, pp. 231,232 GSC SUM RPT 1926A, p. 44 McDonald, J., (1978): Hotsprings of Western Canada, A Complete

Guide; Labrador Tea Company, Vancouver, pp. 102,103

DATE CODED: 1986/09/22 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 005

NATIONAL MINERAL INVENTORY:

NAME(S): FRIZZELL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l04W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

486

LATITUDE: 54 12 19 N
LONGITUDE: 129 52 16 W
ELEVATION: 30 Metres
LOCATION ACCURACY: Within 500M

NORTHING: 6006712 EASTING: 443181

COMMENTS:

COMMODITIES: Hotspring

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown
CLASSIFICATION: Hydrothermal
TYPE: T02 Geothe Industrial Min.

Geothermal spring

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary \_\_GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Fcstall Pluton

LITHOLOGY: Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

CAPSULE GEOLOGY

The area is underlain by quartz diorite of the Cretaceous to Tertiary Ecstall pluton. The hot springs flow at 915 litres per minute, are 38.0 to 46.0 degrees Celsius and have a pH from 7.66 to 7.86. They have a slight gas discharge. Analysis of the water gave the following results, in "grains per gallon": total solids 64, chlorine 1.7, sulphur 11.2, and sodium chloride 44.8 (Minister of

Mines Annual Report 1901).

**BIBLIOGRAPHY** 

EMPR AR 1901-996; 1930-80

EMPR MAP 8

GSC MAP 1472A; 12-1966; 1136A; 1385A; 1868A

GSC MEM 329; 394
McDonald, J. (1978): Hotsprings of Western Canada, A Complete Guide;
Labrador Tea Company, Vancouver, pp. 104,105

DATE CODED: 1986/09/22 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 1031 005

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 006

NATIONAL MINERAL INVENTORY:

NAME(S): LA PORTE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l04W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

487

LATITUDE: 54 10 19 N

NORTHING: 6003056 EASTING: 438965

LONGITUDE: 129 56 06 W ELEVATION: 100 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1934, page B9.

Silver

COMMODITIES: Gold

Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Unknown

TYPE: I02 Intrusion-related Au pyrrhotite veins L01 Subvolcanic Cu-Ag-Au (As-Sb)

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP

**FORMATION** IGNEOUS/METAMORPHIC/OTHER Ecstall Pluton

LITHOLOGY: Quartz Diorite

Pegmatite Aplite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

INVENTORY

ORE ZONE: LENS REPORT ON: N

> YEAR: 1934 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Silver 51.4000 Grams per tonne Gold 8.2000 Grams per tonne Per cent

Copper 4.4000 Per COMMENTS: This is from a composite sample from a 1.5 by 0.4 metre lens.

REFERENCE: Minister of Mines Annual Report 1934, pages B9,B10.

**CAPSULE GEOLOGY** 

The area is underlain by quartz diorite of the northern part of the Cretaceous to Tertiary Ecstall pluton. Quartz veins with auriferous pyrite and chalcopyrite lenses are associated with pegmatite and aplite dykes. Erratic mineralization occurs along a 60.0 metre, northwest strike, dipping about 15 degrees northeast. composite sample of a 1.5 by 0.4 metre lens, assayed 8.2 grams per tonne gold, 51.4 grams per tonne silver and 4.4 per cent copper

(Minister of Mines Annual Report 1934).

**BIBLIOGRAPHY** 

EMPR AR \*1934-B9, B10; 1935-B26

EMPR MAP 8

GSC MAP 12-1966; 1136A; 1385A; 1472A; 1868A GSC MEM 329; 394

DATE CODED: 1986/09/15 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 007 NATIONAL MINERAL INVENTORY: 103I4 Zn1

NAME(S): SCOTIA, ALBERE

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l04E BC MAP:

LATITUDE: 54 04 54 N

LONGITUDE: 129 40 26 W ELEVATION: 847 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Massive sphalerite zone (Assessment Report 10332).

COMMODITIES: Zinc. Silver Gold I ead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Chalcopyrite Galena Pyrite Pyrrhotite **Bornite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound

CLASSIFICATION: Volcanogenic

TYPE: G06 SHAPE: Tabular Noranda/Kuroko massive sulphide Cu-Pb-Zn

MODIFIER: Folded

TREND/PLUNGE: DIMENSION: 228 x 25 x 20 Metres STRIKE/DIP: 160/40W

COMMENTS: Three ore zones, of varying width, strike 160 degrees for 228 metres, dip 40 degrees southwest and plunge 9 degrees south. The zones occur

within a 25 metre thickness and about a 20 metre width.

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP
Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** Central Gneiss Complex

LITHOLOGY: Felsic Gneiss

Mafic Gneiss **Amphibolite** 

HOSTROCK COMMENTS: Unit 1C - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl.

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Amphibolite

INVENTORY

ORE ZONE: ALBERE REPORT ON: Y

> CATEGORY: QUANTITY: Combined YFAR: 1998

224000 Tonnes **GRADE** COMMODITY

Silver 23.0000 Grams per tonne Gold 0.5500 Grams per tonne 0.2000 Copper Per cent Lead 1.2000 Per cent 7inc 12.2000 Per cent

COMMENTS: Measured drill indicated and probable resource, using a cut-off of 4

to 5 per cent zinc over a 1.8-metre width. REFERENCE: GCNL #7 (January 12), 1998.

REPORT ON: Y ORE ZONE: ALBERE

> CATEGORY: Indicated YEAR: 1998 QUANTITY: 1340000 Tonnes

**GRADE** COMMODITY Silver 13.0000 Grams per tonne Gold 0.2500 Grams per tonne Lead 0.4000 Per cent 3.8000 Per cent Zinc

Copper 0.1000 Per cent COMMENTS: Global drill indicated resource calculated using 1 per cent zinc over a 0.5-metre width.

REFERENCE: GCNL #7 (January 12), 1998.

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5992818

EASTING: 455914

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### INVENTORY

ORE ZONE: SCOTIA REPORT ON: Y

CATEGORY: Inferred YEAR: 1984 QUANTITY: 150000 Tonnes

<u>COMMODITY</u> <u>GRADE</u>

 Silver
 25.0000
 Grams per tonne

 Lead
 1.4000
 Per cent

Zinc 13.3000 Per cent COMMENTS: Indicated potential.

REFERENCE: SMF - Andaurex Resources Inc., August 29, 1984.

#### **CAPSULE GEOLOGY**

The Scotia property is situated on the east side of the Ecstall pluton and is underlain by an assemblage of gneissic rocks which are part of the Paleozoic(?) Central Gneiss Complex. The gneissic rocks include felsic gneiss, mafic gneiss and amphibolite. Severely deformed volcanogenic massive sulphide mineralization occurs mainly within the felsic gneiss.

within the felsic gneiss.

Zinc, silver, lead and gold mineralization occur within an Upper-Middle-Lower zone striking 160 degrees for 228 metres, dipping 40 degrees southwest and plunging 9 degrees south. The ore zones are interpreted to lie within an overturned fold with related drag folding caused by shearing (Assessment Report 13794). Sulphide minerals include sphalerite, galena, pyrite, pyrrhotite, bornite and chalcopyrite. Massive sulphide widths range up to 11 metres as indicated by diamond drilling. A 9.02 metre intersection assayed 20.55 per cent zinc, 2.70 per cent lead, 41.5 grams per tonne silver and 0.58 grams per tonne gold (Assessment Report 13794).

Indicated potential reserves for the Scotia volcanogenic massive sulphide deposit are 150,000 tonnes grading 13.3 per cent zinc, 1.4 per cent lead and 25.0 grams per tonne silver (Statement of Material Facts, Andaurex Resources Inc., August 29, 1984).

Bishop Resources Inc. conducted a 10-hole drilling program in 1997. The drilling was conducted within a north-south strike length of 310 metres. A global resource is contained within an east-west dimension of about 100 metres while a drill indicated resource is within a 50-metre width. Resource calculations are for the Albere Zone. The measured drill indicated and probable resource was 224,000 tonnes grading 12.2 per cent zinc, 1.2 per cent lead, 0.2 per cent copper, 23 grams per tonne silver and 0.55 grams per tonne gold. This resource was calculated using a cut-off of 4 to 5 per cent zinc over a 1.8-metre width (GCNL #7(January 12), 1998).

The global resource was calculated using 1 per cent zinc over a

The global resource was calculated using 1 per cent zinc over a 0.5-metre width. This global drill indicated resource is calculated to be 1,240,000 tonnes grading 3.8 per cent zinc, 0.4 per cent lead, 0.1 per cent copper, 13 grams per tonne silver and 0.25 grams per tonne gold. The alteration zone hosting sulphide mineralization is considered to be open down-dip to the west and along strike to the north.

In 1999, Doublestar Resources Ltd. plans to acquire the property from Falconbridge Limited.

### **BIBLIOGRAPHY**

EM FIELDWORK 1999, pp. 249-265; 2000, pp. 269-306; 2001, pp. 151-170 EM PF Bishop Resources Website (May 2000) EMPR AR 1960-12 EMPR ASS RPT \*9302, 10332, 13794, 16795, 25862, 25612 EMPR EXPL 1980-391; 1985-C372; 1988-C201; 1997-14; 1999-19-31 EMPR MAP 58; 65 (1989) EMPR OF 1992-1; 1999-2; 1998-10 EMR MIN BULL MR 223 B.C. 286 EMR MP CORPFILE (Andaurex Resources Inc.) GSC MAP 12-1966; \*1472A; 11-1956; 1136A; 1385A; 1868A GSC MEM 329; 394, p. 98 GSC P 66-33, p. 23 GCNL #180,#186,#219, 1984; #189 (Oct.1), #240 (Dec.15), #241 (Dec.16), 1997; \*#7 (Jan. 12), 1998; #189(Oct.1), 1999 N MINER May 3,10, Sept.20,Nov.22, 1984; Aug.22, 1985; Feb.17, 1986 WWW http://www.bishopresources.com/; http://www.infomine.com/MCLeod, J.W. (1984): Report on West Scotia Property in Statement of Material Facts for Andaurex Resources Inc., Aug. 29, 1984

DATE CODED: 1986/09/15 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/23 REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 008

NATIONAL MINERAL INVENTORY:

NAME(S): **KWINITSA** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l04E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

490

LATITUDE: 54 13 29 N

NORTHING: 6008681 EASTING: 462042

LONGITUDE: 129 34 56 W ELEVATION: 10 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Salt deposit (Minister of Mines Annual Report 1913).

COMMODITIES: Clay

Sodium Chloride

Industrial Min.

**MINERALS** 

SIGNIFICANT: Clay ASSOCIATED: Clay MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound

CLASSIFICATION: Sedimentary

TYPE: F09 E07 Playa and Alkaline Lake Evaporites B06 Fireclay

Sedimentary kaolin

SHAPE: Tabular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP

FORMATION Recent

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

LITHOLOGY: Salts

Clay

Quartz Diorite

Biotite Garnet Sillimanite Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Undivided Metamorphic Assembl. Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Assay/analysis CATEGORY:

YEAR: 1913

SAMPLE TYPE: Rock

**GRADE** 

COMMODITY Sodium Chloride

COMMENTS: Analysis is of a dry sample which is sodium chloride and includes

98.1500 Per cent

1.82 per cent calcium sulphate. REFERENCE: Minister of Mines Annual Report 1913, pages 85-87.

**CAPSULE GEOLOGY** 

A basin, about 2.7 kilometres wide, contains a 50 metre thick layer of salt and mud below a 30 metre thick layer of clay. The basin is bounded to the west by quartz diorite and to the east by biotite-garnet-sillimanite-hornblende gneiss. Analysis of a dry sample gave 98.15 per cent sodium chloride and 1.82 per cent calcium

sulphate (Minister of Mines Annual Report 1913).

**BIBLIOGRAPHY** 

EMPR AR \*1913-85-87; 1930-80 GSC MAP 12-1966; 1472A; 1136A; 1385A; 1868A

GSC MEM 329; 394, p. 98 GSC P 66-33, p. 23 GSC SUM RPT 1912, p. 57

DATE CODED: 1986/09/15 CODED BY: LDJ DATE REVISED: 1989/08/15 REVISED BY: LLD

> MINFILE NUMBER: 1031 008

FIELD CHECK: N

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 009

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

491

NAME(S): A.E. BARR QUARRY, SHAMES

STATUS: Past Producer Open Pit MINING DIVISION: Skeena REGIONS: British Columbia

LATITUDE: 54 25 30 N NORTHING: 6030814

DNGITUDE: 128 53 49 W EASTING: 506686

LONGITUDE: 128 53 49 W ELEVATION: 274 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Location centered on quarry as plotted on map 103I/7W in Industrial

Minerals File.

COMMODITIES: Limestone Marble Building Stone

**MINERALS** 

SIGNIFICANT: Calcite
ASSOCIATED: Pyrite Mica

MINERALIZATION AGE: Lower Permian

**DEPOSIT** 

CHARACTER: Stratiform Massive
CLASSIFICATION: Sedimentary Industrial Min.
TYPE: R09 Limestone

TYPE: R09 Limestone SHAPE: Irregular

MODIFIER: Faulted Fractured DIMENSION: 3100 x 120 Metres

DIMENSION: 3100 x 120 Metres STRIKE/DIP: 060/80N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Limestone

Greenstone Quartz Mica Schist Amphibolite Meta Flow Meta Tuff Meta Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: QUARRY REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1954 SAMPLE TYPE: Chip

COMMODITY GRADE

Limestone 53.1000 Per cent

COMMENTS: Across 19.5 metres of limestone, grade given for CaO.

REFERENCE: Annual Report 1954 page 181, Sample 4.

**CAPSULE GEOLOGY** 

A 30 to 120 metre thick Lower Permian bed of limestone extends northeasterly for 3.1 kilometres along the northwest side of the Skeena River, 21 kilometres southwest of Terrace. The bed is underlain by undefined metamorphic rocks of amphibolite facies and overlain by metamorphosed flows, tuffs and breccias of the Telkwa (?) Formation. The bed strikes 050 to 060 degrees and dips 68 to 80 degrees northwest. Several cross faults have segmented the bed. The limestone is extensively fractured and intruded by a few narrow

The bed is composed of brownish to greenish and bluish grey to white, coarse grained limestone interbedded with lenses of greenstone and mica schist. Disseminated pyrite and flakes of mica are sometimes present. The quality of the limestone varies considerably from place to place. A chip sample taken across 9.75 metres of white limestone exposed in a quarry face contained 48.9 percent CaO, 4.4 percent MgO, 2.5 percent acid insolubles and 0.35 percent Fe2O3 (EMPR Annual Report 1954, p. 181 - Sample 1). A sample taken across 19.5 metres of limestone 67 metres northeast of the quarry contained 53.10

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

percent CaO, 1.6 percent MgO, 1.2 percent acid insolubles and 0.14 percent Fe2O3 (EMPR Annual Report 1954, p. 181 - Sample 4).

Limestone was produced from a quarry on Lot 4510, 650 metres northeast of the Shames River between 1953 and 1956 for the Columbia Cellulose pulp mill at Port Edward. A total of 15,664 tonnes of limestone was quarried.

### **BIBLIOGRAPHY**

EMPR AR 1914-152; 1916-97; 1953-191; \*1954-180,181; 1955-94 EMPR MAP 8 EMPR PF (Map of workings and sample locations, 1965) GSC MAP 1136A; 278A; 11-1956; 1385A GSC MEM \*329, pp. 16,98,99 GSC OF 1136 CANMET RPT \*452, Vol.5 pp. 175-177; 811, Part 5 p.218, Map 812; 719, p. 64

DATE CODED: 1986/09/30 DATE REVISED: 1989/08/15 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

> MINFILE NUMBER: 1031 009

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 010

NATIONAL MINERAL INVENTORY:

NAME(S): **AUTUMN** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l07W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

493

LATITUDE: 54 26 24 N

NORTHING: 6032490 EASTING: 510521

LONGITUDE: 128 50 16 W ELEVATION: 120 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol 58, Map 1136A (Geological Survey of Canada Memoir 329).

COMMODITIES: Copper Gold Iron Limestone Silver

**MINERALS** 

Chalcopyrite **Bornite** Magnetite Calcite

Silica

SIGNIFICANT: Pyrite
ALTERATION: Epidote
ALTERATION TYPE: Silicific'n **Propylitic** MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated CLASSIFICATION: Replacement TYPE: L01 Subve Industrial Min. Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

MODIFIER: Sheared DIMENSION:

STRIKE/DIP: 050/65N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION GROUP** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Permian Unnamed/Unknown Formation

**Undefined Group** Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Greenstone

Limestone Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Contact Plutonic Rocks **RELATIONSHIP:** GRADE:

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay/analysis YEAR: 1929 SAMPLE TYPE: Chip

**GRADE** 

COMMODITY Silver 6.9000 Grams per tonne Copper 1.3000 Per cent

COMMENTS: The sample width is 1.7 metres. REFERENCE: Minister of Mines Annual Report 1929.

CAPSULE GEOLOGY

Greenstones and recrystallized limestones, of probable Permian age, strike 050 degrees and dip 65 degrees northwest. These rocks are sheared and metamorphosed by the emplacement of granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex.

Silicified and epidotized shear zones contain sparse pyrite,

chalcopyrite, bornite and magnetite. A 1.7 metre chip sample of the main shear zone assayed 1.3 per cent copper, 6.9 grams per tonne silver and trace gold (Minister of Mines Annual Report 1929).

**BIBLIOGRAPHY** 

EMPR AR \*1916-97,98; 1917-45; 1922-47; 1923-46; 1924-47; 1926-72; 1927-62,63; \*1929-76,77; 1930-73

EMPR ASS RPT 1202

EMPR MAP 8

GSC MAP 278A; 1136A; 11-1956; 1385A

GSC MEM \*205, pp. 5,24; 329, p. 77; 212, p. 5 GSC P 36-17, pp. 39,40

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC SUM RPT 1925A, pp. 118,119

DATE CODED: 1986/10/01 DATE REVISED: 1989/08/11 FIELD CHECK: N FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 1031 010

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 011

NATIONAL MINERAL INVENTORY: 103I4 Sil1

PAGE:

NORTHING: 6009278 EASTING: 464709

REPORT: RGEN0100

495

NAME(S): KWINITSA SILLIMANITE, KWINITSA GARNET, FEAK CREEK, SNAG POINT

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103l04E 103l03W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 54 13 49 N LONGITUDE: 129 32 29 W ELEVATION: 150 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Part of a 20 kilometre zone, striking northwest; location given is at north end of zone, along Highway 16, 1.0 kilometre east of, Kwinitsa (Area 2, Figure 9, Open File 1988-26).

COMMODITIES: Sillimanite Garnet

**MINERALS** 

Garnet

SIGNIFICANT: Sillimanite ASSOCIATED: Biotite Quartz Feldspar

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered Stratabound CLASSIFICATION: Metamorphic Industrial Min.

TYPE: P02 SHAPE: Tabular Kyanite-sillimanite schists

MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Central Gneiss Complex

LITHOLOGY: Garnet Sillimanite Gneiss

Biotite Quartz Feldspar Gneiss Biotite Hornblende Gneiss Amphibolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Undivided Metamorphic Assembl.

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

The area around Kwinitsa is dominantly underlain by grey biotite plus or minus hornblende gneiss, amphibolite and minor sillimanite plus or minus garnet gneiss. Two sillimanite occurrences, noted on Geological Survey of Canada Map 3-1965, are located on the north side of the Skeena River, one opposite the mouth of Feak Creek, and the other north of Snag Point. These occurrences are part of a 20 kilometre zone which strikes northwest.

The gneisses are part of the Paleozoic(?) Central Gneiss Complex

of the Prince Rupert-Skeena map areas.
Locally, 1.0 kilometre east of Kwinitsa, along Highway 16, excellent exposures of garnet-sillimanite-quartz-feldspar gneisses contain between 5 to 30 per cent garnet and 5 to 30 per cent sillimanite. The sillimanite is generally present in densely felted layers ranging from 0.2 to 2.5 centimetres in thickness (Geological Survey of Canada Memoir 394). Similar mineralization occurs around Khatada Lake to the south (refer to Khatada Lake 103I 220).

**BIBLIOGRAPHY** 

EMPR OF \*88-26, p. 15

GSC MAP \*3-1965; 12-1966; 1136A; 1385A; 1868A

GSC MEM \*394

GSC P 66-33

DATE CODED: 1988/03/28 CODED BY: FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/02/01 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 012

NAME(S): GOLDEN CROWN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 35 39 N LONGITUDE: 128 23 11 W ELEVATION: 250 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions from Minister of Mines Annual Report 1914, page 129;

Crown granted Lots 5661-5664.

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite Gold Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic TYPE: I02 Int

Intrusion-related Au pyrrhotite veins

SHAPE: Irregular

MODIFIER: Fractured DIMENSION:

STRIKE/DIP: 140/40E TREND/PLUNGE:

I 01

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> Assay/analysis YEAR: 1937 CATEGORY:

SAMPLE TYPE: Channel

COMMODITY **GRADE** 

78.2000 Grams per tonne Silver 12.3000 Gold Grams per tonne

COMMENTS: The sample width is 40 centimetres.

REFERENCE: Geological Survey of Canada Memoir 212.

**CAPSULE GEOLOGY** 

Granodiorite of the Cretaceous to Tertiary Coast Plutonic ex intrudes Jurassic Hazelton volcanics. Three parallel Complex intrudes Jurassic Hazelton volcanics. Three parallel fracture zones, which strike 140 degrees and dip 40 degrees east, occur in the granodiorite. The fractures contain quartz lenses, up to 1.5 metres wide, which locally contain coarse pyrite and chalcopyrite. A 40-centimetre channel sample of one vein assayed 12.3 grams per tonne gold and 78.2 grams per tonne silver (Geological

Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR AR 1901-997, 999; 1902-46; 1903-52; 1904-101; 1905-82; 1908-65;

1909-84; \*1914-129-131; 1919-98; 1920-81-83; 1921-95,96; 1934-C2; 1939-68

EMPR MAP 8; 69-1

EMPR PF (Rpts by D.C. McKay, 1922; W.J. El H.L. Batten, 1931; Map by D. Lay, 1925) Elmendorf, 1924;

EMR MP CORPFILE (Kleanza Company, Limited)

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*212, pp. 13,14; 329

GSC P 36-20, pp. 15,16

PAGE:

NATIONAL MINERAL INVENTORY: 10319 Au4

MINING DIVISION: Omineca

Subvolcanic Cu-Ag-Au (As-Sb)

UTM ZONE: 09 (NAD 83)

NORTHING: 6049805 EASTING: 539647

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC SUM RPT 1925A, p. 117

DATE CODED: 1986/12/05 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1031 012

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 013

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

498

NAME(S): LADY LUCK

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l07E BC MAP:

LATITUDE: 54 23 19 N NORTHING: 6026809 **EASTING: 521087** 

LONGITUDE: 128 40 31 W ELEVATION: 280 Metres LOCATION ACCURACY: Within 500M

COMMENTS: North end of main zone, Map 3 (Assessment Report 3585).

COMMODITIES: Zinc Molybdenum Lead Silver Copper

Iron

**MINERALS** 

SIGNIFICANT: Sphalerite Chalcopyrite Pyrite Molybdenite Magnetite

Galena ASSOCIATED: Epidote
ALTERATION TYPE: Skarn Garnet Chlorite Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Massive

Industrial Min. CLASSIFICATION: Skarn Replacement

K01 TYPE: K02 Pb-Zn skarn Cu skarn K07 Mo skarn

SHAPE: Irregular

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Undefined Group Unnamed/Unknown Formation Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Greenstone

Granodiorite Diorite Quartzite Graphitic Shale

Argillaceous Limestone

**GEOLOGICAL SETTING** 

DNIC BELT: Coast Crystalline TERRANE: Stikine TECTONIC BELT: PHYSIOGRAPHIC AREA: Kitimat Trench

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YEAR: 1973 Assav/analysis

SAMPLE TYPE: Drill Core <u>GRADE</u>

COMMODITY Silver 6.2000 Grams per tonne 0.8700 Copper Per cent Molybdenum 0.0430 Per cent

COMMENTS: The sample width is 1.5 metres.

REFERENCE: Assessment Report 4978.

CAPSULE GEOLOGY

Paleozoic sediments and volcanics are intruded by diorite, which has been intruded by a north west trending granodiorite stock and related dykes. The intrusives are part of the Cretaceous to Tertiary Coast Plutonic Complex. The volcanic rocks consist of greenstones and the sediments are largely coarsely recrystallized limestone and thin headed impure grantities with intercal took graphic and thin-bedded impure quartzites with intercalated graphitic shale and argillaceous limestone. Locally, the limy sediments are altered to skarn composed of epidote and garnet with lesser amounts of calcite and magnetite. Disseminations and patches of pyrite, sphalerite, chalcopyrite and molybdenite occur in several of the skarn zones.

The main mineralized zone measures 490 by 30 metres and trends

northwest near the granodiorite contact. A smaller parallel zone, 260 metres to the northeast, contains assays of 0.55 per cent copper, 22.0 per cent zinc, 0.01 per cent molybdenum and 21 grams per tonne silver (Assessment Report 4978). Average assays of a trench in the

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

south part of the main zone gave 0.32 per cent copper, 0.80 per cent zinc and 0.29 per cent molybdenum over 29 metres and drill intersections in the north part of the zone returned values up to 0.87 per cent copper, 0.043 per cent molybdenite and 6.2 grams per tonne silver over 1.5 metres (Assessment Report 4978).

**BIBLIOGRAPHY** 

EMPR ASS RPT 3585, \*4978 EMPR GEM \*1970-97,98; 1971-113; 1972-499; 1973-485,486

EMPR MAP 8

EMPR PF (\*Report by K.P. Bottoms, 1967) GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

Placer Dome File

DATE CODED: 1986/10/08 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103I 013

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 014

NATIONAL MINERAL INVENTORY: 103I2 Fe1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6002862 EASTING: 522557

PAGE:

REPORT: RGEN0100

500

NAME(S): WEDEENE, IRON MOUNTAIN, MINERAL HILL, BIMETALLIC

STATUS: Developed Prospect REGIONS: British Columbia NTS MAP: 103I02E

BC MAP: LATITUDE: 54 10 24 N LONGITUDE: 128 39 16 W

ELEVATION: 220 Metres

LOCATION ACCURACY: Within 500M
COMMENTS: "A" zone (Property File: Lazenby, 1962); located adjacent to the

railway, 13 kilometres due north of Kitimat.

COMMODITIES: Iron

Magnetite

Copper

**MINERALS** 

SIGNIFICANT: Magnetite

Pyrite Epidote

Chalcopyrite

ASSOCIATED: Garnet
ALTERATION TYPE: Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Skarn

Disseminated

Replacement Industrial Min.

TYPE: K03 F SHAPE: Irregular Fe skarn

DIMENSION: 1400 x 0120 x 0300 Metres STRIKE/DIP:

TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Middle Jurassic

<u>GROUP</u> Hazelton

**FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Andesite

Greenstone Granodiorite Dike

**GEOLOGICAL SETTING** TECTONIC BELT: Coast Crystalline TERRANE: Stikine

METAMORPHIC TYPE: Regional

Plutonic Rocks RELATIONSHIP: PHYSIOGRAPHIC AREA: Kitimat Trench

GRADE: Greenschist

INVENTORY

ORE ZONE: SUMMIT

REPORT ON: Y

CATEGORY: Indicated QUANTITY:

3160465 Tonnes

YEAR: 1962

COMMODITY Iron

**GRADE** 21.7300

Per cent

COMMENTS: Summit zone reserves. REFERENCE: Property File - Lazenby, H.S., 1962.

ORE ZONE: A

REPORT ON: Y

YEAR: 1962

CATEGORY: QUANTITY:

Indicated 2194563 Tonnes

COMMODITY

Iron

COMMENTS: A zone reserves. REFERENCE: Property File - Lazenby, H.S., 1962.

**GRADE** 

22.6200 Per cent

**CAPSULE GEOLOGY** 

Metamorphosed volcanic rocks of the Middle Jurassic Hazelton Group are intruded by a granodiorite stock which forms the core of Tron Mountain. The intrusive and associated dykes are part of the Cretaceous to Tertiary Coast Plutonic Complex. Within the volcanic rocks, which are largely andesite, are irregular epidote-garnetmagnetite-silica skarns and related lenses of magnetite with minor pyrite and chalcopyrite. The mineralized area strikes about 010 degrees and dips 75 degrees west, is exposed over a 1.4 kilometre length, from 75 to 530 metres elevation, and varies in width from 100 to 150 metres. Total reserves include 5.36 megatonnes averaging RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

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### **CAPSULE GEOLOGY**

22.09 per cent soluble iron (Lazenby, 1962). The magnetite occurs in three zones known as the "A" zone, "B" zone, and Summit zone. The "A" zone, lowest in elevation, is about 180 by 120 metres, with drill indicated reserves of 2,194,563 tonnes of 22.62 per cent acid soluble iron. The Summit zone, 1100 metres to the north-northeast, measures 300 by 90 metres and contains 3,160,465 tonnes of 21.73 per cent acid soluble iron (Property File - Lazenby, H.S., 1962). The "B" zone, between the above two zones contains irregular mineralization. Drilling has been shallow and it is estimated that more magnetite can be found downdip. The northern extension also remains open. A maximum of 9 megatonnes of 20 per

cent soluble iron is postulated (Lazenby, 1962).

The rocks are cut by post-ore felsic to mafic dykes and northtrending faults.

### **BIBLIOGRAPHY**

EMPR AR 1903-52; 1904-102; 1908-57; 1909-57; 1925-67; 1926-71,446; 1929-72; 1932-48; \*1945-80,81; 1958-73; 1959-15; 1960-13; \*1961-17,18; 1962-14,15 I/,16, 1962-14,15

EMPR MAP 8

EMPR OF \*1988-28, p. 101, Fig. 38

EMPR PF (\*Lazenby, H.S., 1962: Wedeene Iron Deposit)

EMR MP CORPFILE (Q.M.I. Minerals Ltd.)

GSC EC GEOL No. 3, Vol. 1, p. 26

GSC MAP 278A; 1136A; 11-1956; 1385A GSC MEM 329, pp. 97,98 Falconbridge File

DATE CODED: 1986/10/01 DATE REVISED: 1989/08/11

CODED BY: LDJ REVISED BY: LLD

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 015

NATIONAL MINERAL INVENTORY: 103I9 Au12

PAGE:

REPORT: RGEN0100

502

NAME(S): IBEX

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 35 14 N

NORTHING: 6049053 EASTING: 541897 LONGITUDE: 128 21 06 W ELEVATION: 250 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions and sketch map (Minister of Mines Annual Report 1914);

located along the south bank of Kleanza Creek.

COMMODITIES: Gold Silver Copper Lead

MINERALS
SIGNIFICANT: Pyrite Chalcopyrite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

TYPE: L01 S SHAPE: Irregular Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** Coast Plutonic Complex

LITHOLOGY: Granodiorite

Andesitic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: STOCKPILE REPORT ON: N

> YEAR: 1914 CATEGORY: Assay/analysis

> SAMPLE TYPE: Rock

COMMODITY **GRADE** 

Silver 120.0000 Grams per tonne Gold 4.1000 Grams per tonne

Copper COMMENTS: The sample was taken from "sorted ore". 3.8000 Per cent

REFERENCE: Minister of Mines Annual Report 1914, page 128.

**CAPSULE GEOLOGY** 

An andesite dyke cuts granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. Pyrite, galena, and probably chalcopyrite are disseminated within the andesite dyke for about 6 metres along strike. A sample of sorted ore contained 4.1 grams per tonne gold, 120 grams per tonne silver and 3.8 per cent copper (Minister of Mines Annual Report 1914).

**BIBLIOGRAPHY** 

EMPR AR 1914-128, Map p. 121

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/12/05 CODED BY: I D.I FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/08/11 FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 016

NATIONAL MINERAL INVENTORY: 103I10 Mo1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6047496 EASTING: 515874

IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

503

NAME(S): MOLYBDENUM CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I10W BC MAP:

LATITUDE: 54 34 29 N LONGITUDE: 128 45 16 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of mineralized zone, Figure 3 (Assessment Report 7740).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Chalcopyrite Pyrite Magnetite Pyrrhotite

ALTERATION: Feldspar Chlorite

ALTERATION TYPE: Potassic MINERALIZATION AGE: Unknown Chloritic

**DEPOSIT** 

CHARACTER: Stockwork Vein CLASSIFICATION: Porphyry Hydrothe TYPE: L05 Porphyry Mo (Low F- type) Disseminated Hydrothermal Ianeous-contact

SHAPE: Irregular
DIMENSION: 1300 x 0200 x 0150 Metres

STRIKE/DIP: TREND/PLUNGE:

**FORMATION** 

COMMENTS: Discontinuous mineralized zone.

<u>GROUP</u>

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Hazelton

Jurassic Cretaceous-Tertiary Undefined Formation Coast Plutonic Complex

LITHOLOGY: Hornfels

Quartz Monzonite Granodiorite

Feldspar Quartz Porphyry Meta Siltstone Meta Greywacke

Dacite

Basaltic Andesite Porphyritic Andesite

Dikė

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Stikine METAMORPHIC TYPE: Contact

Plutonic Rocks RELATIONSHIP: PHYSIOGRAPHIC AREA: Kitimat Ranges

GRADE: Hornfels

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1979

SAMPLE TYPE: Grab

COMMODITY **GRADE** 1.9000 Per cent Molybdenum 0.0970 Per cent

REFERENCE: Assessment Report 7740.

CAPSULE GEOLOGY

Sedimentary and volcanic rocks of the Jurassic Hazelton Group are intruded by quartz monzonite and granodiorite and later feldsparquartz prophyry of the Cretaceous to Tertiary Coast Plutonic Complex. The Hazelton rocks are dominatly meta-siltstone and porphyritic andesite with minor meta-greywacke argillite, dacite and basaltic andesite. These rocks have been locally hornfelsed. Distribution of the hornfels generally coincides with zones of molybdenite mineralization.

Discontinuous molybdenite mineralization occurs in a zone measuring 1300 by 200 by 150 metres, in a northwest direction. Molybdenite and minor chalcopyrite, pyrite, and magnetite occur in quartz veins and fractures. The veins, up to 25 centimetres

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**CAPSULE GEOLOGY** 

wide, are generally flat lying and shallow dipping. A grab sample assayed 0.097 per cent molybdenum and 1.90 per cent copper (Assessment Report 7740).

Alteration includes feldspathization and chloritization of the quartz veins and bleaching, with associated disseminated

pyrite and pyrrhotite, of the hornfels.

**BIBLIOGRAPHY** 

EMPR AR 1918-47 EMPR ASS RPT \*7740

EMPR MAP 8

EMPR PF (Sketch Map - Molly Creek Property, 1972)

EMR MP CORPFILE (Canamax Resources Inc.)
GSC MAP 278A; 11-1956; 1136A; 1385A
GSC MEM 329

Placer Dome File

DATE CODED: 1985/10/08 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 1031 016

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FIELD CHECK: N

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 017

NATIONAL MINERAL INVENTORY: 103I9 Au11

PAGE:

REPORT: RGEN0100

505

NAME(S): GOLDEN ERA

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6049521 EASTING: 542431 LATITUDE: 54 35 29 N LONGITUDE: 128 20 36 W ELEVATION: 520 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description and sketch map (Minister of Mines Annual Report 1914); located on the north side of Kleanza Creek.

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite ASSOCIATED: Quartz ALTERATION: Malachite
ALTERATION TYPE: Oxidation Azurite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

TYPE: 102 I SHAPE: Irregular Intrusion-related Au pyrrhotite veins

MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 140/40N TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP **FORMATION** 

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YEAR: 1914 Assay/analysis

COMMODITY **GRADE** 

Silver 48.0000 Grams per tonne Cold 8.9000 Grams per tonne

REFERENCE: Minister of Mines Annual Report 1914.

**CAPSULE GEOLOGY** 

A shear zone within granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex contains a quartz vein mineralized with pyrite, arsenopyrite, and minor azurite and malachite. The main vein strikes 140 degrees and dips 40 degrees northeast. It is about 45 centimetres wide and 60 metres long. A typical sample assayed 8.9 grams per tonne gold and 48 grams per tonne silver (Minister of Mines

Annual Report 1914).

**BIBLIOGRAPHY** 

EMPR AR 1914-127,128, Map p. 121 EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/12/05 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 018

NATIONAL MINERAL INVENTORY: 103I10 Ag1

NAME(S): QUARTZ SILVER, QS 1-6

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103I10W BC MAP: LATITUDE: 54 43 24 N

NORTHING: 6064011 EASTING: 507586

PAGE:

REPORT: RGEN0100

506

LONGITUDE: 128 52 56 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located on the south side of the Nelson River, about 27 kilometres north-northwest of Terrace; location of mineralization from Assessment

Report 13455, Figure 2.

COMMODITIES: Silver Zinc Lead Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Chalcopyrite Bornite

Arsenopyrite Calcite Sericite Clay

ASSOCIATED: Quartz
ALTERATION TYPE: Silicific'n Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CHARACTEK: vein
CLASSIFICATION: Epigenetic Hydrodienne.
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 155/70W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Argillite Felsic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1985

SAMPLE TYPE: Chip **GRADE** 

COMMODITY Silver 78.9000 Grams per tonne Gold 0.3400 Grams per tonne 7.7400 Lead Per cent Per cent Zinc 15.3800

COMMENTS: The sample width is 60 centimetres.

REFERENCE: Assessment Report 13455.

CAPSULE GEOLOGY

The property is underlain by argillites and minor sandstones of The property is underlain by argillites and minor sandstones of the Upper Jurassic to Lower Cretaceous Bowser Lake Group. The sediments are cut by felsite dykes and feldspar porphyry intrusives of the Cretaceous to Tertiary Coast Plutonic Complex. The contact zones of felsite with argillite are commonly altered to clay, sericite and silica and have associated sulphide bearing quartz veins. One such quartz-sulphide vein, striking roughly 155 degrees and dipping 70 degrees to the west, contains galena, sphalerite and chalcopyrite. Pyrite, arsenopyrite, galena, sphalerite and bornite are present in minor amounts as veinlets and as disseminations within the felsite dykes.

A 60 centimetre chip sample assayed 7.74 per cent lead, 15.38 per cent zinc, 78.9 grams per tonne silver and 0.34 grams per tonne gold

(Assessment Report 13455).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*13455; \*16411

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**BIBLIOGRAPHY** 

EMPR EXPL 1984-377; 1987-C360
EMPR GEM 1969-71,72; 1970-97; 1971-116
EMPR MAP 8
EMPR PF (\*Cavey, G. and Chapman, J. (1987): Summary Report on the Quartz-Silver Claims for Mt. Allard Resources Ltd. in Prospectus for Mt. Allard Resources Ltd., Feb. 15, 1988)
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM 329
GSC P 36-17, p. 22
PR REL Eagle Plains Resources Ltd., Feb.20, 2003

DATE CODED: 1986/09/02 DATE REVISED: 1989/08/05 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 019

NATIONAL MINERAL INVENTORY: 103I15 Au3

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6067113 EASTING: 512497

REPORT: RGEN0100

508

NAME(S): **KALUM LAKE**, PORTLAND, BAV, GOLD BAR, BURN

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103I15W

BC MAP:

LATITUDE: 54 45 04 N LONGITUDE: 128 48 21 W

ELEVATION: 150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on the west side of Kitsumkalum Lake; location of vein #1 from

Assessment Report 13303, Figure 3.

COMMODITIES: Gold Silver Copper Lead Zinc

**MINERALS** 

SIGNIFICANT: Pyrite Tetrahedrite Chalcopyrite Gold Galena

Sphalerite

ASSOCIATED: Quartz

ALTERATION: Epidote Chlorite Hematite

ALTERATION TYPE: Propylitic
MINERALIZATION AGE: Unknown Silicific'n **Epidote** Argillic

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 037/45S TREND/PLUNGE:

COMMENTS: Main vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic-Cretaceous **Bowser Lake** Undefined Formation Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Granodiorite

Araillite Greywacke Conglomerate

**GEOLOGICAL SETTING** 

DNIC BELT: Coast Crystalline TERRANE: Plutonic Rocks TECTONIC BELT: PHYSIOGRAPHIC AREA: Kitimat Trench

Bowser Lake

INVENTORY

ORE ZONE: PORTLAND REPORT ON: Y

> CATEGORY: YEAR: 1987 Inferred

QUANTITY: 9434 Tonnes COMMODITY

Grams per tonne

COMMENTS: To a depth of 45 metres.

REFERENCE: Property File - Report by Collins and Arnold, 1987.

CAPSULE GEOLOGY

The area is underlain by Upper Jurassic to Lower Cretaceous sediments of the Bowser Lake Group comprised mainly of argillite, greywackes and conglomerates. Generally, the sediments strike east-west and dip 75 degrees to the north. Stocks comprised of granodiorite, diorite and quartz monzonite of the Late Cretaceous to Tertiary Coast Plutonic Complex intrude the Bowser Lake sediments.

Alteration in the granodioritic intrusive is directly related to

the density of veining and shearing. The predominant type is propylitic with lesser silicification and epidote-hematite alteration.

Two granodioritic stocks, about 2.25 kilometres apart, are exposed and exhibit extensive hydrothermal alteration with associated minoralization. Two epigenetic, steeply dipping, auriferous quartz mineralization. veins, termed the #1 and #2 veins, are exposed at the main showing. The #1 vein is approximately 30 centimetres wide, strikes 037 degrees and dips 45 degrees southeast. Selected samples from a dump site assayed up to 193 grams per tonne gold and 477 grams per tonne silver (Assessment Report 13303).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

A parallel vein (#2 vein), 150 metres southwest of the #1 vein, dips 65 degrees southeast and is exposed for about 30 metres along strike with variable thicknesses ranging between 15 to 60 centimetres. Drilling reports indicate that both the #1 and #2 veins steepen to subvertical at depth.

Mineralization within these veins consists of pyrite, chalcopyrite, tetrahedrite, galena, sphalerite and occasional visible gold within a quartz gangue. Selected trench samples assayed up to 251 grams per tonne gold and 226 grams per tonne silver (Assessment Report 13303). A third sub-parallel vein, 10 centimetres in width, parallels the north wall and comes to within 5 centimetres of the #2 vein.

A 52.4 kilogram bulk sample taken from these veins assayed 11.86 grams per tonne gold and 15.43 grams per tonne silver. Reserves reported for the two main veins are estimated at 9434 tonnes grading 16.1 grams per tonne gold to a depth of 45 metres (Collins and Arnold, 1987).

In addition to the main site, a subsidiary mineralized zone is exposed about 2.25 kilometres to the southwest within an intensely altered granodiorite intrusive (refer to Burn - 103I 211).

Shipments of selected ore were made in 1940, 1941 and 1945, totalling 15.75 tonnes with 781 grams of gold, 1223 grams of silver and 2173 kilograms of copper (Minister of Mines Annual Reports 1940, 1941 and 1945).

#### RIRI IOGRAPHY

EMPR AR 1922-47-49; 1923-48; 1924-48; 1925-69; 1926-74; 1927-63; 1928-422; 1930-74; 1940-53; 1941-41,42; 1945-52 EMPR ASS RPT 8299, \*13303, \*16026 EMPR EXPL 1980-397; 1984-377; 1987-C359 EMPR MAP 8 EMPR PF (\*Collins, D.A. and Arnold, R.R., (1987): Report on the Kalum Lake Property, in Statement of Material Facts #31/88 for Terracamp Developments Ltd., Apr. 25, 1988; \*Cavey, G. and Chapman, J., (1987): Report on the 1987 Drilling Program for the Kalum Lake Claims, in Prospectus for Terracamp Developments Ltd., Jul. 22 , 1987; Statement of Material Facts #52/88 for Terracamp Developments Ltd., Jun. 15, 1988) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*205, pp.15-17; 329, p. 75 GSC P 36-17, p. 22-24; 36-20, p. 31 GSC SUM RPT 1923A, p. 42 GCNL #214, 1985; #174, 1987 PR REL Eagle Plains Resources Ltd., Feb.20, 2003

DATE CODED: 1986/09/23 DATE REVISED: 1989/08/01

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FIELD CHECK: N FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

I ead

MINFILE NUMBER: 1031 020

NATIONAL MINERAL INVENTORY: 103I15 Au1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6073435 EASTING: 504892

REPORT: RGEN0100

510

NAME(S): MARTIN, NOBLE, REX, GLEN NO.1

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103I15W

BC MAP:

LATITUDE: 54 48 29 N LONGITUDE: 128 55 26 W

ELEVATION: 840 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Map 1136A (Geological Survey of Canada Memoir 329).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Arsenopyrite Galena Sphalerite

Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Massive

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Regular MODIFIER: Sheared

STRIKE/DIP: 015/55W TREND/PLUNGE: DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous Bowser Lake Undefined Formation

Coast Plutonic Complex Cretaceous-Tertiary

LITHOLOGY: Granodiorite Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Plutonic Rocks Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1928 Assay/analysis

> SAMPLE TYPE: Chip

COMMODITY Silver GRADE 137.0000 8.2000 Grams per tonne

Gold Grams per tonne

Lead 4.0000 Per cent

COMMENTS: The sample width is 30.0 centimetres. REFERENCE: Minister of Mines Annual Report 1928.

CAPSULE GEOLOGY

Jurassic to Cretaceous Bowser Lake Group sediments, predominatly greywacke, are intruded by granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. Gold bearing quartz veins occur near the

contact.

The main vein strikes 015 degrees and dips 55 degrees northwest. It follows a shear zone in granodiorite for 100 metres and is up to 0.5 metres wide. Mineralization consists of pyrrhotite, arsenopyrite, galena, pyrite, sphalerite and chalcopyrite. A 30.0 centimetre sample assayed 8.2 grams per tonne gold, 137 grams per tonne gold, 137 grams per tonne silver and 4.0 per cent lead (Minister of Mines Annual Report

1928).

A second parallel vein, 50 metres from the main vein assayed 6.8 grams per tonne gold and 12.3 grams per tonne silver over 0.18 metres (Geological Survey of Canada Memoir 205). This quartz vein occurs in greywacke and consists largely of massive arsenopyrite.

**BIBLIOGRAPHY** 

EMPR AR 1922-48; 1923-49; 1924-48; 1925-69; 1926-73,74; \*1928-71;

1967-53

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 10523 EMPR GEM 1970-96 EMPR MAP 8

EMPR MAP 8
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM \*205, p. 23; 329 pp. 74,75
GSC P 36-17, pp. 37,38
PR REL Eagle Plains Resources Ltd., Feb.20, 2003

DATE CODED: 1986/09/24 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 020

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 021

NATIONAL MINERAL INVENTORY: 103I15 Cu1

NAME(S): MACEX, LC, EGAN

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

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NTS MAP: 103I15W BC MAP: LATITUDE: 54 53 19 N LONGITUDE: 128 59 22 W

NORTHING: 6082396 EASTING: 500677

ELEVATION: 750 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of molybdenite zone, Figure 3 (Assessment Report 8446).

Located on the south side of Little Cedar River.

COMMODITIES: Copper

Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Molybdenite Ferrimolybdite Pyrrhotite

Magnetite

ASSOCIATED: Quartz ALTERATION: Sericite Silica Chlorite ALTERATION TYPE: Sericitic Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hydrothe TYPE: L05 Porphyry Mo (Low F- type) Hydrothermal

I 04 Porphyry Cu ± Mo ± Au

SHAPE: Irregular MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Jurassic-Cretaceous IGNEOUS/METAMORPHIC/OTHER **FORMATION** Bowser Lake Undefined Formation

Unnamed/Unknown Informal Focene

LITHOLOGY: Argillite Greywacke

Siltstone Quartz Monzonite Granodiorite Biotite Hornfels

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Bowser Lake
METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Bowser Lake rocks overlie the Stikina Terrane rock assemblage.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1980 Assav/analysis

SAMPLE TYPE: Rock **GRADE COMMODITY** 

Copper 0.0600 Per cent

Molybdenum 0.0200 Per cent

COMMENTS: Average grade of mineralization. REFERENCE: Assessment Report 8446.

**CAPSULE GEOLOGY** 

Upper Jurassic to Cretaceous black carbonaceous argillites and Upper Jurassic to Cretaceous black carbonaceous argillites and greywackes of the Bowser Lake Group are intruded by porphyritic quartz monzonite of probable Eocene age. Granodiorite of the Creatceous to Tertiary Coast Plutonic Complex lies to the west. The sediments trend north-northeast to north-northwest with moderate to The steep west dips. They are locally graphitic and are weakly to moderately altered to biotite hornfels near the intrusive rocks. The plug-like and dyke-like intrusions of quartz monzonite are strung

out in a north-northeast direction. Abundant quartz veins occur over an area of at least 1500 by 1000 metres with prominent 104 degree trends and steep dips.

Sulphides are present in about 20 per cent of the veins. Molybdenite and chalcopyrite occur in a 250 metre zone of quartz

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

veins within bleached and sheared argillite and siltstone. Grades average 0.02 per cent molybdenite and 0.06 per cent copper (Assessment Report 8446).

Silicification occurs along many of the joint planes and is associated with the sulphide mineralization. Pyrite is the most common with minor chalcopyrite occurring as disseminations in the altered host rock and within the quartz veining. Molybdenite and possibly ferrimolybdite, occur in the quartz veins or in quartzchlorite lenses where they from disseminations of 1-2 millimetre flakes. Pyrrhotite and magnetite are present as minor constituents in the altered host rock.

### **BIBLIOGRAPHY**

EMPR AR 1968-69 EMPR ASS RPT 2029, 7570, \*8446 EMPR EXPL 1979-255; 1980-398 EMPR GEM 1969-71 EMPR MAP 8 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329 \*McBride, D.E. (1972): The Macex Deposit, British Columbia; MSc

Thesis, Queens University, Kingston, Ontario DATE CODED: 1986/09/17 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> 103I 021 MINFILE NUMBER:

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 022

NATIONAL MINERAL INVENTORY: 103I15 Ag1

PAGE:

REPORT: RGEN0100

514

NAME(S): HOPE SILVER, SILVER COIN, SILVER DOLLAR, IONA, SILVER PLATE, SILVER CUP

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103I15W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 57 24 N LONGITUDE: 128 53 27 W NORTHING: 6089975 EASTING: 506991

ELEVATION: 330 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showings Figures 2, 14 (Geological Survey of Canada Memoir 205).

COMMODITIES: Silver Copper I ead 7inc Gold

**MINERALS** 

SIGNIFICANT: Pyrite Galena Chalcopyrite Sphalerite Tetrahedrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Breccia

CLASSIFICATION: Epigenetic TYPE: 105 Pc

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Regular

MODIFIER: Sheared DIMENSION: Other

STRIKE/DIP: 070/70S TREND/PLUNGE: COMMENTS: The modifier is also brecciated.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Argillite

Greywacke Siltstone Andesitic Dike

Quartz Monzonitic Dike

Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YFAR: 1969 Assay/analysis

CATEGORY: Assa SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Silver 432.0000 Grams per tonne Per cent Copper 0.7600 Per cent Lead 1.9000

Zinc 6.7000

COMMENTS: The sample width is 4.5 metres. REFERENCE: Geology, Exploration and Mining in British Columbia, 1969.

CAPSULE GEOLOGY

The area is underlain by northeast striking, moderately northwest dipping siltstones and greywackes of the Jurassic to Cretaceous Bowser Lake Group. The sediments are intruded by andesite

Per cent

and quartz monzonite dykes.

A 6 to 9 metre wide breccia zone, bounded by 0.3 to 0.6 metre wide quartz veins, follow a northeast striking, southeast steeply dipping shear zone within the sediments. The quartz veins are exposed for about 100 metres and are mineralized with pyrite, chalcopyrite, galena, sphalerite and tetrahedrite. A 4.5 metre chip sample assayed 432 grams per tonne silver, 6.7 per cent zinc, 1.9 per cent lead, 0.76 per cent copper and trace gold (Geology, Exploration and

Shear zones of similar strike and dip, with associated quartzbreccia veins occur over several hundred metres southeast of the

main showing.

Mining in B.C. 1969).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

In 1966, 5 tonnes of sorted ore were shipped from this property. From this ore 7,527 grams of silver, 151 kilograms of copper, and 292  $\,$ kilograms of lead were recovered.

**BIBLIOGRAPHY** 

EMPR AR 1913-78; 1914-109; 1918-50; 1921-44,45; 1922-49; 1923-49; 1924-48; 1925-70; 1926-74; 1966-51 EMPR GEM \*1969-70,71; 1970-95; 1971-118; 1972-501 EMPR MAP 8 EMPR MAP 8
EMPR PF (Bates, R.H. c1970: Plan Map, Kleanza Mines Ltd.)
EMR MP CORPFILE (Kendal Mining & Exploration Company Limited)
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM \*205, pp. 11-13; 329, p. 73
GSC P 36-17, pp. 18,19
GSC SUM RPT 1922A, p. 48
Placer Down File

Placer Dome File Chevron File

DATE CODED: 1986/09/25 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 022

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 023

NATIONAL MINERAL INVENTORY: 103I15 Mo1

NAME(S): **BIG JOE**, BIG, JOE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103I15W BC MAP: LATITUDE: 54 57 29 N

UTM ZONE: 09 (NAD 83) NORTHING: 6090135 EASTING: 510014

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REPORT: RGEN0100

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LONGITUDE: 128 50 37 W ELEVATION: 440 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of intrusive, Figure 21 (Geology, Exploration and Mining in B.C. 1971).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite

ASSOCIATED: Quartz Sericite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal Epigenetic TYPE: L05 Porphyry Mo (Low F- type)

SHAPE: Irregular MODIFIER: Fractured

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Jurassic-Cretaceous Bowser Lake Undefined Formation

Tertiary Unnamed/Unknown Informal

LITHOLOGY: Granodiorite

Quartz Monzonite Argillaceous Siltstone

Grevwacke Hornfels

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Bowser Lake PHYSIOGRAPHIC AREA: Kitimat Trench

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

CAPSULE GEOLOGY

Thin-bedded, argillaceous siltstones and greywackes of the Jurassic to Cretaceous Bowser Lake Group are intruded by a 300 by 800 metre size stock consisting of mainly granodiorite with gradations to quartz monzonite. A 45 to 60 metre hornfels halo extends from the northeast trending stock.

Molybdenite mineralization occurs in the intrusive as selvages along widely spaced, 1.2 to 2.5 centimetre wide milky white quartz veins, as disseminations in aplite stringers, and as coatings on fracture planes with sericite.

**BIBLIOGRAPHY** 

EMPR AR 1966-51; 1967-53 EMPR ASS RPT 857 EMPR GEM \*1971-116-118

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329 CIM Special Vol. 15, 1976, Map B

DATE CODED: 1986/09/25 CODED BY: LDJ FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/08/10 FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

NATIONAL MINERAL INVENTORY: 103I15 Cu2

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6084938 EASTING: 524914

MINFILE NUMBER: 1031 024

NAME(S): **SEPTEMBER** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I15E BC MAP:

LATITUDE: 54 54 39 N

LONGITUDE: 128 36 41 W ELEVATION: 1220 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol 7, Geological Survey of Canada Map 1136A. Located at the head of Lorne Creek.

COMMODITIES: Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Bowser Lake Jurassic-Cretaceous

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

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LITHOLOGY: Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Bowser Lake

PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE

Silver

REPORT ON: N

CATEGORY: Assay/analysis

YEAR: 1937

SAMPLE TYPE: Channel COMMODITY

**GRADE** 17.0000 Grams per tonne

COMMENTS: Two channel samples assayed less than 17 grams per tonne silver.

REFERENCE: GSC Memoir 212, page 46.

**CAPSULE GEOLOGY** 

Quartz veins carrying pyrite occur in gently dipping volcanic tuffs of the Jurassic to Cretaceous Bowser Lake Group. The veins, up to a metre in width, strike north and dip 50 to 70 degrees east. Two channel samples assayed less than 17 grams per tonne silver

(Geological Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR MAP 8

GSC MAP 1136A; 11-1956; 278A; 1385A GSC MEM \*212, p. 46; 329, p. 93

DATE CODED: 1986/10/14 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 025

NATIONAL MINERAL INVENTORY: 103I15 Cu3

PAGE:

REPORT: RGEN0100

518

NAME(S): JULY

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I15E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6083078 EASTING: 523944

LATITUDE: 54 53 39 N
LONGITUDE: 128 37 36 W
ELEVATION: 1200 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Symbol 8, Geological Survey of Canada Map 1136A.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Pyrite Pyrrhotite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CHARACTER: Veiii
CLASSIFICATION: Hydrothermal
TYPE: I05 Polyme
SHAPE: Irregular Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Bowser Lake Jurassic-Cretaceous Undefined Formation

LITHOLOGY: Tuff Quartz Vein

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Bowser Lake PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

Three quartz veins, 8 to 15 centimetres wide and  $4.6~\mathrm{metres}$  apart, occur in tuffs of the Jurassic to Cretaceous Bowser Lake Group. The strata strikes 120 degrees and dips 10 degrees north. Mineralization consists of pyrite, chalcopyrite and pyrrhotite with

low values of silver.

**BIBLIOGRAPHY** 

EMPR MAP 8

GSC MAP 1136A; 11-1956; 278A; 1385A GSC MEM \*212, pp. 46,47; 329, p. 93

DATE CODED: 1986/10/14 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 026

NATIONAL MINERAL INVENTORY: 103I15 Ag3

PAGE:

NORTHING: 6080603 EASTING: 523423

REPORT: RGEN0100

519

NAME(S): **BERMALINE**, GRANITE, FRANKIE BLUE

STATUS: Showing REGIONS: British Columbia NTS MAP: 103I15E BC MAP:

MINING DIVISION: Omineca Skeena UTM ZONE: 09 (NAD 83)

LATITUDE: 54 52 19 N

LONGITUDE: 128 38 06 W ELEVATION: 1480 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized vein.

COMMODITIES: Silver Gold 7inc I ead Copper

Molybdenum

**MINERALS** 

SIGNIFICANT: Galena Pyrite Chalcopyrite Sphalerite Molybdenite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: 105 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Argillite Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1937 CATEGORY: Assay/analysis SAMPLE TYPE: Chip

COMMODITY **GRADE** Grams per tonne Grams per tonne  $108.0\overline{000}$ Silver Gold 2.1000 Copper 4.4400 Per cent 9.0600 Per cent Lead Per cent 0.40007inc

COMMENTS: The sample width is 1.2 metres.

REFERENCE: Geological Survey of Canada Memoir 212.

**CAPSULE GEOLOGY** 

Jurassic to Cretaceous Bowser Lake Group argillites and greywackes are intruded by granodiorite and quartz monzonite stocks and sills. The sediments are cut by shear zones and mineralized quartz veins, between 1470 and 1650 metres elevation and between the headwaters of Douglas and Lorne Creeks. Mineralization consists of galena, pyrite, chalcopyrite and minor sphalerite in the quartz veins

galena, pyrite, chalcopyrite and minor sphalerite in the quartz verms and disseminated molybdenite near shear zones.

A 1.0 metre sample taken in 1932, across a vein, assayed 3 per cent lead, 103 grams per tonne silver and 20.6 grams per tonne gold (Bulletin 1). In 1937, a 1.2 metre chip sample assayed 9.06 per cent lead, 4.44 per cent copper, 108 grams per tonne silver, 0.4 per cent zinc and 2.1 grams per tonne gold (Geological Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR AR \*1930-137,138; 1931-71; 1954-64

EMPR ASS RPT 8315

EMPR BULL \*1, 1932, pp. 51,56,57 EMPR EXPL 1980-399

EMPR MAP 8

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 278A; 11-1956; 1136A; 1385A GSC MEM \*212, pp. 45,46,Fig. 10; 329 GSC P 36-20, p. 49; 36-17

DATE CODED: 1986/10/14 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 103I 026

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 027 NATIONAL MINERAL INVENTORY: 103I15 Mo2

NAME(S): SOUTH LORNE CREEK, HART

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I15E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 50 54 N NORTHING: 6077997 LONGITUDE: 128 34 31 W ELEVATION: 1070 Metres EASTING: 527271

LOCATION ACCURACY: Within 500M

COMMENTS: Drill hole 81-1, Figure 2 (Assessment Report 10400).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Molybdenite Chalcopyrite Pyrite Galena Sphalerite

Stibnite Pyrrhotite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stockwork Disseminated

CLASSIFICATION: Hydrothermal
TYPE: L05 Porphyry Mo (Low F- type) 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Bowser Lake Jurassic-Cretaceous Undefined Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Argillite

Biotite Hornfels Feldspar Hornblende Porphyry

Quartz Monzonite

Granodiorite Cherty Conglomerate

Andesite

**GEOLOGICAL SETTING** TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks Bowser Lake METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

**CAPSULE GEOLOGY** 

Sediments and volcanics of the Cretaceous to Tertiary Bowser Lake Group are intruded by quartz monzonite to granodiorite rocks and a feldspar hornblende porphyry stock of the Jurassic to Cretaceous Coast Plutonic Complex. The Bowser rocks consist largely of

argillites and underlying chert pebble conglomerate and andesite.

Near the intrusive contact biotite hornfels is developed.

Several periods of intersecting quartz veins cut the intru-

sives and biotite hornfels. The veins are mineralized with molybdenite; lesser chalcopyrite, pyrite, and pyrrhotite; and minor

galena, stibnite, and sphalerite.

**BIBLIOGRAPHY** 

EMPR ASS RPT 8059, \*10400 EMPR EXPL 1979-255,256 EMPR GEM 1967-83,84

EMPR MAP 8 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/10/10 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 027

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 028

NATIONAL MINERAL INVENTORY: 103I15 Au6

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REPORT: RGEN0100

522

NAME(S): GOLD CAP, GOLDEN EAGLE, GOLD CUP

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103I15E BC MAP:

NORTHING: 6074882 EASTING: 522917 LATITUDE: 54 49 14 N LONGITUDE: 128 38 36 W ELEVATION: 1340 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Vein, Figure 5, (Geological Survey of Canada Memoir 205); located on

the north side of Maroon Mountain.

COMMODITIES: Gold 7inc Silver Lead Copper

**MINERALS** 

SIGNIFICANT: Galena Chalcopyrite Sphalerite Pyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 030/15S DIMENSION: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Argillite

Greywacke

Conglomerate

Black Carbonaceous Shale

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1937 Assav/analysis

SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 18.5000 Grams per tonne Gold 2.0600 Grams per tonne

COMMENTS: The sample weighed 0.82 kilograms. REFERENCE: Geological Survey of Canada Memoir 205.

**CAPSULE GEOLOGY** 

The area is underlain by argillite, greywacke, and conglomerate of the Jurassic to Cretaceous Bowser Lake Group. Narrow quartz veins lie conformably below a 35 to 75 metre wide conglomerate bed which strikes northeast and dips 50 to 75 degrees southeast. The veins a The veins are mineralized with galena, sphalerite, pyrite, and pyrrhotite, and

minor chalcopyrite.

The Gold Cap veins consist of a 90 metre continuation of the Bear vein (103I 029), to the west and a 30 metre long vein, 120 metres to the east. The vein to the west is 5 to 15 centimetres wide and strikes 030 degrees with a 15 degree south east dip. It follows a narrow seam of soft, black, carbonaceous shale, overlain by greywacke. A 0.82 kilogram sample assayed 2.06 grams per tonne gold and 18.5 grams per tonne silver (Geological Survey of Canada Memoir 205).

**BIBLIOGRAPHY** 

EMPR AR 1921-43; 1922-49; 1923-47; 1924-47; 1930-76

EMPR ASS RPT 21742

EMPR BULL 1, 1932, pp. 22,30

EMPR MAP 8

EMPR OF 1994-14

GSC MAP 1136A; 11-1956; 278A; 1385A

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM \*205, p. 19; 329, pp. 75,76 GSC P 36-17, p. 28 GSC SUM RPT 1923, pp. 42-44

DATE CODED: 1986/10/15 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 103I 028

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 029 NATIONAL MINERAL INVENTORY: 103I15 Au4

NAME(S): BEAR, BLACK BEAR, HAWK (L.6792)

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I15E BC MAP:

NORTHING: 6074415 EASTING: 522366 LATITUDE: 54 48 59 N

LONGITUDE: 128 39 07 W ELEVATION: 1400 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adits, Figure 5 (Geological Survey of Canada Memoir 205).

COMMODITIES: Gold 7inc Silver I ead Copper

Tungsten

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Chalcopyrite Pyrrhotite

Scheelite Gold

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

Concordant

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 030/55E DIMENSION: 0300 x 0024 x 0001 Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Argillite

Greywacke Conglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1930 SAMPLE TYPE: Chip

GRADE

COMMODITY Silver 69.0000 Grams per tonne 17.0000 Gold Grams per tonne Lead 1.2000 Per cent 6.0000 Per cent 7inc

COMMENTS: The sample width is 40.0 centimetres. REFERENCE: Minister of Mines Annual Report 1930.

**CAPSULE GEOLOGY** 

The area is underlain by argillite, greywacke and conglomerate of the Jurassic to Cretaceous Bowser Lake Group. Narrow quartz veins lie conformably below a 35 to 75 metre wide conglomerate bed which strikes northeast and dips 50 to 75 degrees southeast. The veins are mineralized with galena, sphalerite, pyrite and pyrrhotite and minor chalcopyrite.

The Bear vein system is 0.5 to 2.0 metres wide and is about 350 cs long. It strikes 060 to 070 degrees and dips across foliation metres long. It strikes 060 to 070 degrees and dips across foliat at 50 to 80 degrees southeast, parallel to subparallel to bedding, for at least 24 metres. Foliation in the argillite strike 074 to 084 degrees, dipping 55 to 60 degrees north. The veining is disrupted by a 1.2 to 3.6 metre wide aplite dike which crosses and recrosses the vein. Wherever the dike crosses the veining, folding of the veins and concentrations of sulphides (galena, sphalerite, pyrite, chalcopyrite) occur.

A 40 centimetre sample of the vein assayed 17 grams per tonne gold, 69 grams per tonne silver, 1.2 per cent lead and 6.0 per cent zinc (Minister of Mines Annual Report 1930). A grab sample of the dump assayed 14.4 grams per tonne gold, 823 grams per tonne silver, 4.24 per cent lead, 4.40 per cent zinc and 0.02 per cent copper

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

(Geological Survey of Canada Memoir 329). Scheelite has been reported occurring in the  $v \! \in \! 1$ 

In 1991, rock-saw channel cuts were sampled across the mineralization in five separate locations along the length of the shear/vein system. One sample across 1.5 metres assayed 8.5 grams per tonne gold and 16.7 grams per tonne silver (Assessment Report 21742).

Seymour Exploration Corp. drilled 2 core holes in 2002 from a set-up 65 metres southeast of the uppermost adit. One hole intersected 0.61-metre of vein grading 26 grams per tonne gold. The second hole intersected two smaller veins (Press Release Seymour Exploration Corp., October 23, 2002).

#### **BIBLIOGRAPHY**

EMPR AR 1914-111; 1919-43; 1920-41,42; 1921-43,44; 1922-47; 1923-47; 1924-47; 1925-68; 1926-73; 1927-63,64; \*1928-72; 1930-75,76; 1931-36; 1932-51 EMPR ASS RPT \*21742 EMPR BULL 1, 1932, pp. 22,30; 10, 1943, p. 58 EMPR GEM 1970-97 EMPR MAP 8 EMPR MAP 8

EMPR OF 1991-17; 1994-14

GSC MAP 11-1956; 36-17; 1136A; 278A; 1385A

GSC MEM \*205, pp. 17-19; 329, pp. 75,76

GSC P 36-17, pp. 25-27; \*36-20, pp. 44-47

GSC SUM RPT 1922A, p. 49; 1923A, pp. 42-44

PR REL Seymour Exploration Corp., Oct. 23, 2002

DATE CODED: 1986/10/15 DATE REVISED: 1989/08/10

CODED BY: LDJ REVISED BY: LLD

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 030 NATIONAL MINERAL INVENTORY: 103I15 Au5

NAME(S): **BLACK WOLF** 

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103I15E BC MAP:

NORTHING: 6073794 EASTING: 521834 LATITUDE: 54 48 39 N

LONGITUDE: 128 39 37 W ELEVATION: 1430 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Middle Adit, Figure 5 (Geological Survey of Canada Memoir 205).

COMMODITIES: Gold Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Gold Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant

CLASSIFICATION: Hydrothermal TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 110/40W TREND/PLUNGE:

COMMENTS: Vein cutting conglomerate bed.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Argillite

Greywacke Conglomerate

Argillaceous Sandstone

Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1927 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY **GRADE** Silver 68,6000 Grams per tonne Gold 36.3000 Grams per tonne 1.0000 Per cent I ead Zinc 5.0000 Per cent

COMMENTS: 30 centimetre sample REFERENCE: Minister of Mines Annual Report 1927, page 64.

CAPSULE GEOLOGY

The area is underlain by argillite, greywacke, and conglomerate of the Jurassic to Cretaceous Bowser Lake Group. Narrow quartz veins lie conformably below a 35 to 75 metre wide conglomerate bed which strikes northeast and dips 50 to 75 degrees southeast. The vein mineralized with galena, sphalerite, pyrite, and pyrrhotite, and The veins are minor chalcopyrite.

The Black Wolf quartz veins occur parallel to the bedding in underlying argillaceous sandstones and slates about 15 metres below a conglomerate bed which dips 15 degrees to the east. One vein occurs in a fracture cutting the conglomerate. The vein averages 30 centimetres wide, is 60 metres long, and strikes 110 degrees with a 40 degree north dip. A 30 centimetre sample assayed 36.3 grams per gold, 68.6 grams per tonne silver, 1 per cent lead, and 5 per cent zinc (Minister of Mines Annual Report 1927).

The concordant veins are 180 to 280 metres to the north and

strike southeast. They are up to 120 metres long and 10 to 25 centimetres wide. An 18 centimetre sample assayed 2.1 grams per tonne gold and 7.5 grams per tonne silver (Geological Survey of Canada Memoir 205). A one metre wide aplite dyke occurs 90 metres to the

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

west and carries minor gold and silver. In 1928, 23 tonnes of ore were shipped from this property. From this ore 1151 grams of gold, 3577 grams of silver, 1103 kilograms of lead and 1905 kilograms of zinc were recovered.

**BIBLIOGRAPHY** 

EMPR AR 1914-111; 1921-43; 1922-49; 1923-48; 1924-47,48; 1925-68,69; 1926-73; 1927-64,397; 1928-73; 1930-74,75; 1931-36; 1932-51 EMPR ASS RPT 21742 EMPR BULL 1, 1932, pp. 22,30 EMPR BULL 1, 1932, pp. 22,30 EMPR MAP 8 EMPR OF 1994-14 GSC MAP 278A; 1136A; 11-1956; 1385A GSC MEM \*205, pp. 20,21; 329, pp. 75,76 GSC P 36-17, pp. 30-32; \*36-20, pp. 44-46 GSC SUM RPT 1923, pp. 42-44

DATE CODED: 1986/10/15 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1031 030

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 031 NATIONAL MINERAL INVENTORY: 103I15 Ag4

NAME(S): MOTHERLODE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I15E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6070695 EASTING: 520080 LATITUDE: 54 46 59 N

LONGITUDE: 128 41 16 W ELEVATION: 1670 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol 17 (Geological Survey of Canada Map 1136A).

COMMODITIES: Silver Gold 7inc Copper I ead

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrrhotite Galena Chalcopyrite Tetrahedrite Silver

Pyrite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polyn Polymetallic veins Ag-Pb-Zn±Au COMMENTS: Blocks of float with unfound source.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Argillite Slate

Quartz Diorite Hornblende Gabbro

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1930 CATEGORY: Assay/analysis SAMPLE TYPE: Rock

GRADE

COMMODITY Silver 651.0000 Grams per tonne 1.4000 Grams per tonne Gold 0.0300 Copper Per cent 4.4000 Per cent 7inc

REFERENCE: Minister of Mines Annual Report 1930.

CAPSULE GEOLOGY

The area is underlain by slates and argillites of the Jurassic to Cretaceous Bowser Lake Group. The sediments, which strike 40 degrees and dip 25 degrees northwest, are intruded by a small quartz diorite stock and a coarsely crystalline hornblende gabbro dyke.

Talus blocks of vein quartz are mineralized with pyrite,

sphalerite, galena, and tetrahedrite. A sample assayed 651 grams per tonne silver, 1.4 grams per tonne gold, 4.4 per cent zinc, 0.03 per cent copper and trace lead (Minister of Mines Annual Report 1930). The source vein has not been located.

**BIBLIOGRAPHY** 

EMPR AR 1920-41; 1921-43; 1922-49; 1923-48; 1924-48; 1925-69;

1926-74; 1927-64,397; 1930-74; 1931-36; 1932-51

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*205, pp. 21,22; 329, pp. 76,77 GSC P 36-17, pp. 33,34 GSC SUM RPT 1923A, pp. 42-44

DATE CODED: 1986/10/15 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 031

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 032

NATIONAL MINERAL INVENTORY: 103I15 Cu6

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6068246 EASTING: 524917

PAGE:

REPORT: RGEN0100

529

NAME(S): LUCY O'NEILL, KEYSTONE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I15E BC MAP:

LATITUDE: 54 45 39 N

LONGITUDE: 128 36 46 W ELEVATION: 680 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description (Geological Survey of Canada Memoir 205).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

TYPE: LÓ1 Subvolcanic Cu-Ag-Au (As-Sb) 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER
Coast Plutonic Complex **FORMATION** \_\_GROUP

LITHOLOGY: Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1937 CATEGORY: Assay/analysis

SAMPLE TYPE: Channel COMMODITY **GRADE** 

27,6000 Grams per tonne Silver 0.5000 Gold Grams per tonne 2.6800 Per cent Copper

COMMENTS: The sample width is 1.37 metres.

REFERENCE: Geological Survey of Canada Memoir 205.

CAPSULE GEOLOGY

A 0.9 to 1.4 metre wide quartz vein, mineralized with pyrite and chalcopyrite, occurs in massive grey diorite of the Cretaceous to Tertiary Coast Plutonic Complex. The vein is on the lower side of a dark, fine-grained diabase dyke, about 1 metre wide, that strikes 150 degrees and dips 60 degrees northeast. A 1.37 metre channel sample assayed 27.6 grams per tonne silver, 2.68 per cent copper and

0.5 grams per tonne gold (Geological Survey of Canada Memoir 205).

**BIBLIOGRAPHY** 

EMPR AR \*1921-44; 1922-49; 1923-48; 1924-48; 1925-70

EMPR MAP 8

GSC MAP 278A; 1136A; 11-1956; 1385A GSC MEM \*205, pp. 22,23; 329, p. 77 GSC P 36-17, pp. 35,36

GSC SUM RPT 1923, pp. 42-44

DATE CODED: 1986/10/16 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 033

NATIONAL MINERAL INVENTORY: 103I10 Mo2

PAGE:

REPORT: RGEN0100

530

NAME(S): **NAR 26** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I10E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6049418 EASTING: 529329 LATITUDE: 54 35 29 N

LONGITUDE: 128 32 46 W ELEVATION: 670 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Rock sample, Figure 6 (Assessment Report 1661).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic TYPE: LÓ5 Porphyry Mo (Low F- type)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex **FORMATION** 

LITHOLOGY: Biotite Granite

Basaltic Dike

Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1968 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY **GRADE** Per cent Molybdenum 0.4800

REFERENCE: Assessment Report 1661.

CAPSULE GEOLOGY

White biotite granite of the Cretaceous to Tertiary Coast Plutonic Complex intrudes Triassic sedimentary and volcanic rocks of the Takla Group, which lie to the northwest and southeast.

are cut by aplite and basalt dykes.

Molybdenite occurs in quartz veins filling flat, widely spaced joint fractures. A rock chip sample assayed 0.48 per cent molybdenum

(Assessment Report 1661).

**BIBLIOGRAPHY** 

EMPR AR 1967-53; 1968-68

EMPR ASS RPT \*1661

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/10/09 CODED BY: I D.I FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/08/10 FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 034

NATIONAL MINERAL INVENTORY: 103I10 Mo2

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6049587 EASTING: 531482

REPORT: RGEN0100

531

NAME(S): NAR 44

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I10E BC MAP: LATITUDE: 54 35 34 N

LONGITUDE: 128 30 46 W ELEVATION: 920 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Figures 4, 5 (Assessment Report 1661).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Chalcopyrite **Pyrite** 

COMMENTS: Alteration minerals are not identified.

ALTERATION TYPE: Argillic
MINERALIZATION AGE: Unknown Potassic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L05 Porph

Porphyry Mo (Low F- type)

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary **FORMATION** IGNEOUS/METAMORPHIC/OTHER GROUP

Coast Plutonic Complex

LITHOLOGY: Biotite Granite Basalt Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

CAPSULE GEOLOGY

White biotite granite of the Cretaceous to Tertiary Coast Plutonic Complex intrudes Triassic sedimentary and volcanic rocks of the Takla Group, which lie to the northwest and southeast. The rocks

are cut by associated aplite and basalt dykes.

Molybdenite occurs in quartz veins within the granite, along a 600 metre, northwest trending zone of intense shearing, and argillic and K-feldspar alteration. Less commonly, it occurs along fractures in the aplitic dykes. Chalcopyrite, in trace amounts, is sometimes associated with the molybdenum and pyrite occurs in all

rock types.

**BIBLIOGRAPHY** 

EMPR AR 1967-53; 1968-68

EMPR ASS RPT \*1661

EMPR MAP 8 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/10/09 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 035

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

532

NAME(S): OAKWOOD

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I10E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6041683 EASTING: 528120 LATITUDE: 54 31 19 N

LONGITUDE: 128 33 56 W ELEVATION: 250 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description and Figure 14 (Geological Survey of Canada Memoir 205).

COMMODITIES: Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Specularite

ALTERATION: Hematite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

DEPOSIT

STI
CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: l05 Polym
SHAPE: Irregular
MODIFIER: Sheared Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Granodiorite

Quartz Albite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Kitimat Trench

**CAPSULE GEOLOGY** 

Granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex is cut by shear zones and a quartz albite dyke. Quartz veins up to 20 centimetres wide, associated with these features, contain

pyrite and hematite. A channel sample assayed trace silver (Geological Survey of Canada Memoir 205).

**BIBLIOGRAPHY** 

EMPR AR 1923-49; 1925-68 EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*205, pp. 24,25,Fig 14; 329 GSC P 36-17, p. 41

DATE CODED: 1986/10/09 DATE REVISED: 1989/08/10 CODED BY: LDJ FIELD CHECK: N REVISED BY: LLD FIFLD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 036

NATIONAL MINERAL INVENTORY: 103I9 Cu5

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REPORT: RGEN0100

533

NAME(S): NUGGET, GOLD STAR

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 36 19 N NORTHING: 6050997 LONGITUDE: 128 28 16 W ELEVATION: 570 Metres EASTING: 534163

LOCATION ACCURACY: Within 500M

COMMENTS: Showing #4, Figure 12 (Assessment Report 1090).

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Chalcocite ASSOCIATED: Quartz **Bornite** Gold Magnetite Specularite ALTERATION: Malachite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su Disseminated Hvdrothermal

Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular DIMENSION: STRIKE/DIP: 360/35W TREND/PLUNGE: COMMENTS: Main vein.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Jurassic Hazelton

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite

Feldspar Porphyry Granodiorite

Andesite Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1937 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Silver 150.9000 Grams per tonne Gold 9.6000 Grams per tonne Copper 4.6000 Per cent

REFERENCE: Geological Survey of Canada Memoir 205.

**CAPSULE GEOLOGY** 

Andesite and andesite feldspar porphyry of the Jurassic Hazelton Group are intruded by granodiorite dykes and sills of the Cretaceous to Tertiary Coast Plutonic Complex. The volcanics are cut by faults, shears, and quartz veins, which contain fracture fills, dissemina-

tions, and blebs of chalcocite and bornite and copper staining (malachite). Occasional specks of free gold occur.

The main vein strikes north for 12 metres, adjacent a fault, and dips 35 degrees west. It is about 1 metre wide and a 1.4 kilogram sample assayed 9.6 grams per tonne gold, 150.9 grams per tonne silver and 4.6 per cent copper (Geological Survey of Canada Memoir 205). Other veins are exposed in creek beds over an area measuring 300 by

150 metres.

BIBLIOGRAPHY

EMPR AR 1928-146; \*1937-C9,C10; 1939-69; 1967-81 EMPR ASS RPT 999, \*1090, 1961, 2719 EMPR GEM 1969-76,77

EMPR MAP 69-1; 8

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 1136A; 11-1956; 278A; 1385A GSC MEM \*205, p. 52; 329, p. 86 GSC P 36-17, p. 91; 36-20, pp. 22,23

DATE CODED: 1986/12/12 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 103I 036

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 037

NATIONAL MINERAL INVENTORY: 103I9 Cu5

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NORTHING: 6051607 EASTING: 533082

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

535

NAME(S): **COPPER KING**, GOLD STAR

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Omineca UTM ZONE: 09 (NAD 83)

NTS MAP: 103I09W BC MAP: LATITUDE: 54 36 39 N

LONGITUDE: 128 29 16 W ELEVATION: 580 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Main vein #7, Figure 12 (Assessment Report 1090).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite **Bornite** Chalcocite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated CLASSIFICATION: Epigenetic TYPE: L01 Su Hydrothermal Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

MODIFIER: Sheared DIMENSION:

COMMENTS: Mineralized zone of irregularly distributed quartz veins.

STRIKE/DIP: 065/65N TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u>

Undefined Formation Jurassic Hazelton Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite

Andesite Feldspar Porphyry

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

**FORMATION** 

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1928 SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver

37.7000 Grams per tonne 11.7000 Gold Grams per tonne 1.0000 Per cent

Copper
COMMENTS: The sample width is 76.0 centimetres. REFERENCE: Minister of Mines Annual Report 1928.

**CAPSULE GEOLOGY** 

The area is underlain by andesite and andesite feldspar porphyry of the Jurassic Hazelton Group and is intruded by granodiorite dykes and sills of the Cretaceous to Tertiary Coast Plutonic Complex. The volcanics are cut by faults, shears, and quartz veins, which contain fracture fills, disseminations, and blebs of chalcopyrite, pyrite, bornite, and minor chalcocite. The mineralization is usually close

to, or associated with the granodiorite.

The main vein strikes 065 degrees for 40 metres and dips 65 degrees to the northwest. It is 5.5 to 8.2 metres wide and a 76 centimetre wide sample assayed 11.7 grams per tonne gold, 37.7 grams per tonne silver and 1.0 per cent copper (Minister of Mines Annual Report 1928). The mineralized zones are mainly exposed in north trending streams over an area measuring 600 by 300 metres.

**BIBLIOGRAPHY** 

EMPR AR \*1914-142,143, Map p. 120; 1923-105; \*1928-145,146;

1967-81

EMPR ASS RPT 999, \*1090, 1961, 2719

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR GEM 1969-76,77 EMPR MAP 69-1; 8 GSC MAP 278A; 11-1956; 1136A; 1385A GSC MEM \*205, pp. 52,53; 329, p. 86 GSC P 36-17, pp. 92,93; 36-20, pp. 22,23

DATE CODED: 1986/12/12 DATE REVISED: 1989/08/10 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103I 037

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 038 NATIONAL MINERAL INVENTORY: 103I9 Cu20

NAME(S): GOLD STAR, FRYING PAN, TRIUNE

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 37 29 N LONGITUDE: 128 27 56 W ELEVATION: 1430 Metres NORTHING: 6053163 EASTING: 534506

LOCATION ACCURACY: Within 500M

COMMENTS: A zone, Figure 22 (Geology, Exploration and Mining in British Columbia

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Bornite Chalcopyrite

ALTERATION: Pyrite ALTERATION TYPE: Pyrite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su Disseminated Hvdrothermal

Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular MODIFIER: Sheared

DIMENSION: 0085 x 0045 x 0030 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: A zone.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP
Permian IGNEOUS/METAMORPHIC/OTHER **FORMATION** Unnamed/Unknown Informal

LITHOLOGY: Dacite Tuff

Rhyodacite Basalt

Basaltic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: A REPORT ON: N

> CATEGORY: Assay/ar SAMPLE TYPE: Channel YFAR: 1969 Assay/analysis

**GRADE** COMMODITY

Silver 27.4000 Grams per tonne Per cent 1.0700 Copper

COMMENTS: Is the weighted average of channel samples taken every 3 metres over a

length of 31 metres and average width of 1.2 metres.

REFERENCE: Assessment Report 2365.

**CAPSULE GEOLOGY** 

Kitselas Mountain is underlain by volcanics and metavolcanics of probable Permian age. The metavolcanics, derived from rhyodacite crystal-lithic tuffs and fragmental tuffs, are cut by basic dykes. The volcanics, consisting of massive basalts and basaltic andesites, apparently unconformably overlie the metavolcanics. The rocks are complexly folded and cut by a northwest striking fault. Northeast of the fault is a 600 by 450 metre mineralized area containing bornite and chalcopyrite as fracture fills and disseminations in the metavolcanics.

In the A zone, mineralization is confined to closely spaced northeast and northwest vertical fractures and shear planes. Channel samples of average width 1.2 metres taken every 3.0 metres over a length of 31 metres assayed 1.07 per cent copper and 27.4 grams per tonne silver. A 6.7 metre chip sample, 85 metres to the east, assayed 1.33 per cent copper and 3.4 grams per tonne silver (Assessment Report 2365). The A zone is about 30 metres wide with an east-west strike

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

length of 85 metres and a vertical expression of 45 metres. In the B zone, 250 metres southwest of the A zone, dissemination ted bornite and chalcopyrite occurs along the margins of, and adjacent to basic dykes. Chip sampling over 26.5 metres assayed 0.51 per cent copper and 27.4 grams per tonne silver. Channel samples in the lower B zone assayed 0.02 per cent copper and 41.1 grams per tonne silver over 1.4 metres and 0.02 per cent copper and 6.9 grams per tonne silver over 1.7 metres (Assessment Report 2365).

In the C zone, 500 metres west-southwest of the A zone, minor chalcopyrite occurs in meta-rhyolites adjacent to basic dykes. A 4.6 chip sample assayed 0.08 per cent copper and 13.7 grams per tonne silver (Assessment Report 2365).

The K to M zones, 650 metres south of the A zone, occurs in a felsite rock, which represents bleaching and pyritization of the finer grained grey crystal tuffs adjacent to the major northwest fault zone. A 3 metre sample assayed 0.47 per cent copper and 10.3 grams per tonne silver in one zone (Property File: White, 1970).

#### **BIBLIOGRAPHY**

EMPR AR 1919-99; 1929-151 EMPR ASS RPT \*2365, 2719 EMPR GEM \*1969-76,77; \*1970-195-197 EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329 GSC P 36-20, p. 23

DATE CODED: 1986/12/12 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 1031 039

NAME(S): LUCKY LUKE (L.7424)

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 103l09W BC MAP:

LATITUDE: 54 37 19 N

LONGITUDE: 128 26 36 W ELEVATION: 320 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit, Figure 8 (Geological Survey of Canada Memoir 205).

COMMODITIES: Copper Silver Tungsten Gold

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Quartz Chalcopyrite Pyrite Chalcocite Gold

ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal

TYPE: I02 L01 Intrusion-related Au pyrrhotite veins Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular MODIFIER: Sheared

STRIKE/DIP: 110/65N DIMENSION: TREND/PLUNGE:

COMMENTS: Shear zone.

HOST ROCK

INVENTORY

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP
Triassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Andesite Flow Chlorite Schist

Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

REPORT ON: N

YEAR: 1937

TERRANE: Stikine

ORE ZONE: DUMP

CATEGORY: Assav/analysis

SAMPLE TYPE: Bulk Sample

COMMODITY Silver

80.2000 Grams per tonne Gold 50.0000 Grams per tonne Copper 2.7800 Per cent

COMMENTS: 1.6 kilogram sample from an old ore bin.

REFERENCE: Geological Survey of Canada Memoir 205, page 50.

**CAPSULE GEOLOGY** 

The area is underlain predominently by andesite flows and lesser porphyritic andesite and chlorite schist of probable  $% \left\{ 1,2,...,n\right\}$ 

**GRADE** 

Triassic age. The rocks are cut by aplitic dykes and shear zones.

A shear zone, trending 110 degrees and dipping 65 degrees A shear zone, trending 110 degrees and dipping 65 degrees north, contains narrow lenticular quartz veins mineralized with bornite, chalcopyrite, pyrite, chalcocite, and visible free gold. The shear zone is 1 to 2 metres wide and the quartz veins average 20 centimetres wide. A 51 centimetre channel sample of schist assayed 8.9 grams per tonne gold and 57.7 grams per tonne silver and a 1.6 kilogram sample from an old ore bin assayed 50 grams per tonne gold and 50 grams per tonne gold and 57.7 grams per tonne gold tonne gold, 80.2 grams per tonne silver and 2.78 per cent copper (Geological Survey of Canada Memoir 205).

The presence of tungsten has also been reported.

Recorded production for the period 1924-1938 totals 26 tonnes of ore shipped or treated. From this ore 622 grams of gold, 11,011 grams of silver, and 5801 kilograms of copper were recovered. The workings were re-opened in 1964 and about 90 tonnes of ore was mined from a small stope in 1965. From this portion, the highest gold

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NATIONAL MINERAL INVENTORY: 103I9 Cu7

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6052865 EASTING: 535943

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

content was sorted and shipped, and in 1967 about 3 tonnes of sorted ore produced 93 grams of gold, 3,359 grams of silver, and 1,158  $\,$ kilograms of copper.

## **BIBLIOGRAPHY**

EMPR AR 1918-110,111; 1919-98; 1923-104; 1924-88; 1925-125; 1928-146; 1931-70; 1934-C4; \*1937-C7-C9; 1938-B36,C48; 1939-69; 1964-47; 1965-70; 1967-A54 EMPR BULL 10(Rev.), p. 58 EMPR MAP 69-1; 8 EMPR OF 1991-17 EMPR OF 1991-17
EMR MP CORPFILE (Lucky Gold Quartz Inc.)
GSC EC GEOL No. 17, p. 44
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM \*205, pp. 49-51; \*329, pp. 85,86
GSC P 36-17, pp. 87-89; 36-20, pp. 20,21
GSC SUM RPT 1925A, p. 116
CANMET IR 66-30; 66-31
N MINER June 25, 1942, p. 26

DATE CODED: 1986/12/16 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 039

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 040 NATIONAL MINERAL INVENTORY: 103I9 Cu18

NAME(S): CORDILLERA, KITSALAS MOUNTAIN COPPER CO.

STATUS: Past Producer Underground MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103l09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 37 44 N NORTHING: 6053640 EASTING: 536206

LONGITUDE: 128 26 21 W ELEVATION: 200 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Veins, Figure 11 (Geological Survey of Canada Memoir 205).

COMMODITIES: Copper Silver Tungsten Gold

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Quartz Chalcocite Chalcopyrite Gold

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CHARACTER. Veiii
CLASSIFICATION: Hydrothermal
TYPE: I02 Intrus
SHAPE: Irregular

Intrusion-related Au pyrrhotite veins L01 Subvolcanic Cu-Ag-Au (As-Sb)

DIMENSION: STRIKE/DIP: 040/30W TREND/PLUNGE:

COMMENTS: Vein system.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal Triassic

LITHOLOGY: Andesite Flow

Chlorite Schist Tuff

Lamprophyre Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1925 Assay/analysis

SAMPLE TYPE: Chip

**COMMO**DITY **GRADE** 130.3000 Silver Grams per tonne 13.7000 Gold Grams per tonne 7.1000 Per cent Copper

REFERENCE: Geological Survey of Canada Summary Report 1925A.

CAPSULE GEOLOGY

The area is underlain by andesite flows, chlorite schists, and tuffs of probable Triassic age. The rocks are cut by lamprophyre dykes. Several quartz vein, striking 040 degrees and dipping 25 to 45 degrees northwest contain sparse bornite, chalcocite, chalcopyrite, and gold. The veins are up to 30 metres long and up to 3.0 pyrite, and gold. The veins are up to 30 metres long and up to 3.0 metres wide. The vein system extends for about 150 metres along strike. A 1.0 metre sample of one vein assayed 13.7 grams per tonne gold, 130.3 grams per tonne silver, and 7.1 per cent copper (Geological Survey of Canada Summary Report 1925A).

Tungsten has also been reported.

Recorded production for the period 1915-1922 totals 73 tonnes of ore milled and/or shipped from this property. From this are 1151

of ore milled and/or shipped from this property. From this ore 115 grams of gold, 6875 grams of silver, and 15,881 kilograms of copper From this ore 1151

were recovered.

**BIBLIOGRAPHY** 

EMPR AR \*1914-141,142,174; \*1917-97-99; 1918-110; 1919-98; \*1920-80, 81; 1921-95; 1922-97,353; 1923-101; 1925-125; 1926-124; 1930-136; 1938-B37,C48; 1939-68

EMPR BULL 10(Rev.), p. 58

EMPR MAP 69-1; 8

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EMPR OF 1991-17 N MINER Jun.25, 1942, p. 26 GSC EC GEOL No. 17, p. 44 GSC MAP 278A; 1136A; 11-1956; 1385A GSC MEM \*205, pp. 46-49; 329, pp. 85,86 GSC P 36-17, pp. 83-86; \*36-20, pp. 21,22 GSC SUM RPT \*1925, pp. 115,116

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 041 NATIONAL MINERAL INVENTORY: 103I9 Cu1

NAME(S): **DIADEM**, NICHOLSON CREEK

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6057994 EASTING: 539306 LATITUDE: 54 40 04 N LONGITUDE: 128 23 26 W ELEVATION: 370 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Veins, Map by Siefert, 1946 (Property File).

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Bornite Pyrite** 

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su Hvdrothermal

Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 070/55S TREND/PLUNGE: COMMENTS: Width of zone of quartz veins.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Triassic Unnamed/Unknown Group Unnamed/Unknown Formation Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite Flow

Rhvolite Quartz Diorite Granodiorite

Feldspar Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1928 Assay/analysis

**GRADE** 

COMMODITY Silver 35,0000 Grams per tonne

8.5000 Per cent Copper

COMMENTS: 60 centimetre sample from one vein; also assayed trace gold.

REFERENCE: Minister of Mines Annual Report 1928, page 144.

CAPSULE GEOLOGY

Triassic volcanics, consisting of rhyolites and andesite flows, are intruded by quartz diorite and granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. The volcanics are cut by feldspar

with associated quartz veins.

Several east trending veins occur within the volcanics over a 200 metre width. The veins carry chalcopyrite, bornite and pyrite. A 60 centimetre sample of one vein assayed trace gold, 35 grams per tonne silver and 8.5 per cent copper (Minister of Mines Annual Report 1928).

Two trial shipments, totalling about one tonne, assayed 0.6 grams per tonne gold, 55 grams per tonne silver, and 5.8 per cent copper (Minister of Mines Annual Report 1928).

**BIBLIOGRAPHY** 

EMPR AR 1923-102; 1925-126; 1926-125; 1927-126; \*1928-144; 1929-152; \*1930-133-135; 1931-70; 1934-C5; 1935-C7; 1938-B39; 1948-76,77;

1951-108; 1952-85; 1953-92; 1954-85; 1955-21

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EMPR MAP 69-1; 8

EMPR PF (Rpt by N.G. Freshwater, Maps by J.A. Siefert, 1946 and F. Nash, 1931)

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM \*205, pp. 56,57; \*329, pp. 86,87

GSC P 36-17, pp. 97,98

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 042

NATIONAL MINERAL INVENTORY: 103I9 Cu11

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NAME(S):  $\frac{\text{MAC SHANNON}}{\text{DIADEM}}$ , NICHOLSON CREEK, KOKANEE,

STATUS: Developed Prospect MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103109W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 39 54 N LONGITUDE: 128 24 16 W NORTHING: 6057677 EASTING: 538413

ELEVATION: 520 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location from map by Siefert, 1946 (Property File).

COMMODITIES: Copper Silver Gold Tungsten

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite **Bornite** Scheelite

ASSOCIATED: Quartz

ALTERATION: Silica
COMMENTS: Skarn is mentioned but minerals are not identified.

ALTERATION TYPE: Silicific'n Skarn

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Vein

CLASSIFICATION: Hydrothermal

TYPE: LÓ1 Subvolcanic Cu-Ag-Au (As-Sb) SHAPE: Irregular MODIFIER: Faulted Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic FORMATION IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

Unnamed/Unknown Group

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Porphyritic Andesite Flow Rhyolite

Basalt

Porphyritic Feldspar Dike Quartz Diorite

Granodiorite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1939 Assay/analysis

SAMPLE TYPE: Chip **GRADE** COMMODITY

Silver 34.3000 Grams per tonne

Copper 1.2000 1.60 col. COMMENTS: 75 centimetre sample from stripped area, also assayed trace gold.

REFERENCE: Minister of Mines Annual Report 1938, page B39.

CAPSULE GEOLOGY

Triassic volcanics and metavolcanics are intruded by quartz diorite and granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. The volcanics consist mainly of rhyolites, porphyritic andesite flows, and minor basalt. All rocks are cut by feldspar porphyry dykes, faults, and shear zones with associated quartz veins.

The volcanics and veins carry pyrite, sparse bornite and chalcopyrite, minor skarn minerals, and, in places, some scheelite.

A 75 centimetre sample of a silicified zone assayed trace gold, 34.3 grams per tonne silver and 1.2 per cent copper (Minister of Mines)

grams per tonne silver and 1.2 per cent copper (Minister of Mines Annual Report 1939).

Bulk samples shipped to the Provincial Sampling Plant at Prince Rupert in 1941 and 1945 assayed as follows:

Tonnes Gold (grams) Silver (grams) Copper (per cent) 0.44 nil nil nil

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

0.469 13.71 397.7 8.38 (Minister of Mines Annual Reports for 1941, page 41; and 1945, page 52). In 1953, about 1.0 tonne of ore from this property produced 62 grams of silver and 59 kilograms of copper.

**BIBLIOGRAPHY** 

EMPR AR 1930-134,135; 1938-B39; 1939-68,69; \*1941-41; \*1945-52,63 EMPR ASS RPT 5722, 6032 EMPR EXPL 1975-176; 1976-163 EMPR MAP 8; 69-1 EMPR MAP 8; 69-1
EMPR OF 1991-17
EMPR PF (Rpt by N.G. Freshwater, 1946; Maps by J.A. Siefert, 1946, and F. Nash, 1931)
EMR MP CORPFILE (International Shasta Resources Ltd.)
GSC MAP 278A; 11-1956; 1136A; 1385A
GSC MEM \*205, pp. 56,57; 329, pp. 86,87
GSC P 36-17, pp. 97,98
CIM Spec. Vol. 15, 1976, Map B

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 043 NATIONAL MINERAL INVENTORY: 10319 Ag4

NAME(S): **A - B**, RIDGE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6061401 EASTING: 540172 LATITUDE: 54 41 54 N LONGITUDE: 128 22 36 W

ELEVATION: 810 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Sketch Map, Mandy, 1938 (Property File).

COMMODITIES: Silver Zinc Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Chalcopyrite Pyrrhotite Arsenopyrite Sphalerite

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Disseminated Hydrothermal

TYPE: LOT Subvolcanic Cu-Ag-Au (As-Sb) 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 010/45F TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YEAR: 1937 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock COMMODITY GRADE

Silver 2.4000 Grams per tonne Gold 0.3000 Grams per tonne

10.2000 7inc Per cent

COMMENTS: The sample was obtained from a 15 to 30 centimetre wide vein.

REFERENCE: Geological Survey of Canada Memoir 205.

**CAPSULE GEOLOGY** 

Andesites of the Jurassic Hazelton Group are cut by shear zones and quartz veins mineralized with pyrite, chalcopyrite, pyrrhotite and arsenopyrite. A shear zone, up to 6 metres wide, contains two quartz veins trending 75 degrees and dipping 45 degrees north. A sample of a 38 centimetre vein assayed 0.2 grams per tonne gold, 24 grams per tonne silver and 0.39 per cent copper (Geological Survey of Canada Memoir 329). About 16 metres to the east, a 3.4 metre sample of disseminated pyrite and chalcopyrite in a shear zone assayed 0.2 grams per tonne gold, 12.3 grams per tonne silver and 0.23 per cent copper (Geological Survey of Canada Memoir 329). A 0.5 metre wide mineralized quartz vein occurs 53 metres further to the east.

About 120 metres to the north, between two lakes, a 15 to 30 centimetre wide vein, striking 010 degrees and dipping 45 degrees east, is exposed for 7.6 metres. A sample assayed 0.3 grams per tonne gold 2.4 grams nor tonne tonne gold, 2.4 grams per tonne silver and 10.20 per cent zinc (Geological Survey of Canada Memoir 205).

**BIBLIOGRAPHY** 

EMPR MAP 69-1; 8

EMPR PF (\*Sketch Map by J.T. Mandy, 1938) GSC MAP 11-1956; 1136A; 278A; 1385A GSC MEM \*205, p. 57; \*329, pp. 87,88

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**BIBLIOGRAPHY** 

GSC P 36-17, pp. 99,100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 044

NATIONAL MINERAL INVENTORY: 103I9 Cu19

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 $\begin{array}{ll} \text{NAME(S): } & \underline{\textbf{DIORITE}} \\ \hline & \text{CANYON} \end{array} \text{DIAMOND, GROTTO,} \\ \\ \end{array}$ 

STATUS: Past Producer Underground MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103I09W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 42 19 N LONGITUDE: 128 20 46 W NORTHING: 6062192 EASTING: 542134

ELEVATION: 200 Metres LOCATION ACCURACY: Within 500M COMMENTS: Description.

> COMMODITIES: Copper Silver Gold

MINERALS SIGNIFICANT: Chalcopyrite **Bornite** Specularite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

TYPE: LÓ1 S SHAPE: Irregular Subvolcanic Cu-Ag-Au (As-Sb)

MODIFIER: Fractured

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

Cretaceous-Tertiary Unnamed/Unknown Informal

LITHOLOGY: Andesite

Granodiorite Quartz Albite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1929

SAMPLE TYPE: Rock **GRADE** 

COMMODITY Silver 27,4000 Grams per tonne 4.8000 Gold Grams per tonne Copper 2.8000 Per cent

REFERENCE: Minister of Mines Annual Report 1929.

**CAPSULE GEOLOGY** 

Andesite of the Jurassic Hazelton Group are cut by quartz albite dykes and granodiorite dykes and stocks. Chalcopyrite and sparse bornite occur along minor faults and fractures in the quartz-albite dyke. Mineralization also occurs along the contacts of several narrow granodiorite dykes cutting the quartz-albite dyke. A selected sample assayed 4.8 grams per tonne gold, 27.4 grams per tonne silver and 2.8 per cent copper (Minister of Mines Annual Report 1929). In 1916, 9 tonnes of ore were shipped from this property. From this ore 454 kilograms of copper were recovered and about 65 cents per tonne in cold and silver were recovered (Minister of Mines Annual

per tonne in gold and silver were recovered (Minister of Mines Annual Report 1916, page 98).

**BIBLIOGRAPHY** 

EMPR AR \*1916-98-100; 1929-152; 1930-137; 1931-71; 1937-C4; 1952-85

EMPR BULL 1, 1932, p. 56

EMPR MAP 69-1; 8

EMPR PF (\*Maps & Rpt by J.T. Mandy, 1938) EMR MP CORPFILE (Huestis Mining Corporation Ltd.) GSC MAP 11-1956; 1136A; 278A; 1385A

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**BIBLIOGRAPHY** 

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 045

NAME(S): **GROTTO** 

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 42 29 N

LONGITUDE: 128 21 36 W ELEVATION: 200 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adits, Figure 6 (Geological Survey of Canada Memoir 212), located on

Hardscräbble Creek.

Tungsten COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Hessite

Cosalité

Specularite Rickardite

Sphalerite Petzite

Underground

Empressite

ASSOCIATED: Quartz ALTERATION: Limonite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Epigenetic Hydrothermal

TYPE: I02 I SHAPE: Irregular Intrusion-related Au pyrrhotite veins

MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 045/60N TREND/PLUNGE:

COMMENTS: No. 1 vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Jurassic Cretaceous-Tertiary

**GRO**UP Hazelton **FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Subvolcanic Cu-Ag-Au (As-Sb)

PAGE:

NATIONAL MINERAL INVENTORY: 103I9 Cu3

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6062493 EASTING: 541236

REPORT: RGEN0100

Tellurium

551

Undefined Formation Coast Plutonic Complex

L01

LITHOLOGY: Andesite

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

PHYSIOGRAPHIC AREA: Hazelton Ranges

### CAPSULE GEOLOGY

Andesite of the Jurassic Hazelton Group is intruded by porphyritic granodiorite dykes and stocks of the Cretaceous to Tertiary Coast Plutonic Complex. Narrow quartz veins and stringers occur adjacent to contacts of the dykes and stocks and along shears and faults in the andesites. Mineralization consists of pyrite, chalcopyrite and specularite, with minor amounts of sphalerite, petzite, hessite, cosalite, empressite, rickardite, chalcocite and possibly native tellurium.

No. 1 vein, along the contact of a 4 metre wide dyke, is 30 centimetres wide along a northeast strike for 30 metres. It dips 60degrees to 90 degrees northeast strike for 30 metres. It dips 60 degrees to 90 degrees northwest. A 106 centimetre sample assayed 6.9 grams per tonne gold, 1,070 grams per tonne silver and 1.4 per cent copper (Minister of Mines Annual Report 1937). About 90 metres to the west, a northeast trending vein in andesite is 12 metres long and about 20 centimetres wide. A 23 centimetre channel sample assayed 24 grams per tonne gold, 493.7 grams per tonne silver and 3.76 per cent copper (Geological Survey of Canada Memoir 212). A further 90 metres to the west, several parallel east-northeast trending quartz veins in to the west, several parallel east-northeast trending quartz veins in andesite, are up to 15 metres long and 30 centimetres wide. A 48 centimetre channel sample assayed 10.3 grams per tonne gold, 85.7 grams per tonne silver and 3.08 per cent copper (Geological Survey of Canada Memoir 212). Thirty metres to the southwest of the above quartz veins is a shear zone containing a quartz vein striking 120 degrees and dipping 65 degrees southwest. A 61 centimetre channel sample across the vein assayed 0.7 grams per tonne gold, 54.2 grams per tonne silver and 0.32 per cent copper (Geological Survey of Canada Memoir 212).

About 170 metres southeast of No. 1 vein, silicified tuffs contain disseminated chalcopyrite. A chip sample over a 1.5 by 3.0 metre area assayed trace gold, 13.7 grams per tonne silver and 0.4

> MINFILE NUMBER: 1031 045

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

per cent copper (Minister of Mines Annual Report 1937). Tungsten is also reported to occur in the area.

Ore shipments in 1938-39 and 1953 totalled 63 tonnes. From this ore 1244 grams of gold, 43,109 grams of silver, and 2303 kilograms of copper were recovered.

### **BIBLIOGRAPHY**

EMPR AR 1929-152,153; 1930-137; 1931-71; \*1937-C4-C7; \*1938-B27; 1939-55,58,69; 1940-55; 1941-55; 1952-85; 1953-92; 1954-85; EMPR BULL 1, 1932, p. 56; 10 (Rev), p. 59 EMPR MAP 69-1; 8 EMPR OF 1991-17 EMPR PF (\*Maps & Rpt by J.T. Mandy, 1938; \*Rpt by J.T. Mandy & D. Lay, 1937; Plan Map J.T. Mandy, 1939) & D. Lay, 1937; Plan Map J.T. Mandy, 1939)
EMR MP CORPFILE (Huestis Mining Corporation Ltd.)
GSC EC GEOL No. 17, p. 45
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC \*MEM 212, pp. 38-40; 329, pp. 88-90
GSC P 36-20, pp. 34,35; 36-17
N MINER Jun.25, 1942, p. 26

DATE CODED: 1986/12/22 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103I 045

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 046 NATIONAL MINERAL INVENTORY: 103I9 Mo1

NAME(S): PITMAN, JB, PIT 1-4

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103l09W BC MAP:

LATITUDE: 54 43 49 N

LONGITUDE: 128 20 01 W ELEVATION: 280 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Upper showing, Figure 4 (Assessment Report 7993).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz

ALTERATION: Chlorite

K-Feldspar

Pyrite

Chalcopyrite Hematite

Magnetite

Specularite

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

Potassic

**Epidote Epidote** 

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L05 Porph Disseminated Porphyry Porphyry Mo (Low F- type)

SHAPE: Irregular MODIFIER: Fractured COMMENTS: Mineralized area.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE

Jurassic Cretaceous-Tertiary **GROUP** Hazelton

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6064981 EASTING: 542913

REPORT: RGEN0100

553

LITHOLOGY: Quartz Monzonite

Quartz Diorite Andesite Hornfels Granitic Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

INVENTORY

ORE ZONE: PITMAN

REPORT ON: Y

Per cent

CATEGORY: QUANTITY:

Unclassified

YEAR: 1965

**COMMODITY** Molvbdenum 3400000 Tonnes

REFERENCE: CIM Special Volume 15 (1976), Table 1, No.105.

**CAPSULE GEOLOGY** 

Andesitic fragmental volcanics and flows of the Jurassic Hazelton Group are intruded by quartz diorite and quartz monzonite of the Cretaceous to Tertiary Coast Plutonic Complex. All rocks are cut by granite porphyry and andesite dykes. The volcanic rocks are silicified, hornfelsed, and locally altered to K-feldspar and

chlorite.  $\label{eq:mineralization} \mbox{Mineralization is associated mainly with the quartz monzonite.}$ Pyrite occurs as disseminations in all units and as blebs and grains in quartz veins. Molybdenite occurs predominantly as fracture fillings with minor amounts related to quartz veins, which also contain minor chalcopyrite, magnetite, and specularite.

The Upper showing, sampled over 16.5 metres, assayed 0.47 per cent molybdenite, and the Lower showing, which is in aplite, averaged 0.10 per cent molybdenite (Assessment Report 7993).

A drill hole, 500 metres to the southwest of the Upper showing, intersected 0.12 per cent molybdenite over 55 metres, which contained 0.196 per cent molybdenite over 18.3 metres (Assessment Report 7993). Unclassified reserves are 3.4 million tonnes grading 0.08 per

> MINFILE NUMBER: 103I 046

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

cent molybdenum (CIM Special Volume 15 (1976), Table 1, No.105).

**BIBLIOGRAPHY** 

EMPR AR \*1959-15,17; 1964-47; 1965-70 EMPR ASS RPT \*7993 EMPR EXPL 1980-394 EMPR MAP 69-1; 8 EMPR PF (Rpt by H.H. Huestis, 1959; Map by W.H. White, 1959) EMR MIN BULL MR 223 B.C. 292 EMR MP CORPFILE (Huestis Molybdenum Corporation Ltd.; Canex Aerial Exploration)
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM 329

CIM SPEC VOL. 15, Table 1 (S.H. Pilcher & J.J. McDougal, #105, 1976)

GCNL #133, 1980

N MINER Jan. 3, 1980, p. 2

DATE CODED: 1986/12/23 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 046

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 047

NATIONAL MINERAL INVENTORY: 103I16 Au6

NAME(S): GOLD DOME

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca

NTS MAP: 103I16W BC MAP:

UTM ZONE: 09 (NAD 83)

7inc

PAGE:

REPORT: RGEN0100

555

LATITUDE: 54 46 19 N NORTHING: 6069578 EASTING: 538491

LONGITUDE: 128 24 06 W ELEVATION: 1220 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol 10 and description (Geological Survey of Canada Map 1136A; Geological Survey of Canada Memoir 329).

Silver

COMMODITIES: Gold Tungsten Lead

**MINERALS** 

SIGNIFICANT: Galena

Pyrite

Chalcopyrite

Sphalerite

Copper

Scheelite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal

**Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

102 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Grab

YEAR: 1964

COMMODITY

**GRADE** 

Silver 1765.0000 Grams per tonne Gold 20.4000 Grams per tonne 1.7600 Copper Per cent

1.3200 Per cent I ead 5.2000 Per cent 7inc

REFERENCE: Geological Survey of Canada Memoir 329.

**CAPSULE GEOLOGY** 

Granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex is cut by narrow quartz veins up to 0.5 metres wide. Two of the veins carry patches and streaks of scheelite. One streak measures up to 5 centimetres wide and 50 centimetres long. The veins

strike northeast and dip 55 to 65 degrees southeast.

West of the scheelite occurrences, several northwest trending,

southwest dipping veins strike for a few hundred metres along a cliff face. The veins carry galena, chalcopyrite, sphalerite, and pyrite. A 36 centimetre sample of one vein assayed 17.5 grams per tonne gold and 2085 grams per tonne silver (Minister of Mines Annual Report 1945) and a grab sample of another vein assayed 20.4 grams per tonne gold, 1765 grams per tonne silver, 1.76 per cent copper, 1.32 per cent lead and 5.2 per cent zinc (Geological Survey

of Canada Memoir 329).

**BIBLIOGRAPHY** 

EM OF 1999-3 EMPR AR 1945-64 EMPR MAP 8; 69-1

EMPR OF 1991-17, 1999-3

GSC MAP 11-1956; 1136A; 278A; 1385A

MINFILE NUMBER: 1031 047

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM \*329, p. 90

DATE CODED: 1986/10/20 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 047

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 048 NATIONAL MINERAL INVENTORY: 103I16 Au1

NAME(S): FIDDLER, DORREEN

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Omineca

NTS MAP: 103I16W BC MAP:

UTM ZONE: 09 (NAD 83)

NORTHING: 6073903 EASTING: 538097 LATITUDE: 54 48 39 N LONGITUDE: 128 24 26 W ELEVATION: 660 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Vein outcrop, Figure 7 (Geological Survey of Canada Memoir 212).

COMMODITIES: Gold Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Galena Tetrahedrite Pyrite Sphalerite Chalcopyrite Covellite

Ársenopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Concordant CLASSIFICATION: Hydrothermal TYPE: 105 Polym

Polymetallic veins Ag-Pb-Zn±Au SHAPE: Regular

MODIFIER: Faulted DIMENSION:

STRIKE/DIP: 130/25N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION GROUP** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

Upper Jurassic Bowser Lake Undefined Formation Lower Jurassic Hazelton Undefined Formation

Unnamed/Unknown Informal Cretaceous

LITHOLOGY: Argillite

Andesite Flow Quartz Diorite Andesite Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/as SAMPLE TYPE: Channel YFAR: 1937 Assav/analysis

**GRADE** COMMODITY

Silver 161.8000 Grams per tonne Gold Grams per tonne 33.6000 1.0400 Per cent Copper Lead 6.7300 Per cent Zinc 3.0000 Per cent

COMMENTS: 30 centimetre sample width.

REFERENCE: Geological Survey of Canada Memoir 212, page 41.

**CAPSULE GEOLOGY** 

The area is underlain by Lower Jurassic age volcanics of the Hazelton Group and Upper Jurassic age sediments of the Bowser Lake Group. The strata is comprised of laminated argillites, bedded tuffs and interbedded andesite flows. The rocks strike 130 degrees and dip 25 degrees northeast and are intruded by a 45 metre wide quartz diorite dyke, which strikes 150 degrees and dips 55 degrees southwest.

The Fiddler quartz vein occurs along a bedding fault plane in argillite below an andesite bed and near the intrusive. The lens shaped vein has been traced for  $100~{\rm metres}$  and is up to  $1.7~{\rm metres}$ wide. A 30 centimetre channel sample assayed 33.6 grams per tonne gold, 161.8 grams per tonne silver, 6.73 per cent lead, 3.00 per cent zinc and 1.04 per cent copper (Geological Survey of Canada Memoir 212). Mineralization consists of chalcopyrite, covellite, galena,

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## GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

pyrite, sphalerite, tetrahedrite and arsenopyrite.

Twenty one metres stratigraphically above the main vein is a

smaller vein assaying 32.2 grams per tonne gold, 19.2 grams per tonne silver, 1.28 per cent lead and 0.24 per cent copper over 20 centimetres (Geological Survey of Canada Memoir 212).

In 1924, 80 tonnes of ore were shipped from this property. This ore reportedly assayed 57.26 grams gold, 205.71 grams silver, 1.3 per cent copper, 6.2 per cent lead, and 5.8 per cent zinc. In 1926, about 8 tonnes of similar ore were shipped.

In 1952, 476 tonnes of ore were shipped. From this ore 3,266 grams of gold, 8,118 grams of silver, 3137 kilograms of lead and 1342 kilograms of zinc were recovered.

### **BIBLIOGRAPHY**

EMPR AR 1914-139-141; 1915-78; \*1916-90,101-105; 1917-101; 1919-369; 1922-98; 1923-105; 1924-93; 1925-131-133; 1926-125; 1927-397; 1940-45; 1949-94; 1950-81,82; 1951-108,109; 1952-85 EMPR ASS RPT 10033 EMPR MAP 69-1; 8 EMPR PF (\*Mine Plans, 1922; Turner, J.R., 1925; Lay, D. 1937) EMR MP CORPFILE (Fiddler Creek Gold Mining Company, Limited; Dorreen Gold Mines Limited; Dorreen Mines Ltd.)
GSC MAP 11-1956; 1136A; 278A; 1385A
GSC MEM \*212, pp. 41-44; 329, pp. 90-92
GSC P \*36-20, pp. 41-43; 36-17

DATE CODED: 1986/10/17 DATE REVISED: 1989/08/10 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103I 048

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 049 NATIONAL MINERAL INVENTORY: 103I16 Au4

NAME(S): **PATMORE** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I16W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6076043 EASTING: 535224 LATITUDE: 54 49 49 N

LONGITUDE: 128 27 06 W ELEVATION: 780 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol #10 (Geological Survey of Canada Map 1136A).

COMMODITIES: Silver Gold I ead 7inc

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stockwork

CLASSIFICATION: Hydrothermal

TYPE: 105 F SHAPE: Irregular Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Jurassic-Cretaceous Bowser Lake Undefined Formation

Cretaceous Unnamed/Unknown Informal

LITHOLOGY: Argillite Tuff

Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> Assay/analysis YEAR: 1937 CATEGORY:

> SAMPLE TYPE: Channel

COMMODITY GRADE Silver 91.9000 Grams per tonne Gold 4.8000 Grams per tonne

2.9200 Per cent I ead

COMMENTS: The sample width is 15 centimetres. REFERENCE: Geological Survey of Canada Memoir 212.

**CAPSULE GEOLOGY** 

Cretaceous quartz diorite sills and dykes cut argillites and tuffs of the Jurassic to Cretaceous Bowser Lake Group. The  $\,$ 

intrusives locally contain quartz veins mineralized with galena,

intrusives locally contain quartz verns mineralized with gazen, sphalerite and lesser pyrite and chalcopyrite.

No. 1 showing contains quartz veins averaging 15 centimetres in width and 15 metres in length. A representative sample assayed 4.1 grams per tonne gold, 78.2 grams per tonne silver, 1.00 per cent lead and 1.05 per cent zinc (Geological Survey of Canada Memoir 212).

No. 2 showing, 365 metres to the west, occurs in a quartz diorite sill within argillites striking east and dipping 40 degrees north. A 15 centimetre channel sample assayed 4.8 grams per tonne gold, 91.9 grams per tonne silver and 2.92 per cent lead (Geological Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR AR 1934-C5 EMPR ASS RPT 10033

EMPR MAP 69-1; 8

GSC MAP 1136A; 11-1956; 278A; 1385A GSC MEM \*212, pp. 44,45; 329, pp. 92,93 PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P \*36-20, pp. 43,44; 36-17

DATE CODED: 1986/10/17 DATE REVISED: 1989/08/10 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 1031 049

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 050 NATIONAL MINERAL INVENTORY: 103I16 Au2

NAME(S): DRY HILL, LORNE CREEK

STATUS: Past Producer REGIONS: British Columbia MINING DIVISION: Omineca Open Pit

NTS MAP: 103I16W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6082405 EASTING: 538292 LATITUDE: 54 53 14 N

LONGITUDE: 128 24 11 W ELEVATION: 190 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Dry Hill Pit, page 157 (Minister of Mines Annual Report 1930).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated
CLASSIFICATION: Placer
TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Bowser Lake Undefined Formation Jurassic-Cretaceous

LITHOLOGY: Argillite

Conglomerate Quartzite Gravel

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Bowser Lake PHYSIOGRAPHIC AREA: Hazelton Ranges

CAPSULE GEOLOGY

Lorne Creek cuts flat lying conglomerates, argillites and quartzites of the Jurassic to Cretaceous Bowser Lake Group. Placer gold occurs in drift-filled pre-glacial channels, up to 120 metres depth. Auriferous quartz veins are probable sources for the fairly coarse and nugget size gold, of which one, discovered in 1931, weighed 46.7 grams.

Approximate volume of gravel in the channel was estimated as 1,720,000 cubic metres with about 0.24 grams of gold per cubic metre (Minister of Mines Annual Report 1930).

**BIBLIOGRAPHY** 

EMPR AR 1884-table; 1885-501,table; 1886-201,table; 1887-table; 1898-1152; 1899-657; 1900-790; 1901-991,996; 1902-47; 1903-26,52; 1904-101; 1905-82; 1906-109; \*1914-137,138,175; 1916-92; 1927-65; \*1930-154-159; \*1931-77-79; 1932-86,87; 1934-

C18

EMPR BULL 1, 1931, p. 76; 21, pp. 17,18; 28, pp. 43,45 EMPR MAP 69-1; 8 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 212, p. 53; 329, pp. 69-71 GSC P 36-20, pp. 10,11 GSC SUM RPT 1923A, pp. 42-44

DATE CODED: 1986/09/29 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 051

NATIONAL MINERAL INVENTORY:

NAME(S): CANADIAN SWEDE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca UTM ZONE: 09 (NAD 83)

NTS MAP: 103I16W BC MAP: LATITUDE: 54 54 39 N

NORTHING: 6085030 EASTING: 538003

PAGE:

REPORT: RGEN0100

562

LONGITUDE: 128 24 26 W ELEVATION: 200 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description and elevation of adit.

COMMODITIES: Copper

7inc Silver Gold I ead Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite Molybdenite

ASSOCIATED: Quartz

ALTERATION: Malachite
COMMENTS: Copper-stain is assumed to be malachite.
ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym **Epigenetic** 

Polymetallic veins Ag-Pb-Zn±Au SHAPE: Irregular

MODIFIER: Sheared

DIMENSION: Metres STRIKE/DIP: 085/60S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Araillite

Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges TERRANE: Bowser Lake

INVENTORY

ORE ZONE: VEINS REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1988 SAMPLE TYPE: Rock

COMMODITY Silver **GRADE** 298.0000 Grams per tonne Gold 5.4000 Grams per tonne 2.7000 Copper Per cent

Per cent Lead 12.0300 Per cent Zinc 0.7000

COMMENTS: Highest values.

REFERENCE: Assessment Report 18831.

### **CAPSULE GEOLOGY**

Quartz veins occur in argillites and quartzites of the Jurassic to Cretaceous Bowser Lake Group. The quartz veins, generally associated with shear zones averaging 0.6 metre wide, are mineralized with pyrite and contain traces of gold and silver. A vein 150 metres northwest of an adit assayed 13.7 grams per tonne silver and trace gold over 3.6 metres (Minister of Mines Annual Report 1928). The vein is also mineralized with areas of copper-stain and molybdenite which assayed 61.7 grams per tonne silver and 0.7 gram per tonne gold (Minister of Mines Annual Report 1930). The shear zone strikes 085

degrees and dips 60 degrees south.

Sampling of the quartz veins in 1988 revealed that they are variably mineralized with chalcopyrite, galena, sphalerite and pyrite. Assays yielded up to 2.7 per cent copper, 298 grams per tonne silver, 12.03 per cent lead, 5.4 grams per tonne gold and 0.7 per cent zinc (Assessment Report 18831).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR \*1928-149,150; 1930-138 EMPR ASS RPT \*18831 EMPR MAP 69-1; 8 EMPR OF 1994-14 GSC MAP 1136A; 11-1956; 278A; 1385A GSC MEM 212, p. 47; 329, p. 93 GSC P 36-17

DATE CODED: 1986/10/21 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD

> MINFILE NUMBER: 103I 051

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 052

NAME(S): WINDFALL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I16W BC MAP:

LATITUDE: 54 56 24 N

LONGITUDE: 128 25 51 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein, Figure 8 (Geological Survey of Canada Memoir 212).

COMMODITIES: Silver 7inc Gold I ead Copper

Pyrite

Chalcopyrite

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au SHAPE: Regular

MODIFIER: Faulted

STRIKE/DIP: 110/45S TREND/PLUNGE: DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Argillite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

**GRADE** 

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1931 Assay/analysis

SAMPLE TYPE: Chip COMMODITY

Silver 240.0000 Grams per tonne 0.3400 Grams per tonne Gold 0.9000 Per cent Copper Per cent Lead 7.2000 Per cent 7inc 24.0000

COMMENTS: The sample width is 1.5 metres.

REFERENCE: Minister of Mines Annual Report 1931.

CAPSULE GEOLOGY

A quartz vein containing sphalerite, galena, chalcopyrite and pyrite occurs at the crest of a small anticline in argillites of the degrees and dipping 45 degrees south, is 1.0 to 1.5 metres wide and about 12 metres long. It is cut off to the north by an east striking, 45 degree north dipping fault. A 1.5 metre sample assayed 240 grams per tonne silver, 7.2 per cent lead, 24 per cent zinc, 0.9 per cent copper and 0.34 grams per tonne gold (Minister of Mines Annual Report 1931). Thirty metres to the north, a 3 to 12 metre wide feldspar porphyry sill strikes 120 degrees and dips 15 degrees

north.

**BIBLIOGRAPHY** 

EMPR AR 1931-71,72,79

EMPR MAP 69-1; 8

GSC MAP 11-1956; 1136A; 278A; 1385A GSC MEM \*212, pp. 47-49; 329, pp. 93,94 GSC P \*36-20, pp. 52,53; 36-17

DATE CODED: 1986/10/21 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 052

PAGE:

NATIONAL MINERAL INVENTORY: 103I16 Ag4

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6088263 EASTING: 536463

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 053

NATIONAL MINERAL INVENTORY: 103I16 Ag3

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

565

NAME(S): HUGHIE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I16W BC MAP:

LATITUDE: 54 58 59 N NORTHING: 6093117 EASTING: 543445

LONGITUDE: 128 19 16 W ELEVATION: 550 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description from Minister of Mines Annual Report 1928, page 150.

COMMODITIES: Silver 7inc Gold Copper I ead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Sphalerite Galena Chalcopyrite

Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia Disseminated

CLASSIFICATION: Replacement

TYPE: 105 F SHAPE: Irregular Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1929 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip COMMODITY GRADE

Silver 137.0000 Grams per tonne Copper 8.0000 Per cent

4.6000 Per cent Lead Zinc Per cent 5.0000

COMMENTS: The sample width is 46.0 centimetres. REFERENCE: Minister of Mines Annual Report 1929.

**CAPSULE GEOLOGY** 

Shear zones within argillites of the Jurassic to Cretaceous Bowser Lake Group contain brecciated argillite, which are veined and replaced by quartz and calcite gangue. The shear zones are mineralized with pyrite, sphalerite, galena and chalcopyrite. The zones are 1 to 2.5 metres wide and strike north to northwest with 60 to 70 degrees southeast dips. A 60 centimetre sample of a north striking shear assayed 38.7 grams per tonne silver, 3.8 per cent zinc and trace gold (Geological Survey of Canada Memoir 212). A 46 centimetre sample of a northwest striking shear assayed 137 grams per tonne silver, 8 per cent copper, 4.6 per cent lead, 5 per cent zinc and

trace gold (Minister of Mines Annual Report 1929).

**BIBLIOGRAPHY** 

EMPR AR 1925-130; 1927-129; \*1928-150; 1929-153

EMPR ASS RPT 3541

EMPR MAP 69-1; 8 GSC MAP 278A; 11-1956; 1136A; 1385A

GSC MEM \*212, pp. 51,52; 329

GSC P 36-17

DATE CODED: 1986/10/21 CODED BY: FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/08/10 FIFLD CHECK: N

> MINFILE NUMBER: 1031 053

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 054 NATIONAL MINERAL INVENTORY: 103I16 Ag1

NAME(S): **SEVEN SISTERS**, NIILO, D.W.

STATUS: Prospect MINING DIVISION: Omineca REGIONS: British Columbia

NTS MAP: 103I16W
BC MAP:

ATITUDE: 54 57 09 N NORTHING: 6089740
NGITUDE: 128 17 06 W EASTING: 545791

LATITUDE: 54 57 09 N LONGITUDE: 128 17 06 W ELEVATION: 1300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main shaft, Figure 9 (Geological Survey of Canada Memoir 212).

COMMODITIES: Silver Zinc Lead Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Pyrrhotite Chalcopyrite ASSOCIATED: Quartz Calcite Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant
CLASSIFICATION: Replacement Hydrothermal

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au SHAPE: Regular

MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 360/30E TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE
Jurassic-Cretaceous

GROUP
Bowser Lake

FORMATION
Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Argillite

Tuff Conglomerate Arkose Sandstone Greywacke Intrusive

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SHAFT REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1972

 Copper
 0.1600
 Per cent

 Lead
 3.6000
 Per cent

 Zinc
 24.8000
 Per cent

COMMENTS: The sample width is 45 centimetres.

REFERENCE: Property File: Report by M.K. Lorimer, 1972.

CAPSULE GEOLOGY

Underlying rocks include conglomerate, sandstone, greywacke, argillite, arkose and interbedded tuffs of the Jurassic to Cretaceous Bowser Lake Group. To the northeast, the sediments are intruded by a stock which forms the core of the Seven Sisters Mountain. This intrusion resulted in the folding and faulting of the strata and the emplacement of quartz veins and mineralized zones.

Sphalerite and galena mineralization, and quartz and calcite gangue occur as replacement zones along sheared bedding planes in the sediments. The mineralized zone, striking north-south and dipping 30 degrees east, is traced for 500 metres and is up to 1 metre wide. A 60 centimetre sample assayed 257 grams per tonne silver, 3 per cent lead, 18 per cent zinc and trace gold (Minister of Mines Annual Report 1927). A 45 centimetre sample taken at the shaft collar assayed 492 grams per tonne silver, 0.16 per cent copper, 3.60 per cent lead, 24.80 per cent zinc and 0.17 grams per tonne gold

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

(Property File: Lorimer, 1972). A sample of a massive pyrrhotite and pyrite vein, 800 metres to the north, assayed 14.1 grams per tonne silver, 0.32 per cent copper and trace gold (Geological Survey of Canada Memoir 212).

#### **BIBLIOGRAPHY**

EMPR AR 1925-130; 1926-125; \*1927-126-128; 1928-150-152; 1929-153; 1930-138 EMPR ASS RPT 3541, 4276 EMPR GEM 1969-84; 1972-502; 1973-487 EMPR MAP 69-1; 8 EMPR MAP 69-1; 8

EMPR PF (\*Rpts by M.K. Lorimer, 1969, 1972; Farmin, H. 1926;

Lay, D. 1927; Nash, F. 1927)

EMR MP CORPFILE (Magnetron Mining Ltd.; Acquest Enterprises Ltd.)

GSC EC GEOL No. 8, pp. 280,281

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM \*212, pp. 49-51; 329, pp. 95,96

GSC P \*36-20, pp. 51,52; 36-17

GCNL #166,#184, 1984

DATE CODED: 1986/10/21 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103I 054

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 055

NATIONAL MINERAL INVENTORY: 103I16 Ag2

PAGE:

NORTHING: 6088529

EASTING: 548295

REPORT: RGEN0100

568

NAME(S): **JACKAL**, CALEDONIA, WAVERLEY, REGA, MAG, MACDONALD,

COLLIER

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I16E UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 54 56 29 N LONGITUDE: 128 14 46 W ELEVATION: 1550 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Veins, Figure 4 (Assessment Report 4276).

Copper Gold COMMODITIES: Silver Zinc Lead

Cadmium Antimony

**MINERALS** SIGNIFICANT: Galena Sphalerite Pyrite Pyrrhotite Chalcopyrite Arsenopyrite Pentlandite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated Massive

CHARACTER: Concordant CLASSIFICATION: Replacement Hydrothermal

TYPE: 105 SHAPE: Regular Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 170/65W TREND/PLUNGE: DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Argillite

Tuff

Conglomerate Sandstone Greywacke Arkóse Intrusive

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1972 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver 305.0000 Grams per tonne 0.1700 Gold Grams per tonne Copper 0.5200 Per cent Leàd 6.7000 Per cent Zinc 24.1000 Per cent

COMMENTS: The sample width is 60.0 centimetres. REFERENCE: Property File: Report by M.K. Lorimer, 1972.

**CAPSULE GEOLOGY** 

Underlying rocks include conglomerate, sandstone, greywacke, argillite, arkose, and interbedded tuffs of the Jurassic to Cretaceous Bowser Lake Group. To the northeast, the sediments are intruded by a stock which forms the core of the Seven Sisters Mountain. This intrusion resulted in the folding and faulting of the

Mountain. This intrusion resulted in the folding and faulting of the strata and the emplacement of quartz veins and mineralized zones.

A replacement zone, striking 170 degrees and dipping 65 degrees west, consists of pyrite, pyrrhotite, galena, sphalerite, chalcopyrite and arsenopyrite. The zone averages 2.4 metres wide and is traced for 120 metres. A 60 centimetre sample assayed 0.17 grams per tonne gold, 305 grams per tonne silver, 0.52 per cent copper, 6.70 per cent lead and 24.1 per cent zinc (Property File: Lorimer, 1972). A parallel zone, to the west, is up to 10.6 metres wide and a 4 metre

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

sample assayed 58.3 grams per tonne silver, 0.55 per cent copper, 1.00 per cent lead, 23.30 per cent zinc and 0.17 grams per tonne gold (Property File: Lorimer, 1972). Smaller zones occur to the north over 600 metres.

A 22.1 kilogram sample, shipped for assaying, returned trace gold, 720 grams per tonne silver, 0.3 per cent copper, 14.7 per cent lead, 11.7 per cent zinc and 0.15 per cent antimony (Minister of Mines Annual Report 1940).

In 1969, a shipment of 13.6 tonnes graded 1717 grams per tonne silver, 3.4 grams per tonne gold and 9.55 per cent copper (George Cross Newsletter #184, 1984).

### **BIBLIOGRAPHY**

EMPR AR 1929-153,154; 1930-137; 1940-43; 1968-109 EMPR ASS RPT \*466, 2016, 3541, 4276, 9147 EMPR GEM 1969-83,84; 1972-502; 1973-487 EMPR MAP 69-1; 8 EMPR PF (\*Rpts by M.K. Lorimer, 1969, 1972)
EMR MP CORPFILE (Mega Mineral Limited; Magnetron Mining Ltd; Acquest Enterprises Ltd.)
GSC MAP 1136A; 11-1956; 278A; 1385A GSC MEM \*329, pp. 96,97 GSC P \*36-20, p. 51; 36-17 GCNL #166,#184, 1984

DATE CODED: 1986/10/21 DATE REVISED: 1989/08/10

CODED BY: LDJ REVISED BY: LLD

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 056 NATIONAL MINERAL INVENTORY: 103I16 Mo1

NAME(S): SEVEN SISTERS PEAKS, NORTH CENTRAL CIRQUE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I16E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6094121 EASTING: 550723 LATITUDE: 54 59 29 N

LONGITUDE: 128 12 26 W ELEVATION: 1540 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized sample #22281, Figure 4A (Assessment Report 8467).

COMMODITIES: Molybdenum Copper 7inc Tungsten I ead

Silver Gold

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrite Chalcopyrite Galena Sphalerite

Pyrrhotite Scheelite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L05 Porph 105 Porphyry Mo (Low F- type) Polymetallic veins Ag-Pb-Zn±Au

L07 Porphyry W

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

Jurassic-Cretaceous Bowser Lake Tertiary Seven Sisters Stock

LITHOLOGY: Siltstone

Granodiorite Greenstone Rhyolite Conglomerate Greywacke Granite Diorite

Quartz Feldspar Porphyry

Bowser Lake Group sediments are intruded by Early Tertiary age Seven HOSTROCK COMMENTS:

Sisters stock.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1980 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 49.7100 Grams per tonne Gold 0.1710 Grams per tonne Copper 0.3800 Per cent Molybdenum 0.0100 Per cent 0.4400 Per cent Lead Zinc 3.1000 Per cent

COMMENTS: There is also 0.02 per cent tungsten in the sample.

REFERENCE: Assessment Report 8467.

CAPSULE GEOLOGY

Upper Jurassic to Lower Cretaceous Bowser Lake Group sediments are intruded by the Early Tertiary age Seven Sisters stock which forms the core of the Seven Sisters Peaks. The sediments are mainly siltstone and greywacke with minor conglomerate, greenstone and rhyo-Near the stock, they are sharply crenulated and deformed. stock is largely granodiorite with lesser granite and diorite. Quartz feldspar porphyry is gradational with the intrusive and forms dykes cutting the sediments. Aplitic dykes extend from the intrusive

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MINFILE MASTER REPORT

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

into the sediments.

Mineralization in the north central cirque area consists of widely spaced fractures with quartz, molybdenite, and minor chalcopyrite and scheelite in granodiorite. A talus sample with rusty pyrrhotite taken from below a gossan zone assayed 0.171 grams per tonne gold, 49.71 grams per tonne silver, 0.38 per cent copper, 0.44 per cent lead, 3.1 per cent zinc, 0.01 per cent molybdenum (MoS2) and 0.02 per cent tungsten. A one kilometre long, north-northeast trending geochemical high returned assays up to 0.08 per cent copper, 1.12 per cent lead, 0.13 per cent zinc, 0.32 per cent molybdenum, 37 grams per tonne silver and 0.03 per cent tungsten. Talus samples carrying massive pyrrhotite with chalcopyrite and scheelite occur 1.5 kilometres to the east and returned values of 1.22 per cent copper, 0.010 per cent Mo, 0.57 per cent tungsten and 16.1 grams per tonne silver (Assessment Report 8467).

#### **BIBLIOGRAPHY**

EMPR AR 1960-13 EMPR ASS RPT \*8467, 9147 EMPR EXPL 1979-256; 1980-400,401 EMPR MAP 69-1; 8 EMPR OF 1991-17 EMR MP CORPFILE (Mega Minerals Ltd.) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/10/23 DATE REVISED: 1989/08/10 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103I 056

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 057 NATIONAL MINERAL INVENTORY: 10319 Ag5

NAME(S): BRADLE BANE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 40 49 N

LONGITUDE: 128 18 16 W ELEVATION: 870 Metres LOCATION ACCURACY: Within 500M COMMENTS: Description.

> COMMODITIES: Silver Molybdenum Lead

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Galena Molybdenite Sphalerite

**DEPOSIT** 

CHARACTER: Stockwork
CLASSIFICATION: Hydrothermal Vein

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au L05 Porphyry Mo (Low F- type)

SHAPE: Irregular MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Jurassic Hazelton

LITHOLOGY: Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1937

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 15.8000 Grams per tonne Molybdenum 0.1100 Per cent Per cent Lead 0.7200

COMMENTS: This is a typical dump sample. REFERENCE: Geological Survey of Canada Memoir 212.

**CAPSULE GEOLOGY** 

The area is underlain by east striking, 50 degree south dipping tuffs of the Jurassic Hazelton Group. A 5 metre wide brecciated and altered zone, between two intersecting faults, is mineralized along minute fractures with pyrite and minor galena and molybdenite. A typical dump sample assayed 15.8 grams per tonne silver, 0.72 per cent lead and 0.11 per cent molybdenite (Geological Survey of Canada Memoir 212). About 50 metres to the north, sheared and altered tuff

contains minor pyrite, galena and sphalerite.

**BIBLIOGRAPHY** 

EMPR BULL 9, p. 93 EMPR MAP 69-1; 8 GSC MAP 1136A; 11-1956; 278A; 1385A

GSC MEM \*212, p. 36; 329

DATE CODED: 1986/12/10 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 057

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NORTHING: 6059436 EASTING: 544846

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 058 NATIONAL MINERAL INVENTORY: 103I9 Cu23

NAME(S): SHENANDOAH, RAINBOW

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP:

LATITUDE: 54 39 24 N LONGITUDE: 128 14 06 W ELEVATION: 1600 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Description.

COMMODITIES: Copper Silver Lead 7inc Gold

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena Chalcopyrite

ALTERATION: Malachite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Replacement TYPE: L01 Subvo

**Epigenetic** Subvolcanic Cu-Ag-Au (As-Sb) 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

MODIFIER: Sheared DIMENSION: STRIKE/DIP: 100/55N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION GROUP** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite Basalt

Porphyritic Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1937 Assay/analysis

SAMPLE TYPE: Chip COMMODITY **GRADE** 

Silver 90.0000 Grams per tonne Gold 0.7000 Grams per tonne 2.9400 Per cent Copper

COMMENTS: This is a typical assay from a 1.0 metre wide vein.

REFERENCE: Geological Survey of Canada Memoir 212.

**CAPSULE GEOLOGY** 

The area is underlain by a thick assemblage of andesites and basalts of the Jurassic Hazelton Group. The flows, which strike southeast and dip 50 to 60 degrees south, are intruded by small stocks and tongues of porphyritic granodiorite.

A vein, containing chalcocite, sphalerite, galena and bornite, occurs along the contact of two andesite flows. The vein is about 15 metros long and averages 0.5 metros wide.

occurs along the contact of two andesite flows. The vein is about 15 metres long and averages 0.5 metres wide. A 0.5 metre sample assayed trace gold, 480 grams per tonne silver, 6 per cent copper, 2 per cent lead and 8 per cent zinc (Minister of Mines Annual Report 1928).

About 300 metres to the east a quartz vein in a shear zone trends 100 degrees for about 300 metres and dips 55 degrees north. The vein averages 1 metre wide and a typical sample assayed 0.7 grams per toppe gilver and 204 per cent copper?

per tonne gold, 90 grams per tonne silver and 2.94 per cent copper

(Geological Survey of Canada Memoir 212).

BIBLIOGRAPHY

EMPR AR 1914-136,137, Map p. 120; 1927-126; \*1928-147; 1929-150

EMPR MAP 69-1; 8

EMPR PF (Map by J. Willman, 1929) GSC MAP 1136A; 11-1956; 278A; 1385A PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6056855 EASTING: 549352

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM \*212, pp. 28,29; 329, p. 94 GSC P 36-20, p. 38; 36-17

DATE CODED: 1986/11/21 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 058

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 059

NAME(S): UNITED ST. CROIX, ST. CROIX

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l09E BC MAP:

LATITUDE: 54 39 09 N

LONGITUDE: 128 11 36 W ELEVATION: 1530 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description and Figure 10 (Geological Survey of Canada Memoir 212).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Bornite** Chalcocite Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Vein

CLASSIFICATION: Replacement Epigenetic Hydrothermal

TYPE: L01 S SHAPE: Irregular Subvolcanic Cu-Ag-Au (As-Sb)

MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 170/35E TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Jurassic Undefined Formation

LITHOLOGY: Andesite Volcanic Breccia Granodiorite Quartz Albite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YEAR: 1937 Assay/analysis

COMMODITY **GRADE** 

Grams per tonne Silver 6.9000

Copper 5.9600 Per cent

REFERENCE: Geological Survey of Canada Memoir 212.

**CAPSULE GEOLOGY** 

Andesitic flows of the Jurassic Hazelton Group are cut by

numerous granodiorite and quartz-albite dykes.

A 3.6 metre wide volcanic breccia zone in andesite contains a 3.6 metre wide voicante breedia zone in andesite contains quartz veinlets and is mineralized with chalcopyrite. The zone, which is intermittently exposed for 100 metres, strikes 135 degrees and dips 40 degrees north. A representative sample of a similar parallel zone, 15 metres to the northwest, assayed 6.9 grams per tonne silver and 5.96 per cent copper (Geological Survey of Canada

Memoir 212).

About 150 metres to the east, a 0.5 metre wide quartz vein containing chalcopyrite strikes 170 degrees and dips 35 to 50 degrees east. It is intermittently exposed for 230 metres and is offset by a northeast trending quartz albite dyke. A 35 centimetre channel sample assayed 10.3 grams per tonne silver and 3.12 per cent copper (Geological Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR AR 1914-136 , Map p. 120

EMPR MAP 69-1; 8

GSC MAP 1136A; 11-1956; 278A; 1385A GSC MEM \*212, pp. 24-26; 329, p. 94

> MINFILE NUMBER: 1031 059

PAGE:

NATIONAL MINERAL INVENTORY: 103I9 Cu24

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6056422 EASTING: 552046

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 36-17

DATE CODED: 1986/11/21 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 059

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 060 NATIONAL MINERAL INVENTORY: 10319 Ag7

NAME(S): **ZONA MAY**, TOM, WHITE BEAR

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP:

LATITUDE: 54 38 49 N NORTHING: 6055827 LONGITUDE: 128 09 46 W EASTING: 554024

ELEVATION: 1220 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized vein, Figure 4 (Assessment Report 10125).

COMMODITIES: Silver 7inc Gold I ead Copper

Tungsten

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Chalcopyrite Tetrahedrite Scheelite Bornite

ASSOCIATED: Quartz
ALTERATION: Quartz
ALTERATION TYPE: Quartz-Carb. Carbonate Sericite Serpentine

Sericitic Serpentin'zn MINERALIZATION AGE: Unknown

DEPOSIT CHARACTER: Vein Disseminated

CLASSIFICATION: Epigenetic Hydrothermal TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb) Hydrothermal

IN2 Intrusion-related Au pyrrhotite veins SHAPE: Irregular

DIMENSION: 0700 x 0003 x 0200 Metres STRIKE/DIP: 120/80S TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Undefined Formation Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Diorite

Quartz Monzonite

Felsite

Quartz Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: LENS REPORT ON: N

> YFAR: 1981 Assay/analysis

CATEGORY: Assa SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver 3977.0000 Grams per tonne

Gold 3.7700 Grams per tonne 0.9000 Copper Per cent Lead 1.1000 Per cent 7inc 0.9700 Per cent

COMMENTS: The sample is from a sulphide-rich lens, 8.0 metres long and 5

to 20 centimetres wide. REFERENCE: Assessment Report 10125.

**CAPSULE GEOLOGY** 

Andesite and rhyolite of the Jurassic age Hazelton Group are intruded by diorite and quartz diorite of the Coast Plutonic Complex. These rocks are intruded by dykes and irregular bodies of quartz

monzonite, felsite and quartz feldspar porphyry.

A 700 metre long discontinuous quartz vein occurs along the northern contact of a 3 to 15 metre wide felsite dyke, which cuts across the contact between the diorite and volcanics. The vein strikes 110 degrees to 132 degrees and dips 70 to 90 degrees south. It is 0.2 to 3 metres wide and contains disseminations, streaks and lenses of galena, pyrite, chalcopyrite, sphalerite and tetrahedrite. A 15 metre wide alteration envelope, containing quartz, sericite, carbonate and serpentinite, occurs along the margin of the quartz Locally the quartz contains scheelite.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

A sample of a sulphide-rich lens, 8 metres long and 5 to 20 centimetres wide, assayed 3977 grams per tonne silver, 3.77 grams per tonne gold, 1.1 per cent lead, 0.97 per cent zinc and 0.9 per cent copper (Assessment Report 10125). A gold rich zone, with up to 24 grams per tonne gold, occurs over a distance of 50 metres and a width of 0.4 to 0.7 metres.

#### **BIBLIOGRAPHY**

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EMPR OF 1991-17
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GSC P 36-20, pp. 32,33; 36-17
GSC SUM RPT 1925A, p. 112
N MINER Jun.25, 1942, p. 26

DATE CODED: 1986/11/13 DATE REVISED: 1989/07/23 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103I 060

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 061 NATIONAL MINERAL INVENTORY: 103I9 Cu10

NAME(S): FRISCO, LEGATE CREEK

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Omineca

NTS MAP: 103I09E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 40 04 N LONGITUDE: 128 05 36 W ELEVATION: 1430 Metres NORTHING: 6058201 EASTING: 558476

LOCATION ACCURACY: Within 500M

COMMENTS: Description; property is located along the south side of Frisco Creek.

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Bornite** Chalcocite Tetrahedrite

ALTERATION: Malachite Azurite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su Disseminated Hvdrothermal

Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 090/30S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite Quartz Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

GRADE

TERRANE: Stikine

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: YEAR: 1928 Assav/analysis

SAMPLE TYPE: Grab

COMMODITY Silver Grams per tonne 398.0000

Copper 11.6200 Per cent

COMMENTS: Grab sample of sorted ore. REFERENCE: Geological Survey of Canada Memoir 212, page 23.

**CAPSULE GEOLOGY** 

Andesites of the Jurassic Hazelton Group are intruded by quartz porphyry sills up to 30 metres wide. Disseminations and stringers of chalcopyrite and bornite occur above the sills over a 30 metre distance. A 12 metre wide mineralized zone strikes east and dips 30 degrees south. A grab sample from sorted ore assayed 11.62 per cent copper and 398 grams per tonne silver (Geological Survey of Canada

Memoir 212).

About 300 metres to the east, a quartz vein, 15 to 60 centimetres wide, is exposed for 30 metres along the hangingwall side of another quartz porphyry sill intruding the andesite. The vein is sparsely mineralized with chalcocite and tetrahedrite. A 10 centimetre sample across the vein assayed 2489 grams per tonne silver, 5.2 per cent copper and 0.69 grams per tonne gold (Minister of Mines Annual Report 1928).

In  $1\bar{9}17$ , 9 tonnes of ore was shipped from this property. From this ore, 15,552 grams of silver and 2903 kilograms of copper were recovered.

**BIBLIOGRAPHY** 

EMPR AR 1916-90,101; 1917-447; 1920-84; 1923-105; 1925-130; \*1928-149

EMPR MAP 69-1; 8

EMR MP CORPFILE (Glen Copper Mines Limited)

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*212, p. 23; 329, p. 94 GSC P 36-20, pp. 32,33; 36-17 GSC SUM RPT \*1925A , p. 111

DATE CODED: 1986/11/20 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 061

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 062

NATIONAL MINERAL INVENTORY: 103I9 Cu9

PAGE:

UTM ZONE: 09 (NAD 83)

Legate Creek Apophysis

REPORT: RGEN0100

581

NAME(S): M & K, HUB, PRICE, LEGATE CREEK

STATUS: Past Producer Open Pit MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103109E

BC MAP: NORTHING: 6057116 EASTING: 558310 LATITUDE:

LONGITUDE: 128 05 46 W ELEVATION: 1430 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adits; upper showing, Figure 2 (Geological Survey of Canada Memoir

212).

COMMODITIES: Copper 7inc Silver Lead Gold

**MINERALS** 

SIGNIFICANT: Bornite Specularite Galena Chalcopyrite Tetrahedrite Sphalerite

Pyrite ASSOCIATED: Quartz

ALTERATION: Malachite Azurite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Unknown Disseminated Massive

TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 030/30S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation Jurassic

Cretaceous-Tertiary

LITHOLOGY: Andesite Flow

Volcanic Breccia

Ťuff Diorite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1928 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY 597.0000 Silver Grams per tonne Gold 0.7000 Grams per tonne Lead 0.2000 Per cent

Zinc 0.6000 Per cent

COMMENTS: 38 centimetre sample REFERENCE: Minister of Mines Annual Report 1928, page 149.

**CAPSULE GEOLOGY** 

Andesite flows with interbedded volcanic breccia and tuff of the Jurassic Hazelton Group are intruded by diorite of the Cretaceous to Tertiary Legate Creek apophysis. The volcanics, which strike northeast and dip 30 degrees southeast, contain concordant mineralized zones up to 1.2 metres wide. Mineralization consists of an intergrowth of chalcopyrite, galena, bornite and sphalerite, with minor tetrahedrite, pyrite, specularite, malachite and azurite. A 20 centimetre sample from a sheared zone assayed 2.16 per cent copper, 17.1 grams per tonne silver and 0.7 grams per tonne gold and a typical talus sample assayed 10.98 per cent copper, 26.51 per cent lead, 106.3 grams per tonne silver and trace gold (Geological Survey of Canada Memoir 212).

The "lower" showing, 500 metres south of the above "upper"

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

showing, is a 0.5 metre wide, 30 metre long quartz vein in diorite. The vein, striking north-northeast and dipping 60 degrees west, is mineralized with pyrite, chalcopyrite, tetrahedrite, galena and sphalerite. A 38 centimetre sample assayed 0.7 grams per tonne gold, 597 grams per tonne silver, 0.2 per cent lead and 0.6 per cent zinc (Minister of Mines Annual Report 1928).

Drilling in 1968 intersected 3 metres of 10.3 grams per tonne silver, 11.1 per cent copper and 0.10 per cent lead (National Mineral Inventory 103ICu9)

Mineral Inventory 103ICu9).

From 1917 to 1921, 212 tonnes of ore was shipped from this property. From this ore, 145,033 grams of silver, 42,066 kilograms of copper, and 34,144 kilograms of lead were recovered.

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1966-80; 1967-83; 1968-108
EMPR GEM 1969-83; 1970-193
EMPR MAP 69-1; 8
EMPR PF (Rpt by A.P. Fawley, 1965 in Hub Mining & Exploration
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DATE CODED: 1986/11/21 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103I 062

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Chalcopyrite

Sphalerite

MINFILE NUMBER: 1031 063

NATIONAL MINERAL INVENTORY: 10319 Ag8

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6055871

EASTING: 557609

PAGE:

REPORT: RGEN0100

583

NAME(S): M & M, FM, LEGATE CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l09E BC MAP:

LATITUDE: 54 38 49 N

LONGITUDE: 128 06 26 W ELEVATION: 1370 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Veins, Figure 1 (Geological Survey of Canada Memoir 212).

COMMODITIES: Silver Gold I ead Copper

Tetrahedrite

**MINERALS** 

SIGNIFICANT: Pyrite Galena

Specularite

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Epigenetic TYPE: 105 Pc Hvdrothermal

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

MODIFIER: Faulted DIMENSION: Sheared

STRIKE/DIP: 120/60W TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Legate Creek Apophysis

LITHOLOGY: Diorite

Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1937

SAMPLE TYPE: Channel

COMMODITY Silver GRADE 134.0000 Grams per tonne Gold 0.7000 Grams per tonne Copper 0.3600 Per cent

Lead COMMENTS: The sample width is 76.0 centimetres.

REFERENCE: Geological Survey of Canada Memoir 212, pages 19-21.

**CAPSULE GEOLOGY** 

Albite diorite of the Cretaceous to Tertiary Legate Creek apophysis intrudes Jurassic Hazelton volcanics. Several northwest, 45 to 70 degrees southwest dipping quartz veins occur along shears in the diorite over a distance of 300 metres. The veins are 0.15 to 3 metres wide and contain sparse disseminations of pyrite, galena, tetrahedrite, chalcopyrite, galena and specularite. The upper vein is cut by a northeast trending, 40 degree southeast dipping fault, which also terminates quartz veins to the west. A 76 centimetre channel sample across the upper vein assayed 0.7 grams per tonne gold, 134 grams per tonne silver, 0.36 per cent copper and 0.82 per

0.8200

Per cent

cent lead (Geological Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR AR \*1917-100; 1920-83,84; \*1925-129; 1928-149; 1929-153;

1966-80; 1967-83; 1968-108 EMPR GEM 1969-83; 1970-193

EMPR MAP 69-1; 8

EMPR PF (Rpt by A.P. Fawley, 1965 in Hub Mining & Exploration

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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DATE CODED: 1986/11/21 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 103I 063

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 064

NAME(S): SILVER CROWN, SILVER HORDE, BASIN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l09E BC MAP:

LATITUDE: 54 35 54 N LONGITUDE: 128 07 36 W ELEVATION: 1460 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Vein, Figure P91 (Minister of Mines Annual Report 1924), located between the heads of Chimdemash and North Kleanza Creeks.

COMMODITIES: Silver

Copper

Gold

**MINERALS** 

SIGNIFICANT: Tetrahedrite Chalcopyrite ASSOCIATED: Quartz

Chalcocite

**Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic TYPE: L01 Su Hydrothermal Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

DIMENSION:

STRIKE/DIP: 135/75S

TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

**GROUP** STRATIGRAPHIC AGE

Jurassic Hazelton **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

NATIONAL MINERAL INVENTORY: 103I9 Ag14

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6050446

EASTING: 556422

REPORT: RGEN0100

585

LITHOLOGY: Andesite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane

TERRANE: Stikine

PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: SAMPLE TYPE: Chip

Assay/analysis

YEAR: 1924

COMMODITY

Silver

**GRADE** 1858.0000

Grams per tonne

Gold

0.3000 26,6600 Grams per tonne Per cent

Copper

COMMENTS: The sample width is 15.0 centimetres.

REFERENCE: Minister of Mines Annual Report 1924, pages 88-93.

**CAPSULE GEOLOGY** 

Andesite flows of the Jurassic Hazelton Group are intruded by quartz diorite dykes, probably related to a nearby diorite stock of the Coast Plutonic Complex. The volcanics, which strike southeast

and dip steeply, are cut by quartz veins mineralized with tetrahedrite, chalcopyrite, chalcocite, and pyrite.

One of the veins, striking 135 degrees and dipping 75 degrees southwest is 45 metres long and 7 to 17 centimetres wide. A 17.8 centimetre channel sample assayed 150.2 grams per tonne silver, 0.7 grams per tonne gold and 1.24 per cent copper (Geological Survey of Canada Memoir 212). A parallel vein, 60 metres to the northeast is 6 metres long and 13 centimetres wide. A sample across the vein assayed 1309 grams per tonne silver, 0.7 grams per tonne gold and 7.66 per cent copper (Geological Survey of Canada Memoir 212). A 15 centimetre sample of a vein 750 metres to the northwest, at the pass, assayed 1858 grams per tonne silver, 0.3 grams per tonne gold and 26.66 per cent copper (Minister of Mines Annual Report 1924). 26.66 per cent copper (Minister of Mines Annual Report 1924).

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EMPR AR 1923-102,103; \*1924-88-93; 1925-127; 1926-125

EMPR ASS RPT 15985 EMPR EXPL 1987-C359

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1986/11/10 DATE REVISED: 1989/08/15 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 064

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 065 NATIONAL MINERAL INVENTORY: 10319 Ag13

NAME(S): SILVER BASIN, BASIN, BASIN SILVER

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6051356 EASTING: 554975 LATITUDE: 54 36 24 N LONGITUDE: 128 08 56 W ELEVATION: 1265 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description, Figure P 91 (Minister of Mines Annual Report 1924); below falls along Chimdemash Creek.

COMMODITIES: Silver Copper Gold

**MINERALS** 

SIGNIFICANT: Tetrahedrite Silver Galena Pyrite Chalcopyrite

Chalcocite Bornite ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Disseminated Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au I 01 Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular MODIFIER: Faulted

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton **Undefined Formation** 

LITHOLOGY: Andesite

Dacite Tuff Albite Dike Lamprophyre Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1923

SAMPLE TYPE: Chip <u>GRA</u>DE

COMMODITY Silver 4457.0000 Grams per tonne Gold 10.3000 Grams per tonne 2.4000 Per cent

Copper
COMMENTS: The sample width is 15.0 centimetres. REFERENCE: Minister of Mines Annual Report 1923.

**CAPSULE GEOLOGY** 

Underlying volcanics, which strike 110 degrees and dip 60 degrees south, consist of andesite, dacite and tuffs of the Jurassic Hazelton Group. The rocks are cut by albite and lamprophyre dykes and quartz veins mineralized with tetrahedrite, silver, chalcopyrite, galena, pyrite and bornite. A vein, up to 1 metre wide has been traced intermittently for 1400 metres in an east direction.

The main showing is a quartz vein averaging 30 centimetres wide

and 60 metres long with sparse tetrahedrite, galena, pyrite and native silver. A 15 centimetre sample assayed 4457 grams per tonne silver, 10.3 grams per tonne gold and 2.4 per cent copper (Minister of Mines Annual Report 1923). The vein is offset by minor cross faults.

A 30 centimetre wide, 30 metre long vein containing narrow seams of tetrahedrite and bornite lies 520 metres to the east. A 33 centimetre channel sample assayed 333 grams per tonne silver and 1.0 per cent copper (Geological Survey of Canada Memoir 212).

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR MAP 69-1; 8

EMPR PF (Rpt by Elmendorf, W.J., 1924; Map by J. Willman, Feb. 1929)

EMR MP CORPFILE (Brent Exploration Ltd - Statement of Material EMR MP CORPFILE (Brent Exploration I Facts, Feb. 1973)
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> MINFILE NUMBER: 103I 065

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 066 NATIONAL MINERAL INVENTORY: 103I9 Cu27

NAME(S): BANNER HOMESTAKE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6051143 EASTING: 549953 LATITUDE: 54 36 19 N LONGITUDE: 128 13 36 W ELEVATION: 1300 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description from Minister of Mines Annual Report 1925, page 128.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Bornite** Galena

ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su Hvdrothermal

Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 120/75S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite Tuff

Volcanic Breccia Porphyritic Quartz Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1937 Assay/analysis

SAMPLE TYPE: Chip **GRADE COMMODITY** 

Silver 8.9000 Grams per tonne

Per cent Copper 0.2000

REFERENCE: Geological Survey of Canada Memoir 212, page 17.

CAPSULE GEOLOGY

Andesite and volcanic tuffs and breccias of the Jurassic Hazelton Group are cut by a 1.2 metre wide quartz porphyry dyke.

The altered zone on both sides of the dyke, which strikes 120 degrees and dips 75 degrees southwest, contains quartz veins with minor chalcopyrite, bornite, galena and malachite. The zone extends for about 300 metres along strike and is one metre wide. A typical sample assayed 0.20 per cent copper and 8.9 grams per tonne silver

(Geological Survey of Canada Memoir 212).

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EMPR MAP 69-1; 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*212, p. 17; 329 GSC P 36-20, pp. 31,32; 36-17 GSC SUM RPT 1925A, p. 113

DATE CODED: 1986/11/10 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 067

NAME(S): GALENA

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP:

LATITUDE: 54 38 19 N LONGITUDE: 128 13 06 W ELEVATION: 1220 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description from Geological Survey of Canada Memoir 212, page 26.

COMMODITIES: Copper Silver Gold I ead

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Bornite** Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

TYPE: L01 S SHAPE: Irregular Subvolcanic Cu-Ag-Au (As-Sb) 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 180/45E TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite Flow Basaltic Flow

Quartz Albite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1937 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock **GRADE** COMMODITY

Grams per tonne Grams per tonne Silver 229.0000 Gold 0.7000 6.9800 Per cent Copper I ead 0.9600 Per cent

REFERENCE: Geological Survey of Canada Memoir 212, pages 26,27.

**CAPSULE GEOLOGY** 

Andesite and basalt flows, ranging from 6 to 15 metres thick, belong to the Jurassic Hazelton Group. The flows, which strike from  $\,$ 

east to southeast and dip 50 degrees south, are cut by a quartzalbite dyke which strikes south and dips 45 degrees east.

Galena and chalcopyrite occur in a one metre wide, 10 metre long altered zone along the footwall of the dyke. A 60 centimetre channel sample assayed trace gold, 23.3 grams per tonne silver, and 1.09 per cent lead (Geological Survey of Canada Memoir 212).

At about 75 metres lower in elevation, a 60 centimetre wide quartz vein, striking 110 degrees and dipping 55 degrees north, occurs in the volcanics. A selected sample, containing chalcopyrite, bornite and minor galena, assayed 0.7 grams per tonne gold, 229 grams per tonne silver, 0.96 per cent lead and 6.98 per cent copper (Geological Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR MAP 69-1; 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*212, pp. 26,27; 329, p. 94

DATE CODED: 1986/11/24 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 067

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6054858 EASTING: 550450

NATIONAL MINERAL INVENTORY: 103I9 Cu30

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 068 NATIONAL MINERAL INVENTORY: 103I9 Cu29

NAME(S): SILVER MITTS, MITTS

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 38 24 N NORTHING: 6054999 EASTING: 549193

LONGITUDE: 128 14 16 W ELEVATION: 975 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main showing from descriptions (Lay & Mandy, 1937, Property File).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Bornite Chalcopyrite Cuprite Specularite Pyrite

ASSOCIATED: Quartz Calcite **Biotite** ALTERATION: Malachite ALTERATION TYPE: Silicific'n Silica Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 105/67N TREND/PLUNGE: COMMENTS: Main showing.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite Quartz Albite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1937

SAMPLE TYPE: Channel GRADE

COMMODITY Silver 205.0000 Grams per tonne Gold 0.7000 Grams per tonne

Copper COMMENTS: The sample width is 35 centimetres. 1.1600 Per cent

REFERENCE: Geological Survey of Canada Memoir 212, pages 27,28.

CAPSULE GEOLOGY

Andesites of the Jurassic Hazelton Group are cut by quartzalbite dykes. A silicified zone in red andesite contains quartz veins and fractures mineralized with bornite, chalcopyrite and chalcocite. The zone, which strikes 105 degrees and dips 67 degrees north, is up to 20 metres long and 2 metres wide. A 2 metre sample across the zone assayed 2.9 per cent copper, 48 grams per tonne silver and 0.17 grams per tonne gold (Property File: Lay and Mandy, 1937).

About 500 metres to the northwest, chalcopyrite, pyrite and

minor galena occur in narrow seams along faults and joints in a zone 1.2 metres wide. A selected sample assayed trace gold, 28.8 grams per tonne silver and 2.16 per cent copper (Geological Survey of

Canada Memoir 212). About 300 metres northeast, a silicified shear zone, along the hangingwall side of a 3.7 metre wide quartz-albite dyke, contains a 35 centimetre wide quartz vein with chalcopyrite and bornite. The dyke strikes 170 degrees and dips 45 degrees east. A 35 centimetre channel sample assayed 0.7 grams per tonne gold, 205 grams per tonne silver and 1.16 per cent copper (Geological Survey of Canada Memoir

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

212).

**BIBLIOGRAPHY** 

EMPR AR 1929-150,151; \*1930-135,136; 1937-C32 EMPR AR 1929-130,131, 1930-133,130, 1937-032 EMPR MAP 69-1; 8 EMPR PF (\*Rpt by D. Lay and J.T. Mandy, 1937) GSC MAP 278A; 1136A; 11-1956; 1385A GSC MEM \*212, pp. 27,28; 329, p. 94 GSC P 36-20, pp. 38,39; 36-17

DATE CODED: 1986/11/24 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 068

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 069 NATIONAL MINERAL INVENTORY: 103I9 Cu32

NAME(S): CONTINENTAL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 37 29 N LONGITUDE: 128 19 06 W ELEVATION: 1190 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description.

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Quartz Chalcopyrite **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic

Subvolcanic Cu-Ag-Au (As-Sb)

TYPE: L01 S SHAPE: Irregular

DIMENSION: STRIKE/DIP: 360/30W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1937 CATEGORY: Assay/analysis

SAMPLE TYPE: Channel COMMODITY **GRADE** 

Silver 20.6000 Grams per tonne

Copper 0.1800 Per cent

COMMENTS: The sample width is 40 centimetres. REFERENCE: Geological Survey of Canada Memoir 212, pages 29,30.

**CAPSULE GEOLOGY** 

A quartz vein in andesite of the Jurassic Hazelton Group strikes north and dips 30 degrees west. The vein is about 30 metres long and  $\,$ averages 1 metre wide. Mineralization includes blebs and streaks of chalcopyrite, bornite and pyrite. A 40 centimetre channel sample assayed trace gold,  $20.6\,$  grams per tonne silver and  $0.18\,$  per cent

copper (Geological Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR AR \*1914-134,135; 1920-83; 1924-89

EMPR MAP 69-1; 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*212, pp. 29,30; 329

GSC P 36-17

DATE CODED: 1986/12/09 FIELD CHECK: N CODED BY: I D.I REVISED BY: LLD DATE REVISED: 1989/08/10 FIELD CHECK: N

PAGE:

NORTHING: 6053246 EASTING: 544011

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 070 NATIONAL MINERAL INVENTORY: 10319 Ag15

NAME(S): SINGLEHURST, PTARMIGAN (L.154)

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W UTM ZONE: 09 (NAD 83) BC MAP:

NORTHING: 6051086 EASTING: 544391 LATITUDE: 54 36 19 N LONGITUDE: 128 18 46 W ELEVATION: 1400 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Vein, Figure 4 (Geological Survey of Canada Memoir 212).

COMMODITIES: Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Argentite ASSOCIATED: Quartz Chalcopyrite **Bornite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Hydrothermal

Subvolcanic Cu-Ag-Au (As-Sb) 105 Polymetallic veins Ag-Pb-Zn±Au

TYPE: L01 S SHAPE: Irregular MODIFIER: Faulted

STRIKE/DIP: 020/75E TREND/PLUNGE: DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Undefined Formation

LITHOLOGY: Andesite

Chert Dioritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1937 Assav/analysis

SAMPLE TYPE: Grab GRADE

COMMODITY Silver 4210.0000 Grams per tonne Gold 0.7000 Grams per tonne

REFERENCE: Geological Survey of Canada Memoir 212, pages 30-32.

**CAPSULE GEOLOGY** 

Andesitic flows and interbedded chert of the Jurassic Hazelton Group are cut by a north trending diorite dyke and a north-northeast trending fault. A quartz vein, about 100 metres long and 20 centimetres wide, follows the fault which strikes 020 degrees and dips 75 degrees east. The vein contains veinlets of argentite and minor chalcopyrite. A 0.9 kilogram sample of selected ore assayed 4210 grams per tonne silver and 0.7 grams per tonne gold and a representative grample from an old are him argued 1222 grams as a contained of the property of the contained of th tive sample from an old ore bin assayed 1222 grams per tonne silver, 0.7 grams per tonne gold and 0.20 per cent copper (Geological Survey

of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR AR 1899-655; 1900-786; 1901-990,992,(photo),997-998; 1902-46;

1914-131,132

EMPR MAP 69-1; 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*212, pp. 30-32; \*329, p. 83

GSC P 36-17

DATE CODED: 1986/12/10 DATE REVISED: 1989/08/08 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 071

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

595

NAME(S): MADDEN, MABLE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6056177 EASTING: 543445 LATITUDE: 54 39 04 N LONGITUDE: 128 19 36 W ELEVATION: 260 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcocite ASSOCIATED: Quartz Specularite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

SIT
CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Sul
SHAPE: Irregular Hydrothermal Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> Assay/analysis CATEGORY: YEAR: 1937

SAMPLE TYPE: Channel **GRADE** COMMODITY

Grams per tonne 5.1000 Silver COMMENTS: The sample is 40.0 centimetres wide and also contains trace gold.

REFERENCE: Geological Survey of Canada Memoir 212, page 35.

**CAPSULE GEOLOGY** 

A quartz vein, sparsely mineralized with chalcocite and specularite, occurs in andesite of the Jurassic Hazelton Group. The vein trends southeast for about 25 metres and is 0.5 metres wide. A 40 centimetre channel sample assayed trace gold and 5.1 grams per tonne

silver (Geological Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR AR 1914-Map p. 120; p. 135 EMPR MAP 69-1; 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 212, p. 35; 329

GSC P 36-17

DATE CODED: 1986/12/09 DATE REVISED: 1989/08/08 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 072

NAME(S): TOULON (L.2268)

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 39 04 N

LONGITUDE: 128 20 21 W ELEVATION: 370 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adits, Figure 5 (Geological Survey of Canada Memoir 212) on Lot 2268,

located on the north side of Bornite Mountain.

COMMODITIES: Copper Gold Silver Antimony

**MINERALS** 

SIGNIFICANT: Bornite Chalcocite Chalcopyrite Specularite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic TYPE: L01 Su

Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

MODIFIER: Faulted DIMENSION: STRIKE/DIP: 050/40N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

Greenstone Dioritic Dike Quartz Albite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YFAR: 1937 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver **GRADE** 74.0000

Grams per tonne Gold 0.7000 Grams per tonne 1.3200 Per cent

Copper

COMMENTS: The sample width is 79 centimetres. REFERENCE: Geological Survey of Canada Memoir 212, pages 33-35.

CAPSULE GEOLOGY

Andesites of the Jurassic Hazelton Group are intruded by diorite and quartz-albite dykes and cut by several faults. A quartz vein, striking 050 degrees and dipping 40 degrees north, contains blebs and streaks of chalcocite, bornite, and chalcopyrite. The vein is ab 30 metres long and averages 1 metre wide. A 79 centimetre sample The vein is about assayed 0.7 grams per tonne gold, 74 grams per tonne silver and 1.32 per cent copper (Geological Survey of Canada Memoir 212).

About 800 metres to the east, the andesite on the west side of a

quartz-albite dyke is sparsely mineralized with chalcocite and chalcopyrite over a 30 metre width. A 2 metre sample assayed 0.34 grams per tonne gold, 75.4 grams per tonne silver and 1.6 per cent copper

(Property File: J. Willman, 1929).

Two test samples, totalling 70.8 kilograms produced 0.5 grams gold, 7.1 grams silver, 2.3 kilograms copper and 0.14 kilograms antimony (Minister of Mines Annual Report 1940).

**BIBLIOGRAPHY** 

EMPR AR 1899-656; 1900-787; 1901-999; 1902-46; 1903-52; 1908-65; 1909-84; 1911-288; \*1914-133,134; 1924-89; \*1929-149,150;

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6056169 EASTING: 542638

NATIONAL MINERAL INVENTORY: 103I9 Cu2

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

1930-136; 1937-C32; 1940-45; 1965-70; 1967-82 EMPR MAP 69-1; 8

EMPR MAP 69-1; 8

EMPR PF (Rpt by \*D. Lay, 1937; Sketch Map by J. Willman, 1929)

EMR MP CORPFILE (Northlode Exploration Ltd.; Copper River Exploration Company, Limited)

GSC MAP 278A; 11-1956; 1136A; 1385A

GSC MEM \*212, pp. 33-35; 329, p. 82

GSC P 36-20, p. 39; 36-17

DATE CODED: 1986/12/09 DATE REVISED: 1989/08/08 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 072

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 073

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6051302 EASTING: 533623

REPORT: RGEN0100

598

NAME(S): GOLD STAR - 4A CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 36 29 N LONGITUDE: 128 28 46 W ELEVATION: 600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Figures 2, 5 (Assessment Report 2365).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ALTERATION: Limonite **Pyrite** Pyrrhotite **Bornite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Epigenetic

Subvolcanic Cu-Ag-Au (As-Sb)

TYPE: L01 S SHAPE: Irregular MODIFIER: Faulted

STRIKE/DIP: 070/30N DIMENSION: TREND/PLUNGE: COMMENTS: Mineralized gabbro.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

**FORMATION GROUP** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Porphyritic Gabbro

Andesite Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/ar SAMPLE TYPE: Channel YFAR: 1969 Assav/analysis

GRADE 13.7000

COMMODITY Silver Grams per tonne Copper 0.2800 Per cent

COMMENTS: The sample width is 6.9 metres. REFERENCE: Assessment Report 2365.

**CAPSULE GEOLOGY** 

Andesite and basalt of the probable Jurassic age Hazelton Group, are intruded by a porphyritic gabbro sill of the Cretaceous to Tertiary Coast Plutonic Complex. The sill strikes 070 degrees for about 50 metres, dips 30 degrees northwest and is about 17 metres

wide. All rocks are cut by northeast trending faults.

Chalcopyrite, pyrrhotite, and pyrite occur as disseminations and blebs within the intrusive. A 6.9 metre channel sample assayed 0.28 per cent copper, 13.7 grams per tonne silver and trace nickel (Assessment Report 2365).

On #4 Creek, 400 metres northwest of the above 4A Creek zone, bornite and chalcopyrite occur as discominations.

bornite and chalcopyrite occur as disseminations, associated with mafic minerals in a porphyritic gabbro. A  $4.6~{\rm metre~chip~sample}$ assayed 0.33 per cent copper and 1.7 grams per tonne silver (Assess-

ment Report 2365).

BIBLIOGRAPHY

EMPR ASS RPT 999, 1090, \*2365, 2719

EMPR GEM \*1969-76,77

EMPR MAP 8; 69-1

EMPR PF (Rpt by G.P. White, 1969)

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/12/15 DATE REVISED: 1989/08/08 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

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MINFILE NUMBER: 1031 073

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 074 NATIONAL MINERAL INVENTORY: 103I9 Cu34

NAME(S): **EMMA (L.71)**, I.X.L. (L.72), HAZEL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6054589 EASTING: 538798 LATITUDE: 54 38 14 N

LONGITUDE: 128 23 56 W ELEVATION: 140 Metres LOCATION ACCURACY: Within 500M COMMENTS: Adit, Emma (Lot 71).

> COMMODITIES: Copper Silver Tungsten Gold

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Quartz Chalcopyrite Scheelite

ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Hvdrothermal

TYPE: LÖ1 Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular MODIFIER: Faulted Sheared

STRIKE/DIP: 105/40N DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

PAGE:

REPORT: RGEN0100

600

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1937

SAMPLE TYPE: Channel GRADE

COMMODITY Silver 86,4000 Grams per tonne Gold 0.7000 Grams per tonne Per cent

Copper COMMENTS: The sample width is 71.0 centimetres. 1.2100

REFERENCE: Geological Survey of Canada Memoir 205, pages 44,45.

CAPSULE GEOLOGY

Quartz veins mineralized with bornite, chalcopyrite and malachite occur in andesitic rocks of the Jurassic Hazelton Group. The Emma vein, at about 140 metres elevation, strikes 105 degrees and dips 25 to 40 degrees north. It is up to 60 metres long and varies from 0.3 to 2 metres wide. Several faults offset the vein. A 40 centimetre channel sample taken across the vein assayed 5.5 grams per tonne gold and 25 grams per tonne silver (Geological Survey of Canada Marsin 201) Memoir 205).

The I.X.L. vein, about 300 metres to the east, strikes 120 degrees and dips 65 degrees south. It is exposed for about 30 metres and is up to 2.1 metres wide. A 71 centimetre channel sample taken across the best mineralized section assayed 0.7 grams per tonne gold, 86.4 grams per tonne siver and 1.21 per cent copper (Geological Survey of Canada Memoir 205).

Scheelite has been reported from the Emma workings.

BIBLIOGRAPHY

EMPR AR 1898-1153,1198; 1899-656; 1901-998; 1908-65; 1914-132,133; 1918-109,110; 1920-83,349; 1924-89; \*1927-125; 1928-143,144;

\*1929-149

EMPR BULL 10(Rev), pp. 58,59

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR MAP 69-1; 8

EMPR OF 1991-17

EMPR PF (Sketch Map by F. Nash)

GSC EC GEOL No. 17, pp. 44,45

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM \*205, pp. 44,45; 329

GSC P 36-17, pp. 79,80; 36-20, p. 39

GSC SUM RPT 1925A, pp. 116,117

Omineca Herald, October 8, 1920 (Hazel Group)

DATE CODED: 1986/12/09 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 074

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 075 NATIONAL MINERAL INVENTORY: 103I9 Ag16

NAME(S): **BORNITE KING** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 37 29 N LONGITUDE: 128 20 36 W ELEVATION: 1370 Metres NORTHING: 6053230 EASTING: 542397

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Bornite** Chalcocite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

SIT
CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su
SHAPE: Irregular

Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> Assay/analysis CATEGORY: YEAR: 1919

SAMPLE TYPE: Chip COMMODITY GRADE

Silver 2359.0000 Grams per tonne Gold 1.7000 Grams ber tonne Copper 34.4000 Per cent

COMMENTS: The sample width is 12 centimetres. REFERENCE: Minister of Mines Annual Report 1919, page 99.

**CAPSULE GEOLOGY** 

Andesitic flows of the Jurassic Hazelton Group are intruded by quartz-albite dykes and granodiorite tongues. Small quartz veins, associated with the intrusives, contain chalcopyrite, bornite, chalcocite and galena. A selected sample of one 12 centimetre wide vein assayed 1.7 grams per tonne gold, 2359 grams per tonne silver and 34.4 per cent copper and a 30 centimetre sample of another assayed trace gold, 363 grams per tonne silver and 1 per cent copper (Minister of Mines Annual Report 1919).

**BIBLIOGRAPHY** 

EMPR AR \*1919-99; 1931-70,71

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*212, pp. 32,33; 329, p.82 GSC P 36-20, p. 39; 36-17

DATE CODED: 1986/12/10 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 075

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REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 076 NATIONAL MINERAL INVENTORY: 103I9 Cu33

NAME(S): FOUR ACES (L.166), GOLCONDA (L.167), HICKEY

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 37 49 N

LONGITUDE: 128 22 16 W ELEVATION: 600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Golconda showing, Map 4 (Assessment Report 15144).

COMMODITIES: Copper Silver 7inc Gold Lead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz **Bornite** Chalcopyrite Galena Sphalerite

ALTERATION: Malachite

I imonite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Disseminated

Hvdrothermal

TYPE: LÖ1 105 Subvolcanic Cu-Ag-Au (As-Sb) Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton **Undefined Formation** 

> LITHOLOGY: Andesite Aplite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1969 Assav/analysis

SAMPLE TYPE: Grab

GRADE COMMODITY Silver 96.0000 Grams per tonne 0.3400 Gold Grams per tonne 1.2700 0.2500 Per cent Copper

Per cent I ead 7inc 1.2100 Per cent

COMMENTS: The sample was collected from a sheared aplite dyke. REFERENCE: Geology, Exploration and Mining in British Columbia 1969, page 81.

CAPSULE GEOLOGY

The area is underlain by andesites of the Jurassic Hazelton Group, which are cut by aplite dykes. The Golconda showing, at 600 metres elevation, is a 150 metre long, east trending shear zone containing bornite, chalcopyrite, malachite and limonite. The zone is at least 8 metres wide and chip samples taken across this width assayed 4.16 per cent copper and 86.1 grams per tonne silver (Property File: Phendler, 1968). Drilling intersected 14 metres of 3.30 per cent copper (Property File: Phendler, 1968).

To the northwest, at 460 metres elevation, a sheared aplite

dykes in andesite contains disseminated chalcopyrite, galena, sphalerite and pyrite. A grab sample assayed 0.34 grams per tonne gold, 96 grams per tonne silver, 1.27 per cent copper, 0.25 per cent lead and 1.21 per cent zinc (Geology, Exploration and Mining in British Columbia, 1969).

On the Four Aces claim, 450 metres northwest of the Golconda showing, quartz veins are mineralized with pyrtie, chalcopyrite and minor bornite, galena and sphalerite. A grab sample assayed 0.05 per cent copper, 38.4 grams per tonne silver, and 0.2 grams per tonne gold (Assessment Report 15144). A sample of a shear zone, 650 metres

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UTM ZONE: 09 (NAD 83)

NORTHING: 6053832 EASTING: 540598

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

northeast of the Golconda showing, assayed 1.7 per cent copper, 22.0 grams per tonne silver and 0.2 grams per tonne gold (Assessment Report 15144).

#### **BIBLIOGRAPHY**

EMPR AR 1899-656; 1900-786; 1901-991; 1902-46,308; 1914-133; 1927-125,126; 1928-143,144; \*1929-149; 1939-69; 1967-82; 1968-108 EMPR ASS RPT 2175, 2176, \*15144 EMPR EXPL 1986-C428 EMPR GEM \*1969-81 EMPR MAP 8; 69-1 EMPR MAP 8, 69-1 EMPR PF (\*Rpt by R.W. Phendler, 1968) GSC MAP 278A; 11-1956; 1136A; 1385A GSC MEM \*205, pp. 45,46; 329, p. 82 GSC P 36-17, pp. 81,82; 36-20, p. 39 GSC SUM RPT 1925A, pp. 116,117

DATE CODED: 1986/12/09 DATE REVISED: 1989/08/08 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1031 076

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RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 077 NATIONAL MINERAL INVENTORY: 10319 Au3

NAME(S): <u>COLUMARIO</u>, VALHALLA, KLEANZA, <u>TENDERFOOT</u>

STATUS: Past Producer Underground MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103109W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 34 39 N LONGITUDE: 128 23 06 W NORTHING: 6047952 EASTING: 539753

ELEVATION: 600 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of quartz veins, Figure 9 (Geological Survey of Canada Memoir

205).

COMMODITIES: Gold Copper Silver Lead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Arsenopyrite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I02 Int Hydrothermal

Intrusion-related Au pyrrhotite veins

SHAPE: Irregular MODIFIER: Sheared

STRIKE/DIP: 155/40E TREND/PLUNGE: DIMENSION:

COMMENTS: Area of several large quartz veins.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Hazelton

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite

Granodiorite Diorite

Quartz Albite Dike Dioritic Dike Lamprophyre Dike

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1964

SAMPLE TYPE: Bulk Sample **GRADE** 

COMMODITY Silver 120.3000 Grams per tonne Gold 49.4000 Grams per tonne Copper 0.4200 Per cent Lead 0.0200 Per cent

COMMENTS: The assays were obtained from a 90 kilogram test sample. REFERENCE: Geological Survey of Canada Memoir 329, pages 81,82

**CAPSULE GEOLOGY** 

The Columario mine is located 11 kilometres east of Terrace. Andesites of the Jurassic Hazelton Group are intruded by diorite and granodiorite stocks of the Cretaceous to Tertiary Coast Plutonic These rocks are cut by quartz albite, diorite and lampro-Complex. phyre dykes.

Seven fracture related, parallel quartz veins, mineralized with pyrite, arsenopyrite and minor chalcopyrite and galena, occur mainly in the andesite over an area 1300 by 500 metres. The veins strike 155 degrees and dip 30 to 60 degrees northeast. They average one metre in width and are up to 700 metres long. Gold is associated with the pyrite and a 90 kilogram test sample assayed 49.4 grams per tonne gold, 120.3 grams per tonne silver, 0.42 per cent copper and 0.02 per cent lead (Geological Survey of Canada Memoir 329).

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The veins were discovered in 1919, and by 1934 Columario Consolidated Gold Mines, Ltd. explored the seven vein systems with 11 adits and about 2,400 metres of underground development. In 1934, a 91 tonne per day mill was constructed. Actual tonnage mined is not known, but production of precious metals recorded in 1934 and 1935 was 21,150 grams of gold and 58,101 grams of silver.

A limited geochemical survey in 1984 and underground sampling in 1987 were conducted. Rinsey Mines Ltd. signed an option agreement from Renoble Holdings Inc. in 1990.

#### **BIBLIOGRAPHY**

```
EMPR AR 1920-81-83; 1921-95,96; 1922-97; 1923-102; *1925-126,127;
1926-124; 1927-125; *1928-142,143; *1929-148,505; 1930-136,map; 1931-70; 1933-96; *1934-C2-4; 1939-55,69
EMPR ASS RPT *12781, 17551
 EMPR BC METAL MM00465
EMPR BULL 1, 1932, pp. 55,56
EMPR EXPL 1984-376; 1988-C201
EMPR INDEX 3-192
EMPR MAP 8; 69-1

EMPR MAP 8; 69-1

EMPR PF (*Rpts by D.C. McKay, 1922; W.J. Elmendorf, 1924-1925; W.G. Norrie, 1931; H.L. Batten, 1931; Maps & Plans, 1926-1935; Map by D. Lay, 1925; Rpt by J.A. McClintock, 1987 in Prospectus for Fircrest Resources Ltd., Apr. 20, 1988, page 7)

EMR MP CORPFILE (Kleanza Company Limited; Columario Gold Mines
Limited; Endurance Minerals Inc.)
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM *205, pp. 41-43; 329, pp. 81,82
GSC P 36-17, pp. 73-76; *36-20, pp. 15-17
GSC SUM RPT 1925A, p. 117; 1926A
CANMET IR 743 (No. 506), 1933, pp. 132-135
 GCNL #176, 1990
 V STOCKWATCH Aug.17, 1987
Placer Dome File
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DATE CODED: 1986/12/05 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/05 REVISED BY: LLD FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 078

NAME(S): VICTOR, NELSON, HAVROEN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 33 39 N LONGITUDE: 128 23 06 W ELEVATION: 1150 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Veins, Map by Mandy, 1939 (Property File).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Hydrothermal

TYPE: I02 II SHAPE: Irregular Intrusion-related Au pyrrhotite veins

MODIFIER: Fractured

STRIKE/DIP: 130/50N DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE <u>GROUP</u> Jurassic Hazelton Undefined Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite

Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1940

SAMPLE TYPE: Rock

COMMODITY Silver **GRADE** 240.0000 Grams per tonne 120.0000 Gold Grams per tonne

Copper 0.2500 Per cent

REFERENCE: Minister of Mines Annual Report 1940, page 46.

**CAPSULE GEOLOGY** 

Andesites of the Jurassic Hazelton Group are intruded by diorite stocks of the Cretaceous to Tertiary Coast Plutonic Complex. Quartz  $\,$ veins, striking northwest and dipping 45 to 60 degrees northeast, occur along fractures in both andesite and diorite. The veins are 0.5 to 0.8 metres wide and up to 120 metres long. Gold is associated with pyrite and a 0.5 metre sample of one vein assayed 21 grams per tonne gold and 6.5 grams per tonne silver (Geological Survey of Canada Memoir 212). A 0.9 kilogram sample sent for assay, returned 120 grams per tonne gold, 240 grams per tonne silver and 0.25 per

cent copper (Minister of Mines Annual Report 1940).

**BIBLIOGRAPHY** 

EMPR AR 1939-59,68; 1940-45,46,54

EMPR ASS RPT 12781 EMPR EXPL 1984-376

EMPR MAP 69-1; 8

EMPR PF (\*Sketch Map by J.T. Mandy, 1939) EMR MP CORPFILE (Endurance Minerals Inc.) GSC MAP 11-1956; 278A; 1136A; 1385A

> MINFILE NUMBER: 1031 078

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NATIONAL MINERAL INVENTORY: 10319 Au5

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6046097 EASTING: 539769

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM \*212, pp. 12,13; 329, p. 81

DATE CODED: 1986/12/05 DATE REVISED: 1989/08/10 FIELD CHECK: N FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 1031 078

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REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 079 NATIONAL MINERAL INVENTORY: 10319 Au7

NAME(S): **TERRACE** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 33 19 N LONGITUDE: 128 26 06 W ELEVATION: 460 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Description.

COMMODITIES: Gold Silver Zinc Lead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Igneous-contact

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au DIMENSION: STRIKE/DIP: 170/20E TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Coast Plutonic Complex

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1937

> SAMPLE TYPE: Grab COMMODITY **GRADE**

Silver 82.3000 Grams per tonne Gold 16.8000 Grams ber tonne 7inc 0.0100 Per cent

REFERENCE: Geological Survey of Canada Memoir 205, pages 37,38.

**CAPSULE GEOLOGY** 

Granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex cuts volcanic rock of the Jurassic Hazelton Group. A flatlying quartz vein, 46 centimetres wide, lies along the contact between the intrusive and volcanic rocks. The vein trends southeast and is cut by a 3.6 metre wide diorite porphyry dyke. Mineralization consists of minor sphalerite, galena and pyrite. A grab sample assayed 16.8 grams per tonne gold, 82.3 grams per tonne silver and 0.10 per cent zinc (Geological Survey of Canada Memoir 205).

**BIBLIOGRAPHY** 

EMPR AR 1926-124

EMPR MAP 69-1; 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*205, pp. 37,38; 329, p. 81 GSC P 36-17, p. 66; \*36-20, p. 18 Placer Dome File

DATE CODED: 1986/11/28 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

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NORTHING: 6045452 EASTING: 536541

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 080

NATIONAL MINERAL INVENTORY: 10319 Ag2

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610

 $\mbox{NAME(S): } \frac{\mbox{SILVER BOW}}{\mbox{CROESUS}}, \mbox{SILVER CLIFF, CROESUS 19}, \\$ 

STATUS: Prospect MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103109W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 33 23 N LONGITUDE: 128 25 17 W NORTHING: 6045583 EASTING: 537420

ELEVATION: 610 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of old shaft on the Silver Bow claim from Geological Survey

of Canada Memoir 205, Figure 8.

COMMODITIES: Silver Zinc Gold Lead Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Chalcopyrite Tetrahedrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Hvdrothermal

Polymetallic veins Ag-Pb-Zn±Au SHAPE: Irregular

DIMENSION: STRIKE/DIP: 170/65E TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

Lower Jurassic Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite

Feldspar Porphyry Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1925 Assay/analysis

SAMPLE TYPE: Rock **GRADE** 

COMMODITY Silver 720.0000 3.4000 Grams per tonne Gold Grams per tonne 26.0000 Per cent I ead

Zinc 8.0000 Per cent REFERENCE: Minister of Mines Annual Report 1925, pages 124,125.

CAPSULE GEOLOGY

Andesites of the Lower Jurassic Hazelton Group are intruded by granodiorites and related feldspar porphyry dykes of the Cretaceous to Tertiary Coast Plutonic Complex. North striking, east dipping quartz veins occur over a 250 metre length adjacent to feldspar porphyry dykes within the andesites. The veins are up to 1 metre wide and contain galena, sphalerite, pyrite, tetrahedrite and chalcopyrite. A 25 centimetre sample of the Silver Bow showing assayed 6.9 grams per tonne gold, 2880 grams per tonne silver, 50 per cent lead and 24 per cent zinc (Geological Survey of Canada Memoir 205).

The Silver Cliff showing, which is 150 metres to the northwest, is a 15 metre wide, 20 metre long quartz vein, striking 160 degrees and dipping 65 degrees east. A sample assayed 3.4 grams per tonne gold, 720 grams per tonne silver, 26 per cent lead and 8 per cent zinc (Minister of Mines Annual Report 1925).

Production from the Silver Bow claim includes 6.7 tonnes which averaged 5.9 grams per tonne gold, 1426.6 grams per tonne silver, 1.1 per cent copper, 11.2 per cent lead and 13.0 per cent zinc (Minister of Mines Annual Report 1937, page C13). RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

EMPR AR \*1925-124,125; 1926-124; \*1937-A35,C12-15; 1938-B39; 1967-80; 1968-107 EMPR ASS RPT 1234, 12072, \*17260 EMPR EXPL 1983-502; 1988-C201 EMPR GEM 1970-194.195; 1972-500,501 EMPR MAP 8; 69-1 EMPR PF (Rpt by W.M. Sharp, 1966 in Kleanza Mines Ltd. Prospectus; Rpt by J.A. McClintock, 1987 in Prospectus for Fircrest Resources Ltd., Apr. 20, 1988) EMR MP CORPFILE (Kendal Mining and Exploration Company Limited)
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM \*205, pp. 38,39; 212; 329, p. 81
GSC P 36-17, pp. 67-69; \*36-20, pp. 17,18
V STOCKWATCH Aug.17, 1987 Chevron File

CODED BY: LDJ REVISED BY: LLD DATE CODED: 1986/12/01 FIELD CHECK: N DATE REVISED: 1989/08/10 FIELD CHECK: N

> MINFILE NUMBER: 103I 080

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 081 NATIONAL MINERAL INVENTORY: 103I9 Cu15

NAME(S): **EXCELSIOR**, CROESUS 12, CROESUS

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 32 28 N LONGITUDE: 128 25 38 W ELEVATION: 503 Metres NORTHING: 6043880 EASTING: 537057

LOCATION ACCURACY: Within 500M

COMMENTS: Figure 8 (Assessment Report 12072).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

Calcite Chlorite ALTERATION: Chlorite Carbonate Silica

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown Chloritic Carbonate

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Disseminated

TYPE: I02 Intrusion-related Au pyrrhotite veins

SHAPE: Irregular MODIFIER: Sheared

STRIKE/DIP: 045/90 TREND/PLUNGE: DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Lower Jurassic Undefined Formation Coast Plutonic Complex Cretaceous-Tertiary

LITHOLOGY: Andesite

Tuff Amphibolite Migmatite Granodiorite Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges Plutonic Rocks

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1937 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver GRADE 13.7000 Grams per tonne Gold 1.4000 Grams per tonne 0.3000 Per cent

Copper COMMENTS: The sample width is 1.2 metres.

REFERENCE: Geological Survey of Canada Memoir 212, page 12.

CAPSULE GEOLOGY

Granodiorites of the Cretaceous to Tertiary Coast Plutonic Complex intrude recrystallized mafic volcanic rocks of the Lower Jurassic Hazelton Group. The rocks are intensely sheared and contain numerous quartz stringers over a 12 metre width. The quartz veins trend north and contain disseminations and blebs of pyrite and chalcopyrite. A 1.2 metre sample assayed 1.4 grams per tonne gold, 13.7 grams per tonne silver and 0.3 per cent copper (Geological Survey of Canada Memoir 212).

The mineralization occurs within migmatized intrusives and volcanics, marginally-outward of the intrusive complex. The rocks are soft-chloritized dark green andesitic tuff or amphibolite-diorite. Several trenches have been blasted and bulldozed in chloritized and carbonate altered dark green andesite over a 60 by 20 metre area. Within this area, the andesite is mineralized by pyrite and quartzcarbonate-chlorite veins and minor chalcopyrite. Samples from the

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

mineralized zone include a 1.2 metre chip sample which assayed 0.3 per cent copper, 13.7 grams per tonne silver and 1.37 grams per tonne gold. Another 1.5 metre chip sample assayed 0.2 per cent copper, 1.7 grams per tonne silver and 1.03 grams per tonne gold (McClintock, 1987).

### **BIBLIOGRAPHY**

EMPR AR 1967-81,82; 1968-107 EMPR ASS RPT 1234, 1942, \*12072, \*17260 EMPR EXPL 1983-502; 1988-C201 EMPR GEM 1969-77,78; 1970-194,195; 1972-500,501 EMPR MAP 8; 69-1 EMPR PF (Rpt by \*W.M. Sharp, 1966 in Kleanza Mines Ltd. Prospectus; Rpt by \*J.A. McClintock, 1987 in Prospectus for Fircrest Resources Ltd., Apr. 20, 1988) ELG., Apr. 20, 1908)

EMR MP CORPFILE (Kendal Mining and Exploration Company Limited)

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 205; \*212, p. 12; 329

V STOCKWATCH Aug.17, 1987 Chevron File

DATE CODED: 1986/12/02 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> 103I 081 MINFILE NUMBER:

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 082

NAME(S): **ZYMOETZ**, HOMESTEAD, CROESUS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 31 59 N

LONGITUDE: 128 25 14 W ELEVATION: 160 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located along the Zymoetz River; location of mineralized veins on the north side of the river from Assessment Report 12072, Figure 8.

COMMODITIES: Gold Silver 7inc Lead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Chalcopyrite Magnetite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic TYPE: I05 Pc

Polymetallic veins Ag-Pb-Zn±Au 102 Intrusion-related Au pyrrhotite veins

SHAPE: Irregular

STRIKE/DIP: 090/45N DIMENSION: TREND/PLUNGE: COMMENTS: Main showing.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

7inc

Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1938 Assav/analysis

SAMPLE TYPE: Rock

COMMODITY Silver **GRADE** 34.3000 Grams per tonne 24.0000 Gold Grams per tonne

COMMENTS: The sample was collected from an area measuring 50 centimetres

by 8 metres

REFERENCE: Minister of Mines Annual Report 1938, pages B12-B15.

**CAPSULE GEOLOGY** 

Quartz diorite of the Cretaceous to Tertiary Coast Plutonic Complex intrudes volcanic rocks of the Lower Jurassic Hazelton Group. The quartz diorite is cut by northeast trending feldspar porphyry dykes which range from 3 to 5 metres in width.

9.4000

Per cent

Two separate, parallel quartz veins approximately 100 metres apart, cut the quartz diorite and host irregular streaks and patches of pyrite, chalcopyrite, sphalerite, galena and magnetite. The lower vein consists of two easterly converging, 5 to 75 centimetre wide veins that trend 280 degrees and dip 75 degrees north. Both veins are well mineralized with sphalerite, pyrite and minor galena. A channel sample taken across  $1.0~{\rm metre}$ , assayed  $1.71~{\rm grams}$  per tonne gold and  $4.8~{\rm grams}$  per tonne silver (Assessment Report 12072). A 7 centimetre channel sample, taken from a crosscut adit which intersected a 30 to 75 centimetre wide quartz vein which may represent the down dip extension of these veins, assayed 2.7 grams per tonne gold, 5.1 grams per tonne silver and 0.32 per cent zinc (Geological Survey of Canada Memoir 205).

Seventy-five metres west of these veins, an open cut exposed a 35 centimetre wide quartz vein which strikes 280 degrees and dips 65 degrees north. A chip sample, taken across 35 centimetres, averaged PAGE:

NATIONAL MINERAL INVENTORY: 10319 Au2

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6042987 EASTING: 537495

REPORT: RGEN0100

Copper

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

 $15.1~\mbox{grams}$  per tonne gold and  $13.7~\mbox{grams}$  per tonne silver (Geological Survey of Canada Memoir 205).

The upper, or main vein, consists of a single 10 to 100 centimetre wide quartz vein which strikes 283 degrees and dips between 25 and 48 degrees north. The vein is traceable for 21 between 25 and 48 degrees north. The vein is traceable for 21 metres in outcrop and has been explored by a 14.5 metre long adit. The vein consists of massive to sheared quartz variably mineralized with sphalerite, pyrite, galena and magnetite. Two channel samples taken across the vein assayed 8.9 grams per tonne gold and 0.1 grams per tonne gold across 75 centimetres and 30 centimetres, respectively (McClintock, 1987, Figure 6). In 1938, a sample of selected mineralization over a 50 centimetre width and 8 metre length assayed 24 grams per tonne gold, 34.3 grams per tonne silver and 9.4 per cent zinc (Geological Survey of Canada Memoir 205).

The Minister of Mines Annual Report for 1938, reports the following bulk shipments to the sampling plant at Prince Rupert:

	Gold	Silver	Copper	Lead	Zinc
Weight	g/tonne	g/tonne	%	%	%
24.5 kg	11.66	58.28	tr	3.7	21.2
0.64 t	44.23	53.48	tr	nil	7.8
0.07 t	13.37	44.57	nil	2.0	16.0

#### **BIBLIOGRAPHY**

EMPR AR 1934-C4; 1937-C33; \*1938-B12-B15,B39; 1939-69; 1940-54

EMPR ASS RPT 12072, \*17260 EMPR EXPL 1983-502; 1988-C201

EMPR MAP 8; 69-1

EMPR PF (\*McClintock, J.A. (1987): Report on the Croesus Gold Property
in Prospectus for Fircrest Resources Ltd., Apr. 20, 1988)
GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM \*205, pp. 35,36; 329, pp. 79,80 GSC P 36-17, pp. 61,62; \*36-20, pp. 18,19 V STOCKWATCH Aug.20, 1987

Chevron File

DATE CODED: 1986/12/03 DATE REVISED: 1989/08/10

CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103I 082

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 083 NATIONAL MINERAL INVENTORY: 103I9 Cu37

 $\label{eq:NAME} \begin{array}{ll} \text{NAME(S):} & \underline{\textbf{KINO}}, \text{ KDL}, \text{ H,} \\ & \underline{\text{M.C.}}, \text{ B.X.} \end{array}$ 

STATUS: Prospect MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103109W UTM ZONE: 09 (NAD 83)

BC MAP:

NORTHING: 6045823 EASTING: 543544

LATITUDE: 54 33 29 N LONGITUDE: 128 19 36 W ELEVATION: 600 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized volcanic breccia, Figure 3 (Assessment Report 10406).

COMMODITIES: Copper Molybdenum 7inc Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Molybdenite Galena Sphalerite

Tetrahedrite ASSOCIATED: Quartz ALTERATION: Sericite Calcite

Carbonate Chlorite Epidote Pyrite

Actinolite Malachite Limonite

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown Carbonate **Propylitic** Oxidation

**DEPOSIT** Stockwork Disseminated

Epigenetic Hydrothermal 105 Polymetallic veins Ag-Pb-Zn±Au

CHARACTER: BIECULA
CLASSIFICATION: Porphyry

TVPF: L04 Porphyry Cu ± Mo ± Au SHAPE: Irregular MODIFIER: Fractured

DIMENSION: 0250 x 0120 x 0015 Metres STRIKE/DIP: 115/35N TREND/PLUNGE:

COMMENTS: Volcanic breccia zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Volcanic Breccia Gossan

Quartz Diorite Andesite

Volcanic Agglomerate

Siltstone

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1972 Assay/analysis

COMMODITY **GRADE** 

Copper 0.0500 Per cent

COMMENTS: Chip sample over 120 metre width. REFERENCE: Assessment Report 4275, 10406.

REPORT ON: N ORE ZONE: BRECCIA

> CATEGORY: Assa SAMPLE\_TYPE: Chip YEAR: 1972 Assay/analysis

COMMODITY **GRADE** 

0.3700 Per cent

COMMENTS: Chip sample over 30 metres. Volume of the breccia is about

450000 cubic metres. REFERENCE: Assessment Report 4275.

**CAPSULE GEOLOGY** 

Volcanics and sediments of the Jurassic Hazelton Group are intruded by quartz-diorite stocks and dykes of the Cretaceous to Tertiary Coast Plutonic Complex. A 2000 by 1000 metre, east-west PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

trending gossan zone contains areas of copper and molybdenite mineralization which occur as fracture fillings and disseminations within the volcanics and intrusives.

The volcanics and sediments consist of banded tuffs, andesites, volcanic agglomerates, breccias, and siltstones. The rocks occupy a broad syncline with an east-northeast trending fold axis and are intensely fractured, responding to the northwest trending Dardenelle fault system.

A 250 metre long, 120 metre wide, and 15 metre thick volcanic brecia, within the volcanic rocks, strikes 115 degrees and dips 35 degrees to the northeast. It contains blebs, crystals and disseminations of pyrite and minor chalcopyrite. A chip sample over 30 metres assayed 0.37 per cent copper and grab samples over 120 metres assayed 1.6 per cent copper, 0.34 grams per tonne gold and 19.5 grams per tonne silver (Assessment Report 4275). The breccia and, to a limited extent, the volcanics show carbonate and some sericitic alteration.

A porphyritic quartz-diorite stock, referred to as the Copper Stock, occurs 500 metres north of the breccia zone. It is about 150 metres wide and is sparsely mineralized with fracture fillings and disseminations of pyrite, chalcopyrite and molybdenite. A 120 metre chip sample assayed 0.05 per cent copper and trace molybdenite (Assessment Report 4275). Alteration in the stock includes sericitic and some carbonate.

Quartz veins, up to 25 centimetres wide, occur with various attitudes throughout the gossan area. Some have carbonate minerals and most have pyrite. Many of the veins also carry galena, sphalerite, tetrahedrite, chalcopyrite and molybdenite. Associated alteration includes actinolite, chlorite, epidote, dolomite, ankerite, limonite, pyrite and malachite.

The old B.X. Showing is a 1.2 metre wide quartz vein containing pyrite and molybdenite. It and other quartz veins outcrop along the banks of Kleanza Creek, north of the above showings.

#### **BIBLIOGRAPHY**

EMPR AR 1928-146; 1966-250
EMPR ASS RPT \*829, 2325, \*4275, 8221, \*10406
EMPR BULL 9, p. 93
EMPR EXPL 1980-393; 1981-283
EMPR GEM \*1970-194; 1971-114; 1972-501
EMPR MAP 69-1; 8
EMR MP CORPFILE (Kendal Mining & Exploration Company Limited)
GSC MEM 329
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC P 36-17
CIM Spec. Vol. 15, 1976, Map B

DATE CODED: 1986/11/26 CODED BY: LDJ
DATE REVISED: 1989/08/10 REVISED BY: LLD

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 084

NATIONAL MINERAL INVENTORY: 10319 Au8

NAME(S): **ADELINE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

618

LATITUDE: 54 32 39 N

NORTHING: 6044236 EASTING: 539066

TREND/PLUNGE:

LONGITUDE: 128 23 46 W ELEVATION: 840 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description and Map 36-17; located on the south side of Kleanza

Mountain.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic TYPE: I02 Int Hydrothermal Intrusion-related Au pyrrhotite veins

DIMENSION: STRIKE/DIP: 090/30N

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Granodiorite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1937 Assay/analysis SAMPLE TYPE: Chip

COMMODITY **GRADE** 

0.7000 Grams per tonne

COMMENTS: The sample width is 60.0 centimetres. REFERENCE: Geological Survey of Canada Memoir 205, page 36.

**CAPSULE GEOLOGY** 

Granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex cuts volcanics of the Jurassic Hazelton Group. A 1.2 metre wide quartz vein, striking east and dipping 30 degrees north, occurs in the granodiorite. A 60 centimetre sample assayed 0.7 grams per tonne gold and trace silver (Geological Survey of Canada Memoir 205).

**BIBLIOGRAPHY** 

EMPR MAP 8; 69-1 GSC MAP 278A; 11-1956; 1136A; 1385A GSC MEM \*205, p. 36; 329, p. 81

GSC P 36-17, p. 63

DATE CODED: 1986/11/28 DATE REVISED: 1989/08/10 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 085 NATIONAL MINERAL INVENTORY: 103I9 Cu16

NAME(S): ALVIJA, LUCKY JIM

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP:

LATITUDE: 54 33 49 N

LONGITUDE: 128 10 56 W ELEVATION: 650 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adits and drilling site (Property File).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Quartz Chalcocite Chalcopyrite Tetrahedrite

ALTERATION: Malachite

**Epidote Epidote** 

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: D03 Vo Disseminated

Hydrothermal

Volcanic redbed Cu 101 Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular MODIFIER: Sheared

Other

DIMENSION: 0075 x 0075 x 0060 Metres STRIKE/DIP: 160/65W TREND/PLUNGE:

COMMENTS: Main showing with four zones. Modifier is brecciated.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

LITHOLOGY: Andesite Rhvolite

Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

GRADE

TERRANE: Stikine

INVENTORY

REPORT ON: Y ORE ZONE: MAIN

> CATEGORY: Unclassified YEAR: 1968 QUANTITY: 181420 Tonnes

COMMODITY Silver 68.5000 Grams per tonne Copper 4.0000 Per cent

COMMENTS: Four drillholes. REFERENCE: Property File - Phendler, 1968.

CAPSULE GEOLOGY

The area is underlain by interbedded andesites, rhyolites and tuffs of the Jurassic Hazelton Group. The rocks, which strike 160 degrees and dip about 50 degrees northeast, are concordantly sheared and brecciated, with associated copper mineralization occurring as disseminations, blebs and fracture fillings. Mineralization includes bornite and minor chalcocite, chalcopyrite, mala-

chite and possibly tetrahedrite, with associated quartz and epidote.

The Main showing contains four zones, the widest being 10.7
metres, over a width of 75 metres, a length of 75 metres and a vertical doubth of 60 metres. cal depth of 60 metres. A 7.6 metre chip sample on surface assayed 3.60 per cent copper and 65.1 grams per tonne silver (Geology, Exploration and Mining in British Columbia 1969). Sampling of 3 zones intersected by drilling, averaged 1.10 per cent copper and 23.7 grams per tonne silver over their average width of 9.3 metres (Property File: Phendler, 1968). Unclassified ore, based on 4 drill holes, is 181,420 tonnes of 4 per cent copper and 68.5 grams per tonne silver (Property File - Phendler, R.W., 1968; Western Miner

October 1968, page 154).

A shaft, 500 metres to the southeast, follows a fault in ande-

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6046540 EASTING: 552878

REPORT: RGEN0100

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

site with associated chalcocite veinlets. A 30 centimetre sample assayed 0.28 per cent copper and 4.1 grams per tonne silver (Geological Survey of Canada Memoir 212). Two small showings, the North and Chris, occur 460 metres northwest and 760 metres east, respectively, of the Main showing.

#### **BIBLIOGRAPHY**

EMPR AR 1905-82; 1908-65; 1909-84; 1914-126,127, Map P120; 1920-83; \*1923-103,104; 1924-88,89; 1925-126; 1926-125; 1928-146; 1929-152; 1930-137; 1967-82; 1968-107,108
EMPR ASS RPT 9914 EMPR EXPL 1980-392 EMPR GEM \*1969-82,83; 1970-193,194 EMPR GEM \*1969-82,83; 1970-193,194
EMPR MAP 69-1; 8
EMPR PR (\*Rpts by R.G. Jury, 1967; G.P.E. White, 1967; R.W. Phendler, 1968; Alvija Mines Ltd.- Prospectus; Maps by J. Willman, 1929)
EMR MIN BULL MR 223 B.C. 289
EMR MP CORPFILE (Alvija Mines Ltd.)
GSC MAP 278A; 11-1956; 1136A; 1385A
GSC MEM \*212, pp. 16,17; 329
GSC P 36-20, p. 31; 36-17
GSC SUM RPT 1925A, pp. 114,115
W MINER Oct. 1968, p. 154
EMPR OF 1998-10

DATE CODED: 1986/11/12 DATE REVISED: 1989/08/08

CODED BY: LDJ REVISED BY: LLD

FIELD CHECK: N FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 086 NATIONAL MINERAL INVENTORY: 103I9 Cu8

NAME(S): AVON, LOWRIE, NORTH STAR

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6045397 EASTING: 560438 LATITUDE: 54 33 09 N LONGITUDE: 128 03 56 W ELEVATION: 990 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Description.

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Garnet ALTERATION TYPE: Skarn **Bornite** Chalcocite **Pyrite** Calcite Magnetite Quartz

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Breccia Vein

CLASSIFICATION: Skarn TYPE: K04 Replacement Au skarn

SHAPE: Irregular MODIFIER: Other STRIKE/DIP: 360/90 TREND/PLUNGE:

COMMENTS: Modifier is brecciated.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Limestone Skarn

**GEOLOGICAL SETTING** TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine METAMORPHIC TYPE: Contact **RELATIONSHIP:** GRADE: Granulite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1937 Assav/analysis

> SAMPLE TYPE: Channel

COMMODITY Silver **GRADE** 1 4000 Grams per tonne

Gold 2.1000 Grams per tonne

COMMENTS: The sample width is 61.0 centimetres. REFERENCE: Geological Survey of Canada Memoir 212, pages 15,16.

**CAPSULE GEOLOGY** 

Triassic age limestone and andesite of the Jurassic Hazelton Group are intruded by a granodiorite stock of the Cretaceous to Tertiary Coast Plutonic Complex. A wide band of limestone, striking north and dipping 45 degrees east is altered and silicified into a green banded skarn containing garnet, epidote, quartz and calcite. The rock is cut by several north striking, vertical faults resulting

in brecciated zones up to 2 metres wide.

A zone is sparsely mineralized with chalcopyrite, pyrite, bornite and chalcocite. A 61 centimetre channel sample across the zone assayed 2.1 grams per tonne gold and 1.4 grams per tonne silver and a 25 centimetre sample of a nearby quartz vein with chalcopyrite assayed 0.04 per cent copper (Geological Survey of Canada Memoir

212).

**BIBLIOGRAPHY** 

EMPR AR 1908-65; 1909-84; 1914-122, Map P120; 1917-95; 1924-89

EMPR MAP 69-1; 8

EMPR PF (Map, 1929; Map by J. Willman, Feb. 1929) GSC MAP 278A; 1136A; 11-1956; 1385A

GSC MEM \*212, pp. 15,16; 329 p. 82

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 36-17 GSC SUM RPT 1910, p. 101; \*1925A, p. 114

DATE CODED: 1986/11/07 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 086

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 087 NATIONAL MINERAL INVENTORY: 10319 Cu6

NAME(S): WELLS, GLEN, LOW PASS

STATUS: Showing MINING DIVISION: Omineca REGIONS: British Columbia

NTS MAP: 103109E UTM ZONE: 09 (NAD 83)
BC MAP:

LATITUDE: 54 31 59 N NORTHING: 6043271

LONGITUDE: 128 01 26 W EASTING: 563162

ELEVATION: 1420 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Description.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcocite Bornite Cuprite
ASSOCIATED: Quartz Calcite Epidote

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal
TYPE: 1.01 Subvolcanic Cu-Aq-Au (As-Sb)

TYPE: LÓ1 Subvolcanic Cu-Ag-Au (As-Sb) D03 Volcanic redbed Cu SHAPE: Irregular

MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER

Jurassic Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1917

SAMPLE TYPE: Chip

COMMODITY GRADE

Silver 79.0000 Grams per tonne Copper 9.5000 Per cent

COMMENTS: The sample width is 1.2 metres. REFERENCE: Minister of Mines Annual Report 1917, page 96.

**CAPSULE GEOLOGY** 

Mineralization consisting of bornite, chalcocite and cuprite occurs in three shear zones cutting andesitic volcanic rocks of the Jurassic Hazelton Group. The variably oriented shear zones are up to 1.2 metres wide and contain stringers of quartz, calcite and epidote,

up to 20 centimetres wide.

A 1.2 metre sample from an adit assayed 9.5 per cent copper, 79 grams per tonne silver and trace gold (Minister of Mines Annual Report 1917). A sample of another shear zone assayed 4.2 per cent copper and 103 grams per tonne silver over 3 metres (Minister of

Mines Annual Report 1917).

**BIBLIOGRAPHY** 

EMPR AR 1914-120,121; \*1917-96; 1924-89; 1930-136; 1966-80

EMPR GEM 1969-79 EMPR MAP 69-1; 8

EMPR PF (Map, 1929; Map by J. Willman, Feb. 1929)

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*212, p. 15; 329, p. 82

GSC P 36-17

GSC SUM RPT 1910, p. 101; \*1925A, p. 114

DATE CODED: 1986/11/07 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 088

NATIONAL MINERAL INVENTORY: 103I9 Cu12

NAME(S): MONTANA, GLEN

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

624

LATITUDE: 54 31 29 N LONGITUDE: 128 01 16 W ELEVATION: 1460 Metres NORTHING: 6042346 EASTING: 563355

LOCATION ACCURACY: Within 500M

COMMENTS: Description, #46 symbol (Geological Survey of Canada Map 1136A).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcocite ASSOCIATED: Quartz ALTERATION TYPE: Silicific'n **Bornite** Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal TYPE: L01 Subvo **Epigenetic** 

Subvolcanic Cu-Ag-Aŭ (As-Sb) D03 Volcanic redbed Cu

SHAPE: Irregular MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

Jurassic

LITHOLOGY: Andesite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1917 Assay/analysis

SAMPLE TYPE: Chip COMMODITY

**GRADE** Silver 65,0000 Grams per tonne

1.1000 Per cent

Copper COMMENTS: The sample width is 6.0 metres.

REFERENCE: Minister of Mines Annual Report 1917, pages 96,97.

**CAPSULE GEOLOGY** 

Shear zones with associated quartz-calcite veins cut andesitic volcanic rocks of the Jurassic Hazelton Group. Mineralization consists of stringers and disseminations of bornite and chalcocite.

A quartz vein, up to 90 centimetres wide and 76 metres long returned a 71 centimetre channel sample assaying 1.18 per cent copper, 20 grams per tonne silver and trace gold (Geological Survey of Canada Memoir 212). A 6 metre sample of a shear zone assayed 1.1 per cent copper and 65 grams per tonne silver (Minister of Mines

Annual Report 1917).

**BIBLIOGRAPHY** 

EMPR AR 1914-121; \*1917-96,97; 1924-89; 1930-136; 1966-80

EMPR GEM 1969-79

EMPR MAP 69-1; 8

EMPR PF (Map, 1929; Map by J. Willman, Feb. 1929)

EMR MP CORPFILE (Glen Copper Mines Limited) GSC MAP 278A; 1136A; 11-1956; 1385A

GSC MEM \*212, pp. 14,15; 329, p. 82

GSC P 36-17

GSC SUM RPT 1925A, p. 114

CODED BY: LDJ REVISED BY: LLD DATE CODED: 1986/11/07 FIELD CHECK: N DATE REVISED: 1989/08/10 FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 089

NATIONAL MINERAL INVENTORY: 103I9 Cu38

PAGE:

NORTHING: 6037401 EASTING: 563424

REPORT: RGEN0100

625

NAME(S): DF, NORTHWEST, SNOW 31

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Omineca UTM ZONE: 09 (NAD 83)

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 28 49 N

LONGITUDE: 128 01 16 W ELEVATION: 1000 Metres LOCATION ACCURACY: Within 500M

COMMENTS: No. 2 zone (Assessment Report 3959), located on the south slope of the

south shoulder of Treasure Mountain.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Bornite Chalcopyrite Chalcocite

ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Replacement Disseminated

Porphyry

TYPE: D03 Volcanic redbed Cu I 01 Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Regular MODIFIER: Faulted

DIMENSION: 0120 x 0090 STRIKE/DIP: 010/55E Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

LITHOLOGY: Feldspar Porphyry

Lapilli Tuff Dioritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: 2 REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1964 SAMPLE TYPE: Chip

COMMODITY Copper Per cent

COMMENTS: The sample width is 13.0 metres.

REFERENCE: Property File: Report by D.D. Campbell, 1964.

**CAPSULE GEOLOGY** 

The area is underlain by volcanic rocks of the Jurassic Hazelton

The area is underlain by volcanic rocks of the Jurassic Hazelton Group which include 010 degree striking, 55 degree east dipping, vesicular purple feldspar porphyry and red and purple tuffs and lapilli tuffs. These are cut by a brown feldspar porphyry sill, a trachytic sill and a microdiorite dyke.

Bornite, chalcocite, chalcopyrite and malachite occur as disseminations, in vesicles and in fractures within the purple flow rocks and tuffs and, to a lesser degree, the porphyry sill. The best ore occurs along an east fault in the top of the trachytic porphyry and adjacent purple porphyry and tuff. and adjacent purple porphyry and tuff.

The mineralized zone (No. 2 Zone) is about 120 metres long and 90 metres wide. A 13 metre sample from a trench assayed 1.54 per cent copper (Property File: Campbell, 1964).

**BIBLIOGRAPHY** 

EMPR AR 1964-48; \*1965-71,72 EMPR ASS RPT 3959

EMPR GEM 1972-500; 1973-486

EMPR MAP 69-1; 8

EMPR PF (\*Rpt by Campbell, D.D., 1964)

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMR MP CORPFILE (Purdex Minerals Limited; Treasure Mountain Copper Limited; Metron Exploration Limited; Spectroair Explorations Limited) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

Placer Dome File

DATE CODED: 1986/11/06 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 089

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 090

NATIONAL MINERAL INVENTORY: 103I9 Cu38

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6037874 EASTING: 564137

REPORT: RGEN0100

627

NAME(S): **SNOW**, NORTHWEST, SNOW 11, TREASURE MT.

STATUS: Developed Prospect MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103108E

BC MAP: LATITUDE:

LONGITUDE: 128 00 36 W ELEVATION: 1280 Metres LOCATION ACCURACY: Within 500M

COMMENTS: No. 1 zone (Property File: Campbell, 1964).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcocite Bornite Chalcopyrite Pyrite

ALTERATION: Malachite Azurite

ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Replacement Stratabound Disseminated

Porphyry

TYPE: D03 V SHAPE: Regular Volcanic redbed Cu L01 Subvolcanic Cu-Ag-Au (As-Sb)

DIMENSION: 0060 x 0036 x 0010 Metres

STRIKE/DIP: 360/40

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Lapilli Tuff

Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: NO. 1 REPORT ON: Y

> YEAR: 1972 CATEGORY: Unclassified

QUANTITY: 28120 Tonnes COMMODITY **GRADE** 

Copper 1.7000 Per cent

REFERENCE: SMF June 19, 1973 - Spectroair Expl. Ltd., T. Sadlier-Brown, Oct.1972.

**CAPSULE GEOLOGY** 

The area is underlain by volcanic rocks of the Jurassic Hazelton Group which include 020 degree north trending, 35 to 50 degree east dipping purple lapilli tuff and vitrophyre. A brown feldspar porphyry sill intrudes the volcanics. Chalcocite, bornite and minor chalcopyrite occur as disseminations and veinlets along a bed of the pyroclastic rock. The mineralized block is about 60 metres long, 10 metres true width and 36 metres down dip length. A gouge-filled shear zone cuts the zone to the east, with a continuation of the zone east of the fault (drill intersections).

A 26 metre surface chip sample assayed 2.44 per cent copper and 0.4 grams per tonne silver (Minister of Mines Annual Report 1965). The mineralized block is estimated to contain 40,820 tonnes of about 2 per cent copper (Property File: Campbell, 1964). Unclassified reserves are 28,120 tonnes grading 1.7 per cent copper (Statement of Material Facts June 19, 1973 - Spectroair Explorations Ltd., T. Sadlier-Brown, October 1972).

A parallel zone, similar in character and 60 metres to the west, measures 30 by 10 metres. Surface samples average 3.26 per cent copper (Property File: Campbell, 1964).

**BIBLIOGRAPHY** 

EMPR AR 1914-118,119, Map p. 120; 1962-15; 1963-23,24; 1964-48; \*1965-71,72

EMPR ASS RPT 3959

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR GEM 1973-486 EMPR MAP 69-1; 8 EMPR MAP 09-1, 0 EMPR PF (\*Rpts by James, D.H., 1963; Bell, T., 1963; Campbell, D.D., 1964; Map by J. Willman, Feb. 1929) EMR MIN BULL MR 181, p. 231; 223 B.C. 291 EMR MP CORPFILE (The Premier Border Gold Mining Company Limited; The Cariboo Gold Quartz Mining Company Limited; Purdex Minerals Limited; Treasure Mountain Copper Limited; Metron Exploration Limited; Spectroair Explorations Limited; Copper River Exploration Company, Limited) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329 CIM Spec. Vol. 15, 1976, Map B GCNL #47, 1973 Sadlier-Brown, T. (1972): Statement of Material Facts for Spectroair Explorations Ltd., June 16, 1973 Placer Dome File

DATE CODED: 1986/11/06 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 091

NAME(S): T, DA, DOR

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 26 59 N

LONGITUDE: 128 02 21 W ELEVATION: 240 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions (Assessment Report 1863). The property is located on the

Barite

south side of the Zymoetz River, at the mouth of the Clore River.

**Bornite** 

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite

Barite

ALTERATION: Malachite Azurite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L01 Subvo
SHAPE: Irregular
MODIFIER: Sheared Disseminated

Industrial Min.

Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GRO**UP STRATIGRAPHIC AGE

Jurassic Hazelton

LITHOLOGY: Andesite Basalt

Rhyolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

PHYSIOGRAPHIC AREA: Hazelton Ranges

G06

**CAPSULE GEOLOGY** 

Jurassic Hazelton Group. Chalcopyrite, malachite, azurite, bornite and barite occur in a northwest trending, steeply dipping shear zone within the volcanics. The shears range up to 1.0 metre in width.

The area is underlain by andesites, basalts and rhyolites of the

**FORMATION** 

**Undefined Formation** 

**BIBLIOGRAPHY** 

EMPR AR 1968-108 EMPR ASS RPT 1581, 1747, \*1863, 2688, 3464 EMPR GEM 1969-370; 1970-188,189

EMPR MAP 8; 69-1

EMPR PF (Rpt by Campbell, D.D., 1964, p. 11) GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

GSC SUM RPT 1926A, p. 44

DATE CODED: 1986/11/05 DATE REVISED: 1989/08/08 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

PAGE:

NATIONAL MINERAL INVENTORY: 103I8 Cu1

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6033985 EASTING: 562300

Noranda/Kuroko massive sulphide Cu-Pb-Zn

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 092

NATIONAL MINERAL INVENTORY: 10318 Cu2

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6034210 EASTING: 555813

PAGE:

REPORT: RGEN0100

630

NAME(S): KELLY CREEK, ZYM, ZYMOETZ

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 27 09 N LONGITUDE: 128 08 21 W

ELEVATION: 550 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Upper showing, located on the south side of the Zymoetz River on what is locally known as Kelly Creek (Geology, Exploration and Mining in

British Columbia 1970).

COMMODITIES: Copper

Silver

Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite

ALTERATION: Malachite
ALTERATION TYPE: Epidote

Bornite Sericite

Chalcocite Quartz

Chloritic

MINERALIZATION AGE: Unknown

Oxidation

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

Porphyry Volcanic redbed Cu

TYPE: D03 SHAPE: Regular

MODIFIER: Fractured

DIMENSION: 150 x 120 x 30 COMMENTS: Upper Showing zone.

Sheared Metres

Disseminated

STRIKE/DIP: 105/40S

L01

TREND/PLUNGE:

Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Jurassic Mesozoic-Cenozoic

**GROUP** Hazelton

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Andesite

Basalt Breccia Rhyolite Gránodiorite

Andesitic Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine Plutonic Rocks PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: KELLY CREEK

REPORT ON: Y

Unclassified CATEGORY: QUANTITY:

545167 Tonnes

YEAR: 1985

COMMODITY

Silver

**GRADE** 45.9000 Grams per tonne 2.2300

Per cent Copper COMMENTS: Reserves are based on a cutoff grade of 1.5 per cent copper.

REFERENCE: VSE Filing Statement, Imperial Metals Corp., July 1985.

**CAPSULE GEOLOGY** 

Lower-Middle Jurassic Hazelton Group volcanic rocks, consisting of basalts, andesites and rhyolite-dacites and their fragmental equivalents, occupy a north striking antiform. The west limb of the fold has been intruded by an east trending elliptical stock of quartz diorite and granodiorite, measuring 2400 by 1500 metres. Associa andesitic feldspar porphyry sills cut the volcanics in the axial region of the antiform. The intrusives are part of the Tertiary-Associated

Jurassic Coast Plutonic Complex.

The Upper Showing contains disseminations, stringers and blebs of bornite and chalcopyrite within intensely fractured rhyolite tuffs and breccias. The east striking, moderately south dipping zone is limited on both sides by weakly mineralized andesitic feldspar porphyry and measures about 150 by 120 by 30 metres. A 15.2-metre drill intersection assayed 4.83 per cent copper, 163.5 grams per

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

tonne silver and 2.7 grams per tonne gold (George Cross News Letter #245, 1979) and a 34.7 metre drill intersection assayed 1.22 per cent copper and 27.5 grams per tonne silver (George Cross News Letter #169, 1980).

The Lower Showing, 400 metres to the northwest, consists of chalcopyrite, bornite and minor chalcocite occurring as fracturefillings in granodiorite. The zone is about 150 metres long and 15 metres wide. Chip sampling averaged 2 per cent copper and 17.1 grams metres wide. per tonne silver over 4 metres (George Cross News Letter #225, 1981). per tonne silver over 4 metres (George Cross News Letter #225, 1981 Drilling in 1980 established reserves of about 362,875 tonnes grading 3.18 per cent copper and 72.0 grams per tonne silver (Northern Miner January 22, 1981), or 2,267,960 tonnes grading 1.03 per cent copper and 18.5 grams per tonne silver (Northern Miner November 27, 1980). In 1985, unclassified reserves for the Kelly Creek property are 545,167 tonnes grading 2.23 per cent copper and

45.9 grams per tonne silver at a cutoff grade of 1.5 per cent copper (Vancouver Stock Exchange Filing Statement, Imperial Metals Corp., July 1985).

#### **BIBLIOGRAPHY**

EMPR AR 1966-79,80 EMPR ASS RPT \*2394, 8559, 20743 EMPR EXPL 1980-392 EMPR GEM 1969-78,79; \*1970-189-193; 1971-113,114 EMPR MAP 58; 65 (1989); 69-1 EMPR OF 1992-1 EMPR PF (Drilling notes and maps, 1970) EMR MIN BULL MR 181, p. 86; 223 B.C. 288 EMR MP CORPFILE (Native Mines Limited; Native Explorations Limited; Pechiney Development Limited; Cathedral Minerals Ltd.; Invex Resources Ltd.; Imperial Metals Corporation) EMR MP RESFILE (Zymoetz) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329 CMH 1986-87, p. 191; \*1989-90, p. 234 GCNL #245, 1979; #70,#119,#141,#169,#173,#190,#218, 1980; #77,#147,#225, 1981 N MINER Nov.27, 1980; Jan.22, May 7, 1981 Elwell, J.P. (1980): Report on the Kelly Project in Statement of Material Facts for Cathedral Minerals Ltd., Apr.14, 1980 EMPR OF 1998-10

DATE CODED: 1986/11/04 DATE REVISED: 1989/08/08 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 093

NATIONAL MINERAL INVENTORY: 10319 Ag6

NAME(S): ST. ELMO

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 40 19 N
LONGITUDE: 128 20 26 W
ELEVATION: 300 Metres
LOCATION ACCURACY: Within 500M NORTHING: 6058486 EASTING: 542527

COMMENTS: Description from Minister of Mines Annual Report 1929, page 151.

COMMODITIES: Silver Copper

**MINERALS** 

Specularite

Azurite Hematite

SIGNIFICANT: Chalcopyrite
ALTERATION: Malachite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: L01 Subvo Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Undefined Formation

LITHOLOGY: Tuff

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1937 Assay/analysis

SAMPLE TYPE: Chip COMMODITY **GRADE** 

Silver 12.3000 Grams per tonne

0.0400 Copper Per cent

REFERENCE: Geological Survey of Canada Memoir 212, page 36.

**CAPSULE GEOLOGY** 

The area is underlain by tuffs of the Jurassic Hazelton Group. They strike 070 degrees and dip 40 degrees south. Minor bornite and specularite occur in a 7.6 metre width of sheared and altered tuff. A typical sample assayed 12.3 grams per tonne silver and 0.04 per cent copper (Geological Survey of Canada Memoir 212).

**BIBLIOGRAPHY** 

EMPR AR \*1929-151 EMPR MAP 69-1; 8

GSC MAP 1136A; 11-1956; 278A; 1385A GSC MEM \*212, p. 36; 329, p. 82 GSC P 36-20, p. 38; 36-17

DATE CODED: 1986/12/10 DATE REVISED: 1989/08/08 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 093

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 094 NATIONAL MINERAL INVENTORY: 103I9 Cu35

NAME(S): OLD HICKORY, INDEPENDENCE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6051966 EASTING: 539359 LATITUDE: 54 36 49 N

LONGITUDE: 128 23 26 W ELEVATION: 160 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Geological Survey of Canada Map 36-17.

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Quartz Chalcopyrite **Pyrite** 

ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su

Subvolcanic Cu-Ag-Au (As-Sb) D03 Volcanic redbed Cu

SHAPE: Irregular MODIFIER: Faulted

STRIKE/DIP: 065/85N DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

LITHOLOGY: Andesite

Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1937 Assay/analysis

CATEGORY: Assay/ar SAMPLE TYPE: Channel COMMODITY **GRADE** 

Silver 5.1000 Grams per tonne Gold 0.2000 Grams per tonne Copper Per cent 0.6200

COMMENTS: The sample width is 70.0 centimetres.

REFERENCE: Geological Survey of Canada Memoir 205, page 44.

**CAPSULE GEOLOGY** 

Mineralization is associated with a fault striking 065 degrees and dipping 85 degrees northwest within andesitic lavas and inter-bedded tuffs of the Jurassic Hazelton Group. Veinlets of bornite, chalcopyrite, pyrite and malachite occur discontinuously over a 200 metre length and 0.6 metre width. A 70 centimetre sample assayed 0.2 grams per tonne gold, 5.1 grams per tonne silver and 0.62 per cent copper (Geological Survey of Canada Memoir 205).

**BIBLIOGRAPHY** 

EMPR AR \*1918-110; \*1929-148,149

EMPR MAP 69-1; 8

GSC MAP 1136A; 278A; 11-1956; 1385A; 36-17 GSC MEM \*205, pp. 43,44; 329, p. 82 GSC P 36-17, pp. 77,78

DATE CODED: 1986/12/08 CODED BY: LDJ FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/08/12 FIELD CHECK: N

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 095 NATIONAL MINERAL INVENTORY: 10318 Au2

NAME(S): **GOLDEN NIB**, GLOBE, IRON HAT, STAR, THORN

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103108W UTM ZONE: 09 (NAD 83)

**Biotite** 

BC MAP:

LATITUDE: 54 29 29 N LONGITUDE: 128 28 06 W NORTHING: 6038326 EASTING: 534439

ELEVATION: 335 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main adit located on the west side of Thornhill Mountain.

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Epidote
ALTERATION TYPE: Epidote Chlorite **Biotite** Chloritic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Massive

CLASSIFICATION: Epigenetic Hydrothermal

TYPE: I02 I SHAPE: Irregular Intrusion-related Au pyrrhotite veins L01 Subvolcanic Cu-Ag-Au (As-Sb)

MODIFIER: Sheared

DIMENSION: 0300 x 0180 x 0004 Metres STRIKE/DIP: 045/70S TREND/PLUNGE:

COMMENTS: Shear zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Granodiorite Greenstone

Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks Stikine METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: LENS REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1983 Assay/analysis

COMMODITY **GRADE** 

Silver 26.1000 Grams per tonne Gold Grams per tonne 4.2000

1.2000 Copper Per cent

COMMENTS: Grab sample from mineralized quartz lens. REFERENCE: Assessment Report 13104.

CAPSULE GEOLOGY

A 1.5 to 4.5 metre wide shear zone, striking 045 degrees and dipping 70 degrees southeast, occurs in coarse grained granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. The zone, which is up to 300 metres long and 180 metres vertical distance, contains quartz lenses and veins mineralized with pyrite and chalcopyrite. Associated alteration minerals include epidote, chlorite and biotite.

In the area of the main vein, remnants of older Mesozoic and Paleozoic sedimentary rocks, mainly greywacke, have been altered to greenstone. North trending faults, dipping 50 to 70 degrees west, cut the vein. Mineralization is erratic with lenses up to 2 metres and assays up to 7.7 grams per tonne gold and 14 grams per tonne silver (Assessment Report 11335). A grab sample assayed 4.2 grams per tonne gold, 26.1 grams per tonne silver and 1.20 per cent copper (Assessment Report 13104).

In 1926, about 27 tonnes of hand-sorted ore were shipped from

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

the Golden Nib property. From this ore 1,493 grams of gold, 1,275 grams of silver and 302 kilograms of copper were recovered. Two tonnes of ore were shipped to the Provincial Government sampling plant in Prince Rupert between 1938 and 1941. This shipment produced 124 grams of gold and 62 grams of silver.

#### **BIBLIOGRAPHY**

EMPR AR 1918-52; 1920-41; 1921-45; 1923-49; \*1925-71; 1926-64,75; \*1928-75,76; 1938-B26,B36; 1941-42 EMPR ASS RPT 11335, 13104, 14560 EMPR BULL 1, 1932, pp. 21,30 EMPR EXPL 1983-502; 1984-375 EMPR MAP 8; 69-1 EMPR MAP 8; 69-1
EMPR PF (\*DiSpirito, F. et al. (1986): Geophysical, Geochemical and
 Geological Surveys on the Thorn Project in Prospectus for Castello
 Resources Ltd., Jul. 13, 1987)
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM \*205, pp. 25,26; 329, p. 78
GSC P 36-17, pp. 42-44; 36-20, pp. 27,28
GSC SUM RPT 1925A; 1926A, pp. 39,40

DATE CODED: 1986/10/29 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103I 095

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 096 NATIONAL MINERAL INVENTORY: 10318 Cu4

NAME(S): LA LIBERTAD, THORN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l08W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6038648 EASTING: 536056 LATITUDE: 54 29 39 N

LONGITUDE: 128 26 36 W ELEVATION: 1415 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Sample CT 84, Figure 6a (Assessment Rpeort 14560).

COMMODITIES: Copper 7inc Gold Silver I ead

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Galena Tetrahedrite Pyrite Sphalerite

Calcite ALTERATION: Limonite Siderite

Oxidation

ALTERATION TYPE: Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: 105 Pc

Polymetallic veins Ag-Pb-Zn±Au 102 Intrusion-related Au pyrrhotite veins

SHAPE: Irregular MODIFIER: Sheared

STRIKE/DIP: 056/65S DIMENSION: TREND/PLUNGE:

COMMENTS: Quartz vein.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP **FORMATION** 

LITHOLOGY: Granodiorite

Quartz Diorite Lamprophyre Dike Quartz Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: VEINS REPORT ON: N

> YEAR: 1929 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 17.0000 Grams per tonne Gold 66.0000 Grams per tonne

REFERENCE: Minister of Mines Annual Report 1930, page 78.

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis SAMPLE TYPE: Bulk Sample YEAR: 1989

COMMODITY **GRADE** 

Gold 76.2000 Grams per tonne

COMMENTS: A bulk sample of 90 tonnes yielded 6856 grams of gold.

REFERENCE: Norther Miner September 4, 1989.

**CAPSULE GEOLOGY** 

Granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex is cut by quartz-feldspar porphyry and later quartz diorite and lamprophyre. The lamprophyre dykes are cut by two parallel faults, 160 metres apart, striking 056 degrees and dipping 60 to 70 degrees southeast. Quartz veins, 0.2 to 1.0 metres wide, follow the faults and are mineralized with small seams of chalcopyrite, pyrite, galena, tetrahedrite and sphalerite. The veins are up to 270 metres long and some are carbonated and contain siderite. A grab sample assayed 66 grams per tonne gold and 17 grams per tonne silver (Minister of Mines Annual Report 1930). A sample of a quartz vein

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

in the area assayed 0.07 per cent zinc (Assessment Report 13104).

#### **BIBLIOGRAPHY**

EMPR AR 1929-77,78; \*1930-78 EMPR ASS RPT 13104, 14560, 15115 EMPR BULL 1, 1932, pp. 22,30 EMPR EXPL 1984-375; 1985-C373; 1986-C427 EMPR MAP 69-1; 8 EMPR PF (\*DiSpirito, F. et al (1986): Geological, Geochemical and EMPR PF (\*Dispirito, F. et al (1986): Geological, Geochemical and Geological Surveys on the Thorn Project, in Prospectus for Castello Resources Ltd., July 13, 1987)
GSC MAP 1136A; 278A; 11-1956; 1385A
GSC MEM \*205, pp. 26,27; 329, p. 78
GSC P 36-17, p. 45
GSC SUM RPT 1925A, pp.117A-118A
N MINER Sept. 4, 1989

DATE CODED: 1986/10/29 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 1031 096

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 097 NATIONAL MINERAL INVENTORY: 10318 Cu3

NAME(S): **PTARMIGAN**, THORN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103l08W BC MAP:

LATITUDE: 54 29 24 N

LONGITUDE: 128 25 56 W ELEVATION: 1430 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description from Geological Survey of Canada Memoir 205.

COMMODITIES: Silver 7inc Gold Copper I ead

**MINERALS** 

SIGNIFICANT: Tetrahedrite ASSOCIATED: Quartz Chalcopyrite Pyrite Galena Sphalerite

Calcite ALTERATION: Limonite Siderite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant CLASSIFICATION: Epigenetic TYPE: 105 Pc Hydrothermal Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER **FORMATION** Pennsylvan.-Permian Undefined Group Unnamed/Unknown Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Greenstone

Greywacke Quartzite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Contact Plutonic Rocks **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1937 SAMPLE TYPE: Grab

**GRADE** 

COMMODITY Silver 460,0000 Grams per tonne

COMMENTS: The sample contained tetrahedrite and pyrite.

REFERENCE: Geological Survey of Canada Memoir 205, page 28.

**CAPSULE GEOLOGY** 

Granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex contain small roof pendants of sheared Mesozoic and Paleozoic greenstone derived from greywackes, volcanics and quartzites. The roof pendants are 6 to 25 metres wide and contain quartz and carbonate veins parallel to the northeast trending schistosity. veins are sparsely mineralized with tetrahedrite, chalcopyrite, The pyrite, galena and sphalerite. A sample of a 2.4 metre wide mineralized zone assayed 150 grams per tonne silver (Minister of Mines Annual Report 1918) and a 4.6 metre chip sample assayed 55 grams per tonne silver and 0.3 grams per tonne gold (Minister of Mines Annual Report 1930). A selected sample of tetrahedrite and pyrite assayed 460 grams per tonne silver and trace gold (Geological Survey of

Canada Memoir 205).

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EMPR AR 1914-114; 1918-50,51; 1920-40; 1921-45; 1923-49; 1924-48,49;

1925-70,71; \*1930-78

EMPR ASS RPT 13104, 14560, 15115 EMPR EXPL 1984-375; 1985-C373; 1986-C427

EMPR MAP 69-1; 8

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RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR PF (\*DiSpirito, F. et al (1986): Geophysical, Geochemical and Geological Surveys on the Thorn Project in Prospectus for Castello Resources Ltd., July 13, 1987)
GSC MAP 1136A; 278A; 11-1956; 1385A
GSC MEM \*205, pp. 27-29; 329, p. 78
GSC P 36-17, p. 46; 36-20, p. 25
GSC SUM RPT 1925A, p. 118; 1926A, pp. 41,42

DATE CODED: 1986/10/29 DATE REVISED: 1989/08/10 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

> MINFILE NUMBER: 103I 097

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 098

NATIONAL MINERAL INVENTORY: 10318 Cu3

PAGE:

REPORT: RGEN0100

640

NAME(S): **ST. PAUL**, X, ANNIE LAURIE, PTARMIGAN, THORN

STATUS: Showing MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103108W Skeena UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 54 28 54 N LONGITUDE: 128 25 36 W

NORTHING: 6037266 EASTING: 537146 ELEVATION: 1370 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Assessment reports 14560 and 15115 refer to the showing as the Society

Girl (103I 184), which, according to old references, lies to the west. Quartz vein and adit, Fig. 6b, p.7 (Assessment Report 14560).

COMMODITIES: Gold Silver Copper 7inc I ead

Tungsten

SIGNIFICANT: Pyrite Gold

Chalcopyrite Galena Sphalerite Arsenopyrite

Scheelite Freibergite Barite

ASSOCIATED: Quartz
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown

DEPOSIT CHARACTER: Vein

CLASSIFICATION: Epigenetic Hydrothermal 112 W veins

TYPE: I05 F SHAPE: Irregular Polymetallic veins Ag-Pb-Zn±Au MODIFIER: Sheared

DIMENSION: STRIKE/DIP: 070/40N TREND/PLUNGE: COMMENTS: Quartz vein.

HOST ROCK

**MINERALS** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Felsite

Biotite Granodiorite Andesite Lamprophyre Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Channel YEAR: 1984

**COMMODITY GRADE** Silver 92.6000 Grams per tonne Gold 15.8000 Grams per tonne Copper 0.0400 Per cent Lead 1.8800 Per cent Zinc 0.0800 Per cent

COMMENTS: The sample width is 7.0 centimetres.

REFERENCE: Assessment Report 13104.

**CAPSULE GEOLOGY** 

A 4.5 to 6.0 metre wide, east trending felsite dyke cuts massive biotite granodiorite and lamprophyre dykes of the Cretaceous to Tertiary Coast Plutonic Complex. Quartz veins, 0.2 to 1.4 metres wide, occur for several hundred metres along either side of the dyke.

The St. Paul vein dips 40 degrees north and is mineralized with pyrite, chalcopyrite, galena, sphalerite, arsenopyrite and gold. The vein occurs on the footwall side of the dyke, over a distance of 670 metres. A 7 centimetre channel sample of a sulphide rich zone, up to 1 metre wide, assayed 15.8 grams per tonne gold, 92.6 grams per tonne silver, 0.04 per cent copper, 1.88 per cent lead and 0.08 per cent zinc. A 1.4 metre channel sample assayed 5.7 grams per tonne gold,

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

3.43 grams per tonne silver, 0.006 per cent copper, 0.11 per cent lead and 0.09 per cent zinc (Assessment Report 13104). A quartz vein, located about 250 metres to the southeast is also mineralized with scheelite and barite. Scheelite nodules as large as 7.62 centimetres in diameter were reported from this vein on the St. Paul claim.

#### **BIBLIOGRAPHY**

EMPR AR 1914-114; 1918-50,51; 1924-49; \*1925-70,71; 1926-75; 1929-78; \*1930-78; 1933-45 EMPR ASS RPT 13104, 14560, \*15115 EMPR BULL 10 (Rev), p. 58; 1, 1932, pp. 21,22,30 EMPR EXPL 1984-375; 1985-C373; 1986-C427 EMPR MAP 69-1; 8 EMPR OF 1991-17 EMPF PF (\*DiSpirito, F. et al (1986): Geophysical, Geochemical and Geological Surveys on the Thorn Project in Prospectus for Castello Resources Ltd., July 13, 1987)

EMR MP CORPFILE (Seastar Resource Corporation) GSC EC GEOL #17, p. 43 GSC MAP 278A; 1136A; 11-1956; 1385A GSC MEM \*205, pp. 28,29; 329, p. 78 GSC P 36-17, pp. 47-49; 36-20, pp. 25,26 GSC SUM RPT 1925A, p. 118; 1926A, p. 41

DATE CODED: 1986/10/30 DATE REVISED: 1989/08/10

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 099

NATIONAL MINERAL INVENTORY: 10318 Au3

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642

NAME(S): LUCKY SEVEN, A AND B, BEAVER, LUCKY STRIKE, THORN

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103108W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 28 39 N LONGITUDE: 128 26 46 W NORTHING: 6036792 EASTING: 535890

ELEVATION: 800 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located on the west side of a ridge extending south from the summit

of Mount Thornhill; location of mineralized samples from Assessment

Report 14560, Figure 6a.

COMMODITIES: Gold Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Gold Tetrahedrite Freibergite Pyrite Galena

Chalcopyrite Stephanite Sphalerite ASSOCIATED: Quartz Calcite Siderite

Malachite Azurite Limonite Cerussite

ALTERATION: Sericite
ALTERATION TYPE: Silicific'n Oxidation

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

TYPE: I05 P SHAPE: Irregular Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: Mineralized zone.

HOST ROCK DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Granodiorite

Quartz Diorite Quartz Feldspar Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1986 Assay/analysis

**GRADE** COMMODITY Silver 38.3000 7.1600 Grams per tonne Gold

Grams per tonne 0.0150 Copper Per cent Lead 0.2460 Per cent 7inc 0.0300 Per cent

COMMENTS: Sample TT-9, from a quartz vein with galena, pyrite and

chalcopyrite. REFERENCE: Property File - DiSpirito, et al. 1986.

**CAPSULE GEOLOGY** 

Granodiorites of the Cretaceous to Tertiary Coast Plutonic Complex are cut by numerous quartz diorite and quartz-feldspar porphyry dykes. Quartz veins up to 2 metres in width, occur along a 600 metre, northeast trend. They are concentrated mainly along faults and along felsic dyke margins. The wallrock is often schistose and contains sericite within about 25 centimetres of the vein margins.

The quartz veins are comprised of off-white to pale grey, glassy to locally granular quartz. Terminated, subhedral quartz crystals often line occasional vugs within the veins. Limonitic iron oxides often coat fracture surfaces within the veins.

Sulphide minerals within the quartz veins are pyrite, chalcopyrite, galena, sphalerite, tetrahedrite(freibergite) and

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

stephanite with rare visible gold occurring in the Lucky Seven vein. Pyrite is the most abundant sulphide and occurs as disseminations within the veins; the other sulphides usually occur as irregular, discontinuous masses The mineralization is often concentrated near the vein margins. Chalcopyrite occurs as irregular masses up to 2 centimetres in diameter occasionally with malachite and/or azurite. Galena is present in several of the veins and locally, has been partly altered to cerussite(?). Several quartz veins contain siderite and minor calcite.

Sample TT-9, from a quartz vein with galena, pyrite and chalcopyrite near the old adits assayed 7.16 grams per tonne gold, 38.3 grams per tonne silver, 0.246 per cent lead, 0.03 per cent zinc and 0.015 per cent copper. Another sample taken from the dump pile at an old open cut assayed 0.695 grams per tonne gold, 99.5 grams per tonne silver, 2.533 per cent lead, 0.035 per cent zinc and 0.161 per cent copper (Di Spirito, 1986).

About 460 metres to the southwest of the old workings, a sample

About 460 metres to the southwest of the old workings, a sample from a 4 metre wide quartz vein assayed 6.7 grams per tonne gold, 1049 grams epr tonne silver, 0.094 per cent lead, 0.032 per cent zinc, 0.024 per cent copper and 0.0012 per cent molybdenite (Assessment Report 13140).

In 1918, about 91 tonnes of ore from the Lucky Seven claim group produced 6,221 grams of gold.

#### **BIBLIOGRAPHY**

EMPR AR 1914-114,115; \*1918-51,52; 1920-40; 1921-45; 1923-49; 1924-49; 1925-71; 1926-64,75; 1928-75; 1933-45

EMPR ASS RPT \*13104, \*14560, \*15115

EMPR BULL 1, 1932, p. 30; 10

EMPR EXPL 1984-375; 1985-C373; 1986-C247

EMPR MAP 8; 69-1

EMPR PF (\*DiSpirito, F., et al. (1986): Geophysical, Geochemical and Geological Surveys on the Thorn Project in Prospectus for Castello Resources Ltd., Jul. 13, 1987

EMR MP CORPFILE (Seastar Resource Corporation)

GSC MAP 11-1956, 278A, 1136A, 1385A

GSC MEM \*205, pp. 29-32; 329, p. 78

GSC P 36-17, pp. 51-54; 36-20, pp. 26,27

GSC SUM RPT 1925A pp. 117,118; 1926A, pp. 40,41

DATE CODED: 1986/10/30 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/11 REVISED BY: LLD FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 100

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

644

NAME(S): **EIGHT MILE** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l08W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 27 19 N LONGITUDE: 128 21 06 W ELEVATION: 1200 Metres NORTHING: 6034372 EASTING: 542033

LOCATION ACCURACY: Within 500M

COMMENTS: Sample, Plan No. 551-5 (Assessment Report 8110).

COMMODITIES: Silver 7inc Copper I ead

**MINERALS** 

SIGNIFICANT: Pyrite COMMENTS: Other unidentified massive sulphides.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Unknown

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex **FORMATION** 

LITHOLOGY: Granodiorite

Limestone Greisen

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane
TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1979 CATEGORY: Assay/analysis SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Silver Grams per tonne 8.6000 Copper 0.0300 Per cent 0.0300 Per cent Lead

Zinc 0.0300 Per cent

REFERENCE: Assessment Report 8110.

**CAPSULE GEOLOGY** 

The area is underlain by granodiorite of the Cretaceous-Tertiary Coast Plutonic Complex with roof pendants of limestone and greenstone

to the east and south.

Small massive pyrite nodules and unidentified massive sulphides occur within the intrusive rocks. A sample assayed 8.6 grams per tonne silver, 0.03 per cent copper, 0.03 per cent lead, and 0.03 per cent zinc (Assessment Report 8110).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8110 EMPR EXPL 1979-252,253

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

CODED BY: LDJ REVISED BY: FIELD CHECK: N FIELD CHECK: DATE CODED: 1986/10/31 DATE REVISED:

> MINFILE NUMBER: 103I 100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 101

NATIONAL MINERAL INVENTORY: 10318 Au4

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645

NAME(S): COIN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l08W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6034619 EASTING: 534647

LATITUDE: 54 27 29 N
LONGITUDE: 128 27 56 W
ELEVATION: 240 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Symbol #19 (Geological Survey of Canada Map 1136A).

COMMODITIES: Gold Silver 7inc I ead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Galena Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po
SHAPE: Irregular Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 100/30N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1937 CATEGORY: Assay/analysis

SAMPLE TYPE: Channel

COMMODITY **GRADE** 

Silver 9.3000 Grams per tonne Gold 0.7000 Grams per tonne

COMMENTS: The sample width is 51 centimetres. REFERENCE: Geological Survey of Canada Memoir 205, page 32.

**CAPSULE GEOLOGY** 

A quartz vein averaging 36 centimetres wide occurs in granodiorite of the Cretaceous-Tertiary Coast Plutonic Complex. The vein strikes 100 degrees for 24 metres, dips 30 degrees northeast, and is mineralized with pyrite, galena and sphalerite. A 51 centimetre sample assayed 0.7 grams per tonne gold and 9.3 grams per tonne silver (Geological Survey of Canada Memoir 205).

**BIBLIOGRAPHY** 

EMPR ASS RPT 13140, 14560

EMPR MAP 69-1; 8

GSC MAP 1136A; 278A; 11-1956; 1385A GSC MEM \*205, p. 32; 329, p. 78

GSC P 36-17, p. 55

DATE CODED: 1986/10/30 FIELD CHECK: N CODED BY: I D.I REVISED BY: LLD DATE REVISED: 1989/08/12 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 102

NATIONAL MINERAL INVENTORY: 103I8 Mo1

NAME(S): **EUREKA** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103l08W BC MAP:

LATITUDE: 54 27 59 N LONGITUDE: 128 24 56 W ELEVATION: 1470 Metres NORTHING: 6035572 EASTING: 537880

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LOCATION ACCURACY: Within 500M

COMMENTS: National Mineral Inventory location from Seastar Prospectus.

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Muscovite

Pyrite

Tourmaline ALTERATION: Molybdite Sericite

Epidote

Chlorite Chloritic **Epidote** 

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal Pegmatite TYPE: L05 Porphyry Mo (Low F- type)

SHAPE: Irregular COMMENTS: Mineralized area.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary

FORMATION

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Granite

Pegmatite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assav/analysis YEAR: 1929

SAMPLE TYPE: Rock

COMMODITY Molybdenum

**GRADE** 

11.2000 Per cent

COMMENTS: The results were obtained from a sample of "selected ore". There

are also traces of gold and silver.

REFERENCE: Minister of Mines Annual Report 1929, page 78.

**CAPSULE GEOLOGY** 

Molybdenite is associated with small, irregular, pegmatite dykes which intrude fine-grained granite of the Cretaceous-Tertiary Coast  $\,$ Plutonic Complex. The mineralization, which occurs disseminated and in patches over a 30 by 60 metre area, consists of pyrite and molybdenite with associated muscovite, tourmaline and epidote. A selected sample assayed 11.2 per cent molybdenum and trace gold and

silver (Minister of Mines Annual Report 1929).

**BIBLIOGRAPHY** 

EMPR AR 1927-125; \*1929-78; 1930-79; 1938-B37; 1942-31 EMPR ASS RPT 13104, 14560, 15115 EMPR BULL 9, p. 94; 10 EMPR EXPL 1985-C373; 1986-C427

EMPR MAP 69-1; 8

EMPR PF (\*DiSpirito, F. et al. (1986): Geophysical, Geochemical and Geological Surveys on the Thorn Project - in Prospectus for

Castello Resources Ltd., July 13, 1987)

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RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMR MP CORPFILE (Seastar Resource Corporation)

DATE CODED: 1986/10/30 DATE REVISED: 1987/07/23 FIELD CHECK: N CODED BY: LDJ REVISED BY: LDJ

MINFILE NUMBER: 1031 102

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 103

NATIONAL MINERAL INVENTORY: 103I1 Mo1

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REPORT: RGEN0100

648

NAME(S): GOSSAN CREEK, KITIMAT RIVER, MAT, BARBS

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103I01E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 08 59 N LONGITUDE: 128 12 36 W NORTHING: 6000468 EASTING: 551598

ELEVATION: 760 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Figure 3 (Assessment Report 14011).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Pyrite Molybdenite Chalcopyrite

ASSOCIATED: Quartz Sericite

ALTERATION: Silica ALTERATION TYPE: Silicific'n Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork Disseminated

CHARACTER. Stocking
CLASSIFICATION: Porphyry
TVPF: L05 Porphyry Mo (Low F- type) Hydrothermal

L04 Porphyry Cu ± Mo ± Au

COMMENTS: Mineralized area.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Quartz Feldspar Porphyry

Gabbro

Hornblende Biotite Diorite Biotite Granodiorite Sodic Granite Dioritic Dike

Quartz Monzonitic Dike Muscovite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1985 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Per cent Copper 0.0290 Molybdenum 0.0190 Per cent

COMMENTS: This is the weighted average of mineralized zones over 3.0

REFERENCE: Assessment Report 14011.

**CAPSULE GEOLOGY** 

The area is underlain by several phases of the Upper Cretaceous-Tertiary Coast Plutonic Complex consisting of gabbro, hornblendebiotite diorite, biotite granodiorite, soda granite, and muscovite granite. A roof pendant of Hazelton volcanics occurs to the northwest. Northwest trending dykes ranging in composition from diorite to quartz monzonite cut all rocks.

Pyrite, molybdenite, and chalcopyrite occur in narrow quartz veinlets and to a lesser extent as fracture coatings and as disseminations. In Gossan Creek, three weakly mineralized stockworks, 15 to 50 metres wide, occur over a 750 metre length and a 450 metre vertical distance, within a 1050 by 450 metre east trending plug of quartz-feldspar porphyry. Chip sampling of the mineralized zones gave weighted averages of 0.019 per cent molybdenite and 0.029 per cent copper over three metres.

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

The best interval overall is 50 metres of 0.03 per cent molybdenite (Assessment Report 14011). Silicification, feldspathization, and sericitization are structurally controlled and associated with molybdenum mineralization.

**BIBLIOGRAPHY** 

EMPR AR 1965-72; 1966-52 EMPR ASS RPT 775, 818, 819, 1000, 7928, 12868, \*14011, 15104 EMPR EXPL 1980-389,390; 1984-374; 1985-C371; 1986-C426

EMPR MAP 69-1; 8

EMR MP CORPFILE (Abo Oil Corporation) GSC MAP 278A; 1136A; 11-1956; 1385A

GSC MEM 329

GCNL #95,#136, 1982 Richardson, P.W. (1981): Report on the Kitimat River Property - in Prospectus for Abo Oil Corporation Nov.23, 1981

DATE CODED: 1986/10/06 DATE REVISED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 104

NATIONAL MINERAL INVENTORY:

NAME(S): **BOW BYES**, BILLY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l02E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

650

LATITUDE: 54 05 19 N LONGITUDE: 128 44 31 W ELEVATION: 760 Metres NORTHING: 5993411 **EASTING: 516879** 

LOCATION ACCURACY: Within 500M

COMMENTS: Sample location (Assessment Report 15528) south side, 20 metres

above Bowbyes Creek.

COMMODITIES: Copper Silver Magnetite Iron

**MINERALS** 

SIGNIFICANT: Chalcopyrite Magnetite Pyrite

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive
CLASSIFICATION: Volcanogenic
TYPE: K01 Cu skarn Industrial Min.

G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

STRIKE/DIP: DIMENSION: 4 x 1 Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE

Lower Jurassic Telkwa

> LITHOLOGY: Chlorite Schist Rhyolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1987 Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Silver 124.8000 Grams per tonne Copper 11.4000 Per cent

REFERENCE: Assessment Report 15528.

**CAPSULE GEOLOGY** 

Two massive sulphide/magnetite lenses, each about 1 metre thick and 3 to 4 metres long, occur in chloritic schist of the Lower Jurassic Hazelton Group, Telkwa Formation. Mineralization consists of massive, crudely banded chalcopyrite, pyrite and magnetite. Quartz-eye rhyolite overlies and underlies the mineralized horizon. A selected sample assayed 11.4 per cent copper and 124.8 grams per tonne silver (Assessment Report 15528).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*15528 EMPR EXPL 1975-176; \*1987-B67-B70,C358

EMPR GEM 1969-72; 1970-98; 1971-112; 1972-498,499; 1973-485; 1974-324

EMPR MAP 8

EMPR OF 1999-2

EMPR PF (Laramide Resources Ltd. Statement of Material Facts #78/87

May 29, 1987 pages 4-6 GSC MAP \*1136A; 278A; 11-1956; 1385A

GSC MEM 329

DATE CODED: 1986/10/02 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1987/07/23 FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 105

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

651

NAME(S): **BLOW**, S.Q., OLD TIMER, OXFORD

STATUS: Showing MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103109W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 35 59 N LONGITUDE: 128 27 06 W NORTHING: 6050389 EASTING: 535424

ELEVATION: 300 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Maps 2 and 3 (Assessment Report 800).

COMMODITIES: Copper Molvbdenum Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite Molybdenite Pyrite

ASSOCIATED: Quartz Magnetite Chlorite

ALTERATION: Epidote
ALTERATION TYPE: Chloritic **Epidote** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal Epigenetic

TYPE: L05 L04 Porphyry Cu ± Mo ± Au

Porphyry Mo (Low F- type)
Intrusion-related Au pyrrhotite veins 102

SHAPE: Irregular MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER
Coast Plutonic Complex STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP **FORMATION** 

LITHOLOGY: Quartz Monzonite

Granodiorite Greenstone Silica Rhyolite Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YFAR: 1914 Assay/analysis

COMMODITY **GRADE** 

Silver 27.4000 Grams per tonne Gold 1.0000 Grams per tonne Copper 3.4000 Per cent

REFERENCE: Minister of Mines Annual Report 1914, page 142.

CAPSULE GEOLOGY

Massive greenstone and siliceous rhyolite of Mesozoic to Paleozoic age are intruded by chloritic fine-grained quartz monzonite, granodiorite, and feldspar porphyry of the Cretaceous-Tertiary Coast Plutonic Complex. Pyrite, chalcopyrite and molybdenite occur as disseminations, as fracture infillings, and within quartz veins along the contact between the volcanics and intrusives. The mineralized zone trends northwest for about 360 metres. A 50 metre chip sample assayed 0.04 per cent copper and 0.01 per cent molybdenum (Assessment Report 800).

The Old Timer showing, probably 500 metres to the northwest, is a quartz vein with chalcopyrite, within intrusive rock. A sample assayed 1.0 grams per tonne gold, 27.4 grams per tonne silver and 3.4 per cent copper (Minister of Mines Annual Report

1914). The Oxford showing is also in the area.

**BIBLIOGRAPHY** 

EMPR AR 1914-142

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*800, 2719, \*8465 EMPR EXPL 1980-393,394 EMPR MAP 8; 69-1 GSC MAP 36-17; 1136A GSC MEM 205, pp. 51,52 GSC P 36-17, p. 90

DATE CODED: 1986/12/16 DATE REVISED: / /

CODED BY: LDJ REVISED BY:

FIELD CHECK: N FIELD CHECK:

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 106

NATIONAL MINERAL INVENTORY: 103I9 Cu39

NAME(S): **PROVIDENCE**, COPPER FALLS

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6041007 EASTING: 540892 LATITUDE: 54 30 54 N

LONGITUDE: 128 22 06 W ELEVATION: 380 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description and Figure 10 (Geological Survey of Canada Memoir 212).

COMMODITIES: Copper Lead

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Quartz Chalcopyrite Galena Tetrahedrite

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal

TYPE: LÓ1 105 Subvolcanic Cu-Ag-Au (As-Sb) Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Upper Paleozoic GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Unnamed/Unknown Informal

LITHOLOGY: Limestone Chlorite Schist

Siliceous Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

CAPSULE GEOLOGY

The area is underlain by schist and altered and silicified limestone of Mississippian to Permian age. Quartz veins containing minor bornite and chalcopyrite occur in chloritic schist. A quartz vein in the limestone contains minor galena

and tetrahedrite.

**BIBLIOGRAPHY** 

EMPR AR 1914-116

EMPR MAP 69-1; 8 GSC MAP 1136A; 278A; 11-1956; 1385A GSC MEM 212, pp. 11,12; 329, p. 80

CODED BY: LDJ REVISED BY: LLD DATE CODED: 1986/12/04 DATE REVISED: 1989/08/25 FIELD CHECK: N FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 107 NATIONAL MINERAL INVENTORY: 10318 Au1

NAME(S): **DARDANELLE**, J.P.

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 28 59 N

LONGITUDE: 128 13 06 W ELEVATION: 275 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Shaft, Figure 7 (Geological Survey of Canada Memoir 205); located on McNeill Creek on the north side of the Zymoetz River.

COMMODITIES: Gold Silver Copper Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Argentite Galena

Bornite Arsenopyrite Gold Covellite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po Hvdrothermal

102 Polymetallic veins Ag-Pb-Zn±Au Intrusion-related Au pyrrhotite veins

SHAPE: Irregular
DIMENSION: 0700 x 0180 x 0003 Metres STRIKE/DIP: 075/75N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Quartz albite dyke.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1964

SAMPLE TYPE: Bulk Sample **GRADE** 

COMMODITY Silver 624.7000 Grams per tonne Gold 27.9000 Grams per tonne 0.6400 Per cent Copper 8.1600 Per cent I eád 7inc 3.1500 Per cent

COMMENTS: The sample weighed 25.4 kilograms. REFERENCE: Geological Survey of Canada Memoir 329, pages 78, 79.

REPORT ON: Y ORE ZONE: J.P.

> CATEGORY: QUANTITY: Unclassified YFAR: 1983 181440 Tonnes

COMMODITY Silver **GRADE** 

17.1000 Grams per tonne 7.5000 Gold Grams per tonne

COMMENTS: From report by Dr. S. Reamsbottom. REFERENCE: George Cross Newsletter No.30, 1984.

CAPSULE GEOLOGY

A 5.5 to 7.3 metre wide quartz-albite dyke trending 075 A 5.5 to 7.3 metre wide quartz-aibite dyke trending 0/5 degrees and dipping 75 degrees north occurs in granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. Quartz veins, 0.3 to 2 metres wide, occur intermittently along both contacts of the dyke for 700 metres and a vertical depth of 180 metres. Minerals observed in the quartz veins include pyrite, sphalerite, chalcopyrite,

argentite, galena, arsenopyrite, bornite, covellite and gold.

A 1.2 metre sample from the bottom of a shaft assayed 9.3 grams per tonne gold, 61.7 grams per tonne silver, and 1.8 per

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6037550 EASTING: 550642

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

cent copper (Minister of Mines Annual Report 1918). A 0.4 metre adit sample assayed 13.0 grams per tonne gold and 361.4 grams per tonne silver (Geological Survey of Canada Memoir 205). A 25.4 kilogram sample of ore sent for testing assayed 27.9 grams per tonne gold, 624.7 grams per tonne silver, 0.64 per cent copper, 8.16 per cent lead and 3.15 per cent zinc (Geological Survey of Canada Memoir 329). In August 1983, a report by S. Reamsbottom suggested that the property contains reserves of approximately 181,440 tonnes grading about 7.5 grams per tonne gold and 17.1 grams per tonne silver (George Cross Newsletter Nov.13, 1984).

#### **BIBLIOGRAPHY**

EMPR AR 1914-116-118, Map P120; 1918-52,53; 1921-94,95; 1926-124; 1927-123,124; 1932-83; 1935-C7,C35,G48; 1936-C37; 1937-C32; 1939-68; 1940-53 68; 1940-53
EMPR BULL 1, 1932, p. 50
EMPR GEM 1969-78; 1970-193
EMPR MAP 8; 69-1
EMR MIN BULL MR 223 B.C. 287
EMR MP CORPFILE (Omineca Gold Quartz Mines, Ltd; Univex Mining Corp. Ltd.) Mining Corp. Ltd.)
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM \*205, pp. 33-35; 329, pp. 78,79
GSC P 36-17, pp. 57-60; 36-20, pp. 29,30
GSC SUM RPT 1925A, p. 115
CANMET IR 771 (No. 658), 1935, pp. 170-174
GCNL \*Dec. 23, 1975; #24, 1980; #191, 1982; #30, 1984 IPDM Mar/Apr., 1984 EMPR OF 1998-10

DATE CODED: 1986/11/03 DATE REVISED: 1989/08/25 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103I 107

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 108

NATIONAL MINERAL INVENTORY: 103I15 Cu5

PAGE:

REPORT: RGEN0100

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NAME(S): RAY

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I15E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6073152 EASTING: 516123 LATITUDE: 54 48 19 N

LONGITUDE: 128 44 57 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of claims located on Hall Creek, 1.6 kilometres east of the

north end of Kitsumkalum Lake.

COMMODITIES: Copper Molybdenum

MINERALS
SIGNIFICANT: Chalcopyrite Molybdenite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stockwork
CLASSIFICATION: Porphyry
TYPE: L04 Porphyry Cu ± Mo ± Au L05 Porphyry Mo (Low F- type)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex FORMATION

LITHOLOGY: Granite

Porphyritic Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

Veins in a porphyritic granitic rock carry chalcopyrite

and molybdenite. The granitic intrusive is part of the Cretaceous to Tertiary Coast Plutonic Complex.

**BIBLIOGRAPHY** 

EMPR GEM 1970-46

EMPR MAP 8

GSC MAP 278A; 1136A; 1385A; 11-1956

GSC MEM 329

DATE CODED: 1986/10/10 DATE REVISED: 1989/08/25 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 109

NATIONAL MINERAL INVENTORY: 103I1 Mo1

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REPORT: RGEN0100

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 $\mathsf{NAME}(S) \colon \: \frac{\mathsf{MANTLE} \: \mathsf{CREEK}}{\mathsf{ELL}}, \: \mathsf{KITIMAT} \: \mathsf{RIVER}, \: \mathsf{MAT},$ 

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103I01E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 07 29 N LONGITUDE: 128 12 06 W ELEVATION: 760 Metres LOCATION ACCURACY: Within 500M COMMENTS: Minoralia NORTHING: 5997693 EASTING: 552173

COMMENTS: Mineralized zone, Figure 3 (Assessment Report 14011).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Pyrite Molybdenite Chalcopyrite

ASSOCIATED: Quartz Sericite

ALTERATION: Silica ALTERATION TYPE: Silicific'n Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Stockwork

CLASSIFICATION: Hydrothermal

TYPE: LÓ5 F SHAPE: Irregular Porphyry Mo (Low F- type) L04 Porphyry Cu ± Mo ± Au

COMMENTS: Mineralized area.

HOST ROCK DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Sodic Granite

Quartz Monzonitic Dike Dioritic Dike Biotite Granodiorite Hornblende Biotite Diorite Gabbro

Muscovite Granite

**GEOLOGICAL SETTING** 

ONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks TECTONIC BELT: PHYSIOGRAPHIC AREA: Kitimat Ranges

INVENTORY

ORE ZONE: STOCKWORK REPORT ON: N

> CATEGORY: YEAR: 1985 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Copper

Per cent 0.0260 0.0250 Per cent Molybdenum

COMMENTS: The results were obtained from the weighted average of several

chip samples.

REFERENCE: Assessment Report 14011.

CAPSULE GEOLOGY

The area is underlain by several phases of the Upper Cretaceous to Tertiary Coast Plutonic Complex consisting of gabbro, hornblende biotite diorite, biotite granodiorite, soda granite, and muscovite granite. A roof pendant of altered Jurassic Hazelton Group volcanics occurs to the northwest. Northwest

trending dykes ranging in composition from diorite to quartz monzonite cut all rocks.

Pyrite, molybdenite, and chalcopyrite occur in narrow quartz veinlets and to a lesser extent as fracture coatings and as disseminations. In Mantle Creek, three quartz vein stockwork zones, up to 50 metres wide occur over a 660 metre length and 300 metre vertical distance within soda granite. The weighted averages of several chip samples are 0.025 per cent molybdenite and 0.026 per cent copper (Assessment Report 14011). Silicification, feldspathization, and sericitization are commonly

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

associated with molybdenite and are mainly structurally controlled.

**BIBLIOGRAPHY** 

EMPR AR 1965-72; 1966-52 EMPR ASS RPT 775, 818, 819, 1000, 7928, 12868, \*14011, 15104 EMPR EXPL 1980-389,390; 1984-374; 1985-C371; 1986-C426

EMPR MAP 69-1; 8

EMR MP CORPFILE (Abo Oil Corporation) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

GCNL #95,#136, 1982

DATE CODED: 1986/10/06 DATE REVISED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

PAGE: 659 REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 110

NATIONAL MINERAL INVENTORY:

NAME(S): **HALF VAST**, SIL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l01E BC MAP:

UTM ZONE: 09 (NAD 83)

LATITUDE: 54 04 49 N NORTHING: 5992750 EASTING: 552411

LONGITUDE: 128 11 56 W ELEVATION: 1060 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized area, Figure 2 (Assessment Report 9595).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Pyrite

ALTERATION: Sericite ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Dissemin
CLASSIFICATION: Epigenetic Hydrothe
TYPE: L05 Porphyry Mo (Low F- type) Disseminated Hvdrothermal

SHAPE: Irregular

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u>

Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

Felsic Dike

Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Plutonic Řocks

INVENTORY

ORE ZONE: VEINS REPORT ON: N

> CATEGORY: Assa SAMPLE\_TYPE: Chip YEAR: 1981 Assay/analysis

**GRADE** COMMODITY

Molybdenum 0.0390 Per cent

COMMENTS: The sample included 5 mineralized veins over a width of 6 metres. REFERENCE: Assessment Report 9595.

**CAPSULE GEOLOGY** 

The area is underlain by granodioritic stocks which are part of the Cretaceous to Tertiary Coast Plutonic Complex. Mineralized quartz veins occur in quartz diorite near its contact with a granite-quartz monzonite. The veins are one to 100 centimetres in width and strike 130 degrees to 160 degrees with a 45 degree to 60 degree north dip. Mafic and felsic dykes cut the granitic rocks and the quartz

Molybdenite and pyrite occurs along the margins of the quartz veins and less abundantly as disseminations in the quartz. A 6 metre sample containing about 5 mineralized veins assayed 0.039 per cent molybdenite (Assessment Report 9595). Sericite forms an

envelope around the quartz veins with the molybdenite.

**BIBLIOGRAPHY** 

EMPR ASS RPT 8558, \*9595, 16271 EMPR EXPL 1980-389; 1987-C356

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

vein system.

RUN DATE: 26-Jun-2003 MIN RUN TIME: 12:06:33 GI

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GCNL #133, 1980

DATE CODED: 1986/10/07 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1987/12/23 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 1031 110

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 111

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5992437

EASTING: 552051

REPORT: RGEN0100

661

NAME(S): SIL, HALF VAST

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l01E BC MAP:

LATITUDE: 54 04 39 N LONGITUDE: 128 12 16 W ELEVATION: 980 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Quartz pegmatite, Figure 3 (Assessment Report 9595).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz ASSOCIATED: Pyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Pegmatite Industrial Min.

TYPE: 004 F SHAPE: Regular Feldspar-quartz pegmatite

COMMENTS: Quartz pegmatite, approximate area 800 square metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER **FORMATION** Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

Quartz Monzonite

Granite

HOSTROCK COMMENTS: Quartz pegmatite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Kitimat Ranges

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1981 CATEGORY: Assay/analysis SAMPLE TYPE: Chip

COMMODITY Silica GRADE 99.5000 Per cent

REFERENCE: Assessment Report 9595.

**CAPSULE GEOLOGY** 

The area is underlain by granodioritic intrusives which are part of the Cretaceous to Tertiary Coast Plutonic Complex. Locally, a unit of mixed migmatite, aplite dykes, quartz, quartz diorite and quartz-K-spar pegmatite occurs at the contact between quartz diorite and granite-quartz monzonite. Within this unit, are two pure white quartz pegmatite dykes. The smaller one measures at least 100 metres long and about 10 metres wide. The larger exposure is 140 metres by 6.7 metres with an approximate area of 800 square metres. A sample of material assayed 99.50 per cent SiO2 (Assessment Report 9595).

**BIBLIOGRAPHY** 

EMPR ASS RPT 8558, 9595, \*16271 EMPR EXPL 1980-389; 1987-C356

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/10/07 DATE REVISED: 1987/12/23 CODED BY: LDJ FIELD CHECK: N REVISED BY: LDJ FIELD CHECK: N RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 112

NATIONAL MINERAL INVENTORY:

NAME(S): HARLEQUIN, DOLLAR, CROESUS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 32 40 N LONGITUDE: 128 25 41 W ELEVATION: 600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Harlequin zone, Figure 8 (Assessment Report 12072).

COMMODITIES: Lead 7inc Silver Gold Molybdenum

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena Pyrite Molybdenite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Jurassic Cretaceous-Tertiary

GROUP Hazelton

**FORMATION** 

Undefined Formation

Grams per tonne

YEAR: 1983

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6044250 EASTING: 537000

REPORT: RGEN0100

662

Coast Plutonic Complex

LITHOLOGY: Andesite

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine Plutonic Rocks PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: DOLLAR VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1987

SAMPLE TYPE: Grab

COMMODITY

**GRADE** Gold 0.2050

COMMENTS: Selected sample from the Dollar vein.

REFERENCE: Property File - McClintock, 1987.

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis SAMPLE TYPE: Grab

COMMODITY

**GRADE** 143,3000 Grams per tonne Silver Gold 0.3000 Grams per tonne 22.5000 I ead Per cent 6.9000 Per cent 7inc

COMMENTS: The results were obtained from a float sample. REFERENCE: Assessment Report 12072.

**CAPSULE GEOLOGY** 

Granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex intrudes volcanic rocks of the Jurassic Hazelton Group. Harlequin vein is a flat-lying, 1 metre wide quartz vein that dips 45 degrees to the north. Sphalerite and galena occur along the hangingwall of the vein. A chip sample across the vein assayed 1.1 grams per tonne gold and 31.9 grams per tonne silver and a selected float sample assayed 0.3 grams per tonne gold, 143.3 grams per tonne silver, 6.90 per cent zinc and 22.50 per cent lead (Assessment Report 12072).

The Dollar vein, located 100 metres northeast of the Harlequin vein, is a 4 to 15 centimetre wide quartz vein which is sparsely mineralized with pyrite and traces of molybdenite. A selected sample from the vein assayed 0.205 grams per tonne gold (McClintock, 1987).

> MINFILE NUMBER: 103I 112

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*12072, \*17260
EMPR EXPL 1983-502; 1988-C201
EMPR MAP 8; 69-1
EMPR PF (Rpt by W.M. Sharp, 1966 in Kleanza Mines Ltd. Prospectus;
 \*McClintock, J.A. (1987): Report on the Croesus Gold Property in Prospectus for Fircrest Resources Ltd., Apr.21, 1988)
GSC MAP 11-1956, 278A, 1136A, 1385A
GSC MEM 329
V STOCKWATCH Aug.17, 1987
Chevron File

Chevron File

DATE CODED: 1986/12/03 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1031 112

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 113

NATIONAL MINERAL INVENTORY:

NAME(S): MAYNER'S FORTUNE

STATUS: Developed Prospect REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103l07E BC MAP:

PAGE:

REPORT: RGEN0100

664

LATITUDE: 54 24 33 N

NORTHING: 6029102 EASTING: 522284

LONGITUDE: 128 39 24 W ELEVATION: 91 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Limestone band near rail line, Map 2 (Assessment Report 3585).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Epidote Garnet Magnetite Sulphide ALTERATION: Epidote Garnet Magnetite Sulphide

ALTERATION TYPE: Skarn MINERALIZATION AGE: Permian

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R09 Lime Massive Industrial Min. Evaporite

Limestone STRIKE/DIP: 040/25E DIMENSION: 0108 x 0030 Metres TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Limestone

Quartzite Graphitic Argillite Argillaceous Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: 10 MILE REPORT ON: Y

> CATEGORY: YEAR: 1967 Inferred

QUANTITY: 454000 Tonnes COMMODITY **GRADE** 

96.3000 Per cent Limestone

COMMENTS: Grade given for CaCO3.

REFERENCE: Property File - K.P. Bottoms, 1967, page 10.

**CAPSULE GEOLOGY** 

Several isolated blocks of massive, Permian (?) limestone outcrop just west of Lakelse Lake, 14 kilometres south-southwest of Terrace. The limestone is contained in a sequence of thin bedded quartzite, graphitic argillite and argillaceous limestone that is intruded by Jurassic to Tertiary aged granite and diorite of the Coast Plutonic Complex. The limestone is usually white, but sometimes displays a green or bluish grey colour. It is extensively recrystalized and coarse grained in texture. Epidote-garnet skarn zones with minor magnetite and sulphides are locally developed in the limestone.

One 30 metre thick block of limestone extends for 108 metres northeast from the Lakelse River, crossing the Canadian National Railway at the 10 mile point. The bed strikes 040 degrees and dips 25 degrees southeast. The block is estimated to contain at least 454,000 tonnes of limestone (K.P. Bottoms, 1967, pp. 3, 10). A representative sample from this block assayed 96.3 percent calcium carbonate and 1.59 percent magnesium carbonate (K.P. Bottoms 1967, p. 10). At least two other deposits of relatively pure limestone outcrop to the southeast.

Inferred reserves for the 10 Mile zone measured 454,000 tonnes grading 96.3 per cent limestone (Property File - K.P. Bottoms, 1967,

page 10).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3585 EMPR GEM 1970-97,98; 1971-113 EMPR MAP 8 EMPR PF (\*K.P. Bottoms, 1967 Report pp.3,10) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329 pp.14-17 GSC OF 1136

DATE CODED: 1986/10/08 DATE REVISED: 1989/08/16 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 1031 113

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 114 NATIONAL MINERAL INVENTORY: 103I9 Mo2

 $\mbox{NAME(S): } \begin{tabular}{ll} {\bf SAK}, {\bf NICHOLSON} \ {\bf CREEK}, {\bf PHOENIX}, \\ \hline {\bf KOKANEE} \end{tabular}$ 

STATUS: Prospect MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103109W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 40 19 N LONGITUDE: 128 26 06 W NORTHING: 6058433 EASTING: 536436

ELEVATION: 900 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill holes, Dwg. C-8765 (Assessment Report 7932).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrite Ferrimolybdite

ASSOCIATED: Quartz
ALTERATION: Sericite
ALTERATION TYPE: Silicific'n Clay Quartz Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stockwork Disseminated

CLASSIFICATION: Epigenetic Hydrothermal

TYPE: L05 F SHAPE: Irregular Porphyry Mo (Low F- type)

MODIFIER: Fractured COMMENTS: Mineralized zone.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex STRAIIGNAFTING. STRATIGRAPHIC AGE GROUP **FORMATION** 

LITHOLOGY: Quartz Diorite

Granodiorite Volcanic Porphyritic Flow Basalt Rhyolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges TERRANE: Stikine

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> Assay/analysis YEAR: 1970 CATEGORY:

SAMPLE TYPE: Drill Core COMMODITY

**GRADE** 0.2180

Per cent Molybdenum

COMMENTS: The sample width is 15 metres. REFERENCE: Property File: Drilling notes, unknown author, 1970.

**CAPSULE GEOLOGY** 

Triassic volcanics and metavolcanics are intruded by quartz diorite and granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. The volcanics consist mainly of rhyolites, porphyritic flows, and minor basalt. All rocks are cut by faults and shear zones with associated quartz veins.

Molybdenite, associated with pyrite, occurs as disseminations rosettes and smears in widely spaced quartz veins and

tions, rosettes, and smears in widely spaced quartz veins and shears over a 900 by 400 metre area, which trends southsouthwest. The mineralized zone occurring mainly in the intrusive rocks, shows quartz-sericite-clay alteration. In the north part of the zone, several north-northwest trending mineralized veins occur which measure up to 100 metres long and 3 metres wide. At a higher elevation, 600 metres to the south, several drill holes intersected molybdenite within quartz veins and veinlets. One hole intersected 15 metres of 0.218 per cent molybdenite and a hole 270 metres to the west intersected 49 metres of 0.108 per cent molybPAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

denite (Property File: Drilling notes, 1970).

**BIBLIOGRAPHY** 

EMPR AR 1928-145; 1934-C5; \*1935-C7-C9; 1936-C37; 1940-54; 1941-41; 1945-63; 1948-76 EMPR ASS RPT 4298, 5722, 6032, 7197, \*7932, 8592 EMPR EXPL 1975-176; 1976-163; 1979-253; 1980-394 EMPR GEM \*1973-487 EMPR MAP 69-1; 8 EMPR PF (Rpt by N.G. Freshwater, 1946, Maps by J.A. Siefert, 1946 and F. Nash, 1931, 1935; Drilling Notes, author unknown, 1970)

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*205, pp. 53-56; \*329, pp. 86,87 GSC P 36-17, pp. 94-96; 36-20, pp. 35,36

DATE CODED: 1986/12/19 DATE REVISED: 1989/08/25 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 114

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 115

NATIONAL MINERAL INVENTORY: 103I15 Zn1

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

668

NAME(S): LOU

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I15W BC MAP:

LATITUDE:

54 58 29 N NORTHING: 6091990 **EASTING: 510010** 

LONGITUDE: 128 50 37 W ELEVATION: 300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Drill holes, Map No. 6 (Property File: White, 1969).

COMMODITIES: Zinc. Silver Gold I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Sphalerite Galena Chalcopyrite Calcite

ALTERATION: Hydrozincite Smithsonite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Disseminated

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous **Bowser Lake Undefined Formation** 

LITHOLOGY: Argillite

Greywacke Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Bowser Lake COMMENTS: Bowser Lake Group are cover rocks on the Stikinia terrane.

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> Assay/analysis CATEGORY: YFAR: 1969

SAMPLE TYPE: Drill Core COMMODITY Silver **GRADE** 20.6000 Grams per tonne Gold 0.3000 Grams per tonne

Per cent Copper 0.2700 Per cent Lead 0.0200 Zinc 3.7500 Per cent

COMMENTS: The sample width is 2.4 metres.

REFERENCE: Property File: Report by G.P.E. White, 1969 (Gold Star: 1031 038).

CAPSULE GEOLOGY

Quartz filled shear zones, striking north to northeast, occur in Jurassic to Cretaceous Bowser Lake Group sedimentary rocks. The rocks The rocks consist of coarsely interbedded black argillites, impure greenish quartzites, and fine-grained, grey greywackes which have been tightly folded along a northeast trending axis. The folds have associated shears and faults with quartz veins. Pyrite, galena, sphalerite, chalcopyrite, possibly smithsonite, and secondary hydrozincite occur

in the veins as disseminations and coarse blebs.

Drill hole #1 intersected 3.75 per cent zinc, 0.27 per cent copper, 0.02 per cent lead, 20.6 grams per tonne silver and 0.3 grams per tonne gold over 2.4 metres. Drill hole #3, 180 metres to the northeast, intersected 5.00 per cent zinc, 0.69 per cent copper, 0.10 per cent lead, 37.7 grams per tonne silver and trace gold over 50.8

centimetres (Property File: White, 1969).

**BIBLIOGRAPHY** 

EMPR GEM 1969-71

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR MAP 8
EMPR PF (\*Rpt by G.P.E. White, 1969 in GOLD STAR property - 103I 038)
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM 329

DATE CODED: 1986/09/26 DATE REVISED: 1989/08/25 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 115

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 116 NATIONAL MINERAL INVENTORY: 103I15 Pb1

NAME(S): MARMOT, SUNLIGHT

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I15E BC MAP:

LATITUDE: 54 49 49 N

LONGITUDE: 128 40 07 W ELEVATION: 1200 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Marmot claim.

COMMODITIES: Lead Silver Zinc Gold Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite Chalcopyrite Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant CLASSIFICATION: Hydrothermal Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 080/35N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Argillite

Conglomerate Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

**CAPSULE GEOLOGY** 

The area is underlain by argillite, greywacke and conglomerate of the Jurassic to Cretaceous Bowser Lake Group. Narrow quartz veins lie conformably below a 35 to 75 metre wide conglomerate bed which strikes northeast and dips 50 to 75 degrees southeast. The veins are mineralized with galena, sphalerite, pyrite, pyrrhotite and minor chalcopyrite.

A concordant quartz vein, striking 080 degrees and dipping 35 degrees north, is up to 3.5 metres wide and 12 metres long. The ore reportedly assayed 30 per cent lead, 5 per cent zinc and 480 grams per tonne silver (Minister of Mines Annual Report 1926).

**BIBLIOGRAPHY** 

EMPR AR 1920-42; 1922-49; 1923-48; 1924-48; 1925-70; 1926-73; 1927-64; \*1928-73

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

GSC P 36-17

GSC SUM RPT 1922A, pp. 48,49; 1923A, pp. 42-44

DATE CODED: 1986/10/16 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

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MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6075955 EASTING: 521288

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 117 NATIONAL MINERAL INVENTORY: 103I9 Cu21

NAME(S): PAYSTREAK, GOLD STAR, TRUE BLUE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6052848 EASTING: 533611 LATITUDE: 54 37 19 N

LONGITUDE: 128 28 46 W ELEVATION: 1340 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing and adit, Figure 22 (Geology, Exploration and Mining in British Columbia, 1970).

COMMODITIES: Copper Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Galena Sphalerite

Magnetite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal TYPE: I05 Polym hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

I 01 Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP
Permian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Meta Volcanic

Rhyolite Basic Intrusive

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1919

SAMPLE TYPE: Rock GRADE

COMMODITY Silver 55.0000 Grams per tonne

Copper 1.5000 Per cent

COMMENTS: The sample width is 90 centimetres. REFERENCE: Minister of Mines Annual Report 1919, pages 98,99.

**CAPSULE GEOLOGY** 

Meta-rhyolite of probable Permian age is cut by a 1.5 metre wide basic dyke. A 1 metre east trending shear zone occurs on the hangingwall side of the dyke. The shear contains a 15 to 90 centimetre quartz vein with disseminated chalcopyrite, galena, sphalerite and magnetite. A 90 centimetre sample assayed trace gold, 55 grams per tonne silver, and 1.5 per cent copper and a selected sample assayed 1.4 grams per tonne gold, 233 grams per tonne silver, 7.1 per cent copper and 14 per cent lead (Minister of Mines Annual Report

1919). A nearby showing called "Big Lead" contained chalcopyrite, minor bornite and galena in a basic dyke and metavolcanics.

**BIBLIOGRAPHY** 

EMPR AR \*1919-98,99; 1929-151

EMPR GEM \*1970-195-197

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/12/12 CODED BY: FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/08/12 FIFLD CHECK: N

> MINFILE NUMBER: 103I 117

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 118

NATIONAL MINERAL INVENTORY: 103I15 Cu4

PAGE:

REPORT: RGEN0100

672

NAME(S): KALUM, KEN, BELWAY AND REX, TREADWELL NO. 2, JUNEAU, MALOYA, LAKE SHORE, SHAFT, SOUTH ADIT,

ROAD

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I15W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 54 47 49 N NORTHING: 6072221 LONGITUDE: 128 45 57 W ELEVATION: 150 Metres EASTING: 515055

LOCATION ACCURACY: Within 500M

COMMENTS: North adit. Figure 112 (Fieldwork 1984): located on the east shore of

Kitsumkalum Lake.

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Bornite Specularite Chalcopyrite Gold

ASSOCIATED: Magnetite Pyrite Quartz ALTERATION: Epidote
ALTERATION TYPE: Epidote Sericite Hematite Silica Chlorite Oxidation Sericitic

Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated Stratabound

CLASSIFICATION: Hydrothermal **Epigenetic** Subvolcanic Cu-Ag-Au (As-Sb) 102 Intrusion-related Au pyrrhotite veins

TYPE: L01 S SHAPE: Irregular

MODIFIER: Sheared COMMENTS: Mineralized zone with three showings.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Upper Jurassic GROUP Bowser Lake **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Biotite Chlorite Schist

Muscovite Schist Dacitic Crystal Tuff

Gneiss Andesite Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Bowser Lake PHYSIOGRAPHIC AREA: Kitimat Trench

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1987

SAMPLE TYPE: Drill Core

COMMODITY Silver **GRADE** 

1.1900 Grams per tonne Gold 1.8000 Grams per tonne Copper 0.0500 Per cent

COMMENTS: The sample width is 1.0 metre. REFERENCE: Assessment Report 16158.

**CAPSULE GEOLOGY** 

The area is underlain by metavolcanic and metasedimentary rocks of the Upper Jurassic Bowser Lake Group. The volcanic rock consist of dacitic crystal tuffs, andesites and basalts, which are metamorphosed to muscovite schists, biotite-chlorite schists, The volcanic rocks and gneisses. The units strike east and dip 25 to 35 degrees north and have undergone varying degrees of sericite, epidote and chlorite alteration.

Bornite and chalcopyrite with low gold and silver values occur locally in narrow shear zones in quartz stringers; in quartz-epidote-hematite lenses and veins; in magnetite-rich, partly silicified tuff bands; and along planes of schistosity

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

in the biotite-chlorite schists.

Three showings (Shaft, South Adit and Road) occur over a 240metre, north trending zone. The Shaft occurrence contains malachite along shear zones in metabasalt, which overlies muscovite schist. 2.4 metre sample assayed 14.4 grams per tonne gold and 17.1 grams per tonne silver (Minister of Mines Annual Report 1914). The South Adit occurrence, 110 metres southeast of the shaft, showed stratabound mineralization with magnetite. A grab sample assayed 0.78 per cent copper, 0.3 grams per tonne gold and 14 grams per tonne silver (Fieldwork 1984). The recent Road showing, 85 metres south-south-east of the adit, is mineralized with bornite, specularite and chalco-

quartz, magnetite, pyrite and chalcopyrite. A one metre length of drill core assayed 1.18 grams per tonne gold, 1.19 grams per tonne silver and 0.05 per cent copper (Assessment Report 16158).

#### **BIBLIOGRAPHY**

EMPR AR \*1915-105-107; 1918-49; 1920-41; 1923-49; 1924-48; 1925-70; 1926-74; 1927-63; 1931-36

EMPR ASS RPT \*10450, 11595, 15285, \*15679, \*16158

EMPR BULL 1, 1932, pp. 22,30

EMPR EXPL 1983-503; 1986-C429; 1987-C360,C361

EMPR FIELDWORK \*1984, pp. 303-307 EMPR GEM 1970-96 EMPR MAP 8 GSC MAP 11-1956; 278A; \*1136A; 1385A GSC MEM \*205, pp. 13-15; 329, p. 74 GSC P 36-17, pp. 20,21; 36-20, pp. 47,48 GSC SUM RPT 1922A, p. 49

FIELD CHECK: N DATE CODED: 1986/10/10 CODED BY: LDJ REVISED BY: LDJ DATE REVISED: 1987/12/23 FIELD CHECK: N

MINFILE NUMBER: 103I 118

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 119

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

674

NAME(S): FIVE - MILE CREEK HYDRAULIC, KENDAL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6047384 EASTING: 545145

LATITUDE: 54 34 19 N
LONGITUDE: 128 18 06 W
ELEVATION: 300 Metres
LOCATION ACCURACY: Within 1 KM

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated
CLASSIFICATION: Placer
TYPE: C01 Surficial placers

COMMENTS: Description.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Lower Jurassic Hazelton

> LITHOLOGY: Gravel Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges TERRANE: Stikine

**CAPSULE GEOLOGY** 

The area is underlain by andesite of the Lower Jurassic Hazelton

Group, which is overlain by gravels containing gold dust.

**BIBLIOGRAPHY** 

EMPR AR 1914-127 (Map p.121)

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/09/29 DATE REVISED: 1986/09/29 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 120

NATIONAL MINERAL INVENTORY: 103I15 Cu7

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6069760 EASTING: 518119

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REPORT: RGEN0100

675

NAME(S): CROWN, COPPER, COPPERAS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I15E BC MAP:

LATITUDE: 54 46 29 N

LONGITUDE: 128 43 06 W ELEVATION: 1200 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Crown-granted claims (Minister of Mines Annual Report 1925).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Chalcopyrite

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Disseminated

Epigenetic

Intrusion-related Au pyrrhotite veins TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb) 102 DIMENSION: STRIKE/DIP: 090/40N TREND/PLUNGE:

Concordant

COMMENTS: Mineralized zone width.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation

LITHOLOGY: Hornblende Schist

Sericite Schist

Bowser Lake

**GEOLOGICAL SETTING** 

Jurassic-Cretaceous

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1918 Assay/analysis

SAMPLE TYPE: Grab COMMODITY

**GRADE** Per cent Copper 0.5000

COMMENTS: Sample also assayed trace silver and gold. REFERENCE: Minister of Mines Annual Report 1918, page 49.

**CAPSULE GEOLOGY** 

Sericite and hornblende schist of the Jurassic to Cretaceous Bowser Lake Group are intruded by a  $50\ \text{metre}$  wide diorite mass. Quartz veins mineralized with pyrite and chalcopyrite occur in the diorite and concordant with the metasediments underlying the diorite. The concordant veins are hosted within a 10 metre wide zone, which also contains disseminated chalcopyrite. A sample across the zone assayed 0.5 per cent copper and traces of gold and silver (Minister of Mines Annual Report 1918). The schists strike east and dip 40

degrees north.

**BIBLIOGRAPHY** 

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EMPR MAP 8

GSC MAP 11-1956; 1136A; 1385A; 278A GSC MEM 329

GSC P 36-20, pp. 41,48

DATE CODED: 1986/10/16 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1986/10/16 REVISED BY: I D.I FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 121

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Omineca

REPORT: RGEN0100

676

NAME(S): LYNDA, SNO, FIDDLER

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 103I16W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 45 39 N

NORTHING: 6068320 EASTING: 535820 LONGITUDE: 128 26 36 W ELEVATION: 1030 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Figure 2 (Assessment Report 866).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Chalcopyrite **Pyrite** Pyrite

ALTERATION: K-Feldspar Sericite Limonite Jarosite Silica

ALTERATION TYPE: Potassic Sericitic Oxidation Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

IT
CHARACTER: Stockwork
CLASSIFICATION: Porphyry
TYPE: L05
Porphyry Mo (Low F- type) Disseminated

Igneous-contact Hvdrothermal

104 Porphyry Cu ± Mo ± Au

SHAPE: Regular DIMENSION: 0460 x 0300 x 0150 Metres STRIKE/DIP: 140/50W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Jurassic Jurassic-Cretaceous Cretaceous-Tertiary

Hazelton Undefined Formation **Bowser Lake** Undefined Formation

Coast Plutonic Complex

LITHOLOGY: Porphyritic Granite

Granodiorite

Quartz Feldspar Biotite Porphyry

Greywacke Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

YFAR: 1966

CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis

**COMMODITY GRADE** 

Per cent Copper 0.0400 0.0900Molybdenum Per cent

COMMENTS: The sample width is 20.0 metres.

REFERENCE: Assessment Report 866.

CAPSULE GEOLOGY

Molybdenite occurs in the southern half of a granitic intrusive, measuring 750 by 150 metres, localized at the contact between granodiorite of the Legate Creek apophysis of the Cretaceous to Tertiary Coast Plutonic Complex and volcanics and sediments of the Hazelton and Bowser Lake Groups. The intrusive, which strikes 140 degrees and dips 45 to 50 degrees southwest, is in contact with a quartz-feldspar biotite porphyry dyke, granodiorite and porphyritic granite, along the southwest hangingwall. The regional granodiorites lie to the northeast and andesites and grey-

wackes lie to the southwest. Molybdenite and minor chalcopyrite mineralization occurs over a length of 460 metres, a width of 150 metres and through a vertical range of 300 metres. It is closely associated with the granitic intrusive and occurs in narrow quartz-pyrite veins, in high grade multiple-banded quartz-pyrite veins (up to 30 centimetres wide), in silicified shears, disseminated and as fracture fillings. A north-south fault truncates

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

the mineralized zone to the east. Alteration includes wide spread sericitization and local K-feldspathization.

A 26 metre chip sample assayed 0.09 per cent molybdenite and 0.04 per cent copper (Assessment Report 866). Two drill holes, 300 metres apart, intersected over 50 metres of stockwork mineralized with molybdenite. Float samples assayed up to

1.58 per cent molybdenite (Assessment Report 866).

**BIBLIOGRAPHY** 

EMPR AR 1966-80; 1967-83 EMPR ASS RPT 842, \*866, 8107, 10023 EMPR EXPL 1980-399,400

EMPR MAP 8; 69-1
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GSC MAP 11-1956; 278A; \*1136A; 1385A

GSC MEM 329

CIM Special Vol. 15, 1976, Map B

DATE CODED: 1986/10/20 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 121

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 122

NAME(S): **WOMO**, DUG

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I16W BC MAP:

LATITUDE: 54 46 49 N

LONGITUDE: 128 22 16 W ELEVATION: 1350 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized area, Figure 2 (Assessment Report 10440).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz ALTERATION TYPE: Silicific'n Chalcopyrite Carbonate

Carbonate

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stockwork Disseminated CLASSIFICATION: Porphyry Igneous-contact TYPE: L05 Porphyry Mo (Low F- type)

SHAPE: Irregular

MODIFIER: Fractured

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

Jurassic-Cretaceous

STRATIGRAPHIC AGE <u>GROUP</u> Bowser Lake

Cretaceous-Tertiary

**FORMATION** Undefined Formation

**Pyrite** 

IGNEOUS/METAMORPHIC/OTHER

PAGE:

NATIONAL MINERAL INVENTORY: 103I16 Cu1

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6070523 EASTING: 540448

REPORT: RGEN0100

678

Coast Plutonic Complex

Porphyry Cu ± Mo ± Au

LITHOLOGY: Siltstone

Hornfels

Quartz Feldspar Porphyry Biotite Quartz Feldspar Dike

Quartz Diorite

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Bowser Lake

Plutonic Rocks METAMORPHIC TYPE: Contact

PHYSIOGRAPHIC AREA: Hazelton Ranges

GRADE: Hornfels

RELATIONSHIP:

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis

YFAR: 1981

104

COMMODITY

**GRADE** 

Copper Molybdenum

Per cent 0.5300 Per cent 0.0490

COMMENTS: The molybdenum and copper samples are 2.4 and 4.5 metres wide

respectively

REFERENCE: Assessment Report 10440.

CAPSULE GEOLOGY

A zone, measuring 1000 by 800 metres of molybdenite-bearing quartz veins, straddles a regional contact between quartz diorite to granodiorite rocks of the Cretaceous to Tertiary Coast Plutonic Complex and hornfelsic siltstones of the Jurassic to Cretaceous Bowser Lake Group. A 50 to 150 metre wide, northwest trending biotite-quartz feldspar dyke cuts the sediments.

Molybdenite and chalcopyrite occur as disseminations and as fracture and shear zone fillings within the fractured, silicified and carbonatized areas of the porphyry and sediments.

The mineralization is associated with east-west striking quartz veins. Later intense shearing and carbonatization, with a consistent north-south trend, have locally truncated and redistributed the mineralized structures. Chip sampling returned a value of 0.049 per cent molybdenum over 2.4 metres and 0.53 per cent copper over 4.5 metres (Assessment Report 10440).

> MINFILE NUMBER: 103I 122

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 798, 8374, 9524, \*10440 EMPR EXPL 1980-400 EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/10/20 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 123

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

680

NAME(S): LADY LUCK 7

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l07E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6027430 EASTING: 521715 LATITUDE: 54 23 39 N LONGITUDE: 128 39 56 W ELEVATION: 120 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 3 (Assessment Report 3585).

COMMODITIES: Copper Molybdenum

**MINERALS** 

Molybdenite **Pyrite** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Epidote ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Skarn TYPE: K01 Replacement

Cu skarn K07 Mo skarn

SHAPE: Irregular DIMENSION: STRIKE/DIP: 090/50N TREND/PLUNGE: COMMENTS: Strata attitude.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**GRO**UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

STRATIGRAPHIC AGE Paleozoic **Undefined Group** Unnamed/Unknown Formation

LITHOLOGY: Limestone

Greenstone Shale Diorite Granodiorite Skarn Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Stikine

DATE REVISED: 1986/10/08

**CAPSULE GEOLOGY** 

Paleozoic volcanics, consisting of greenstone, and sediments, consisting of limestone, quartzite and shale, are intruded by diorite and granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. The sediments are altered to skarn composed of epidote and garnet with minor pyrite, chalcopyrite, and molybdenite as disseminations and small patches.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3585

EMPR GEM 1971-113; 1972-499 EMPR MAP 8 GSC MAP 11-1956; 1136A; 1385A GSC MEM 329

Placer Dome File

DATE CODED: 1986/10/08 CODED BY: LDJ REVISED BY: LDJ

> MINFILE NUMBER: 103I 123

FIELD CHECK: N

FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 124

NATIONAL MINERAL INVENTORY:

NAME(S): LUCKY FORTUNE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l07E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

681

NORTHING: 6028831 EASTING: 523872

LATITUDE: 54 24 24 N
LONGITUDE: 128 37 56 W
ELEVATION: 220 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map 2 (Assessment Report 3585).

Molybdenum

COMMODITIES: Copper

Iron

**MINERALS** 

SIGNIFICANT: Chalcopyrite ALTERATION: Epidote ALTERATION TYPE: Skarn

Molybdenite

Magnetite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Skarn TYPE: K01 K03 Cu skarn

Replacement Industrial Min.

K07 Mo skarn

Fe skarn

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 002/70E

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Paleozoic

Cretaceous-Tertiary

**GRO**UP Unnamed/Unknown Group

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Limestone

Diorite

Granodiorite Skarn Quartzite

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Stikine Plutonic Rocks

**CAPSULE GEOLOGY** 

Paleozoic sediments consisting of limestone, quartzite,

and shale are intruded by diorite and later granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. The sediments are altered to skarn composed of epidote and garnet with disseminated and

patchy chalcopyrite, molybdenite and magnetite.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*3585

EMPR GEM 1971-113; 1972-499

EMPR MAP 8 GSC MAP 11-1956; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/10/08 CODED BY: LDJ FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/08/28 FIELD CHECK: N

> MINFILE NUMBER: 1031 124

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 125

NATIONAL MINERAL INVENTORY: 103I9 Cu14

PAGE:

NORTHING: 6043842 EASTING: 536194

REPORT: RGEN0100

682

NAME(S): WHITE BLUFFS, CROESUS 14, CROESUS 16, CROESUS 43, CROESUS PORPHYRY

STATUS: Showing MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103109W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 32 27 N LONGITUDE: 128 26 26 W

ELEVATION: 320 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Figure 8 (Assessment Report 12072).

COMMODITIES: Copper Silver Gold Tungsten

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite **Bornite** Molybdenite Scheelite

ASSOCIATED: Quartz ALTERATION: Chlorite Sericite **Epidote** Silica Malachite Kaolinite

ALTERATION TYPE: Chloritic Silicific'n Argillic Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork Disseminated Vein

CLASSIFICATION: Porphyry
TYPE: L04 Porphyry Cu ± Mo ± Au

SHAPE: Irregular

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Pegmatite

Quartz Feldspar Porphyry

Quartz Monzonite Breccia Quartz Diorite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1983 CATEGORY: Assay/analysis

> SAMPLE TYPE: Grab **GRADE**

COMMODITY Grams per tonne Silver 15.4000 Gold 1.7000 Grams per tonne 0.2000 Per cent

Copper REFERENCE: Assessment Report 12072.

**CAPSULE GEOLOGY** 

The area is underlain by plutonic rocks of the Cretaceous to Tertiary Coast Plutonic Complex. The oldest rocks include coarse pegmatite and related quartz feldspar porphyry, which grades to quartz diorite porphyry. These rocks are intruded by quartz monzo-

nite and a related igneous breccia. All the rocks are intruded by an east-striking, 5 metre wide quartz porphyry dyke.

Pyrite, chalcopyrite and locally, bornite and molybdenite, occur as fracture fillings and disseminations. Stockworks of quartz veinlets with selvages of sulphides are also present within leucocratic to pegmatitic phases of the intrusive. Alteration accompanying the mineralization includes sericitization,

kaolinization and chloritization.

Trenching has exposed low grade, porphyry-style mineralization over a 400 metre by 200 metre area. A grab sample from one trench assayed 1.7 grams per tonne gold, 15.4 grams per tonne silver and 0.2 per cent copper (Assessment Report 12072). Scheelite has also been reported in the area.

### GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

```
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EMPR ASS RPT 1234, 1942, *12072, *17260

EMPR BULL 10 (Rev), p. 58

EMPR EXPL 1983-305; 1988-C201

EMPR GEM 1969-77,78; 1970-194,195; 1971-114; 1972-500,501

EMPR MAP 8; 69-1
EMPR OF 1991-17
EMPR PF (Rpt by *W.M. Sharp, 1966 in Kleanza Mines Ltd. Prospectus;
*McClintock, J.A. (1987): Report on the Croesus Gold Property in
      Prospectus for Fircrest Resources Ltd., Apr.21, 1988; Various
      sketch Maps)
EMR MP CORPFILE (Kendal Mining and Exploration Company Limited)
GSC EC GEOL 17, p. 43
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM *205, pp. 36,37; 329, p. 81
GSC P 36-17, p. 64
CIM Special Vol. 15, Table 1 (by S.H. Pilcher and J.J. McDougall,
#110, 1976)

N MINER June 25, 1942, p. 26
V STOCKWATCH Aug.17, 1987
Chevron File
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DATE CODED: 1986/12/02 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/11 REVISED BY: LLD FIELD CHECK: N

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 126

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

684

NAME(S): IRON CAP

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l07W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 27 59 N
LONGITUDE: 128 48 06 W
ELEVATION: 600 Metres
LOCATION ACCURACY: Within 1 KM NORTHING: 6035432 EASTING: 512855

COMMENTS: Description from Minister of Mines Annual Report 1927, page 62.

COMMODITIES: Iron Copper

**MINERALS** 

SIGNIFICANT: Magnetite MINERALIZATION AGE: Unknown Chalcopyrite **Pyrite** 

DEPOSIT

CHARACTER: Massive
CLASSIFICATION: Replacement
TYPE: K03 Fe skarn

Industrial Min.

K01 Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

<u>GROU</u>P STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Unnamed/Unknown Group Unnamed/Unknown Formation Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Greenstone

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Stikine Plutonic Rocks

**CAPSULE GEOLOGY** 

A small lens of massive magnetite, chalcopyrite, and

pyrite occurs as a replacement in Paleozoic greenstone, adjacent to granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex.

**BIBLIOGRAPHY** 

EMPR AR 1927-62 EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/10/01 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 126

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 127

NATIONAL MINERAL INVENTORY: 103I15 Au8

NAME(S): **SCENIC**, LOG CABIN

STATUS: Showing REGIONS: British Columbia NTS MAP: 103I15E BC MAP: MINING DIVISION: Skeena Omineca UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

685

LATITUDE: 54 45 34 N

NORTHING: 6068111 EASTING: 528225

LONGITUDE: 128 33 41 W ELEVATION: 1370 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Summit of pass.

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite ASSOCIATED: Quartz

ALTERATION: Silica
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia
CLASSIFICATION: Hydrothermal Epigenetic

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE
Jurassic-Cretaceous

GROUP
Bowser Lake

FORMATION
Undefined Formation

IGNEOUS/METAMORPHIC/OTHER
Undefined Formation

LITHOLOGY: Argillite Greenstone

Greenston Diorite

GEOLOGICAL SETTING

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

**INVENTORY** 

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1928

SAMPLE TYPE: Chip

COMMODITY
Silver
Gold
GRADE
137.0000
Grams per tonne
18.5000
Grams per tonne

Copper 0.5000 Per cent

COMMENTS: The sample width is 1.5 metres. REFERENCE: Minister of Mines Annual Report 1928, pages 74,75.

**CAPSULE GEOLOGY** 

Argillites of the Jurassic to Cretaceous Bowser Lake Group are intruded by numerous greenstone dykes. Diorite of the Cretaceous to Tertiary Coast Plutonic Complex lies to the south. On the west side of the divide, is a 2 metre wide silicified zone in the sediments. A 20 centimetre wide quartz vein mineralized with pyrite and chalcopyrite occurs on the hangingwall. At the divide, a vein of brecciated quartz and country rock is mineralized with galena, sphalerite and chalcopyrite.

East of the divide, a 2.4 to 3.0 metre stringer zone contains pyrite and minor chalcopyrite. A 1.5 metre sample assayed 18.5 grams per tonne gold, 137 grams per tonne silver and 0.5 per cent copper (Minister of Mines Annual Report 1928).

**BIBLIOGRAPHY** 

EMPR AR 1921-44; \*1922-49; 1923-48; 1924-48; 1925-70; 1926-72,73;

\*1928-74,75; 1931-36

EMPR MAP 8

GSC MAP 278A; 11-1956; 1136A; 1385A

GSC MEM 329

GSC P 36-20, p. 48; 36-17

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC SUM RPT 1923A, pp. 42-44

DATE CODED: 1986/10/16 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1031 127

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 128 NATIONAL MINERAL INVENTORY: 103I16 Zn2

NAME(S): BIG OLIVER

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I16E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 54 59 N

NORTHING: 6085767 EASTING: 550105

LONGITUDE: 128 13 06 W ELEVATION: 700 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1929, page 154.

COMMODITIES: Zinc Gold Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Chalcopyrite **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au

TYPE: I05 F SHAPE: Irregular MODIFIER: Sheared

STRIKE/DIP: 055/40S TREND/PLUNGE: DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Sandstone

Argillite Conglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Bowser Lake PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

A shear zone, striking 055 degrees and dipping 40 degrees southeast, cuts sandstone of the Jurassic to Cretaceous Bowser Lake Group. The sandstone is overlain by conglomerate and argillite. shear zone contains quartz and pyrite over a 15 centimetre width. Assays revealed trace gold. Fifteen metres to the east is a quartz vein sparsely mineralized with sphalerite and chalcopyrite over

45 centimetres.

**BIBLIOGRAPHY** 

EMPR AR \*1929-154

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

GSC P 36-17

DATE CODED: 1986/10/22 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 129

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

688

NAME(S): MARGARITE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I16E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6086064 EASTING: 549034

LATITUDE: 54 55 09 N
LONGITUDE: 128 14 06 W
ELEVATION: 880 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1927, page 154.

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

SIT
CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: l05 Polyme Epigenetic

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE
Jurassic-Cretaceous

GROUP
Bowser Lake **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Sandstone

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

**CAPSULE GEOLOGY** 

A 2 metre, north striking, shallow dipping oxidized zone occurs in sandstones and argillites of the Jurassic to Cretaceous Bowser Lake Group. A 30 centimetre sample of a vein containing

pyrite assayed trace gold and silver.

**BIBLIOGRAPHY** 

EMPR AR \*1929-154

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

GSC P 36-17

DATE CODED: 1986/10/22 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> 103I 129 MINFILE NUMBER:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 130 NATIONAL MINERAL INVENTORY: 103I9 Cu12

NAME(S): **KEELER** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l08E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 29 54 N

LONGITUDE: 128 01 16 W ELEVATION: 1520 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description (Property File, Bell, 1963).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcocite ALTERATION: Hematite ALTERATION TYPE: Oxidation **Bornite** Copper Azurite Malachite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated

CLASSIFICATION: Replacement TYPE: D03 Volca Volcanic redbed Cu L01

Subvolcanic Cu-Ag-Au (As-Sb) STRIKE/DIP: 135/40E DIMENSION: TRENĎ/PLUNGE:

COMMENTS: Discontinuous.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Undefined Formation

LITHOLOGY: Feldspar Porphyry

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1963 Assay/analysis SAMPLE TYPE: Rock

COMMODITY **GRADE** 

Silver 12.3400 Grams per tonne

1.5500 Per cent

Copper COMMENTS: The sample width is 10.7 metres.

REFERENCE: Property File: Report by T. Bell, 1963 (see 103I 089).

**CAPSULE GEOLOGY** 

Chalcocite and lesser bornite, native copper, azurite and malachite occur as veinlets and disseminations within a 40 degree east dipping feldspar porphyry flow of the Jurassic Hazelton Group. The mineralization occurs discontinuously over 180 metres in

a northwest direction. Sampling of a trench assayed 1.55 per cent copper and 12.34 grams per tonne silver over 10.7 metres (Property File - Bell, 1963).

**BIBLIOGRAPHY** 

EMPR AR \*1963-24 EMPR MAP 8; 69-1

EMPR PF (\*Rpts by James, D.H. 1963; Bell, T. 1963; Campbell, D.D. 1964)
GSC MAP 11-1956; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/11/06 CODED BY: LDJ

FIELD CHECK: N DATE REVISED: 1989/08/30 REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 130

PAGE:

NORTHING: 6039410 EASTING: 563396

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 131 NATIONAL MINERAL INVENTORY: 10318 Cu5

NAME(S): COPPER QUEEN, SURPRISE, BLUE BELL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l08W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 21 59 N NORTHING: 6024491 LONGITUDE: 128 20 06 W ELEVATION: 1400 Metres EASTING: 543206

LOCATION ACCURACY: Within 500M

COMMENTS: Description from Geological Survey of Canada Map 36-17.

COMMODITIES: Copper 7inc Silver Iron I ead

Gold

**MINERALS** SIGNIFICANT: Chalcopyrite Pyrite Galena Sphalerite **Bornite** 

Pyrrhotite Magnetite

ASSOCIATED: Quartz ALTERATION: Malachite Azurite **Epidote** Garnet ALTERATION TYPE: Skarn Oxidation

MINERALIZATION AGE: Unknown

DEPOSIT CHARACTER: Vein Disseminated Massive

CLASSIFICATION: Skarn TYPE: K04 Replacement Igneous-contact Industrial Min. Au skarn K<sub>01</sub>

Cu skarn K02 Pb-Zn skarn K03 Fe skarn

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 360/70E TREND/PLUNGE: COMMENTS: Discontinuous skarn zones.

HOST ROCK DOMINANT HOSTROCK: Volcanic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Permian-Triassic Unnamed/Unknown Group Unnamed/Unknown Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite Tuff Rhvolite Tuff

Limestone Granodiorite

HOSTROCK COMMENTS: Mafic volcanic rocks are Triassic and older in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Ranges Plutonic Rocks

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1929 Assay/analysis

SAMPLE TYPE: Chip

**COMMODITY GRADE** 223.0<del>0</del>00 Silver Grams per tonne Copper 1.0000 Per cent Lead 7.0000 Per cent

Zinc COMMENTS: The sample width is 46.0 centimetres.

REFERENCE: Minister of Mines Annual Report 1929, page 77.

**CAPSULE GEOLOGY** 

A north trending unit of andesite-rhyolite tuff, with interbedded limestone masses, occurs in granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. The volcaniclastics, which are likely late Paleozoic (Triassic and older) in age, are weakly to intensely foliated, striking north-northwest and dipping 70 to 80 degrees east. Along the contact with the intrusives, discontinuous skarn zones contain magnetite, chalcopyrite, galena, sphalerite, bornite, pyrite and pyrrhotite. Epidote and garnet are gangue minerals. The mineralized zones occurring over an area about 600 by 30 metres, are replacements of the limestone. Mineralization occurs as dissemination, patches and in quartz veins. A 46 centimetre chip

11.0000

Per cent

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

sample of one zone assayed trace gold, 223 grams per tonne silver, 1 per cent copper, 7 per cent lead and 11 per cent zinc (Minister of Mines Annual Report 1929). Magnetite masses, up to 2.4 metres wide, occur over several hundred metres to the south.

**BIBLIOGRAPHY** 

EMPR AR 1922-50; 1923-49; 1924-49; 1925-71,72; \*1929-77; \*1930-79

EMPR ASS RPT 14076 EMPR EXPL 1984-376; 1985-C372

GSC MAP 278A; 11-1956; 1136A; 1385A GSC MEM 205, p. 5; 329

GSC P 36-17

GSC SUM RPT \*1926A, pp. 42,43

DATE CODED: 1986/10/24 DATE REVISED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 1031 131

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 132

NATIONAL MINERAL INVENTORY: 103I9 Cu31

PAGE:

NORTHING: 6053337 EASTING: 552619

REPORT: RGEN0100

692

NAME(S): CALENDAR

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 37 29 N
LONGITUDE: 128 11 06 W
ELEVATION: 1350 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1925, page 128.

COMMODITIES: Copper Lead

**MINERALS** 

Tetrahedrite

SIGNIFICANT: Galena MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: 105 Po

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Legate Creek Apophysis

LITHOLOGY: Granodiorite

Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

The area is underlain by the Cretaceous to Tertiary Legate Creek

apophysis, consisting of granodiorite and quartz monzonite.

Tetrahedrite and galena are reported to occur in the intrusive rocks.

**BIBLIOGRAPHY** 

EMPR AR 1925-128

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/11/24 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/28 REVISED BY: LLD FIELD CHECK: N

> 103I 132 MINFILE NUMBER:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 133

NAME(S): **JACKIE** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 38 39 N LONGITUDE: 128 28 06 W ELEVATION: 570 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1928, page 145.

COMMODITIES: Zinc. Silver

**MINERALS** 

SIGNIFICANT: Sphalerite ALTERATION: Silica ALTERATION TYPE: Silicific'n Pyrite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: 105 Polym

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Sheared

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Triassic Unnamed/Unknown Informal

LITHOLOGY: Schist

Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1928 Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Silver 41.1000 7.0000 Grams per tonne Per cent

Zinc REFERENCE: Minister of Mines Annual Report 1928, page 145.

**CAPSULE GEOLOGY** 

A shear zone in silicified volcanics and schists of probable Triassic age, is mineralized with sphalerite, pyrite and galena. shear zone, striking 160 degrees and dipping northeast is about 100 metres long and 1 metre wide. A sample assayed 7 per cent zinc, 41.1 grams per tonne silver and trace gold (Minister of Mines Annual Report 1928). Another showing occurs about 355 metres higher in

elevation on an adjoining creek to the south.

**BIBLIOGRAPHY** 

EMPR AR \*1928-145 EMPR MAP 8; 69-1

EMPR PF (Sketch of Mineral Claims in Usk District,

J. Willman, 1929) GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

GSC P 36-20, p. 23

DATE CODED: 1986/12/16 DATE REVISED: 1989/08/28 CODED BY: REVISED BY: LLD

FIFLD CHECK: N

MINFILE NUMBER: 103I 133

FIELD CHECK: N

PAGE:

NATIONAL MINERAL INVENTORY: 103I9 Zn1

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6055326 EASTING: 534310

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 134 NATIONAL MINERAL INVENTORY: 103I16 Au3

NAME(S): BLACK BEAR

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I16W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 52 44 N LONGITUDE: 128 27 06 W ELEVATION: 410 Metres NORTHING: 6081452 EASTING: 535181

LOCATION ACCURACY: Within 500M

COMMENTS: Symbol #89 (Geological Survey of Canada Map 36-17); description

(Minister of Mines Annual Report 1930).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au STRIKE/DIP: 135/45E DIMENSION: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Argillite Conglomerate

Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1930 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY **GRADE** 

Grams per tonne Grams per tonne Silver 44.6000 Gold 0.3400 1.1000 Per cent Copper

COMMENTS: The results were obtained from a "selected sample". REFERENCE: Minister of Mines Annual Report 1930, page 138.

**CAPSULE GEOLOGY** 

The area is underlain by argillites, conglomerates and quartzites of the Jurassic to Cretaceous Bowser Lake Group. A  $135\ degree$ striking, 45 degree northeast dipping quartz vein occurs in the sediments. The vein is up to 0.8 metres wide and is mineralized with chalcopyrite. A selected sample assayed 1.1 per cent copper, 44.6 grams per tonne silver and 0.34 grams per tonne gold (Minister of

Mines Annual Report 1930).

**BIBLIOGRAPHY** 

EMPR AR 1930-138

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329 GSC P 36-17

DATE CODED: 1986/10/20 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIFLD CHECK: N

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 135

NATIONAL MINERAL INVENTORY: 103I15 Pb2

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6074257 EASTING: 521564

PAGE:

REPORT: RGEN0100

695

NAME(S): GOAT

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I15E BC MAP:

LATITUDE: 54 48 54 N

LONGITUDE: 128 39 52 W ELEVATION: 1370 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Goat claim.

> COMMODITIES: Lead Zinc Silver

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE
Jurassic-Cretaceous GROUP Bowser Lake **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1920 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

686.0000 Grams per tonne Silver

49.0000 Per cent I ead COMMENTS: A description of the sample is not available.

REFERENCE: Property File: Assays, 1926, no author.

**CAPSULE GEOLOGY** 

A concordant quartz vein in argillite of the Jurassic to Cretaceous Bowser Lake Group contains galena and sphalerite. The vein is 5 to 15 centimetres wide and is exposed along the face of a bluff for about 30 metres. A sample assayed 49 per cent lead and 686

grams per tonne silver (Property File: Assays, 1926).

**BIBLIOGRAPHY** 

EMPR AR 1920-41; 1921-43; 1923-47; \*1926-73

EMPR ASS RPT 21742 EMPR MAP 8; 69-1 EMPR OF 1994-14

EMPR PF (Assays, 1926) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

GSC P 36-17

GSC SUM RPT 1923A, pp. 42-44

DATE CODED: 1986/10/16 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 136

NATIONAL MINERAL INVENTORY: 10319 Au1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6044589

EASTING: 536889

REPORT: RGEN0100

696

NAME(S): **BLACK BULL**, GEM, LUCKY BOY, IDA, BLUEBIRD, CROESUS 3, CROESUS 4, CROESUS, GOLD CROESUS,

BLUE BIRD. LUCKY B

STATUS: Past Producer Underground MINING DIVISION: Omineca

REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 32 51 N

LONGITUDE: 128 25 47 W ELEVATION: 686 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Figure 8 (Assessment Report 12072).

COMMODITIES: Gold Tungsten Silver Copper Lead

7inc

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Tetrahedrite Telluride Scheelite

Sphalerite Galena

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 102 105 Intrusion-related Au pyrrhotite veins Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Faulted

DIMENSION: 0300 x 0120 x 0001 Metres STRIKE/DIP: 020/70E TREND/PLUNGE:

HOST ROCK DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** 

Hazelton Undefined Formation Jurassic Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite

Quartz Diorite Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: GEM REPORT ON: Y

> YEAR: 1971 CATEGORY: Indicated

QUANTITY: 4355 Tonnes

COMMODITY Silver 59.3100 Grams per tonne

26.0600 Gold Grams per tonne

COMMENTS: Weighted-average of sampling of 2 adits over a length of 34 metres and width of 0.4 metre.

REFERENCE: Property File - Report by W.M. Sharp, 1971.

CAPSULE GEOLOGY

Andesite of the Jurassic Hazelton Group is intruded by quartz Andesite of the Jurassic Hazelton Group is intruded by quartz diorites, quartz monzonites, and hybrid rocks of the Cretaceous to Tertiary Coast Plutonic Complex. The main showing is a quartz-pyrite vein with minor chalcopyrite. The vein, which strikes 010 to 026 degrees and dips 60 to 72 degrees east, follows a fault zone near the contact between the volcanics and intrusives. The vein ranges from 15 to 50 centimetres in width, and is exposed intermittently along the strike length for 300 metres and about 120 metres downdip.

Adits 1 and 2 intersect the best mineralization. In adit 1, an ore-shoot measured 40 metres long and averaged 40 centimetres wide.
A 30 centimetre sample assayed 14 grams per tonne gold and 7 grams per tonne silver (Geology, Exploration and Mining in British

per tonne silver (Geology, Exploration and Mining in British Columbia, 1971). In 1988, a chip sample from a vein in drift #2 assayed trace to 105.9 grams per tonne gold (Assessment Report

17260).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Laboratory tests indicate the gold and silver are present as tellurides which occur as tiny inclusions and fillings in spongy pyrite. Minor scheelite, galena, sphalerite and tetrahedrite has also been reported. In 1940, about 2 tonnes of ore was shipped from the Black Bull Group (includes the Gem and Blue Bird claims). This ore shipment produced 31 grams of gold and 62 grams of silver.

Reserves of about 4355 tonnes averaging 26.06 grams per tonne gold and 59.31 grams per tonne silver were calculated over a length of 34 metres and a width of 0.4 metres for the Gem vein (Sharp, 1971). Erickson Gold Miing drilled (20 holes, 1917 metres) the property in 1988.

#### **BIBLIOGRAPHY**

EMPR AR 1938-B37-38; 1939-69; 1940-23,42,54; 1941-24,41; 1942-31; \*1946-85,86; 1967-81; 1968-107 EMPR ASS RPT 1234, 12072, \*17260 EMPR BULL 10 (Rev), p. 58 EMPR EXPL 1983-502; 1988-C201 EMPR GEM 1969-77,78; \*1971-114-116; 1972-500,501 EMPR MAP 8; 69-1 EMPR OF 1991-17

EMPR OF 1991-17

EMPR PF (Rpts by \*W.M. Sharp, 1966 in Kleanza Mines Ltd.Prospectus;

\*W.M. Sharp, 1971; Sketch Maps by W.H. White, 1946 and J.T. Mandy,

1940; Prospectus for Fircrest Resources Ltd., Apr.20, 1988, p. 8; Base, R. (1990): Brief Economic Analysis) EMR MIN BULL MR 223 B.C. 290 EMR MP CORPFILE (Kendal Mining and Exploration Company Limited; Cathedral Minerals Ltd.) GSC EC GEOL 17, p. 43 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*205, p. 37; 329 GSC P 36-17, p. 65 CANMET IR 72-20; 74-4 GCNL #12, 1983 V STOCKWATCH Aug.17, 1987 Placer Dome File Chevron File

DATE CODED: 1986/12/02 DATE REVISED: 1989/08/11

CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103I 136

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 137

NATIONAL MINERAL INVENTORY: 103I9 Cu17

PAGE:

REPORT: RGEN0100

698

NAME(S): LITTLE WONDER

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6056585 EASTING: 537168

LATITUDE: 54 39 19 N
LONGITUDE: 128 25 26 W
ELEVATION: 300 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1930, page 136.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Pyrite Specularite

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

Subvolcanic Cu-Ag-Au (As-Sb)

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L01 Subvo
SHAPE: Irregular
MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Triassic IGNEOUS/METAMORPHIC/OTHER FORMATION Unnamed/Unknown Informal

LITHOLOGY: Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

CAPSULE GEOLOGY

A quartz vein, up to 1.5 metres wide, occurs in sheared

volcanic rock of probable Triassic age. The veins are mineralized with probable chalcopyrite. Higher in elevation

are altered and silicified rocks containing pyrite and specularite.

**BIBLIOGRAPHY** 

EMPR AR 1930-136

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/12/16 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 103I 137

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 138

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 6012352 EASTING: 533006

REPORT: RGEN0100

699

NAME(S): **R & F** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l08W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 15 29 N
LONGITUDE: 128 29 36 W
ELEVATION: 300 Metres
LOCATION ACCURACY: Within 1 KM COMMENTS: Claims

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary **FORMATION** IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex

LITHOLOGY: Granodiorite Quartz Diorite Diorite

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline
TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Kitimat Ranges

**CAPSULE GEOLOGY** 

The area is underlain by granodiorite, diorite, and quartz diorite of the Cretaceous to Tertiary Coast Plutonic Complex.

Details of reported mineralization are not available.

**BIBLIOGRAPHY** 

EMPR AR 1967-53

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/10/27 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/28 REVISED BY: LLD FIELD CHECK: N

> 103I 138 MINFILE NUMBER:

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 139 NATIONAL MINERAL INVENTORY: 103I9 Ag11

NAME(S): INDEPENDENCE, LEGAL TENDER

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6053668 EASTING: 554409 LATITUDE: 54 37 39 N

LONGITUDE: 128 09 26 W ELEVATION: 1500 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions; old campsite, Map 1 (Assessment Report 8777).

COMMODITIES: Silver Gold 7inc Copper Lead

**MINERALS** 

**Pyrite** Tetrahedrite Arsenopyrite Galena

SIGNIFICANT: Chalcopyrite Bornite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic TYPE: L01 Su

105 Subvolcanic Cu-Ag-Au (As-Sb) Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

MODIFIER: Sheared DIMENSION: STRIKE/DIP: 155/80W TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Plutonic

**FORMATION GROUP** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation Cretaceous-Tertiary Legate Creek Apophysis

LITHOLOGY: Andesite

Quartz Monzonite Granophyre

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine Plutonic Rocks

INVENTORY

ORE ZONE: FLOAT REPORT ON: N

> CATEGORY: YFAR: 1919

> Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 1989.0000 Grams per tonne Gold 4.8000 Grams per tonne

0.2000 Per cent

Copper

COMMENTS: Higher grade float sample found in 1980. REFERENCE: Minister of Mines Annual Report 1919.

CAPSULE GEOLOGY

Andesite of the Jurassic Hazelton Group is intruded by the Legate Creek apophysis of the Cretaceous to Tertiary Coast Plutonic Complex. The central phase of the apophysis consists of adamellite

and granophyre.

A shear zone, trending northwest and dipping steeply east, occurs in andesite and contains quartz veins up to 3 metres wide. Mineralization consists of chalcopyrite, tetrahedrite, pyrite, arsenopyrite, sphalerite, bornite and galena. A 1.2 metre sample assayed trace gold, 0.5 per cent copper and 702.9 grams per tonne silver (Minister of Mines Annual Report 1919).

About 300 metres downslope, a quartz vein containing galena

assayed 1989 grams per tonne silver, 4.8 grams per tonne gold and 0.2 per cent copper (Minister of Mines Annual Report 1919). A downslope float sample assayed 4613.5 grams per tonne silver, 17.3 grams per tonne gold, 5.93 per cent lead, 8.21 per cent zinc and 0.74 per cent

copper (Assessment Report 8777).

**BIBLIOGRAPHY** 

EMPR AR \*1919-100; 1920-83; 1923-105; 1924-93; \*1925-129

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 8777
EMPR EXPL 1980-392,393
EMPR MAP 8; 69-1
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM 329
GSC P 36-20, pp. 32,33; 36-17

DATE CODED: 1986/11/14 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 139

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 140

NATIONAL MINERAL INVENTORY: 103I9 Cu26

PAGE:

REPORT: RGEN0100

702

NAME(S): HIDDEN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83) NORTHING: 6055544 EASTING: 556179

LATITUDE: 54 38 39 N LONGITUDE: 128 07 46 W ELEVATION: 1130 Metres

LOCATION ACCURACY: Within 1 KM COMMENTS: Description and Geological Survey of Canada Map 36-17; old MINFILE locates the showing 2.3 kilometres to the south.

COMMODITIES: Copper Lead 7inc

**MINERALS** 

SIGNIFICANT: Tetrahedrite Galena Sphalerite

ASSOCIATED: Quartz ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: 105 Po Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Legate Creek Apophysis

LITHOLOGY: Pyroxene Granodiorite Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

A pyroxene[C quartz diorite stock of the Cretaceous to Tertiary Coast Plutonic Complex intrudes Jurassic Hazelton Group volcanics. A quartz vein, about 15 centimetres wide, occurs along the hangingwall of a fissure within a pyroxene granodiorite phase of the Legate Creek apophysis. The vein, exposed intermittently for 300 metres, is

mineralized with tetrahedrite, galena, sphalerite and malachite.

**BIBLIOGRAPHY** 

EMPR AR \*1925-129 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

GSC P 36-20, pp. 32,33; 36-17

CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N DATE CODED: 1986/11/14 DATE REVISED: 1989/08/28 FIELD CHECK: N

> MINFILE NUMBER: 1031 140

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 141

NATIONAL MINERAL INVENTORY: 103I9 Cu26

MINING DIVISION: Omineca

NORTHING: 6053538 EASTING: 556473

PAGE:

REPORT: RGEN0100

703

NAME(S): BULLION, ZONA II

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I09E UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 54 37 34 N LONGITUDE: 128 07 31 W ELEVATION: 1370 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized showing, Map 1 (Assessment Report 8777).

COMMODITIES: Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Galena Calcite

ALTERATION: Malachite Limonite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su Hvdrothermal

Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 025/40F TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION Legate Creek Apophysis

LITHOLOGY: Pyroxene Quartz Diorite Porphyritic Pyroxene Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1980 Assay/analysis SAMPLE TYPE: Chip

COMMODITY Silver GRADE

1313.0000 Grams per tonne Copper 2.1500 Per cent

COMMENTS: The sample width is 30.0 centimetres. REFERENCE: Assessment Report 8777.

**CAPSULE GEOLOGY** 

A pyroxene quartz diorite stock of the Cretaceous to Tertiary Coast Plutonic Complex intrudes volcanics of the Jurassic Hazelton Group. A quartz-carbonate vein occurs along the upper contact of an aplitic dyke within a porphyritic pyroxene granodiorite phase of the Legate Creek apophysis. The vein contains minor limonite, malachite and sulphides, likely chalcopyrite, pyrite and galena. A 30 centimetre chip sample assayed 2.15 per cent copper and 1313 grams per tonne silver (Assessment Report 8777).

An early report describes a quartz vein along the foot of a bluff for a distance of 200 metres in a northeast direction. A 30 centimetre sample assayed 1.9 per cent copper and 54.9 grams per tonne silver (Minister of Mines Annual Report 1919).

**BIBLIOGRAPHY** 

EMPR AR 1919-100 EMPR ASS RPT \*8777 EMPR EXPL 1980-392,393

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 329

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 142

NATIONAL MINERAL INVENTORY:

NAME(S): FOX 3, SEVEN SISTERS PEAK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I16E BC MAP:

LATITUDE: 54 59 04 N LONGITUDE: 128 14 06 W ELEVATION: 1240 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized sample #55-10, Figure 8 (Assessment Report 9147).

COMMODITIES: Molybdenum Silver Copper

**MINERALS** 

Azurite

SIGNIFICANT: Molybdenite
ALTERATION: Malachite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stockwork

CLASSIFICATION: Hydrothermal TYPE: L05 Porph Porphyry Porphyry Mo (Low F- type)

SHAPE: Irregular

COMMENTS: Gossan zone.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE <u>GROUP</u>

Jurassic-Cretaceous Tertiary

Bowser Lake

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6093328 EASTING: 548954

REPORT: RGEN0100

705

Seven Sisters Stock

Polymetallic veins Ag-Pb-Zn±Au

LITHOLOGY: Granodiorite

Siltstone Diorite Siltstone Greywacke Conglomerate Greisen Rhyolite

Quartz Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

Bowser Lake

PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1981

Igneous-contact

105

CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

**GRADE** 

COMMODITY Silver Copper Molybdenum

24.7000 Grams per tonne 1.2600 Per cent 0.0970 Per cent

REFERENCE: Assessment Report 9147.

CAPSULE GEOLOGY

Upper Jurassic to Lower Cretaceous Bowser Lake Group sediments are intruded by the Early Tertiary age Seven Sisters stock which forms the core of the Seven Sisters Peaks. The sediments which forms the core of the seven states are all and are mainly siltstone and greywacke with minor conglomerate, greenstone and rhyolite. Near the stock, they are sharply the stock is largely granodiorite. crenulated and deformed. The stock is largely granodiorite with lesser granite and diorite. Quartz feldspar porphyry is gradational with the intrusive and forms dykes cutting the sediments. Aplitic dykes extend from the intrusive into the sediments.

Molybdenite occurs in fractures within granodiorite in contact with siltstones. A sample assayed 1.46 per cent molybdenum and another, 300 metres west, assayed 0.26 per cent molybdenum. Three hundred metres to the east, a five metre wide gossan with malachite and azurite occurs along a fracture

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

in the granodiorite. A sample of this assayed 0.097 per cent molybdenum, 1.26 per cent copper, and 24.7 grams per tonne silver (Assessment Report 9147).

**BIBLIOGRAPHY** 

EMPR ASS RPT 8467, \*9147 EMPR EXPL 1979-256; 1980-400,401 EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/10/23 DATE REVISED: 1989/08/12 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1031 142

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 143

NAME(S): **IMPERIAL** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP:

LATITUDE: 54 39 29 N

LONGITUDE: 128 08 56 W ELEVATION: 820 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1925, page 129.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown Specularite

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Jurassic Hazelton

LITHOLOGY: Volcanic Breccia

Rhyolite Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> Assay/analysis CATEGORY: YEAR: 1925 SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Silver 13.7000 Grams per tonne Copper 3.5000 Per cent

COMMENTS: The sample width is 1.8 metres.

REFERENCE: Minister of Mines Annual Report 1925, page 129.

**CAPSULE GEOLOGY** 

Volcanics of the Jurassic Hazelton Group are cut by a diorite

stock of the Cretaceous to Tertiary Coast Plutonic Complex. Specularite and chalcopyrite mineralization, 2 metres wide, occurs along the contact between volcanic breccia and rhyolite, about 40

metres east of the intrusive.

A 1.8 metre sample assayed 3.5 per cent copper, 13.7 grams per tonne silver and trace gold (Minister of Mines Annual Report 1925).

**BIBLIOGRAPHY** 

EMPR AR \*1925-129 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/11/20 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 143

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6057074 EASTING: 554906

NATIONAL MINERAL INVENTORY: 103I9 Cu28

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 144

NATIONAL MINERAL INVENTORY: 10319 Ag9

NAME(S): **REGINA** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP:

UTM ZONE: 09 (NAD 83)

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REPORT: RGEN0100

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LATITUDE: 54 38 49 N NORTHING: 6055844 EASTING: 555458

LONGITUDE: 128 08 26 W ELEVATION: 1500 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions and Geological Survey of Canada Map 36-17.

COMMODITIES: Silver Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Galena Tetrahedrite Chalcocite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au I 01 Subvolcanic Cu-Ag-Au (As-Sb) SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER GROUP **FORMATION** Legate Creek Apophysis

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Porphyritic pyroxene granodiorite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1917

SAMPLE TYPE: Chip

COMMODITY GRADE

Silver 2434.0000 Grams per tonne Gold 6.9000 Grams per tonne

COMMENTS: The sample width is 45.0 centimetres. REFERENCE: Minister of Mines Annual Report 1917, pages 100,101.

**CAPSULE GEOLOGY** 

A pyroxene quartz diorite stock of the Cretaceous to Tertiary Coast Plutonic Complex intrudes Jurassic Hazelton Group volcanics. 2 metre wide shear zone strikes southeast for 200 metres and dips steeply southwest within a porphyritic pyroxene granodiorite phase of the Legate Creek apophysis. The shear contains quartz stringers mineralized with pyrite, chalcopyrite, galena, tetrahedrite and chalcocite. A 45 centimetre sample assayed 2434 grams per tonne silver and 6.9 grams per tonne gold and a selected sample assayed 13 per cent copper, 13,234 grams per tonne silver and 2.1 grams per

tonne gold (Minister of Mines Annual Report 1917).

**BIBLIOGRAPHY** 

EMPR AR \*1917-100,101; 1919-100,101; 1925-129

EMPR ASS RPT 15006 EMPR EXPL 1986-C427 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

GSC P 36-20, pp. 32,33; 36-17 GSC SUM RPT \*1925A, p. 112

DATE CODED: 1986/11/19 DATE REVISED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

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MINFILE NUMBER: 103I 145

NATIONAL MINERAL INVENTORY: 103I9 Cu40

PAGE:

NORTHING: 6058081 EASTING: 561165

REPORT: RGEN0100

709

 $\begin{array}{ll} \text{NAME(S): } \underline{\textbf{LINDY}}, \, \text{NX, FRISCO,} \\ \underline{\text{LINDY 2}} \end{array}$ 

STATUS: Showing MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103109E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 39 59 N
LONGITUDE: 128 03 06 W
ELEVATION: 1700 Metres
LOCATION ACCURACY: Within 1 KM
COMMENTS: Lindy claim group - old MINFILE.

COMMODITIES: Copper Silver

Bornite Tetrahedrite

SIGNIFICANT: Chalcopyrite
ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: L01 Subvo

Subvolcanic Cu-Ag-Au (As-Sb) D03 Volcanic redbed Cu

SHAPE: Irregular

MODIFIER: Sheared DIMENSION:

STRIKE/DIP: 170/35E TREND/PLUNGE: COMMENTS: Shear zone.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

**GROUP** STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Undefined Formation

LITHOLOGY: Andesite

Quartz Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

**CAPSULE GEOLOGY** 

Andesite of the Jurassic Hazelton Group are cut by quartz porphyry dykes and sills. A shear zone, striking 170 degrees and dipping 35 degrees east in red andesite, is locally mineralized with chalcopyrite, bornite and tetrahedrite in a quartz gangue.

**BIBLIOGRAPHY** 

EMPR AR 1967-83 EMPR MAP 8; 69-1

EMR MP CORPFILE (Eardley-Wilmot, V.L. (1930): Silver Producing

Mines in British Columbia, p. 165, June 1930, Unpublished

Report, Ottawa)

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 212, p. 23 (under Frisco Group); 329 Omineca Herald, October 17, 1928

DATE CODED: 1986/11/20 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 146

NATIONAL MINERAL INVENTORY: 10319 Au6

NAME(S): **BEANSTOCK**, CROESUS

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca UTM ZONE: 09 (NAD 83)

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NTS MAP: 103I09W BC MAP: LATITUDE: 54 33 28 N

NORTHING: 6045741 EASTING: 537850

LONGITUDE: 128 24 53 W ELEVATION: 730 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Vein, Figure 8 (Geological Survey of Canada Memoir 205); lies north of

and adjoins the Silver Bow property (1031 080).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Epigenetic TYPE: I02 Int

Intrusion-related Au pyrrhotite veins

SHAPE: Irregular

STRIKE/DIP: 150/35E DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Undefined Formation

LITHOLOGY: Andesite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1937 Assay/analysis SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Grams per tonne 1.4000

COMMENTS: The sample width is 100 centimetres. REFERENCE: Geological Survey of Canada Memoir 205, pages 39,40.

**CAPSULE GEOLOGY** 

Andesite of the Jurassic Hazelton Group is intruded by granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. A quartz vein sparsely mineralized with pyrite strikes 150 degrees and dips 35 degrees east within the volcanics. The vein averages 76 centimetres in width and is exposed intermittently for 400 metres. A 100 centimetre wide sample from the southeast part of the vein assayed 1.4 grams per tonne gold and trace silver (Geological Survey of Canada Memoir 205).

**BIBLIOGRAPHY** 

EMPR AR 1967-80; 1968-107 EMPR ASS RPT 1234; 12072; 17260 EMPR EXPL 1983-502; 1988-C201

EMPR GEM 1970-194,195; 1972-500,501

EMPR MAP 8; 69-1

EMPR PF (Prospectus for Fircrest Resources Ltd., Apr. 20, 1988)

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM \*205, pp. 39,40; 329, p. 81 GSC P 36-17, p. 70 V STOCKWATCH Aug.17, 1987

FIELD CHECK: N DATE CODED: 1986/11/28 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 147

NATIONAL MINERAL INVENTORY:

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711

NAME(S): **BENEX** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I14E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6086732 EASTING: 491349

LATITUDE: 54 55 39 N
LONGITUDE: 129 08 06 W
ELEVATION: 1200 Metres
LOCATION ACCURACY: Within 1 KM COMMENTS: Claim group

> COMMODITIES: Copper Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Molybdenite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal

TYPE: LÓ4 Porphyry Cu ± Mo ± Au L05 Porphyry Mo (Low F- type)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Eocene IGNEOUS/METAMORPHIC/OTHER Ponder Pluton **FORMATION** 

LITHOLOGY: Granodiorite

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline
TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Kitimat Ranges

**CAPSULE GEOLOGY** 

The area is underlain by granodiorite of the Tertiary

Ponder pluton. Quartz veins probably carry pyrite,

chalcopyrite, and molybdenite.

**BIBLIOGRAPHY** 

EMPR AR 1968-69

EMPR MAP 8
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM 329

DATE CODED: 1986/09/17 CODED BY: LDJ FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/08/28 FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 148 NATIONAL MINERAL INVENTORY: 103I9 Au10

NAME(S): **COPPER DOLLAR**, EAGLES NEST

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6060406 EASTING: 548956 LATITUDE: 54 41 19 N

LONGITUDE: 128 14 26 W ELEVATION: 730 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description and map (Minister of Mines Annual Report 1914); located on the north fork of St. Croix Creek.

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Unknown COMMENTS: Copper minerals.
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: 102 Int

Intrusion-related Au pyrrhotite veins L01 Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE

Undefined Formation Jurassic Hazelton

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1914

> SAMPLE TYPE: Grab COMMODITY

**GRADE** Grams per tonne 6.6000

COMMENTS: Sample of mineralization from Copper Dollar showing.

REFERENCE: Minister of Mines Annual Report 1914, page 137.

**CAPSULE GEOLOGY** 

The area is underlain by andesites of the Jurassic Hazelton Group. The Copper Dollar showing contains gold mineralization in a banded quartzose structure. Samples contain up to 6.6 grams per tonne gold (Minister of Mines Annual Report 1914). The Eagle's Nest showing carries traces of gold and silver in a zone containing copper minerals. It lies about 500 metres northwest of the Copper Dollar.

**BIBLIOGRAPHY** 

EMPR AR \*1914-137, Map p. 120

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

GSC P 36-17

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 149

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

713

NAME(S): FOX 4, SEVEN SISTERS PEAKS

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I16E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6092572 EASTING: 550474 LATITUDE: 54 58 39 N

LONGITUDE: 128 12 41 W ELEVATION: 1790 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized sample #22265, Figure 4a (Assessment Report 8467).

COMMODITIES: Molybdenum Silver Copper Lead

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Chalcopyrite

ALTERATION: Powellite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L05 Porph

Porphyry Mo (Low F- type) 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Jurassic-Cretaceous Bowser Lake Undefined Formation

Tertiary Seven Sisters Stock

LITHOLOGY: Siltstone

Granodiorite Quartz Diorite Grevwacke Conglomerate Greisen Rhvolite Gránite Diorite

Quartz Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1980 Assay/analysis

COMMODITY **GRADE** 

Silver 8.6000 Grams per tonne Per cent Copper 0.1200Molybdenum 4.2100 Per cent 0.0600 Per cent Lead

COMMENTS: The sample was collected from talus material.

REFERENCE: Assessment Report 8467.

CAPSULE GEOLOGY

Upper Jurassic to Lower Cretaceous Bowser Lake Group sediments are intruded by the Early Tertiary Seven Sisters stock which forms the core of the Seven Sisters Peaks. The sediments are mainly siltstone and greywacke with minor conglomerate, greenstone and rhyo-Near the stock, they are sharply crenulated and deformed. The lite. stock is largely granodiorite with lesser granite and diorite. Quartz feldspar porphyry is gradational with the intrusive and forms dykes cutting the sediments. Aplitic dykes extend from the intrusive into the sediments.

Molybdenite, chalcopyrite and powellite occur in fractures and quartz veins within siltstone above its contact with granodiorite and within granodiorite and quartz diorite. A sample of a vein with

MINFILE MASTER REPORT

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

chalcopyrite, in the sediments, assayed 0.54 per cent copper and 11.0 grams per tonne silver. A 2 centimetre quartz vein with molybdenite and minor powellite within quartz diorite assayed 0.15 per cent molybdenum (Assessment Report 8467). A talus sample of feldspathized granodiorite with a quartz vein mineralized with molybdenite, chalcopyrite and powellite assayed 4.21 per cent molybdenum and 8.6 grams per tonne gilver (Assessment Report 8467) per tonne silver (Assessment Report 8467).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8467, 9147 EMPR EXPL 1979-256; 1980-400-401 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/10/23 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 149

PAGE:

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 150

NATIONAL MINERAL INVENTORY:

NAME(S): SVEN, SEVEN SISTERS PEAKS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I16E BC MAP:

LATITUDE: 54 59 04 N

LONGITUDE: 128 09 06 W ELEVATION: 1520 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized sample #22279, Figure 4b (Assessment Report 8467).

COMMODITIES: Molybdenum Tungsten Copper

**MINERALS** 

SIGNIFICANT: Molybdenite MINERALIZATION AGE: Unknown Chalcopyrite

**DEPOSIT** 

CHARACTER: Disseminated
CLASSIFICATION: Hydrothermal
TYPE: L05 Porphyry Mo (Low F- type)

SHAPE: Irregular

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE
Jurassic-Cretaceous

Tertiary

GROUP Bowser Lake

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6093390 EASTING: 554287

REPORT: RGEN0100

715

Seven Sisters Stock

LITHOLOGY: Diorite

Granodiorite Siltstone Greywacke Conglomerate Greisen Rhvolite Gránite

Quartz Feldspar Porphyry

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1980

CATEGORY: Assay/analysis SAMPLE TYPE: Grab

**GRADE** Per cent 0.2800

Molybdenum Tungsten

0.0800 Per cent REFERENCE: Assessment Report 8467.

CAPSULE GEOLOGY

Upper Jurassic to Lower Cretaceous Bowser Lake Group sediments are intruded by the Early Tertiary Seven Sisters stock which forms the core of the Seven Sisters Peaks. The sediments

are mainly siltstone and greywacke with minor conglomerate, greenstone and rhyolite. Near the stock, they are sharply crenulated and deformed. The stock is largely granodiorite with lesser granite and diorite. Quartz feldspar porphyry is gradational with the intrusive and forms dykes cutting the sediments. Aplitic dykes extend from the intrusive into the

Bowser Lake

sediment.

On the northeast side of the Seven Sisters Peaks, an aplitic dyke, cutting diorite carries molybdenite and assays 0.28 per cent molybdenum and 0.08 per cent tungsten (Assessment Report 8467). A nearby siltstone sample assayed 0.014 per cent copper (Assessment Report 8387). A hornblende rich, later phase, of the stock carries molybdenite, with values of 0.0003 per cent molybdenum and 0.10 per cent tungsten (Assessment Report 8467). RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 8387, \*8467, 9147 EMPR EXPL 1979-256; 1980-400,401 EMPR MAP 8; 69-1 EMPR OF 1991-17 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/10/23 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 150

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 151

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

717

NAME(S): ALLARD

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I15W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6069726 EASTING: 505253

LATITUDE: 54 46 29 N
LONGITUDE: 128 55 06 W
ELEVATION: 1000 Metres
LOCATION ACCURACY: Within 1 KM COMMENTS: Claim group

> COMMODITIES: Copper Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Molybdenite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal

TYPE: LÓ4 Porphyry Cu ± Mo ± Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex **FORMATION** 

LITHOLOGY: Granodiorite

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline
TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Kitimat Ranges

**CAPSULE GEOLOGY** 

The area is underlain by granodiorite of the Cretaceous to

Tertiary Coast Plutonic Complex. Quartz veins probably carry pyrite,

chalcopyrite, and molybdenite.

**BIBLIOGRAPHY** 

EMPR AR 1968-69

EMPR MAP 8; 69-1 GSC MAP 11-1956; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/09/24 CODED BY: LDJ FIELD CHECK: N

DATE REVISED: 1989/08/28 REVISED BY: LLD FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 152

NATIONAL MINERAL INVENTORY: 10319 Au9

PAGE:

NORTHING: 6055348 EASTING: 537178

REPORT: RGEN0100

718

NAME(S): **POOR BOY** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 38 39 N LONGITUDE: 128 25 26 W ELEVATION: 240 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1914, page 141.

COMMODITIES: Gold Silver Copper

**MINERALS** 

Gold

SIGNIFICANT: Bornite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

TYPE: I02 I SHAPE: Irregular L01 Subvolcanic Cu-Ag-Au (As-Sb) Intrusion-related Au pyrrhotite veins

MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Coast Plutonic Complex

LITHOLOGY: Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1914 CATEGORY: Assay/analysis SAMPLE TYPE: Chip

COMMODITY GRADE

Silver 54.9000 Grams per tonne Gold 2.0000 Grams per tonne

0.3000 Copper Per cent

REFERENCE: Minister of Mines Annual Report 1914, page 141.

**CAPSULE GEOLOGY** 

The area is underlain by granite to diorite intrusions related to the Cretaceous to Tertiary Coast Plutonic Complex.

An east trending, north dipping shear zone in diorite contains a 0.5 metre wide quartz vein mineralized with bornite and possibly free gold. A sample assayed 2.0 grams per tonne gold, 54.9 grams per tonne silver and 0.3 per cent copper (Minister of Mines Annual Report

1914).

**BIBLIOGRAPHY** 

EMPR AR \*1914-141, Map p. 120

EMPR ASS RPT 2719

EMPR MAP 8

GSC MAP 1136A; 1385A; 11-1956

GSC MEM 329

DATE CODED: 1986/12/15 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 153

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

MINFILE NUMBER:

103I 153

REPORT: RGEN0100

719

NAME(S): MARDAV, CLIFF

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I14E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6081781 EASTING: 495260 LATITUDE: 54 52 59 N

LONGITUDE: 129 04 26 W ELEVATION: 1440 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showings, Plan #553-2 (Assessment Report 8200).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

TYPE: LÓ5 Porphyry Mo (Low F- type)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE
Jurassic-Cretaceous

GROUP
Bowser Lake **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

Ponder Pluton Focene

LITHOLOGY: Granodiorite

Sandstone Siltstone

**GEOLOGICAL SETTING**TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Plutonic Ŕocks Bowser Lake

**CAPSULE GEOLOGY** 

Molybdenite occurs in quartz veins and on fracture

surfaces within felsic intrusive rocks. Granodiorites of

the Eocene Ponder pluton lie to the west and fine-grained sandstone and siltstone of the Jurassic to Cretaceous Bowser Lake Group lie to

the east.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8200

EMPR EXPL 1979-253

EMPR MAP 8 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

CODED BY: LDJ REVISED BY: FIELD CHECK: N DATE CODED: 1986/09/17 DATE REVISED: // FIELD CHECK:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 154 NATIONAL MINERAL INVENTORY: 103I16 Au5

NAME(S): PADDY MAC, WARRIOR, PADDY-MAC, PADDY McGOLD

STATUS: Showing MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103I16W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 54 45 09 N LONGITUDE: 128 23 06 W ELEVATION: 137 Metres NORTHING: 6067424 EASTING: 539582

LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein (Assessment Report 15337); located near the headwaters of

Carpenter Creek.

COMMODITIES: Gold Lead Silver Copper Zinc

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite Pyrrhotite Chalcopyrite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I02 Int Hvdrothermal

Intrusion-related Au pyrrhotite veins 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Fractured

STRIKE/DIP: 035/50E DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous **Bowser Lake** Undefined Formation

LITHOLOGY: Argillite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE\_TYPE: Chip YEAR: 1986 Assay/analysis

COMMODITY **GRADE** 

Silver 253.7000 Grams per tonne 373.7000 Gold Grams per tonne 0.0600 Per cent Copper Per cent Lead 0.3800 0.0200 Per cent

Zinc COMMENTS: The sample width is 30.0 centimetres.

REFERENCE: Assessment Report 15337.

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1980 Assay/analysis

SAMPLE TYPE: Chip GRADE

COMMODITY Silver 176.2200 Grams per tonne 19.5400 Gold Grams per tonne

COMMENTS: Average of 21 chip samples taken across an average width of 0.36

metreš.

REFERENCE: Property File - Holt, 1987.

CAPSULE GEOLOGY

Steeply dipping, altered argillites of the Jurassic to Cretaceous Bowser Lake Group are cut by granodiorite dykes related to the Cretaceous to Tertiary Coast Plutonic Complex. Granodioritic intrusives are exposed to the southwest of the property.

A 430 metre long quartz vein, striking 035 degrees and dipping

50 degrees southeast, cuts the altered Bowser Lake sediments and is visible along the cirque wall for most of this distance. The vein

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

varies from 10 to 76 centimetres in width and averages about 0.6 metres in width. Mineralization consists of pyrite, chalcopyrite, galena, arsenopyrite and pyrrhotite. In 1945, a 36 centimetre sample assayed 172 grams per tonne gold and 122 grams per tonne silver. Another 50 centimetre sample assayed, collected 60 metres to the southwest, assayed 12.3 grams per tonne gold and 185 grams per tonne silver (Minister of Mines Annual Report 1945, page 63). Recent sampling returned an assay of 373.7 grams per tonne gold, 253.7 grams per tonne silver, 0.6 per cent copper and 0.38 per cent lead (Assessment Report 15337).

In 1980, 27 chip samples were collected from this vein and the adjacent host rocks. The samples were taken at 3 metre intervals along a strike length of approximately 80 metres. Twenty-one samples taken from the vein averaged 19.54 grams per tonne gold and 176.22 grams per tonne silver across an average width of 0.36 metres. The six wall rock samples averaged 0.55 grams per tonne gold and 6.0 grams per tonne silver (Holt, 1987).

#### **BIBLIOGRAPHY**

EMPR AR \*1945-63 EMPR ASS RPT \*15337, \*20504, 22050, 23113 EMPR EXPL 1986-C428 EMPR MAP 8; 69-1 EMPR OF 1994-14

EMPR OF 1994-14

EMPR PF (\*Holt, E.S. (1987): Report of Examination, Review of Sampling Data and Recommendations on the Paddy-Mac Gold Claim in Prospectus for A-1 Resources Ltd., Sept.16, 1987)
GSC MAP 11-1956, 278A, 1136A, 1385A
GSC MEM 329, p. 90
Placer Dome File

DATE CODED: 1986/10/20 DATE REVISED: 1989/08/11 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 103I 154

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 155

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6074000 EASTING: 548273

REPORT: RGEN0100

722

NAME(S): TWO GOAT

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I16E BC MAP:

LATITUDE: 54 48 39 N

LONGITUDE: 128 14 56 W ELEVATION: 340 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Zone A, Map (Assessment Report 8133).

COMMODITIES: Copper

**MINERALS** 

**Pyrite** 

SIGNIFICANT: Chalcopyrite
ALTERATION: Malachite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: L01 Subvo

D03 Volcanic redbed Cu Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular
MODIFIER: Fractured Sheared
COMMENTS: Strike length of 1 kilometre contains four zones of mineralization.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **Undefined Formation** 

Jurassic Hazelton

LITHOLOGY: Rhyolite Basalt

Diabase

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges TERRANE: Stikine

**CAPSULE GEOLOGY** 

The area is underlain by Jurassic age volcanics of the Hazelton Group. The strata, which dips gently eastwards, consists of a lower, massive rhyolite unit; a diabase-basalt unit; a 20 to 50 metre thick fractured, rusty, buff-coloured rhyolite unit; and a massive mauve

coloured rhyolite unit.

Mineralization, consisting of malachite, chalcopyrite and pyrite, occurs mainly in the fractured, rusty, buff-coloured rhyolite unit above the diabase. It occurs mainly in four zones over a 1000 metre strike length and is associated with fractures and shears up to

1 metre wide.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8133 EMPR EXPL 1980-399

EMPR MAP 8; 69-1

GSC MAP 11-1956; 1136A; 1385A GSC MEM 329

CODED BY: LDJ REVISED BY: DATE CODED: 1986/10/20 FIELD CHECK: N DATE REVISED: / / FIELD CHECK:

> MINFILE NUMBER: 103I 155

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 156

NATIONAL MINERAL INVENTORY: 10318 Cu2

PAGE:

REPORT: RGEN0100

723

 $\label{eq:NAME} \mbox{NAME(S): } \underline{\mbox{EAST SIDE}}, \mbox{KELLY CREEK, ZYM,} \\ \underline{\mbox{GLOBIN}}$ 

STATUS: Showing MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103108E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 26 59 N LONGITUDE: 128 08 06 W NORTHING: 6033904 EASTING: 556087

ELEVATION: 550 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Plan No. 1 (Assessment Report 2394).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite **Bornite** 

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: D03 Volcar Disseminated

Volcanic redbed Cu L01 Sul STRIKE/DIP: 360/70E Subvolcanic Cu-Ag-Au (As-Sb) DIMENSION: TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE GROUP Hazelton IGNEOUS/METAMORPHIC/OTHER Jurassic Undefined Formation

LITHOLOGY: Andesite

Tuff

Rhyolite Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1969 SAMPLE TYPE: Channel

COMMODITY Silver **GRADE** 

10.3000 Grams per tonne Copper 0.7000 Per cent

COMMENTS: The sample width is 4.7 metres. REFERENCE: Assessment Report 2394.

**CAPSULE GEOLOGY** 

A small granodiorite stock intrudes red silicified andesites, grey-green andesites and red tuff of the Jurassic

Hazelton Group. These rocks are intruded by rhyolitic porphyry dykes. The volcanics strike north-south and dip 70 degrees east.

The East Side showing, which lies 300 metres east of the Upper showing (103I 092), is mineralized with chalcopyrite and bornite within the red silicified andesites. A 4.7 metre channel sample assayed 0.70 per cent copper, 10.3 grams per tonne silver and trace gold (Assessment Report 2394).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2394 EMPR GEM 1970-189-193

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/11/05 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 157

NATIONAL MINERAL INVENTORY: 10318 Cu2

PAGE:

REPORT: RGEN0100

724

NAME(S): **GOAT BLUFF**, KELLY CREEK, ZYM, NATIVE, GLOBIN

MINING DIVISION: Omineca

STATUS: Showing REGIONS: British Columbia NTS MAP: 103108E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 26 34 N
LONGITUDE: 128 07 26 W
ELEVATION: 960 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Plan No. 1 (Assessment Report 2394). NORTHING: 6033141 EASTING: 556817

COMMODITIES: Copper

MINERALS
SIGNIFICANT: Chalcopyrite
MINERALIZATION AGE: Unknown **Bornite** 

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Unknown TYPE: D03 Vo

Volcanic redbed Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Jurassic FORMATION Undefined Formation GROUP Hazelton IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Andesite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane
TERRANE: Stikine PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

Chalcopyrite and bornite are disseminated in red

andesites and grey-green andesites of the Jurassic Hazelton

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2394 EMPR GEM 1970-189-193 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/11/05 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> 103I 157 MINFILE NUMBER:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 158

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6034945 EASTING: 552652

REPORT: RGEN0100

725

NAME(S): CALONA, KELLY CREEK, ZYM

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 27 34 N LONGITUDE: 128 11 16 W ELEVATION: 550 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Plan No. 1 (Assessment Report 2394).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ALTERATION: Malachite ALTERATION TYPE: Epidote Pyrite **Bornite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Porphyry
TYPE: D03 Volcanic redbed Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Jurassic Hazelton Undefined Formation

LITHOLOGY: Agglomerate Dioritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1969 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip COMMODITY **GRADE** 

Silver 3.4000 Grams per tonne Copper 0.0500 Per cent

COMMENTS: The sample width is 4.3 metres. REFERENCE: Assessment Report 2394.

**CAPSULE GEOLOGY** 

Agglomerate of the Jurassic Hazelton Group is cut by east striking diorite dykes. The agglomerate is very hard and contains fragments of andesite in a matrix of feldspar and amphibole. Patches of chalcopyrite and bornite occur over 4.3 metres within the agglomerate and a sample over this length assayed 0.05 per cent copper and 3.4 grams per tonne silver (Assessment Report 2394).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2394 EMPR GEM 1970-189-193 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

CODED BY: LDJ REVISED BY: DATE CODED: 1986/11/05 FIELD CHECK: N DATE REVISED: / / FIFI D CHECK:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 159

NATIONAL MINERAL INVENTORY:

NAME(S): CHICKEN, KELLY CREEK, ZYM

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 26 54 N LONGITUDE: 128 10 16 W ELEVATION: 700 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Plan No. 1 (Assessment Report 2394).

COMMODITIES: Copper Molybdenum Gold Silver

Disseminated

**MINERALS** 

SIGNIFICANT: Chalcopyrite ALTERATION: Malachite

**Bornite** Azurite ALTERATION TYPE: Oxidation

Pyrite K-Feldspar Potassic

Molybdenite Chlorite

Sericite

Chloritic

Breccia

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: L04 Porph

Porphyry Cu ± Mo ± Au

D03 Volcanic redbed Cu

SHAPE: Irregular
MODIFIER: Other
COMMENTS: Shape of modifier is brecciated.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary

FORMATION

IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6033722 EASTING: 553747

REPORT: RGEN0100

726

Coast Plutonic Complex

LITHOLOGY: Granodiorite

Andesite Rhyolite

Lamprophyre Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Per cent

CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

YEAR: 1969

COMMODITY Silver

**GRADE** 30.9000 0.3400 3.3800

Grams per tonne Grams per tonne

Gold Copper

COMMENTS: The sample width is 2.1 metres. REFERENCE: Assessment Report 2394.

CAPSULE GEOLOGY

A granodiorite stock of the Cretaceous to Tertiary Coast Plutonic Complex is cut by andesite, rhyolite, and lamprophyre dykes and exhibits varying degrees of brecciation and chlorite-sericite and

potash feldspar alteration.

Mineralization, observed over 30 metres, consists of chalcopyrite, pyrite, and bornite as disseminations, fracture fillings, and patches within the granodicrite. Minor molybdenite occurs on chloritic slip planes. A 2.1 metre sample assayed 3.38 per cent copper, 30.9 grams per tonne silver, and 0.34 grams per tonne gold (Assessment Report 2394).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2394 EMPR GEM 1970-189-193

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

CIM Spec. Vol. 15, Table 1 (by S.H. Pilcher and J.J. McDougall,

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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**BIBLIOGRAPHY** 

#109, 1976)

DATE CODED: 1986/11/05 DATE REVISED: / / CODED BY: LDJ REVISED BY: FIELD CHECK: N FIELD CHECK:

PAGE:

REPORT: RGEN0100

727

MINFILE NUMBER: 1031 159

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 160

NATIONAL MINERAL INVENTORY:

NAME(S): STEPHEN, KELLY CREEK, ZYM

STATUS: Showing REGIONS: British Columbia NTS MAP: 103l08E BC MAP:

LATITUDE: 54 25 29 N
LONGITUDE: 128 10 01 W
ELEVATION: 460 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Plan No. 1 (Assessment Report 2394).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated
CLASSIFICATION: Unknown
TYPE: D03 Volcanic redbed Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP

Jurassic Hazelton **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6031098 EASTING: 554048

REPORT: RGEN0100

728

LITHOLOGY: Andesite

Tuff Agglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

The area is underlain by agglomerates and andesitic

tuffs of the Jurassic Hazelton Group. Disseminated chalcopyrite occurs in a 1 metre wide bed of andesitic tuff.

The mineralization has been traced for 1 metre in length.

Major faults cut the rocks in the vicinity.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2394 EMPR GEM 1970-189-193 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/11/05 DATE REVISED: / /

CODED BY: LDJ REVISED BY:

FIELD CHECK: N FIELD CHECK:

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 161

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6030633 EASTING: 553964

REPORT: RGEN0100

729

NAME(S): MIKE, KELLY CREEK, ZYM

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 25 14 N

LONGITUDE: 128 10 06 W ELEVATION: 800 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Plan No. 1 (Assessment Report 2394).

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite ALTERATION: Epidote ALTERATION TYPE: Epidote MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Unknown TYPE: D03 Volcanic redbed Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Jurassic Hazelton Undefined Formation

LITHOLOGY: Agglomerate Andesite

Andesitic Tuff Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis SAMPLE TYPE: Chip

COMMODITY

**GRADE** 10.3000 Silver Grams per tonne Grams per tonne Gold 0.7000 Copper 0.9200 Per cent

COMMENTS: The sample width is 10.0 centimetres. REFERENCE: Assessment Report 2394.

**CAPSULE GEOLOGY** 

Grey-green andesites and agglomerates of the Jurassic Hazelton Group are intruded by a granite plug to the south. The

agglomerates are interbedded with andesitic tuffs which dip 40 to 60 degrees south-southwest. Several faults cut the rocks.

YEAR: 1969

Patches of chalcopyrite occur in epidotized agglomerates over widths less than 30 centimetres. A 10 centimetre sample assayed 0.92 per cent copper, 10.3 grams per tonne silver and 0.7 grams per tonne gold (Assessment Report 2394).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2394 EMPR GEM 1970-189-193

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

CODED BY: LDJ DATE CODED: 1986/11/05 FIELD CHECK: N REVISED BY: DATE REVISED: FIELD CHECK:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 162

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

730

 $\mathsf{NAME}(\mathsf{S}) \colon \: \underline{\mathsf{LA\ ZONE\ FAILLEE}}, \: \mathsf{KELLY\ CREEK}, \: \mathsf{ZYM}$ 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l08E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6030182 EASTING: 555051 LATITUDE: 54 24 59 N LONGITUDE: 128 09 06 W ELEVATION: 1230 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Plan No. 1 (Assessment Report 2394).

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Chalcopyrite
ALTERATION: Malachite
ALTERATION TYPE: Oxidation
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal TYPE: D03 Volca

Volcanic redbed Cu

SHAPE: Irregular MODIFIER: Fractured

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Undefined Formation

LITHOLOGY: Andesite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1969 Assav/analysis

SAMPLE TYPE: Channel **GRADE** COMMODITY

Silver 24.0000 Grams per tonne 0.3400 Grams per tonne Gold 0.8200 Copper Per cent

COMMENTS: The sample width is 2.0 metres. REFERENCE: Assessment Report 2394.

**CAPSULE GEOLOGY** 

The area is underlain by volcanic rocks of the Jurassic Hazelton Group. Red andesites are separated to the east from grey-green andesites by a northeast striking, 75 degrees west dipping fault. Disseminated chalcopyrite and bornite occur in the broken and fractured zone. A 2.0 metre channel sample assayed 0.82 per cent copper, 24 grams per tonne silver and 0.34

grams per tonne gold (Assessment Report 2394).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*2394 EMPR GEM 1970-189-193

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/11/25 CODED BY: LDJ FIELD CHECK: N DATE REVISED: / / REVISED BY: FIFI D CHECK:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 163 NATIONAL MINERAL INVENTORY: 103I9 Cu13

NAME(S): **COPPER KING** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 32 49 N LONGITUDE: 128 01 06 W ELEVATION: 1520 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description (Minister of Mines Annual Report 1914); Map, 1929

(Property File).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Chalcocite Bornite COMMENTS: Probable copper minerals present.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown

CLASSIFICATION: Unknown TYPE: D03 Volcanic redbed Cu

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

Basalt

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Hazelton Ranges

CAPSULE GEOLOGY

The area is underlain by felsic to basic volcanic rocks of the

Jurassic Hazelton Group. Copper minerals, likely chalcocite and bornite, occur in the volcanics.

A 12 metre surface sample is reported to assay 1.35 per cent copper, 12 grams per tonne silver and 0.3 grams per tonne gold

(National Mineral Inventory 10319 Cul3).

**BIBLIOGRAPHY** 

EMPR AR \*1914-121,122, Map-P120; 1930-136

EMPR MAP 8

EMPR PF (Map 1929; Map by J. Willman, Feb. 1929) EMR MP CORPFILE (Glen Copper Mines Limited) GSC MAP 278A; 11-1956; 1136A; 1385A

GSC MEM 329

CODED BY: LDJ REVISED BY: DATE CODED: 1986/11/07 DATE REVISED: / /

FIELD CHECK: N FIELD CHECK:

PAGE:

NORTHING: 6044821 EASTING: 563500

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 164

NATIONAL MINERAL INVENTORY:

NAME(S): HOULT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103I01E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

732

LATITUDE: 54 12 24 N

NORTHING: 6006921 EASTING: 561129

LONGITUDE: 128 03 46 W ELEVATION: 875 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Seventy metres mineralized zone, Map 1 (Assessment Report 9713).

COMMODITIES: Molybdenum

Silver

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz

Chalcopyrite Pyrite

Copper

Actinolite

Pyrrhotite

ALTERATION: Epidote ALTERATION TYPE: Propylitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L05 Porph Disseminated Porphyry

Porphyry Mo (Low F- type)

Chlorite

SHAPE: Irregular MODIFIER: Fractured

COMMENTS: Mineralized area.

DIMENSION: 1000 x 0600 x 0350 Metres

STRIKE/DIP:

TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Jurassic

Hazelton

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Rhyolite Flow

Greenstone Granite Granodiorite Pegmatite Andesite Flow Andesite Tuff Andesite Breccia

HOSTROCK COMMENTS: Leucogranite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges TERRANE: Stikine

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Assay/analysis YEAR: 1980

CATEGORY: Assa SAMPLE TYPE: Chip

**GRADE** 

COMMODITY Molybdenum 0.0360

Per cent COMMENTS: The weighted average of eleven samples over 70.0 metres.

REFERENCE: Assessment Report 8205.

CAPSULE GEOLOGY

Andesitic and rhyolite flows of the Upper division of the Jurassic Hazelton Group are intruded by granites and granodiorites of the Cretaceous to Tertiary Coast Plutonic Complex. The Hazelton rocks strike east and dip northward at moderate angles. All rocks are cut by Tertiary age diabase dykes and northwest striking slip faults.

The mineralized area is largely confined to hornfelsed greenstones consisting of undifferentiated andesitic tuffs, flows and breccias, which occur above a weakly mineralized cupola of leucogranite. Molybdenite and lesser chalcopyrite and pyrite occur in fault or fissure-type quartz veins, as disseminations in leucogranite, and as disseminations in and selvages on quartz or pegmatite

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

veins within hornfelsed greenstone. The main mineralized area measures 1000 by 600 by 350 metres, but grades are very low. Propylitic alteration consisting of epidote, chlorite, actinolite, pyrite and pyrrhotite is widespread. A series of eleven rock-chip channel samples were taken over 70 metres along a northwest trending fault. The weighted average was 0.036 per cent molybdenum, including a 5.6 metre sample assaying 0.094 per cent molybdenum and 7.5 grams per tonne silver (Assessment Report 8205).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8205, \*9713, 11378 EMPR EXPL 1980-390; 1983-501 EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/10/06 DATE REVISED: / /

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FIELD CHECK: N FIELD CHECK:

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REPORT: RGEN0100

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MINFILE NUMBER: 1031 164

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 165

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6040549 EASTING: 534098

REPORT: RGEN0100

734

NAME(S): TERRACE CALCIUM PRODUCTS, COPPER MOUNTAIN, FIR, THORNHILL MOUNTAIN

STATUS: Past Producer Open Pit MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103I09W

BC MAP:

LATITUDE: 54 30 41 N LONGITUDE: 128 28 24 W

ELEVATION: 914 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on quarry on Copper Mountain, as described in

Geology, Exploration and Mining 1973, page 550.

COMMODITIES: Limestone **Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Quartz ALTERATION: Quartz Silica Silica

COMMENTS: Also contains calc-silicate. A few bodies of skarn occur in the

limestone along the intrusive contact.

ALTERATION TYPE: Skarn

MINERALIZATION AGE: Lower Permian

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Fusulinids

**DEPOSIT** 

CHARACTER: Stratiform Massive CLASSIFICATION: Sedimentary TYPE: R09 Lime Industrial Min.

Limestone SHAPE: Regular

DIMENSION: 3000 x 1000 Metres STRIKE/DIP: 030/45W TREND/PLUNGE: COMMENTS: Attitude of underlying argillites.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Permian Undefined Group Unnamed/Unknown Formation DATING METHOD: Fossil

MATERIAL DATED: Fusulinids

LITHOLOGY: Limestone

Argillite Chert Tuff Flow Breccia Granodiorite Calc-silicate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: QUARRY REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis YEAR: 1965

COMMODITY **GRADE** 

COMMENTS: Taken across 457 metres of limestone. Grade given for CaO. REFERENCE: Minister of Mines Annual Report 1965, page 265, Sample 3.

CAPSULE GEOLOGY

A generally flat lying body of limestone of Lower Permian age outcrops over a 3 by 1 kilometre area on the top of Copper Mountain  $\,$ 

(Thornhill Mountain), 10 kilometres east-southeast of Terrace.

The deposit is underlain by siliceous and slatey argillites which strike 030 degrees and dip 45 degrees northwest. Triassic argillite and chert and basaltic to rhyolitic tuffs, flows and breccias of the Triassic Telkwa Formation overly the limestone to the

The entire sequence is intruded by Upper Cretaceous

granodiorite of the Coast Plutonic Complex to the southwest.

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The limestone is medium to coarse grained and usually white with some grey streaks. A sample of randomly collected chips taken along 457 metres of limestone exposed in a roadcut contained 55.34 per cent CaO, 0.29 per cent MgO, 0.34 per cent insolubles, 0.10 per cent R2O3, 0.06 per cent Fe2O3, 0.01 per cent MnO, 0.03 per cent P2O5, 0.003 per cent sulphur and 43.49 per cent ignition loss (Minister of Mines Annual Report 1965, p. 265, Sample 3).

Limestone was produced from two small quarries near the south

Limestone was produced from two small quarries near the south end of District Lot 2838 by Terrace Calcium Products between 1969 and 1982. A total of 2253 tonnes of limestone was quarried.

#### **BIBLIOGRAPHY**

EMPR AR \*1965-264,265; 1966-267; 1967-308; 1968-309 EMPR EXPL 1975-201; 1978-288 EMPR GEM 1969-392; 1970-503; 1971-468; 1972-602; 1973-550 GSC MAP 11-1956; 278A; 1136A GSC MEM 205, p. 5; 212, p. 5; 329, pp. 14-17 GSC OF 1136

DATE CODED: 1986/10/28 DATE REVISED: 1989/08/16 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

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Silver

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 166

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 6036426 EASTING: 546694

REPORT: RGEN0100

736

NAME(S): **PORPH** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l08W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 28 24 N
LONGITUDE: 128 16 46 W
ELEVATION: 250 Metres
LOCATION ACCURACY: Within 1 KM

COMMODITIES: Copper

COMMENTS: Claims

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: L04 Porphyry Cu ± Mo ± Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

The area is underlain by granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. No mineralization details are

available.

**BIBLIOGRAPHY** 

EMPR GEM 1972-499

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/10/31 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 167

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

737

NAME(S): SHAN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 41 59 N

NORTHING: 6061531 EASTING: 537306 LONGITUDE: 128 25 16 W ELEVATION: 900 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Dwg. G-8766 (Assessment Report 7932).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Pyrite

ALTERATION: Kaolinite Sericite Malachite

ALTERATION TYPE: Argillic
MINERALIZATION AGE: Unknown Oxidation Sericitic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L05 Po Disseminated Hvdrothermal

Porphyry Mo (Low F- type)

SHAPE: Irregular MODIFIER: Fractured

COMMENTS: Altered zone with mineralization.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

Volcanics of probable Triassic age are cut by quartz diorite of the Cretaceous to Tertiary Coast Plutonic Complex. Molybdenite occurs as flakes and disseminations within a 75 by 35 metre zone of altered and fractured quartz diorite. Alteration minerals include kaolinite and sericite. Quartz veins are present but are unmineralized.

Scattered malachite was observed in three areas. About 900 metres to the southwest are quartz veins with molyb-

denite and pyrite within unaltered quartz diorite.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*7932, 8592 EMPR EXPL 1980-394

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

CODED BY: LDJ REVISED BY: DATE CODED: 1986/12/19 FIELD CHECK: N DATE REVISED: / / FIELD CHECK:

> MINFILE NUMBER: 103I 167

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 168

NATIONAL MINERAL INVENTORY:

NAME(S): POES, GROTTO

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

738

LATITUDE: 54 42 14 N

NORTHING: 6062026 EASTING: 540883

LONGITUDE: 128 21 56 W ELEVATION: 440 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Description; No. 7 vein sketch map, (Mandy, 1940, Property File).

COMMODITIES: Copper 7inc Silver Gold I ead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Galena Sphalerite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: I05 Po

Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 050/80W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Jurassic Hazelton Undefined Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1940 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip **GRADE** COMMODITY 209.0000 Silver Grams per tonne Grams per tonne

Gold 0.7000 Copper 4.5000 Per cent 6.8000 Per cent Lead Per cent 8.6000 7inc

COMMENTS: The sample width is 38.0 centimetres.

REFERENCE: Minister of Mines Annual Report 1940, page 55.

**CAPSULE GEOLOGY** 

Andesite of the Jurassic Hazelton Group is cut by porphyritic Andesite of the Jurassic Hazelton Group is cut by porphyritic granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. A northeast trending quartz vein, 60 metres long and 20 to 35 centimetres wide contains pyrite, galena, sphalerite and chalcopyrite. A 38 centimetre sample assayed 0.7 grams per tonne gold, 209 grams per tonne silver, 4.5 per cent copper, 6.8 per cent lead and 8.6 per cent zing (Minister of Mines Appual Report 1940)

cent zinc (Minister of Mines Annual Report 1940).

**BIBLIOGRAPHY** 

EMPR AR 1938-B27; 1939-69; \*1940-55

EMPR MAP 8; 69-1

EMPR PF (\*Maps & Rpt by J.T. Mandy, 1938; \*Sketch Maps by J.T. Mandy, 1940)

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 212, p. 40; 329, p. 89

DATE CODED: 1986/12/22 CODED BY: LDJ FIELD CHECK: N REVISED BY: DATE REVISED: / / FIELD CHECK:

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 169

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

739

NAME(S): **JEANETTE** JOS, JOS 1, NOR, BILLY

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103102E UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE:

NORTHING: 6002068 EASTING: 517664 LONGITUDE: 128 43 46 W ELEVATION: 450 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of drill holes, Map 2 (Assessment Report 6629); located north

of the junction of Dahl Creek and Little Wedeene River.

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Chlorite Sericite

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

Massive Disseminated

CHARACTER: Vein IV
CLASSIFICATION: Volcanogenic
TYPE: D03 Volcanic redbed Cu L01 Subvolcanic Cu-Ag-Au (As-Sb)

SHAPE: Irregular

MODIFIER: Sheared

DIMENSION: 0025 x 0003 Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GRO**UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Telkwa

LITHOLOGY: Andesite Porphyry

Quartz Sericite Chlorite Phyllite

HOSTROCK COMMENTS: Quartz-sericite-chlorite phyllite and silicified rhyolite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1986

> SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Gold 5.1800 Grams per tonne 1.8100 Per cent

Copper COMMENTS: The sample width is 1.8 metres.

REFERENCE: Assessment Report 15528.

**CAPSULE GEOLOGY** 

Pyrite, pyrrhotite and minor chalcopyrite occur as disseminations and fracture fillings in altered andesite porphyry and quartzsericite-chlorite phyllite of the Lower Jurassic Hazelton Group, Telkwa Formation. The rocks are sheared and brecciated in places. A 3 metre drill intersection assayed 0.43 per cent copper, 3.4 grams per tonne silver and 0.2 grams per tonne gold (Assessment Report 6629).

George Cross Newsletter #25, 1974 reported a surface showing averaging 4.16 per cent copper and 6.5 grams per tonne gold across 15 metres and a drill hole intersection of 3.14 per cent copper and 1.2 grams per tonne gold over 4.6 metres. The anomalous area is reported to be 1350 by 150 metres. Recent stripping exposed a copperbearing zone up to 3 metres wide and 25 metres long which strikes northeast and dips steeply northwest. A 1.8 metre sample assayed 1.21 per cent copper and 5.18 grams per tonne gold (Assessment Report 15528).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*6629, \*15528

EMPR EXPL 1977-207; 1987-C358

EMPR INF CIRC 1993-13

EMPR MAP 8

EMPR OF 1994-1

EMPR PF (Prospectus for Resolute Resources Ltd., pp. 10-13, Mar.4, 1987; Laramide Resources Ltd., Statement of Material Facts #78/87 May 29, 1987 pp. 4-6)

GSC MAP 1136A; 11-1956; 278A; 1385A

GSC MEM 329

GCNL Jan.17,22,30, Feb.5, 1974

DATE CODED: 1986/10/02 DATE REVISED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 103I 169

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 170

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6001564 EASTING: 536892

REPORT: RGEN0100

741

NAME(S): **HUMP** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I01W BC MAP: LATITUDE: 54 09 39 N

LONGITUDE: 128 26 06 W ELEVATION: 1220 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized veins, Map 3 (Assessment Report 9423).

COMMODITIES: Molybdenum Silver Copper

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Chalcopyrite Pyrite Magnetite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated

ST
CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L05 Po
SHAPE: Irregular

Porphyry Mo (Low F- type)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER **FORMATION** Coast Plutonic Complex

LITHOLOGY: Quartz Monzonite

Diorite Dike

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Plutonic Řocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1981 Assay/analysis

SAMPLE TYPE: Chip COMMODITY

**GRADE** Silver Grams per tonne 0.6000 Copper 0.0270 Per cent Molybdenum 0.2700 Per cent

REFERENCE: Assessment Report 9423.

**CAPSULE GEOLOGY** 

The area is underlain by quartz monzonite of the Cretaceous to Tertiary Coast Plutonic Complex. Andesite, aplite and diorite dykes cut the quartz monzonite. Molybdenite mineralization occurs in quartz veins and disseminated in the country rock. The veins are up to 10 centimetres wide and also contain pyrite, magnetite and minor chalcopyrite. A chip sample assayed 0.27 per cent molybdenum, 0.027 per cent copper and 0.6 grams per tonne silver (Assessment Report 9423).

North trending faults show normal displacement and may be related to molybdenite mineralization.

**BIBLIOGRAPHY** 

EMPR ASS RPT \*8938, 9423 EMPR EXPL 1981-390,391

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

CODED BY: LDJ DATE CODED: 1986/10/03 FIELD CHECK: N REVISED BY: DATE REVISED: FIELD CHECK:

> MINFILE NUMBER: 103I 170

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 171

NATIONAL MINERAL INVENTORY:

NAME(S): KIT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l02E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

742

LATITUDE: 54 01 34 N

NORTHING: 5986498 EASTING: 525730

LONGITUDE: 128 36 26 W ELEVATION: 25 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Vein 1, Figure 3 (Assessment Report 14322).

COMMODITIES: Lead 7inc Silver Gold Cadmium

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Chalcopyrite Pyrite

Barite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

Stockwork Disseminated Massive

CHARACTER: Vein
CLASSIFICATION: Epigenetic

Polymetallic veins Ag-Pb-Zn±Au

TYPE: I05 Po SHAPE: Regular MODIFIER: Fractured

DIMENSION: 61 x 14 COMMENTS: Vein 1. x 1 STRIKE/DIP: 160/90 Metres TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Granodiorite

Hornblende Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Plutonic Ŕocks

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1985

CATEGORY: Assay/analysis SAMPLE TYPE: Channel

**GRADE** COMMODITY

Silver 241.4000 Grams per tonne Gold 0.4100 Grams per tonne 3.6400 Per cent I ead 7inc 6.0100 Per cent

COMMENTS: The sample width is 13.0 centimetres. REFERENCE: Assessment Report 14322.

CAPSULE GEOLOGY

A barite-quartz system (eleven veins) is mineralized with galena, sphalerite, chalcopyrite and pyrite, within parallel fractures and fault zones. The veins strike 158 to 162 degrees and dip vertically. Host rocks are Cretaceous age, granodiorites and hornblende diorite of the Coast Plutonic Complex.

Vein 1 strikes 160 degrees and dips vertically. It is exposed for 61 metres long, 0.3 to 1.4 metres wide, and over 13.7 metres deep. The vein contains massive sulphide pods (2.5 to 5.0 centimetres by 5 to 15 centimetres) of galena, sphalerite and minor chalmans with massive sulphide pods (2.5 to 5.0 centimetres) of galena, sphalerite and minor chalmans with massive supplies and provides and p copyrite, with quartz and barite gangue. A 68 centimetre channel sample assayed 1.93 per cent lead, 1.85 per cent zinc and 4.1 grams per tonne silver (Assessment Report 14322). A 13 centimetre channel sample assayed 3.64 per cent lead, 6.01 per cent zinc, 241.4 grams per tonne silver and 0.41 grams per tonne gold.

The remaining veins, which are smaller, are exposed along a creek for about 450 metres in an east-southeast direction. The average of several grab and channel samples assayed 2.94 per cent lead, 1.94 per cent zinc, 61.7 grams per tonne silver and 0.24 grams per tonne gold. One grab sample assayed 1.15 per cent cadmium

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

(Assessment Report 14322).

**BIBLIOGRAPHY** 

EMPR AR 1928-68,69 EMPR ASS RPT \*14322 EMPR EXPL 1985-C371 EMPR MAP 8

GSC MAP 1136A; 1385A; 11-1956; 278A GSC MEM 329

DATE CODED: 1986/10/02 DATE REVISED: / / CODED BY: LDJ REVISED BY: FIELD CHECK: N

MINFILE NUMBER: 1031 171

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 172

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

744

NAME(S): **JOAN**, BOWBYES

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l02E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 5992799 EASTING: 518426

LATITUDE: 54 04 59 N
LONGITUDE: 128 43 06 W
ELEVATION: 360 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate claim location.

COMMODITIES: Tungsten Copper Nickel Iron

**MINERALS** 

SIGNIFICANT: Magnetite Pyrite COMMENTS: Probable mineralogy. Pyrite Chalcopyrite Scheelite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CHARACTER: UTINTOWIT CLASSIFICATION: Industrial Min. TYPE: K01 Cu skarn K03 Fe skarn

K05 W skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Stikine

**CAPSULE GEOLOGY** 

Mineralization consisting of probable scheelite,

magnetite, chalcopyrite and pyrite occurs in volcanic rocks

of the Jurassic Hazelton Group.

**BIBLIOGRAPHY** 

EMPR EXPL 1975-176; \*1987-B67-B70 EMPR GEM 1969-72; 1970-98; 1971-112; 1973-485; 1974-324

EMPR MAP 8

EMPR OF 1991-17 GSC MAP 11-1956; 278A; \*1136A; 1385A

GSC MEM 329

DATE CODED: 1986/10/02 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> 103I 172 MINFILE NUMBER:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 173

NATIONAL MINERAL INVENTORY:

NAME(S): **HAT**, DRUM, KM

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103I14E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

745

LATITUDE: 54 47 29 N

NORTHING: 6071578 EASTING: 499536

LONGITUDE: 129 00 26 W ELEVATION: 1430 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Quartz vein (Assessment Report 10821).

COMMODITIES: Gold Lead 7inc Silver Copper

**MINERALS** 

SIGNIFICANT: Arsenopyrite ASSOCIATED: Quartz Galena **Pyrite** Chalcopyrite Sphalerite Dolomite Akerite

ALTERATION: Limonite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: 105 PC

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

DIMENSION: STRIKE/DIP: 120/45N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

**FORMATION GROUP** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

Jurassic-Cretaceous Cretaceous-Tertiary

**Bowser Lake** Undefined Formation Coast Plutonic Complex

LITHOLOGY: Diorite

Granodiorite Siltstone Shale Argillite Conglomerate Sandstone Tuff

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Plutonic Rocks Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1982 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY 9587.8000 Silver Grams per tonne Gold 41.1000 Grams per tonne Per cent Copper 1.0000 Lead 1.0000 Per cent

COMMENTS: Lead and copper assays are greater than 1.0 per cent. REFERENCE: Assessment Report 10821.

**CAPSULE GEOLOGY** 

Jurassic to Cretaceous Bowser Lake Group sediments are intruded by granodiorite and diorite of the Cretaceous to Tertiary Coast Plutonic Complex. The sediments consist of a northeast striking, southeast dipping sequence of banded siltstone, shale, argillite and minor conglomerate, sandstone and tuff.

Quartz veins within the diorite carry arsenopyrite, galena, chalcopyrite, sphalerite and pyrite. A vein exposed for 30 metres and up to 0.5 metres wide assayed up to 41.1 grams per tonne gold and 9587.8 grams per tonne silver. The vein strikes 120 degrees and dips 45 northeast. Other groups of mineralized veins occur 450 metres to the east southeast and 1000 metres to the northeast. These veins are low in metal values (Assessment Report 10821).

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 10045, \*10821 EMPR EXPL 1981-189; 1982-370,371 EMPR MAP 8 EMR MP CORPFILE (Prism Resources Ltd.) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

PR REL Eagle Plains Resources Ltd., Feb.20, 2003

DATE CODED: 1986/09/24 DATE REVISED: 1989/08/28 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 173

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 174

NATIONAL MINERAL INVENTORY: 103I15 Au2

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6072814 EASTING: 501589

REPORT: RGEN0100

747

NAME(S): **CHRIS**, ORO, IKE, BEAVER, MAYOU, LAURA

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103I15W

BC MAP:

LATITUDE: LONGITUDE: 128 58 31 W

ELEVATION: 1350 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Main vein, Figure #4 (Assessment Report 10523).

COMMODITIES: Gold Silver I ead

**MINERALS** 

SIGNIFICANT: Arsenopyrite Galena Pyrite Chalcopyrite Sphalerite

ASSOCIATED: Quartz ALTERATION: Limonite
ALTERATION TYPE: Oxidation Scorodite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Massive Hydrothermal

TYPE: 105 I SHAPE: Regular Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0300 x 0025 x 0001 Metres

STRIKE/DIP: 075/75N TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Siltstone

Greywacke Granodiorite Dioritic Dike

Bowser Lake

**GEOLOGICAL SETTING** 

Jurassic-Cretaceous

TECTONIC BELT: Coast Crystalline TERRANE: Bowser Lake PHYSIOGRAPHIC AREA: Kitimat Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Undefined Formation

CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver

YEAR: 1981 **GRADE** 

80.5700 Grams per tonne 11.2500 Gold Grams per tonne 1.4000 Lead Per cent

COMMENTS: Average chip sample over 300 metre length.

REFERENCE: Assessment Report 10523.

**CAPSULE GEOLOGY** 

Jurassic to Cretaceous Bowser Lake Group sediments, predominantly siltstone with interbeds of greywacke, are intruded by granodiorite bodies and diorite dykes of the Cretaceous to Tertiary Coast Plutonic Complex. The sediments strike 030 degrees and dip 35 degrees southeast.

A gold bearing quartz vein, the Main vein, strikes 075 degrees and dips 75 degrees north within the siltstones. The vein is 300 metres long, 0.3 to 1.34 metres wide, averaging 0.6 metres and is up to 25 metres vertical depth. The vein consists of alternating layers of grey-white quartz, grey host siltstone layers, and massive mineralized layers of arsenopyrite, galena, pyrite and minor chalcopyrite and sphalerite. Average chip samples over the 300 metre length assayed 11.25 grams per tonne gold, 80.57 grams per tonne silver and 1.4 per cent lead (Assessment Report 10523).

A second similar vein, 40 metres to the south is 35 metres long and 0.16 to 0.52 metres wide, averaging 2.09 grams per tonne gold, 8.23 grams per tonne silver and 0.1 per cent lead (Assessment Report 10523).

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1918-50; 1928-71,72; \*1950-80,81; 1959-15; 1962-15 EMPR ASS RPT 8393, 10045, \*10523 EMPR EXPL 1980-397; 1981-317 EMPR GEM 1970-96 EMPR MAP 8 EMR MP CORPFILE (Prism Resources Ltd.) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329 DR REI, Eagle Plains Resources Ltd. Ech 20 2003

PR REL Eagle Plains Resources Ltd., Feb.20, 2003

DATE CODED: 1984/09/24 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 175 NATIONAL MINERAL INVENTORY: 103I9 Cu36

NAME(S): ANNETTE 2, BIG BOY

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6046933 EASTING: 546407 LATITUDE: 54 34 04 N

LONGITUDE: 128 16 56 W ELEVATION: 390 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Fracture zone, Figure 3a (Assessment Report 5962).

COMMODITIES: Copper Titanium

**MINERALS** 

Chalcopyrite

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Industrial Min. Polymetallic veins Ag-Pb-Zn±Au L01 Subvolcanic Cu-Ag-Au (As-Sb)

TYPE: I05 P SHAPE: Irregular MODIFIER: Fractured

STRIKE/DIP: 045/65S TREND/PLUNGE: DIMENSION: COMMENTS: Fractured zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton **Undefined Formation** 

LITHOLOGY: Argillite Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1976 CATEGORY: Assav/analysis

> SAMPLE TYPE: Rock

COMMODITY **GRADE** 

Copper 0.0200 Per cent Titanium 0.8000 Per cent

REFERENCE: Assessment Report 5962.

**CAPSULE GEOLOGY** 

The area is underlain by argillites and greywackes of the Jurassic Hazelton Group. A 120 metre long, northeast striking, and 65 degree south dipping fracture zone occurs in argillite. The fractures contain quartz veins and are mineralized with pyrite and chalcopyrite. A selected sample assayed 0.03 per cent copper and 0.8 per cent titanium (Assessment Report 5962).

**BIBLIOGRAPHY** 

EMPR AR 1932-84

EMPR ASS RPT 2325, \*5962, 6533 EMPR EXPL 1976-163; 1977-208; 1978-235; 1980-393

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 176

NAME(S): ANNETTE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 33 54 N LONGITUDE: 128 17 01 W ELEVATION: 490 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Sampling area.

COMMODITIES: Titanium

**MINERALS** 

SIGNIFICANT: Anatase MINERALIZATION AGE: Unknown Rutile

**DEPOSIT** 

CHARACTER: Unconsolidated
CLASSIFICATION: Placer
TYPE: C01 Surficial Industrial Min.

Surficial placers

COMMENTS: Sampling area of 500 by 500 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Jurassic GROUP Hazelton

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

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LITHOLOGY: Gravel

Sand Argillite Greywacke

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane

TERRANE: Stikine

PHYSIOGRAPHIC AREA: Hazelton Ranges

NATIONAL MINERAL INVENTORY: 103I9 Ti1

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6046623 EASTING: 546320

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: SAMPLE TYPE: Chip

Assay/analysis

YEAR: 1977

Per cent

COMMODITY

**GRADE** Titanium 0.7200

COMMENTS: This is the average of 31 samples over a 500 by 500 metre area. REFERENCE: Assessment Report 6533.

**CAPSULE GEOLOGY** 

The area is underlain by argillites and greywackes of the Jurassic Hazelton Group. Titanium, as anatase and rutile, occurs in sand and gravel overlying the sediments. Sampling of a 500 by 500 metre area averaged 0.72 per cent TiO2 from 31 samples (Assessment Report 6533). Titanium also occurs in

fractures in the underlying bedrock.

**BIBLIOGRAPHY** 

EMPR ASS RPT 2325, 5962, \*6533 EMPR EXPL 1976-163; 1977-208; 1978-235; 1980-393

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

DATE CODED: 1986/11/25 CODED BY: LDJ REVISED BY: LLD DATE REVISED: 1989/08/29

> MINFILE NUMBER: 103I 176

FIELD CHECK: N

FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 177

NATIONAL MINERAL INVENTORY: 10318 Ag1

NAME(S): LEAD KING, THORN 6

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca

NTS MAP: 103l08W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

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751

LATITUDE: 54 27 09 N LONGITUDE: 128 24 06 W ELEVATION: 1100 Metres NORTHING: 6034034 EASTING: 538794

LOCATION ACCURACY: Within 500M

COMMENTS: Description from Minister of Mines Annual Report 1927, page 124; property is located north of Mount Attree, in the southeast wall of

a basin near the head of a west fork of Eight Mile Creek.

COMMODITIES: Silver Gold Lead 7inc Copper

**MINERALS** 

SIGNIFICANT: Galena Pyrite Sphalerite Arsenopyrite Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: 105 Po Disseminated

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Regular

DIMENSION: STRIKE/DIP: 135/45S TREND/PLUNGE:

COMMENTS: Quartz vein 20 by 1 metre.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Granodiorite

Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: YEAR: 1927 Assay/analysis

SAMPLE TYPE: Rock

COMMODITY **GRADE** Silver 737.1000 Grams per tonne Gold 5.5000 Grams per tonne 34,0000 Per cent I ead Zinc 0.5000 Per cent

COMMENTS: Assays obtained from a "selected" sample. REFERENCE: Minister of Mines Annual Report 1927, page 124.

CAPSULE GEOLOGY

Granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex includes small roof pendants of Paleozoic age volcanic rocks cut by a 0.6 metre wide quartz vein. The vein, striking 135 degrees for 20 metres, and dipping 45 degrees southwest, is mineralized with galena, pyrite, sphalerite and minor arsenopyrite and chalcopyrite. A selected sample assayed 737.1 grams per tonne silver, 34 per cent lead, 0.5 per cent zinc and 5.5 grams per tonne gold (Minister of Mines Annual Report 1927).

**BIBLIOGRAPHY** 

EMPR AR \*1927-124

EMPR ASS RPT 13104, 14560

EMPR MAP 8; 69-1

GSC MAP 278A; 11-1956; 1136A; 1385A

GSS MEM 329

GSC P 36-20, p. 29 GSC SUM RPT \*1926A, p. 42 Allen, D.G. (1984): Geological and Geochemical Report on the Mount Thornhill Gold Prospect in Prospectus for Seaster Resource

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Corporation Oct. 23, 1984

DATE CODED: 1986/10/30 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 177

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 178 NATIONAL MINERAL INVENTORY: 10319 Au13

NAME(S): **BRUNSING** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6042357 EASTING: 536026

LATITUDE: 54 31 39 N
LONGITUDE: 128 26 36 W
ELEVATION: 300 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Geological Survey of Canada Summary Report 1925 Part

A, page 115.

COMMODITIES: Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I02 Intrus Intrusion-related Au pyrrhotite veins L01 Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary **FORMATION** IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex

LITHOLOGY: Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

A shear zone in diorite of the Cretaceous to Tertiary Coast Plutonic Complex contains numerous quartz stringers sparsely mineralized with pyrite, pyrrhotite and chalcopyrite. The veins

carry gold.

**BIBLIOGRAPHY** 

EMPR MAP 8; 69-1

GSC MAP 278A; 11-1956; 1136A; 1385A

GSC MEM 329 GSC P 36-20, p. 29 GSC SUM RPT \*1925A, p. 115

DATE CODED: 1986/10/27 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1031 178

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 179 NATIONAL MINERAL INVENTORY: 103I9 Cu25

NAME(S): **INDEPENDENT**, RAINBOW

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6057636 EASTING: 550061

LATITUDE: 54 39 49 N
LONGITUDE: 128 13 26 W
ELEVATION: 1100 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Description from Minister of Mines Annual Report 1914, map page 120.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Chalcopyrite Galena **Bornite** 

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Replacement
TYPE: D03 Volcar Disseminated

Volcanic redbed Cu I 01 Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP** STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Jurassic Hazelton

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1914

SAMPLE TYPE: Grab **GRADE** 

COMMODITY Silver 27.4000 Grams per tonne

Copper 4.0000 Per cent

COMMENTS: Sample from 1.5 metre mineralized zone. REFERENCE: Minister of Mines Annual Report 1914, page 136.

CAPSULE GEOLOGY

Pyrite, chalcopyrite and galena occur over a width of 1.5 metres in andesite of the Jurassic Hazelton Group. A typical sample assayed 4.0 per cent copper and 27.4 grams per tonne silver (Minister of

Mines Annual Report 1914).

On the adjacent Rainbow claim, located at a slightly higher

elevation, stringers of chalcopyrite and bornite are reported to occur

in fractured Hazelton Group rocks.

**BIBLIOGRAPHY** 

EMPR AR \*1914, p. 136, Map P120

EMPR MAP 8; 69-1 GSC MAP 278A; 11-1956; 1136A; 1385A

GSC MEM 329

GSC P 36-17

DATE CODED: 1986/11/24 DATE REVISED: 1989/08/29 FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 180

NATIONAL MINERAL INVENTORY: 103I16 Zn1

PAGE:

REPORT: RGEN0100

755

NAME(S): HERCULES

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I16W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6092229 EASTING: 547366

LATITUDE: 54 58 29 N
LONGITUDE: 128 15 36 W
ELEVATION: 1800 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Symbol #103 (Geological Survey of Canada Map 36-17).

COMMODITIES: Zinc Silver Copper Lead

**MINERALS** 

SIGNIFICANT: Sphalerite MINERALIZATION AGE: Unknown Pyrrhotite

**DEPOSIT** 

CHARACTER: Concordant CLASSIFICATION: Unknown Stratiform

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**GROUP** STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Bowser Lake** Undefined Formation Jurassic-Cretaceous

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1979

SAMPLE TYPE: Rock **GRADE** 

COMMODITY Silver 4.8000 Grams per tonne Copper 0.2300 Per cent

0.0400 Per cent I ead 6.6500 Per cent Zinc

REFERENCE: Assessment Report 9147.

**CAPSULE GEOLOGY** 

Sphalerite and pyrrhotite occur as small seams along bedding planes in argillites of the Jurassic to Cretaceous Bowser Lake Group. The sediments are intruded by dykes related to a granitic stock to

the northeast.

A sample taken from exploratory adits, in the area, returned values of 6.65 per cent zinc, 0.23 per cent copper and 4.8 grams per tonne silver and 0.21 per cent zinc, 0.23 per cent copper and 1.4

grams per tonne silver (Assessment Report 9147).

**BIBLIOGRAPHY** 

EMPR AR \*1927-128 EMPR ASS RPT 9147 EMPR EXPL 1981-9 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329 GSC P 36-17

DATE CODED: 1986/10/22 DATE REVISED: 1989/08/12 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 181

NATIONAL MINERAL INVENTORY: 103I15 Au7

NAME(S): GULD, ALICE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103I15E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

756

LATITUDE: 54 49 19 N LONGITUDE: 128 38 16 W ELEVATION: 1320 Metres NORTHING: 6075038 EASTING: 523273

LOCATION ACCURACY: Within 500M

COMMENTS: Vein, Figure 5 (Geological Survey of Canada Memoir 205).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant CLASSIFICATION: Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au DIMENSION: STRIKE/DIP: 030/65W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Conglomerate Argillite

Greywacke

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1930 Assay/analysis

SAMPLE TYPE: Grab COMMODITY

**GRADE** 12.0000 Grams per tonne

COMMENTS: One metre selected sample. REFERENCE: Minister of Mines Annual Report 1930, page 76.

**CAPSULE GEOLOGY** 

The area is underlain by argillite, greywacke, and conglomerate of the Jurassic to Cretaceous Bowser Lake Group. Narrow quartz veins lie conformably below a 35 to 75 metre wide conglomerate bed which

strikes northeast and dips 50 to 75 degrees southeast.

A 6 metre long, 0.5 metre wide quartz vein occurs in a sheared zone in the conglomerate. It strikes 030 degrees and dips 65 degrees west. A 1 metre sample assayed 12 grams per tonne gold (Annual

Report 1930).

**BIBLIOGRAPHY** 

EMPR AR \*1930-76 EMPR ASS RPT 21742

EMPR BULL 1 (1932) pp. 22,30

EMPR MAP 8

EMPR OF 1994-14

GSC MAP 1136A; 11-1956; 278A; 1385A GSC MEM \*205, pp. 19,20; 329, pp. 75,76 GSC P 36-17, p. 29 GSC SUM RPT 1923, pp. 42-44

DATE CODED: 1986/10/15 CODED BY: LDJ FIELD CHECK: N REVISED BY: LLD DATE REVISED: 1989/08/29 FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

PAGE:

NATIONAL MINERAL INVENTORY: 10319 Ag4

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6061241 EASTING: 539457

REPORT: RGEN0100

757

MINFILE NUMBER: 1031 182

NAME(S): RIDGE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I09W BC MAP:

LATITUDE: 54 41 49 N

LONGITUDE: 128 23 16 W ELEVATION: 910 Metres LOCATION ACCURACY: Within 500M COMMENTS: Description.

COMMODITIES: Tungsten

**MINERALS** 

SIGNIFICANT: Scheelite ASSOCIATED: Quartz **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal

TYPE: LÓ7 P SHAPE: Irregular Porphyry W

MODIFIER: Fractured

STRIKE/DIP: 150/90 TREND/PLUNGE: DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER **FORMATION** <u>GROUP</u>

Coast Plutonic Complex

LITHOLOGY: Granodiorite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

Several quartz veins cut granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. The veins, which strike 150 degrees and dip vertical, are related to a north trending fault. Pyrite and scheelite occur as disseminations within the quartz veins. The highest assay was 0.06 per cent tungsten (Property File - Byers,

1942). The mineralized zone measures 250 by 30 metres.

**BIBLIOGRAPHY** 

EMPR BULL 10(REV), p. 59

EMPR MAP 8; 69-1 EMPR OF 1991-17 EMPR PF (\*Rpt by R.A. Byers, 1942) GSC EC GEOL No. 17, p. 45 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

CODED BY: LDJ DATE CODED: 1986/12/22 FIELD CHECK: N DATE REVISED: / / REVISED BY: FIELD CHECK:

> MINFILE NUMBER: 103I 182

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 183 NATIONAL MINERAL INVENTORY: 103I9 Cu34

NAME(S): USK

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 38 19 N
LONGITUDE: 128 22 56 W
ELEVATION: 360 Metres
LOCATION ACCURACY: Within 500M NORTHING: 6054753 EASTING: 539872

COMMENTS: Description (Geological Survey of Canada Memoir 205, page 46).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Quartz Chalcopyrite Galena Pyrite Chalcocite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Unknown

Volcanic redbed Cu L01 Subvolcanic Cu-Ag-Au (As-Sb)

TYPE: D03 V SHAPE: Irregular MODIFIER: Fractured

TREND/PLUNGE: STRIKE/DIP: 125/20N DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE GROUP Hazelton IGNEOUS/METAMORPHIC/OTHER Jurassic Undefined Formation

LITHOLOGY: Andesite

Albite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

**CAPSULE GEOLOGY** 

Andesite rocks of the Jurassic Hazelton Group are cut by albite dykes. An east trending, north dipping altered zone contains disseminated bornite, chalcopyrite, galena, chalcocite, and pyrite over a 1 metre width. This zone is likely the one described north of

Emma Creek in Geological Survey of Canada Memoir 205.

**BIBLIOGRAPHY** 

EMPR AR 1923-102; 1924-89; 1927-125

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*205, p. 46; 329 GSC P 36-20, p. 39

GSC P 36-20, p. 39 GSC SUM RPT 1925A, p. 116

DATE CODED: 1986/12/09 DATE REVISED: 1989/08/29 CODED BY: LDJ FIELD CHECK: N REVISED BY: LLD FIFLD CHECK: N

> MINFILE NUMBER: 103I 183

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 184

NATIONAL MINERAL INVENTORY: 10318 Cu3

NAME(S): SOCIETY GIRL, SADIE, THORN

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l08W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

759

LATITUDE: 54 28 59 N NORTHING: 6037418 EASTING: 536875

LONGITUDE: 128 25 51 W ELEVATION: 1335 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of old showing is poorly documented. Mineralized sample JT20 Fig. 6b (Assessment Report 14560). Pre 1986 103I-J184. Assessment Report 15115 refers to the Society Girl showing which, according to

old references, is likely the St. Paul showing (1031 098).

COMMODITIES: Gold Silver Lead 7inc Copper

**MINERALS** 

SIGNIFICANT: Pyrite

Covellite

Chalcopyrite Galena Arsenopyrite

Freibergite

Sphalerite

ALTERATION: Malachite ALTERATION TYPE: Silicific'n

ASSOCIATED: Quartz

Silica

MINERALIZATION AGE: Unknown

Oxidation

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Epigenetic

TYPE: 105

Polymetallic veins Ag-Pb-Zn±Au

Azurite

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER
Coast Plutonic Complex STRAIIGNAFTING. STRATIGRAPHIC AGE \_\_GROUP **FORMATION** 

LITHOLOGY: Felsite

Biotite Granodiorite Andesite Lamprophyre Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

**GRADE** 

13.7000 0.3000

0.0100

1.0800

0.0200

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE

Lead

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Rock

YEAR: 1984

COMMODITY Silver Gold Copper

Grams per tonne Grams per tonne Per cent

Per cent

Per cent

Zinc

REFERENCE: Assessment Report 13114.

**CAPSULE GEOLOGY** 

A 4.5 to 6.0 metre wide, east trending, felsite dyke cuts massive biotite grandiorite and lamprophyre dykes of the Cretaceous to Tertiary Coast Plutonic Complex. Quartz veins, 0.2 to 1.4 metres wide, occur for several hundred metres along either side of the dyke.

The Society Girl vein, a continuation to the west of the St. Paul vein (1031 098), occurs on the hangingwall side of the dyke. The vein is sparsely mineralized with pyrite, chalcopyrite, and galena. A 76 centimetre sample assayed 6.9 grams per tonne gold and 17.1 grams per tonne silver (Minister of Mines, Annual Report 1914). A sample of a quartz vein, which is likely part of the Society Girl vein, assayed 0.3 grams per tonne gold, 13.7 grams per tonne silver, 0.01 per cent copper, 1.08 per cent lead, and 0.02 per cent zinc (Assessment Report 13104).

In 1986, sample TT-45 was collected from the quartz vein exposed in the adit on the Society Girl claim and assayed 1.19 grams

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

per tonne gold. The quartz vein contains massive pyrite and trace to  $2.0\ \mathrm{per}$  cent chalcopyrite and galena across a 70 centimetre width (Di Spirito, et al., 1986).

The Sadie showing, located just north of the Society Girl, is comprised of a 1.0 metre wide quartz vein containing chalcopyrite, pyrite, malachite and azurite. A 30 centimetre sample taken from this vein in 1929, assayed trace gold, 55 grams per tonne silver and 9.0 per cent copper (Minister of Mines Annual Report 1929, page 78). Mineralogical studies of the Society Girl quartz vein shows that it also contains small amounts of covellite and arsenopyrite. Sphalerite is locally abundant within this vein. Chalcopyrite occurs as irregular masses up to 2 centimteres in diameter with associated malachite and azurite. Goethite occurs as a minor alteration product of pyrite in the western portion of the Society Girl vein (DiSpirito

#### **BIBLIOGRAPHY**

EMPR AR \*1914-113; 1918-51; 1921-45; 1924-49; 1925-71; 1926-75; 1929-78; 1930-78 EMPR ASS RPT \*13104, 14560, \*15115 EMPR BULL 1, 1932, p. 30 EMPR EXPL 1984-375; 1986-C427 EMPR MAP 8; 69-1
EMPR PF (\*DiSpirito, F. et al. (1986): Geophysical, Geochemical and
 Geological Surveys on the Thorn Project in Prospectus for Castello Resources Ltd., Jul.13, 1987) GSC MAP 11-1956; 278A; 1136A; 1385A GCS MEM 205; 212 ;329 GSC P 36-20, p. 25 GSC SUM RPT 1925A, p. 118; 1926A, pp. 41,42

DATE CODED: 1986/10/30 DATE REVISED: 1989/08/10

et al. 1986).

CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103I 184

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 185

NATIONAL MINERAL INVENTORY:

Pyrrhotite

NAME(S): **GAZELLE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l08W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

761

LATITUDE: 54 20 44 N

NORTHING: 6022178 EASTING: 543680

LONGITUDE: 128 19 41 W ELEVATION: 1160 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone, Maps 1 & 2 (Assessment Report 14076).

COMMODITIES: Gold Silver 7inc Copper Lead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Sphalerite Galena Calcite Epidote

ALTERATION: Limonite Śilica Jarosite ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown Oxidation

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: 105 Po Disseminated Massive Epithermal Hvdrothermal

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Sheared

STRIKE/DIP: 010/80E TREND/PLUNGE: DIMENSION:

COMMENTS: Mineralized zone.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Pennsylvan.-Permian GROUP Unnamed/Unknown Group FORMATION Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

> LITHOLOGY: Rhyolite Tuff

Andesite Limestone Siltstone Dacitic Dike Andesitic Breccia Dioritic Dike Granodiorite Greisen

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1984

SAMPLE TYPE: Rock

COMMODITY **GRADE** 6.0000 Grams per tonne Gold 7.1100 Grams per tonne Copper 0.0800 Per cent 0.0200 Per cent Zinc

REFERENCE: Assessment Report 12717.

CAPSULE GEOLOGY

The area is underlain by late Paleozoic greenstone, andesite-rhyolite tuff, and massive andesite, Permian age limestone and siltstone, and Lower Jurassic Hazelton Group andesitic breccia. The rocks are intruded by andesite, dacite, and diorite dykes and granodiorite plutons of the Cretaceous to Tertiary Coast Plutonic Complex. A major fault, trending 010 degrees and dipping 80 to 90 degrees east, cuts the volcanics, and has associated mineralized shear zones and quartz veins (2 to 10 centimetres wide).

The mineralized zone is 500 by 100 metres and contains lenses and disseminations of sphalerite, galena, pyrite, chalcopyrite, and

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

pyrrhotite. Gangue minerals include epidote, quartz, and calcite and alteration minerals include limonite and jarosite. A quartz vein in foliated green andesite assayed 7.11 grams per tonne gold, 6.0 grams per tonne silver, 0.08 per cent copper, and 0.02 per cent zinc and a sample, likely from float, assayed 20 grams per tonne silver, 0.70 grams per tonne gold, 0.326 per cent copper, 1.13 per cent lead, and 4.13 per cent zinc (Assessment Report 12717). The mineralization is likely primary with secondary enrichment occurring during silicification by epithermal activity (Assessment Report 12717). cification by epithermal activity (Assessment Report 12717).

### **BIBLIOGRAPHY**

EMPR ASS RPT \*12717, 14076 EMPR EXPL 1984-376; 1985-C372 EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/10/27 DATE REVISED: 1987/07/23 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103I 185

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REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 186 NATIONAL MINERAL INVENTORY: 103I9 Cu4

NAME(S): PEERLESS

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6043548 EASTING: 560822 LATITUDE: 54 32 09 N

LONGITUDE: 128 03 36 W ELEVATION: 1330 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions from Geological Survey of Canada Summary Report 1925 Part

A, page 114.

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcocite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown Bornite Chalcopyrite Magnetite

Calcite

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: L01 Subvo

Subvolcanic Cu-Ag-Au (As-Sb) D03 Volcanic redbed Cu

SHAPE: Irregular

MODIFIER: Sheared DIMENSION: STRIKE/DIP: 025/75W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION GROUP** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton **Undefined Formation** 

LITHOLOGY: Andesite

Intrusive Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1925

SAMPLE TYPE: Rock

COMMODITY Silver 157.7000 Grams per tonne 1.4000 Gold Grams per tonne

Copper COMMENTS: The sample width is 1.2 metres. 11.9300 Per cent

REFERENCE: Geological Survey of Canada, Summary Report 1925A, page 114.

CAPSULE GEOLOGY

Andesitic volcanics of the Jurassic Hazelton Group are cut by intrusive dykes and northeast trending shear zones. A shear zone, dipping 75 degrees west and up to 2 metres wide, contains quartz-calcite veinlets mineralized with lenses of chalcocite, bornite, magnetite, and chalcopyrite. A 1.2 metre sample assayed 11.93 per cent copper, 157.7 grams per tonne silver, and 1.4 grams per tonne gold (Geological Survey of Canada, Summary Report 1925A).

**BIBLIOGRAPHY** 

EMPR AR 1914-122-123, Map Pl20; 1917-96; 1920-83; 1924-89; 1928-147; 1930-136

EMPR MAP 8

EMPR PF (Map, 1929; Map by J. Willman, Feb. 1929) GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

GSC P 36-17

GSC SUM RPT 1925A, p. 114

CODED BY: LDJ REVISED BY: LLD DATE CODED: 1986/11/07 FIELD CHECK: N DATE REVISED: 1989/08/29 FIFLD CHECK: N

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 187

NATIONAL MINERAL INVENTORY: 103I15 Au9

PAGE:

REPORT: RGEN0100

764

NAME(S): **COMSTOCK**, VIRGINIA

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I15E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 49 39 N
LONGITUDE: 128 36 36 W
ELEVATION: 1500 Metres
LOCATION ACCURACY: Within 1 KM NORTHING: 6075666 EASTING: 525055

COMMENTS: Symbol 93 (Geological Survey of Canada, Map 36-17).

COMMODITIES: Gold 7inc Lead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Sphalerite Galena Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE
Jurassic-Cretaceous

GROUP
Bowser Lake **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Argillite

Albite Dioritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

**CAPSULE GEOLOGY** 

A narrow, low-dipping dyke of albite-rich diorite intrudes argillites of the Jurassic to Cretaceous Bowser Lake Group. The dyke contains quartz veins with pyrite, sphalerite, galena, and minor

chalcopyrite. Assays indicate low gold content.

**BIBLIOGRAPHY** 

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329

GSC P \*36-17; 36-20, p. 49

DATE CODED: 1986/10/16 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 103I 187

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 188 NATIONAL MINERAL INVENTORY: 103I16 Ag5

NAME(S): **BRENTFORD**, HEDLEY (L.6324), PAYNE, PAINE, SATURN 2, SATURN

STATUS: Showing MINING DIVISION: Omineca

REGIONS: British Columbia NTS MAP: 103I16W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE:

NORTHING: 6076078 EASTING: 539506 LONGITUDE: 128 23 06 W ELEVATION: 280 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Hedley claim (L.6324); quartz veins.

COMMODITIES: Silver 7inc Gold Lead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym

Polymetallic veins Ag-Pb-Zn±Au STRIKE/DIP: 030/80E DIMENSION: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Bowser Lake Jurassic-Cretaceous Undefined Formation

Unknown Unnamed/Unknown Informal

LITHOLOGY: Diorite

Tuff Argillite

HOSTROCK COMMENTS: Diorite intrusive cuts sediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: YEAR: 1932 Assay/analysis

SAMPLE TYPE: Grab **COMMO**DITY **GRADE** Silver 377.0000 Grams per tonne 1.4000 Gold Grams per tonne

1.0000 Per cent Copper Per cent Lead 11.0000 Per cent 8.0000

Zinc
COMMENTS: The sample was selected from a dump.

REFERENCE: Minister of Mines, Annual Report 1932, pages 84,85.

**CAPSULE GEOLOGY** 

Two parallel quartz veins, about 30 metres apart, occur in a small diorite intrusive which cuts tuffs and argillites of the  $\,$ Jurassic to Cretaceous Bowser Lake Group. The veins, which strike 030 degrees and dip steeply east, are 1 to 2 metres wide and are minoralized with purity abeliance. mineralized with pyrite, chalcopyrite, galena, and sphalerite. A 30 centimetre sample assayed 1.7 grams per tonne gold, 261 grams per tonne silver, and 1.1 per cent copper (Minister of Mines Annual Report 1914) and a selected sample from a dump assayed 1.4 grams per tonne gold, 377 grams per tonne silver, 11 per cent lead, 8 per cent zinc, and 1 per cent copper (Minister of Mines Annual Report 1932).

**BIBLIOGRAPHY** 

EMPR AR \*1914-138-139; 1915-78; 1916-90; 1920-349;

1925-133; \*1932-84-85; 1967-83 EMPR ASS RPT 10033, 16160, 19349, 20344, 21894

EMPR EXPL 1987-C351 EMPR MAP 8; 69-1 EMPR OF 1994-14

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329 GSC P 36-17

DATE CODED: 1986/10/17 DATE REVISED: 1987/12/23 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103I 188

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 189

NATIONAL MINERAL INVENTORY: 10319 Ag3

PAGE:

NORTHING: 6065893 EASTING: 541205

REPORT: RGEN0100

767

NAME(S): HELEN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 44 19 N LONGITUDE: 128 21 36 W ELEVATION: 750 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description and Geological Survey of Canada Map 36-17.

COMMODITIES: Silver Copper 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Galena Sphalerite Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant CLASSIFICATION: Hydrothermal

TYPE: 105 F SHAPE: Irregular Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Sheared

TREND/PLUNGE: STRIKE/DIP: 125/35W DIMENSION:

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Argillite

Quartzite Basalt Andesite Granodiorite Dioritic Sill

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Bowser Lake PHYSIOGRAPHIC AREA: Hazelton Ranges

Stikine COMMENTS: Cover rocks of the Stikinia Terrane.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1932 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

356.0000 Silver Grams per tonne Copper 3.5000 Per cent 7inc 4.0000 Per cent

COMMENTS: The sample width is 1 metre.

REFERENCE: Minister of Mines, Annual Report 1932, page 84.

CAPSULE GEOLOGY

Jurassic to Cretaceous argillites and quartzites of the Bowser Lake Group overlie basalts and andesites of the Jurassic Hazelton Group. The rocks are cut by granodiorite and diorite sills of the Cretaceous to Tertiary Coast Plutonic Complex.

Chalcopyrite, galena, sphalerite, pyrite and quartz are irregularly distributed along the argillite bed which strikes 125 degrees and dips 35 degrees southwest. The zone is up to 2 metres wide and a one metre sample assayed trace gold, 356 grams per tonne silver, 3.5 per cent copper, and 4 per cent zinc (Minister of Mines Appual Boppert 1922)

Annual Report 1932).

**BIBLIOGRAPHY** 

EMPR AR 1931-71; \*1932-84

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM \*212, pp. 40,41; 329

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 36-17; \*36-20, p. 37

DATE CODED: 1986/12/16 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1031 189

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT 12:06:33 RUN TIME:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 190

NATIONAL MINERAL INVENTORY: 103I9 Ag10

PAGE:

REPORT: RGEN0100

769

NAME(S): **HALLIDAY** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6054910 EASTING: 554932 LATITUDE: 54 38 19 N LONGITUDE: 128 08 56 W ELEVATION: 1580 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1917, page 101.

COMMODITIES: Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

ST
CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su
SHAPE: Irregular

Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

ORE ZONE: SAMPLE

Pyroxene Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

REPORT ON: N

TERRANE: Stikine

INVENTORY

YEAR: 1917 CATEGORY: Assay/analysis SAMPLE TYPE: Rock

COMMODITY **GRADE** 

Silver 393.0000 Grams per tonne Gold 4.1000 Grams per tonne 0.0500 Per cent

Copper COMMENTS: The sample width is 0.8 metres.

REFERENCE: Minister of Mines, Annual Report 1917, page 101.

**CAPSULE GEOLOGY** 

Jurassic Hazelton Group volcanics are intruded by a pyroxene quartz diorite stock of the Cretaceous to Tertiary Coast Plutonic Complex. A 0.6 to 1.2 metre wide quartz vein occurs along the contact between green andesites and red andesites of the Hazelton Group. The vein is mineralized with minor galena, pyrite, and chalcopyrite. A 0.8 metre sample across the vein assayed 343 grams per tonne silver, 4.1 grams per tonne gold, and 0.5 per cent copper (Minister of Mines Annual Report 1917).

**BIBLIOGRAPHY** 

EMPR AR 1916-101; \*1917-101; 1919-100; 1921-97

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/11/19 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 191

NATIONAL MINERAL INVENTORY: 10319 Ag12

PAGE:

REPORT: RGEN0100

770

NAME(S): COFFEE POT, GREY COPPER

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l09E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6052133 EASTING: 555324 LATITUDE: 54 36 49 N

LONGITUDE: 128 08 36 W ELEVATION: 1570 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Description from Minister of Mines Annual Report 1923, page 103.

COMMODITIES: Silver Copper Gold Lead

**MINERALS** 

SIGNIFICANT: Tetrahedrite ASSOCIATED: Quartz Chalcopyrite Galena **Bornite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

ST
CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L01 Su
SHAPE: Irregular Hydrothermal

Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1923

> SAMPLE TYPE: Rock

COMMODITY **GRADE** Silver 2091.0000 Grams per tonne Gold 1.4000 Grams per tonne

Copper Per cent 3.6000

COMMENTS: The sample width is 15 centimetres. REFERENCE: Ministry of Mines, Annual Report 1923, page 103.

**CAPSULE GEOLOGY** 

Volcanic rocks of the Jurassic Hazelton Group are intruded by a diorite stock of the Cretaceous to Tertiary Coast Plutonic Complex.

Several narrow quartz veins, mineralized with tetrahedrite,

chalcopyrite, galena, and bornite, occur in the volcanic rocks. A sample from a 15 centimetre wide vein assayed 2091 grams per tonne silver, 1.4 grams per tonne gold, and 3.6 per cent copper (Annual Report 1923).

**BIBLIOGRAPHY** 

EMPR AR \*1923-103; 1924-88-93; 1925-127-128; 1926-125

EMPR ASS RPT 15985

EMPR EXPL 1987-C359

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A; GSC MEM 329

GSC P 36-17

GSC SUM RPT 1923A, p. 113

CMJ Oct. 30, 1921

DATE CODED: 1986/11/10 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 192

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6028991 EASTING: 524773

REPORT: RGEN0100

771

NAME(S): HAL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l07E BC MAP:

LATITUDE: 54 24 29 N LONGITUDE: 128 37 06 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Centre of claim group (Geology, Exploration and Mining in B.C. 1971,

page 113).

COMMODITIES: Copper Molybdenum 7inc Iron

**MINERALS** 

SIGNIFICANT: Chalcopyrite Molybdenite Sphalerite Magnetite

ASSOCIATED: Epidote Garnét

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Skarn TYPE: K01 Replacement Industrial Min.

Cu skarn K07 Mo skarn K03 Fe skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE
Permian **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Unnamed/Unknown Formation

Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Limestone

Diorite Granodiorite Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Stikine Plutonic Rocks

**CAPSULE GEOLOGY** 

Paleozoic volcanic rocks and sediments are intruded by diorite and granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex. Mineralization is likely similar to nearby showings (refer to Lady Luck - 103I 013) and consists of disseminated and patchy

chalcopyrite, molybdenite, magnetite, and sphalerite in skarn zones.

**BIBLIOGRAPHY** 

EMPR GEM \*1971-113

EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/10/08 DATE REVISED: 1989/08/29 CODED BY: LDJ FIELD CHECK: N REVISED BY: LLD FIFLD CHECK: N

> MINFILE NUMBER: 103I 192

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 193

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6030280 EASTING: 562621

REPORT: RGEN0100

772

NAME(S): CHLORE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 24 59 N
LONGITUDE: 128 02 06 W
ELEVATION: 300 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS: Description.

COMMODITIES: Clay

**MINERALS** 

SIGNIFICANT: Clay MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Sedimentary TYPE: B06 Fireclay Unconsolidated Industrial Min.

F07 Sedimentary kaolin

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

**CAPSULE GEOLOGY** 

A fine plastic purplish-brown clay of very absorbent quality and with a low coefficient of expansion occurs over the divide from Williams Creek to Chlore River. The clay hardens very rapidly on drying with a normal temperature and takes on a brilliant polish without burning or glazing.

**BIBLIOGRAPHY** 

EMPR AR \*1930-79-80 EMPR MAP 8; 69-1

GSC MAP 278A; 1136A; 1385A; 11-1956

GSC MEM 329

DATE CODED: 1986/12/08 DATE REVISED: / / FIELD CHECK: N FIELD CHECK:

CODED BY: LDJ REVISED BY:

103I 193 MINFILE NUMBER:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 194

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 6037342 EASTING: 525807

REPORT: RGEN0100

773

NAME(S): AIRPORT

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l07E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 28 59 N

LONGITUDE: 128 36 06 W ELEVATION: 150 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description.

COMMODITIES: Clay

**MINERALS** 

SIGNIFICANT: Clay MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Sedimentary TYPE: B06 Fireclay Unconsolidated Industrial Min.

F07 Sedimentary kaolin

SHAPE: Tabular

**HOST ROCK** DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal FORMATION

LITHOLOGY: Clay

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Stikine

**CAPSULE GEOLOGY** 

Light brown to grey, fine-grained clay is exposed with a thickness of more than  $25\ \mathrm{metres}$  in finely stratified beds. It is very plastic and works well but tends to crack on drying. Firing characteristics are 15 per cent absorption, 3 per cent shrinkage, a cone 06 clay, and a dark salmon colour.

**BIBLIOGRAPHY** 

EMPR BULL \*30, pp. 16,55

EMPR MAP 8

GSC MAP 278A; 1136A; 1385A; 11-1956 GSC MEM 329

Falconbridge File

CODED BY: LDJ REVISED BY: DATE CODED: 1986/12/08 FIELD CHECK: N

DATE REVISED: // FIELD CHECK:

> 103I 194 MINFILE NUMBER:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 195

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

774

NAME(S): TURNER'S RANCH

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I10E BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6046608 EASTING: 524677

LATITUDE: 54 33 59 N
LONGITUDE: 128 37 06 W
ELEVATION: 150 Metres
LOCATION ACCURACY: Within 1 KM

COMMODITIES: Clay

COMMENTS: Description.

**MINERALS** 

SIGNIFICANT: Clay MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive
CLASSIFICATION: Sedimentary
TYPE: B06 Fireclay Unconsolidated Industrial Min.

F07 Sedimentary kaolin

SHAPE: Tabular

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal STRATIGRAPHIC AGE GROUP Quaternary **FORMATION** 

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Stikine

LITHOLOGY: Glacial Clay

**CAPSULE GEOLOGY** 

Glacial clay is exposed north of Terrace. It is a fine,

very plastic chocolate-brown clay.

**BIBLIOGRAPHY** 

EMPR AR \*1930-79

EMPR BULL \*30, pp. 16,55

EMPR MAP 8
GSC MAP 278A; 1136A; 1385A; 11-1956
GSC MEM 329

DATE CODED: 1986/12/08 CODED BY: LDJ FIELD CHECK: N

DATE REVISED: // REVISED BY: FIELD CHECK:

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 196 NATIONAL MINERAL INVENTORY: 103I9 Cu36

NAME(S): **BIG BOY**, ANNETTE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6047682 EASTING: 544065 LATITUDE: 54 34 29 N

LONGITUDE: 128 19 06 W ELEVATION: 350 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1932, page 84.

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown Chalcopyrite

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb) D03 Volcanic redbed Cu

SHAPE: Irregular MODIFIER: Sheared

**HOST ROCK** DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

Aplite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1932 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

137.1000 Silver Grams per tonne

7.0000 Copper Per cent

REFERENCE: Minister of Mines, Annual Report 1932, page 84.

**CAPSULE GEOLOGY** 

Andesitic rock of the Jurassic Hazelton Group is intruded by aplite. A shear zone in the andesite is mineralized with pyrite and minor chalcopyrite. A sample assayed trace gold, 137.1 grams per tonne silver, and 7 per cent copper (Minister of Mines, Annual Report 1932). The aplite contains seams of solid pyrite several centimetres

thick.

**BIBLIOGRAPHY** 

EMPR AR \*1932-84 EMPR MAP 8

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329 GSC P 36-20, p. 39

DATE CODED: 1986/12/24 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 197

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6037375 EASTING: 551562

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

776

NAME(S): **DARDANELLE** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 28 53 N

LONGITUDE: 128 12 15 W ELEVATION: 760 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Location centered on surface trace of limestone band on Zymoetz River,

east of Dardanelle Creek as shown on GSC Open File 1136 map.

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite
Mica

ASSOCIATED: Mica Clay Quartz COMMENTS: Contained in insoluble residue.

MINERALIZATION AGE: Lower Permian

DATING METHOD: Fossil MATERIAL DATED: Fusulinids ISOTOPIC AGE:

**DEPOSIT** 

CHARACTER: Stratiform

Massive CLASSIFICATION: Sedimentary Evaporite

TYPE: R09 DIMENSION: 5000 Limestone Metres STRIKE/DIP: TREND/PLUNGE:

**FORMATION** 

Undefined Formation

Industrial Min.

COMMENTS: Limestone band trends northeast.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Undefined Group Lower Permian Undefine DATING METHOD: Fossil

MATERIAL DATED: Fusulinids

LITHOLOGY: Limestone

Argillaceous Limestone

Granite Granodiorite Breccia Tuff Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges TERRANE: Stikine

COMMENTS: Situated along contact between Intermontane & Coastal Plutonic belts.

**CAPSULE GEOLOGY** 

A 5 kilometre long, northeast trending band of limestone outcrops on both sides of the Zymoetz River, 1 to 5 kilometres west of its confluence with Dardanelle Creek. The band is bounded to the north by Jurassic aged granite and granodiorite and overlain to the south by basaltic to rhyolitic flows, tuff and breccia of the Upper Triassic to Lower Jurassic aged Telkwa Formation. The band is

truncated to the northeast and southwest by several faults.

The deposit is comprised of a 15 to 30 metre thick bed of pure white, fossiliferous limestone that is conformably underlain by argillaceous limestone and overlain by 6 to 15 metres of impure limestone with large white fusilinids in a rose coloured matrix of carbonate and iron oxide. Eight samples of the pure limestone averaged 2.3 percent in insoluble residues, which contained mica,

clay, silt and some quartz grains.

**BIBLIOGRAPHY** 

GSC MAP 11-1956; 278A; 1136A GSC MEM \*329, pp. 15,16

GSC OF 1136

DATE CODED: 1986/10/27 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/16 REVISED BY: PSF FIELD CHECK: N

> MINFILE NUMBER: 103I 197

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 198

NATIONAL MINERAL INVENTORY:

NAME(S): MT. ATTREE

STATUS: Showing REGIONS: British Columbia NTS MAP: 103l08W BC MAP:

Skeena UTM ZONE: 09 (NAD 83)

MINING DIVISION: Omineca

PAGE:

REPORT: RGEN0100

777

LATITUDE: 54 26 03 N

NORTHING: 6032043 EASTING: 544270

LONGITUDE: 128 19 03 W ELEVATION: 1433 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Location centered on surface trace of limestone outcrop east of Mt. tree as shown on GSC Open File 1136 map.

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite

MINERALIZATION AGE: Lower Permian

DEPOSIT

Massive

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Evaporite Industrial Min. Limestone

TYPE: R09 DIMENSION: 5600 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Bedding dips 45 to 67 degrees northeast to southeast.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

**FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Lower Permian Undefined Formation

LITHOLOGY: Limestone

Greenstone Tuff

Argillaceous Limestone

Breccia Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

Lower Permian aged limestone outcrops 5.6 kilometres along a northwest trending ridge just east of Mt. Attree, 19 kilometres southwest of Terrace. The bed is conformably overlain by greenstone, tuff, shale and argillaceous limestone to the north. To the south it is thrust faulted over basaltic to rhyolitic flows, tuff and breccia of the Upper Triassic to Lower Jurassic aged Telkwa Formation. Bedding dips 45 to 67 degrees northeast to southeast.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Limestone Occurrences in British Columbia by

J.W. McCammon, 1973, p. 31 (in Ministry Library)) GSC MAP 11-1956; 278A; 1136A

GSC MEM 329, pp. 14-17

GSC OF 1136

DATE CODED: 1986/10/27 DATE REVISED: 1989/08/16 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

> MINFILE NUMBER: 1031 198

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 199

NATIONAL MINERAL INVENTORY:

NAME(S): MT. LAYTON

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l08W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

778

LATITUDE: 54 25 11 N

NORTHING: 6030347 EASTING: 533850

LONGITUDE: 128 28 42 W ELEVATION: 1067 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Location centered on outcrop of limestone on Mt. Layton as shown on

GSC Map 1136A.

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite

MINERALIZATION AGE: Lower Permian

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Massive

Evaporite Industrial Min. TYPE: R09 Limestone

DIMENSION: 2300 x 1000 STRIKE/DIP: 008/35E TREND/PLUNGE: Metres

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Permian Undefined Group Undefined Formation

LITHOLOGY: Limestone

Greenstone Tuff Breccia

Argillaceous Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Stikine

**CAPSULE GEOLOGY** 

A bed of Lower Permian aged limestone trends northwesterly across the top of Mt. Layton for 2300 metres, 13 kilometres southeast of Terrace. The deposit outcrops over widths of up to 1000 metres. Bedding strikes 008 degrees and dips 35 degrees east. The limestone conformably rests on a sequence of greenstone, tuff, breccia, shale

and argillaceous limestone.

The deposit is comprised of massive beds of white limestone 3 to 9 metres thick that contain a few fine, discontinuous blue bands. The beds are sometimes separated by 1.5 to 1.8 metres of sandstone.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Limestone Occurrences in British Columbia by

J.W. McCammon, 1973, p. 32 (in Ministry Library)) GSC MAP 11-1956; 278A; 1136A GSC MEM \*329, p. 16

GSC OF 1136

DATE CODED: 1986/10/27 DATE REVISED: 1989/08/15 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

> MINFILE NUMBER: 1031 199

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 200

NATIONAL MINERAL INVENTORY:

NAME(S): **ZYMOETZ RIVER** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 103I09W BC MAP:

MINING DIVISION: Omineca Skeena UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

779

LATITUDE: 54 31 32 N

NORTHING: 6042153 EASTING: 537592

LONGITUDE: 128 25 09 W ELEVATION: 300 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Location centered on site of sample taken from road cut on the south side of Zymoetz River as described in Annual Report 1962 p. 153.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Silica

MINERALIZATION AGE: Lower Permian

ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Fusulinids

DEPOSIT

Massive

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Industrial Min. Evaporite

TYPE: R09 Limestone

SHAPE: Regular MODIFIER: Faulted

STRIKE/DIP: 123/30N TREND/PLUNGE: DIMENSION: Metres

COMMENTS: Limestone faulted into a series of west to northwest trending thrust

sheets.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Lower Permian GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

DATING METHOD: Fossil

MATERIAL DATED: Fusulinids

LITHOLOGY: Limestone

Argillaceous Limestone

Greenstone Tuff Breccia Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1962 Assay/analysis SAMPLE TYPE: Chip

COMMODITY

49.7300 Per cent Limestone

COMMENTS: Taken across 30 metres of limestone. Grade given for CaO. REFERENCE: Minister of Mines Annual Report 1962, page 153.

**CAPSULE GEOLOGY** 

A bed of Lower Permian aged limestone outcrops discontinuously on both sides of the Zymoetz River between 10 and 18 kilometres east of Terrace. The bed is faulted up into a series of west to northwest trending thrust sheets up to 5 kilometres long between Permian aged greenstone, tuff and breccia and Upper Triassic to Lower Jurassic aged basaltic to rhyolitic flows, tuff and breccia of the Telkwa Formation. Bedding just northeast of the Zymoetz River strikes 123 degrees and dips 30 degrees northeast.

This carbonate unit is composed of white to pale green, medium to fine grained limestone underlain by argillaceous limestone and overlain by impure, fusilinid bearing, rose coloured limestone. The limestone is locally silicious. A few andesitic dykes intrude the deposit. A sample taken across 30 metres of limestone exposed in a roadcut on the south side of the Zymoetz River contained 49.73% CaO, RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

0.70% MgO, 9.28% insolubles, 0.60% R2O3, 0.70% Fe2O3, 0.019% MnO, 0.019% P2O5, 0.004% sulphur and 39.44% ignition loss (Annual Report 1962, p. 153).

**BIBLIOGRAPHY** 

EMPR AR \*1962-153

GSC MAP 11-1956; 278A; 1136A GSC MEM 205, p. 5; 329, pp. 14-17 GSC OF 1136

DATE CODED: 1986/10/27 DATE REVISED: 1989/08/16 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 1031 200

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 201

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

781

NAME(S): REDCAP MOUNTAIN, KATEEN RIVER

STATUS: Showing MINING DIVISION: Skeena REGIONS: British Columbia

NTS MAP: 103I12W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 54 42 59 N NORTHING: 6063497 LONGITUDE: 129 45 36 W EASTING: 451042 ELEVATION: 1520 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Lineament, Map 1472 A (Geological Survey of Canada Memoir 394).

COMMODITIES: Limestone Marble Building Stone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound
CLASSIFICATION: Sedimentary In

CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R09 Limestone R04 Dimension stone - marble SHAPE: Regular

SHAPE: Regular MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER

Mesozoic Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Marble

Amphibolite Schist

Quartzite

Hornblende Biotite Schist

HOSTROCK COMMENTS: Unit 2F- Geological Survey of Canada, Map 1472A.

GEOLOGICAL SETTING

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Undivided Metamorphic Assembl.

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

On the flat-topped mountain northwest of Redcap Mountain, the lithologies are predominantly dark, impure quartzite and hornblende-biotite schist with local impure marble zones up to 3 metres thick. A thick zone, up to 30 metres, contains

intercalated amphibolite schists.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Limestone Occurrences in BC (in Ministry Library))

EMPR MAP 8

GSC MAP 12-1966; 1472A; 1136A; 1385A

GSC MEM 394, p. 31; 329

GSC P 66-33

DATE CODED: 1986/10/01 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1986/10/01 REVISED BY: LDJ FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 202

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

782

NAME(S): TYEE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l04W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 12 29 N
LONGITUDE: 129 56 41 W
ELEVATION: 100 Metres
LOCATION ACCURACY: Within 1 KM NORTHING: 6007082 EASTING: 438384

COMMENTS: Centre of L.5103, quarry base.

COMMODITIES: Granite Dimension Stone **Building Stone** 

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive
CLASSIFICATION: Magmatic Industric
TYPE: R03 Dimension stone - granite Industrial Min.

SHAPE: Regular

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Upper Cretaceous GROUP IGNEOUS/METAMORPHIC/OTHER Ecstall Pluton **FORMATION** 

LITHOLOGY: Quartz Diorite

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline
TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

**CAPSULE GEOLOGY** 

The area lies in the northern part of the Ecstall pluton.

The quarry rock is a quartz diorite with a specific gravity of 2.777.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Granite Occurrences in BC (in Ministry Library))

GSC MAP 278A; 1136A; 1385A; 11-1956; 1868A GSC MEM 329

CANMET RPT \*#452, pp. 95,97-100

DATE CODED: 1986/09/09 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 203

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

783

NAME(S): **SKEENA**, GRAPHITE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l06W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 17 59 N NORTHING: 6016921 LONGITUDE: 129 20 06 W ELEVATION: 200 Metres LOCATION ACCURACY: Within 1 KM EASTING: 478199

COMMENTS: Symbol, Geological Survey of Canada Map 278A.

COMMODITIES: Graphite Gold

**MINERALS** 

SIGNIFICANT: Graphite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Industrial Min. Disseminated

TYPE: P04 Crystalline flake graphite P03 Microcrystalline graphite

102 Intrusion-related Au pyrrhotite veins

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP IGNEOUS/METAMORPHIC/OTHER Central Gneiss Complex **FORMATION** 

LITHOLOGY: Gneiss

Amphibolite

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TECTONIC BELT: Coast Crystalline
TERRANE: Undivided Metamorphic Assembl.
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

CAPSULE GEOLOGY

The area is underlain by biotite hornblende gneiss and amphibolite of the Paleozoic to Mesozoic Central Gneiss Complex. Graphite occurs as disseminations and along fractures within the gneissic rocks. A 120 metre sample collected across the gneissic bands assayed 3.0 per cent graphite. Other samples collected assayed up to 3.0 grams per tonne gold (Minister of Mines Annual Report 1921,

page 41).

**BIBLIOGRAPHY** 

EMPR AR \*1921-41

EMPR IND MIN FILE (Graphite Occurrences in BC (in Ministry Library)) GSC MAP 278A; 1136A; 1385A; 11-1956

GSC MEM 329

DATE CODED: 1986/09/16 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1989/08/29 REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 203

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 103I 204 NATIONAL MINERAL INVENTORY: 103I15 Au10

NAME(S): **DOUGLAS CREEK** 

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 103I15E BC MAP:

LATITUDE: 54 50 29 N LONGITUDE: 128 43 37 W ELEVATION: 430 Metres

LOCATION ACCURACY: Within 1 KM COMMENTS: Descriptions.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated
CLASSIFICATION: Placer
TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Bowser Lake Jurassic-Cretaceous

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6077176 EASTING: 517536

REPORT: RGEN0100

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LITHOLOGY: Gravel Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Bowser Lake

PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

The area is underlain by sediments of the Jurassic to Cretaceous Bowser Lake Group. Auriferous quartz veins are probable sources of placer gold in the Douglas Creek bed. The largest nugget recovered was 195 grams in 1933 (Bulletin 21). Coarse gold has been recovered from gravels above bedrock in the creek bed and from remnants of old channel ground on low bench and bar sections.

Recorded production for the period 1886-1940 totals 10,937

grams of placer gold.

**BIBLIOGRAPHY** 

EMPR AR 1886-201, table; \*1914-107-108; 1918-49-50; 1923-48; 1924-48;

1925-70; 1926-73; 1927-65; 1930-76-77; 1931-36; \*1932-51; 1933-45; 1934-B11

EMPR BULL 1, 1931, pp. 47-48; 1, 1933, p. 25; 21, p. 17;

\*28, p. 48

EMPR MAP 8
GSC MAP 278A; 11-1956; 1136A; 1385A
GSC MEM 205, pp. 1,8; \*329, pp. 69,71
GSC P 36-20, p. 11
GSC SUM RPT 1922A, p. 49; 1923A, pp. 42-44

DATE CODED: 1986/09/26 DATE REVISED: / /

CODED BY: LDJ REVISED BY:

FIELD CHECK: N FIELD CHECK:

> MINFILE NUMBER: 1031 204

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 205

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6088109 EASTING: 536553

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

785

 $\mathsf{NAME}(\mathsf{S}) \colon \operatorname{\underline{\textbf{PORCUPINE CREEK}}}, \mathsf{QUILL} \ \mathsf{CREEK}$ 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I16W BC MAP:

LATITUDE: 54 56 19 N

LONGITUDE: 128 25 46 W ELEVATION: 280 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Descriptions.

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown Pyrite

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Bowser Lake Jurassic-Cretaceous

**FORMATION** Undefined Formation

LITHOLOGY: Gravel Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Bowser Lake

PHYSIOGRAPHIC AREA: Hazelton Ranges

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1931

CATEGORY: Assay/analysis

SAMPLE TYPE: Bulk Sample

COMMODITY

Silver Gold

27,4000 Grams per tonne

39.0000 Grams per tonne

**GRADE** 

COMMENTS: Sampling of coarse pyrite from sluice operations. REFERENCE: Geological Survey of Canada Memoir 329, page 72.

**CAPSULE GEOLOGY** 

The area is underlain by sediments of the Jurassic to Cretaceous Bowser Lake Group. Auriferous quartz veins are probable sources of coarse gold found in benches along Porcupine and Quill creeks. Sampling of coarse pyrite from sluicing operations, assayed 39 grams per tonne gold, and 27.4 grams per tonne silver (Geological Survey of Canada, Memoir 329).

**BIBLIOGRAPHY** 

EMPR AR 1931-79-80

EMPR BULL 21, p. 18; 28, p. 43 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 212, p. 54; \*329, p. 72

DATE CODED: 1986/09/29 DATE REVISED: / / FIELD CHECK: N FIELD CHECK: CODED BY: LDJ REVISED BY:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 1031 206

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6077279 EASTING: 535214

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

786

NAME(S): FIDDLER CREEK

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 103I16W BC MAP:

LATITUDE: 54 50 29 N
LONGITUDE: 128 27 06 W
ELEVATION: 200 Metres
LOCATION ACCURACY: Within 5 KM COMMENTS: Fiddler Creek.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated
CLASSIFICATION: Placer
TYPE: C01 Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Bowser Lake Jurassic-Cretaceous

> LITHOLOGY: Glacial Gravel Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

**FORMATION** 

Undefined Formation

TERRANE: Bowser Lake

**CAPSULE GEOLOGY** 

The area is underlain by argillites of the Jurassic to Cretaceous

Bowser Lake Group. Auriferous quartz veins are probable sources for

placer gold along Fiddler Creek.

**BIBLIOGRAPHY** 

EMPR AR 1927-65

EMPR BULL 28, pp. 43,44 EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A

GSC MEM 329, pp. 69,71 GSC SUM RPT 1923A, p. 42

DATE CODED: 1986/09/29 DATE REVISED: / /

CODED BY: LDJ REVISED BY: FIELD CHECK: N FIELD CHECK:

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 207

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

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NAME(S): **SKEENA RIVER** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6066876 EASTING: 546919 LATITUDE: 54 44 49 N

LONGITUDE: 128 16 16 W ELEVATION: 120 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1932, page 82.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Sand

Granodiorite

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline
TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Hazelton Ranges

**CAPSULE GEOLOGY** 

The area is underlain by granodiorite of the Cretaceous to

Tertiary Coast Plutonic Complex. Locally, fine gold occurs on a bench within silt and fine sand along the Skeena River.

**BIBLIOGRAPHY** 

EMPR AR 1932-86

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 212; 329

GSC P 36-20

DATE CODED: 1986/09/29 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 1031 207

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 208

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

788

NAME(S): KLEANZA CREEK, GOLD CREEK, CASSIAR HYDRAULIC

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 35 39 N
LONGITUDE: 128 22 16 W
ELEVATION: 120 Metres
LOCATION ACCURACY: Within 1 KM NORTHING: 6049814 EASTING: 540634

COMMENTS: Descriptions from Minister of Mines Annual Reports.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**GROUP** STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Hazelton

Jurassic Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Glacial Gravel

Argillite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Hazelton Ranges

Plutonic Rocks

CAPSULE GEOLOGY

The area is underlain by granodiorite of the Cretaceous to Tertiary Coast Plutonic Complex and minor argillite of the Jurassic Hazelton Group. Placer gold occurs in drift-filled preglacial

channels along Kleanza Creek.

**BIBLIOGRAPHY** 

EMPR AR 1912-115; 1913-109; \*1914-128-129,175, Map, p. 121; 1922-

97,98; 1932-86 EMPR BULL 21, p. 18; 28, p. 43 EMPR MAP 8; 69-1

GSC MAP 278A; 11-1956; 1136A; 1385A GSC MEM \*212, p. 54; \*329, pp. 69,71,72 GSC P 36-20, p. 11

Placer Dome File

DATE CODED: 1986/09/29 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

> MINFILE NUMBER: 1031 208

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 209

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

789

NAME(S): GOLDEN CACHE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6062523 EASTING: 544458 LATITUDE: 54 42 29 N

LONGITUDE: 128 18 36 W ELEVATION: 230 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1932, page 83.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

TYPE: 102 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Lower Jurassic GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

**CAPSULE GEOLOGY** 

A quartz vein containing free gold occurs in andesite of the

Lower Jurassic Hazelton Group.

**BIBLIOGRAPHY** 

EMPR AR \*1932-83

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

GSC P 36-20, p. 38

DATE CODED: 1986/12/24 CODED BY: LDJ FIELD CHECK: N

DATE REVISED: 1989/08/29 REVISED BY: LLD FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 210

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

790

NAME(S): ALGOMA

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6061623 EASTING: 547152

LATITUDE: 54 41 59 N
LONGITUDE: 128 16 06 W
ELEVATION: 1000 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1931, page 71.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Epigenetic TYPE: D03 Volcai

Volcanic redbed Cu

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation Lower Jurassic Hazelton

LITHOLOGY: Andesite

Granodiorite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

**CAPSULE GEOLOGY** 

Andesite flows of the Lower Jurassic Hazelton Group are intruded

by a 60 metre wide granodiorite dyke. Copper mineralization is

disseminated within the volcanic rocks.

**BIBLIOGRAPHY** 

EMPR AR \*1931-71

EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM \*212, pp. 36-37; 329 GSC P 36-20, p. 38; 36-17

DATE CODED: 1986/12/24 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

> 1031 210 MINFILE NUMBER:

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 211

NATIONAL MINERAL INVENTORY:

NAME(S): BURN, KALUM LAKE, PORTLAND

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I10W BC MAP:

LATITUDE: 54 43 59 N

LONGITUDE: 128 49 11 W ELEVATION: 260 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located 32 kilometres north of Terrace; location of second showing

from Assessment Report 13303, Figure 3.

COMMODITIES: Gold Silver Copper I ead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Epidote
ALTERATION TYPE: Propylitic

Chlorite Hematite

Silicific'n **Epidote** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic Hvdrothermal

102 TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Jurassic-Cretaceous Cretaceous-Tertiary

**GROUP** 

Bowser Lake

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6065102

EASTING: 511609

REPORT: RGEN0100

791

Coast Plutonic Complex

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks

Bowser Lake

PHYSIOGRAPHIC AREA: Kitimat Trench

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: SAMPLE TYPE: Grab

Assav/analysis

YEAR: 1984

COMMODITY Silver

GRADE

Gold

80.1000 16.7000

Grams per tonne Grams per tonne

Copper I ead

0.5000 Per cent Per cent 0.1500

REFERENCE: Assessment Report 13303.

CAPSULE GEOLOGY

The area is underlain by Upper Jurassic to Lower Cretaceous sediments of the Bowser Lake Group comprised mainly of argillite, greywackes and conglomerates. Generally, the sediments strike east-west and dip 75 degrees to the north. Stocks comprised of granodiorite, diorite and quartz monzonite of the Late Cretaceous to

granodiorite, diorite and quartz monzonite of the Late Cretaceous to Tertiary Coast Plutonic Complex intrude the Bowser Lake sediments.

Alteration in the granodioritic intrusive is directly related to the density of veining and shearing. The predominant type is propylitic with lesser silicification and epidote-hematite alteration.

Locally, mineralization consisting of epigenetic quartz veining with pyrite, chalcopyrite, tetrahedrite and galena with associated values in gold and silver occurs on the west shore of Kitsumkalum

values in gold and silver occurs on the west shore of Kitsumkalum Lake. This vein-type mineralization is exposed on the Kalum Lake-Portland property (refer to Portland - 103I 019).

Similar mineralization occurs about 2.25 kilometres southwest of the main Portland showing. The area is underlain by granodiorite which shows intense propylitic alteration caused by a high density of quartz veining and shearing. The quartz veining hosts pyrite and chalcopyrite and a grab sample from a trench assayed up to 16.8 grams per tonne gold and 242.1 grams per tonne silver (Cavey and Chapman, 1987).

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

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EMPR MAP 8; 69-1
EMPR PF (\*Collins, D.A. and Arnold, R.R., (1987): Report on the Kalum Lake Property, in Statement of Material Facts #31/88 for Terracamp Developments Ltd., Apr. 25, 1988; \*Cavey, G. and Chapman, J., (1987): Report on the 1987 Drilling Program for the Kalum Lake Claims, in Prospectus for Terracamp Developments Ltd., Jul. 22, 1987; Statement of Material Facts #52/88 for Terracamp Developments Ltd., Jun. 15, 1988)
GSC MAP 11-1956; 278A; 1136A; 1385A
GSC MEM 205; 329
GSC P 36-17, p. 22
GCNL #174, 1987
PR REL Eagle Plains Resources Ltd., Feb.20, 2003 PR REL Eagle Plains Resources Ltd., Feb.20, 2003

DATE CODED: 1986/09/23 DATE REVISED: 1989/08/10 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 212

NATIONAL MINERAL INVENTORY:

NAME(S): BOLT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103I01W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

793

NORTHING: 6003108 EASTING: 536789

LATITUDE: 54 10 29 N LONGITUDE: 128 26 11 W ELEVATION: 1020 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized vein, Map 4 (Assessment Report 10625).

COMMODITIES: Copper

Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz ALTERATION: Pyrite

Chalcopyrite Specularite Limonite

Molybdenite

Specularite Magnetite

Kaolinite Hematite Chlorite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown Argillic

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic
TYPE: L04

Disseminated

Molybdenum

Porphyry

Hvdrothermal

Porphyry Cu ± Mo ± Au

1.05 Porphyry Mo (Low F- type)

SHAPE: Irregular COMMENTS: Quartz vein width.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Granodiorite

Granite Dioritic Dike Aplite Dike

HOSTROCK COMMENTS: Leucogranite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY:

Assay/analysis YEAR: 1982

SAMPLE TYPE: Chip

**GRADE** 

COMMODITY Silver Copper

6.6000 Grams per tonne Per cent

0.4400 Per cent

Molybdenum 0.0700 Per c COMMENTS: The average of 3 samples taken across a 5 metre quartz vein.

REFERENCE: Assessment Report 10625.

**CAPSULE GEOLOGY** 

Light coloured granodiorite and intrusive leucogranite of the Upper Cretaceous to Early Tertiary age Coast Plutonic Complex are cut by quartz veins and aplite, diorite, and diabase dykes. Alteration minerals such as pyrite, limonite, hematite, kaolinite and chlorite

are widespread, particularily within the granodiorite.

The quartz veins are mineralized with varying amounts of specular hematite, magnetite, pyrite, and lesser amounts of disseminated chalcopyrite and molybdenite. A 5 metre wide quartz vein, cutting granodiorite, assayed 0.44 per cent copper, 0.07 per cent molybdenum, and 7.2 grams per tonne silver (Assessment Report 10625). One kilometre north northeast of the main quartz vein is an 800 metre by 800 metre primary dispersion halo underlain by the leucogranite, with rock chip values up to 0.06 per cent molybdenum and 0.025 per cent

copper (Assessment Reports 9387, 10625).

**BIBLIOGRAPHY** 

EMPR ASS RPT 8578, \*9387, \*10625 EMPR EXPL 1980-391; 1982-370

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR MAP 8 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/10/03 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD

FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1031 212

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 213

NATIONAL MINERAL INVENTORY: 103I15 Au11

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6066792

EASTING: 507045

PAGE:

REPORT: RGEN0100

795

NAME(S): MISTY, MOSS, CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I10W BC MAP:

LATITUDE: 54 44 54 N 128 53 26 W

LONGITUDE: ELEVATION: 1000 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized showings from Assessment Report 10827, Figure 5, located

on the south slopes of Mt. Allard.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite

ASSOCIATED: Quartz

Gold

Arsenopyrite

ALTERATION: Limonite
ALTERATION TYPE: Oxidation

Hematite

Silicific'n

Stockwork

Silver

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Epigenetic

Hydrothermal TYPE: I02 I SHAPE: Irregular Intrusion-related Au pyrrhotite veins

DIMENSION: COMMENTS: Vein system. STRIKE/DIP: 120/90 TREND/PLUNGE:

105

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Upper Jurassic

Cretaceous-Tertiary

**Bowser Lake** 

**FORMATION Undefined Formation**  IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

Polymetallic veins Ag-Pb-Zn±Au

LITHOLOGY: Argillite Siltstone

Diorite Shale Sandstone Siltstone

Feldspar Porphyry

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Bowser Lake

PHYSIOGRAPHIC AREA: Kitimat Ranges

INVENTORY

ORE ZONE: MISTY VEIN

REPORT ON: N

YEAR: 1982

CATEGORY: Assay/analysis SAMPLE TYPE: Chip COMMODITY

Gold

ORE ZONE: CREEK VEIN

COMMENTS: The sample width is 60 centimetres.

**GRADE** 21.6000

Plutonic Rocks

Grams per tonne

REFERENCE: Assessment Report 15455.

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE:

YEAR: 1987

Grams per tonne

Channel **COMMODITY** 

3 2200

Gold COMMENTS: Channel sample taken from the Creek vein.

REFERENCE: Property File - Saunders, 1987.

**CAPSULE GEOLOGY** 

Upper Jurassic Bowser Lake Group sediments are intruded by Cretaceous to Tertiary granodioritic to dioritic intrusions of the Coast Plutonic Complex. The sediments are comprised mainly of argillite, shale, greywacke, conglomerate, sandstone and siltstone which are cut by Tertiary age feldspar porphyry dykes which trend east to northeast in direction. RUN DATE: 26-Jun-2003 MIN
RUN TIME: 12:06:33 GF

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

Mineralization occurs in quartz veins in shear structures and in quartz stringers in areas of fractured rock. Some of these veins are in the sediments and others are hosted by the intrusives. The goldbearing quartz veins include tiny stringers, occasionally in areas of intense silicification; veins which range a few centimetres in width and a few metres in length; and two large veins, the 'Creek' and the 'Moss', which are greater than 1.0 metre in width and about 200 metres in length. These larger veins contain sugary quartz with pyrite, arsenopyrite, and locally, intense limonitic staining. Gold is reported to occur as flakes, nuggets, and occasionally as dendritic masses having crystal faces. Mimetite may be present in some of the quartz veins.

The Moss vein averages 1.0 metre in width, strikes west-northwest and dips moderately to the northeast. The Creek vein strikes northnorthwest, dips steeply to the northeast, and varies from 1.0 to 2.5 metres in width. Four of eight channel samples taken from this vein assayed between 0.27 and 3.22 grams per tonne gold (Saunders, 1987).

Quartz stringer zones are exposed in trenches on the Misty 1 claim. A chip sample taken across 60 centimetres assayed 21.6 grams per tonne gold. Drilling below the trenches returned lower values in gold. One drill core sample assayed 4.7 grams per tonne gold across 77 centimetres. Poor drill core recoveries and the coarse nature of the gold may account for the poor correlation between surface and drill core assay results (Assessment Report 15455).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 8201, 9239, 10128, \*10827, \*15455, 16302, 17952
EMPR EXPL 1979-253-254; 1980-395; 1981-211; 1982-371; 1987-C359; 1988-C201
EMPR MAP 8
EMPR PF (\*Saunders, C.R. (1987): Report on the Misty Property in Prospectus for Galloway Resources Ltd., May 27, 1988)
EMR MP CORPFILE (Mascot Gold Mines Limited)
GSC MAP 11-1956, 278A, 1136A, 1385A
GSC MEM 329; 394
PR REL Eagle Plains Resources Ltd., Feb.20, 2003
Placer Dome File

DATE CODED: 1986/09/23 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/08/10 REVISED BY: LLD FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 214

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Omineca

Subvolcanic Cu-Ag-Au (As-Sb)

PHYSIOGRAPHIC AREA: Hazelton Ranges

IGNEOUS/METAMORPHIC/OTHER

UTM ZONE: 09 (NAD 83)

NORTHING: 6031425 EASTING: 555577

REPORT: RGEN0100

797

NAME(S): BILL, MOUNTAIN GOAT, ZYM

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l08E BC MAP:

LATITUDE: 54 25 39 N LONGITUDE: 128 08 36 W

**ELEVATION:** Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized sample location, Figure 326-3 (Assessment Report 12728). Silver

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Bornite ASSOCIATED: Quartz

ALTERATION: Malachite

ALTERATION TYPE: Epidote
MINERALIZATION AGE: Unknown

Chalcopyrite Calcite **Epidote** 

Carbonate Carbonate

Disseminated

Chalcocite

Oxidation

**FORMATION** 

Undefined Formation

Breccia

Copper

Gold

**Pyrite** 

1.01

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

TYPE: D03 Volcanic redbed Cu

SHAPE: Irregular MODIFIER: Fractured

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Jurassic

**GROUP** Hazelton

LITHOLOGY: Tuff

Andesite Rhyolite Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Per cent

YFAR: 1984

Grams per tonne

CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis

COMMODITY Silver

Copper

COMMENTS: The sample width is 30 centimetres. REFERENCE: Assessment Report 12728.

**CAPSULE GEOLOGY** 

The area is underlain by felsic to basic tuffs, breccias, flows and fragmental volcanic rocks of the Jurassic age Hazelton Group. The strata trends generally north-south and dips moderately to the east. Several fault related, felsic to basic dykes cut the volcanics.

**GRADE** 1.7100

1.2400

Mineralization, consisting of pyrite, chalcopyrite, bornite, Mineralization, consisting of pyrite, chalcopyrite, bornite, native copper, and malachite, occurs as disseminations and in quartz-carbonate veins, related to major north-south, steeply east dipping structural trends. The quartz-carbonate veins are accompanied by intense epidote and carbonate alteration of the wallrock. Isolated showings occur over an area of about 1 kilometre. A 0.3 metre chip sample of a pod of native copper in a quartz-carbonate vein assayed 1.24 per cent copper and 1.7 grams per tonne silver (Assessment Report 12728). A fault related breccia zone. 650 metres to the east. Report 12728). A fault related breccia zone, 650 metres to the east, assayed 0.04 per cent copper and 0.5 grams per tonne silver over 5 metres and a 2.0 metre sample, 440 metres to the southeast assayed 0.28 per cent copper and 2.6 grams per tonne silver (Assessment Report 12728). A sample 700 metres to the northwest assayed 1.06 per cent copper (Assessment Report 10541) and trenching on the south side of a creek, 200 metres to the south, revealed zones of minerali-

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

zation, earlier known as the Mountain Goat Showing. A  $1.5\,\mathrm{metre}$  sample assayed  $0.35\,\mathrm{per}$  cent copper,  $17.1\,\mathrm{grams}$  per tonne silver and  $2.4\,\mathrm{grams}$  per tonne gold (Assessment Report 2394).

**BIBLIOGRAPHY** 

EMPR ASS RPT 2394, \*10541, \*12728, 15859 EMPR EXPL 1984-375; 1987-C358

EMPR GEM 1970-189-193 EMPR MAP 8; 69-1

GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1986/11/04 DATE REVISED: 1989/08/29 CODED BY: LDJ REVISED BY: LLD FIELD CHECK: N

MINFILE NUMBER: 1031 214

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 215

NATIONAL MINERAL INVENTORY:

102

PAGE:

MINING DIVISION: Skeena

Intrusion-related Au pyrrhotite veins

UTM ZONE: 09 (NAD 83)

NORTHING: 6078706

EASTING: 487053

REPORT: RGEN0100

799

NAME(S): DICK, HEPLER, KIT 1-2

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103I14E BC MAP:

LATITUDE: 54 51 19 N LONGITUDE: 129 12 06 W ELEVATION: 440 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Main showing, Figure 2.

COMMODITIES: Gold Silver 7inc Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite Sphalerite Chalcopyrite Galena **Pyrite** Tétrahedrite Bornite Arsenopyrite

ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated CLASSIFICATION: Epigenetic TYPE: 105 Pc Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Regular MODIFIER: Faulted DIMENSION:

STRIKE/DIP: 160/40W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Upper Jurassic **Bowser Lake** Undefined Formation Eocene Ponder Pluton

ISOTOPIC AGE: 47 Ma

DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Argillite

Greywacke Quartzite Lamprophyre Dike Biotite Hornblende Diorite

Andesite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Ranges Plutonic Rocks

TERRANE: Bowser Lake METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Bowser Lake rocks overlie the Stikinia Terrane rock assemblage.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1985 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY **GRADE** 

Gold 22.0000 Grams per tonne

REFERENCE: Assessment Report 14572.

**CAPSULE GEOLOGY** 

Upper Jurassic sedimentary rocks of the Bowser Lake Group are intruded by the Tertiary Ponder Pluton. The sediments are dominated by pyritic, carbonaceous argillite, which is hornfelsed near the intrusive contact, and minor beds of greywacke and quartzite. The sediments are domain. intrusives are comprised of a medium-grained biotite-hornblende granodiorite which is cut by aplite, andesite and lamprophyre dykes. A major north trending fault is cut by post-mineralization

crossfaults. The main showing is a 0.3 to 1.0 metre wide quartz-sulphide vein at the contact between the sediments and granodiorite. The vein is independent of the complex contact relationships. Mineralization consists of coarse pods and disseminations of pyrite, pyrrhotite, sphalerite, chalcopyrite, galena, bornite, arsenopyrite and tetra-hedrite. It has been traced for 20 metres and grades up to 18.5

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

RUN DATE: 26-Jun-2003

RUN TIME: 12:06:33

grams per tonne gold over a thickness of 0.35 metres (Assessment Report 14572). The north trending vein dips 30 to 45 degrees to the west.

A possible continuation of the vein occurs 60 metres to the north, striking north-south for 30 metres and grading up to 22 grams per tonne gold over a 0.30 metre thickness. A small vein, 180 metres north of the main showing, assayed 1.37 grams per tonne gold over 1.0 metres. A sample of quartz-sulphide vein float assayed 70 grams per tonne gold, 82 grams per tonne silver, 1.12 per cent copper and 1.51 per cent zinc (Assessment Report 14572).

#### **BIBLIOGRAPHY**

EMPR ASS RPT 8406, 14140, \*14572 EMPR EXPL 1980-396; 1985-C373,C374 EMPR PF (\*Prospectus for Commander Resources Ltd., dated Feb.9, 1989) GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 394; 329 GCNL #120, 1981; #142, 1982 N MINER Mar.5, 1981

DATE CODED: 1986/09/17 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1987/07/23 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 1031 215

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 216

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

801

NAME(S): APRIL AND MAY

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103I09W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6054420 EASTING: 537007

LATITUDE: 54 38 09 N
LONGITUDE: 128 25 36 W
ELEVATION: 100 Metres
LOCATION ACCURACY: Within 1 KM

COMMENTS: Description from Minister of Mines Annual Report 1932, page 83.

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Galena Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au

TYPE: 105 F SHAPE: Irregular MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Volcanic Aplite Dike

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine

**CAPSULE GEOLOGY** 

Volcanic rocks of the Lower Jurassic Hazelton Group are intruded by an aplite dyke. A 1.5 metre wide shear zone is mineralized with

pyrite, galena, sphalerite, and quartz.

**BIBLIOGRAPHY** 

EMPR AR \*1932-83

EMPR MAP 8; 69-1 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

GSC P 36-20, p. 23

DATE CODED: 1986/12/24 DATE REVISED: 1989/08/29 FIELD CHECK: N FIELD CHECK: N CODED BY: LDJ REVISED BY: LLD

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 217

NATIONAL MINERAL INVENTORY:

NAME(S): **BARITE**, BILLY 5

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l02E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

802

LATITUDE: 54 07 49 N

NORTHING: 5998051 EASTING: 517861

LONGITUDE: 128 43 36 W ELEVATION: 600 Metres LOCATION ACCURACY: Within 500M

COMMENTS: West of Bowbyes Creek. Sample location (Assessment Report 15528).

COMMODITIES: Barite

**MINERALS** 

SIGNIFICANT: Barite ALTERATION: Silica ALTERATION TYPE: Silicific'n

Pyrite

Pyrite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive

CLASSIFICATION: Volcanogenic TYPE: I10 Vein barite

Industrial Min.

F17 Sediment-hosted barite

**HOST ROCK** 

Lower Jurassic

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** 

Hazelton

**FORMATION** Telkwa

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Tuff

Andesitic Agglomerate Rhyolite Agglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Stikine

PHYSIOGRAPHIC AREA: Kitimat Ranges

METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE:

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

Per cent

CATEGORY: Assav/analysis

YEAR: 1986

SAMPLE TYPE: Grab

COMMODITY Barite

37.7000

REFERENCE: Assessment Report 15528.

**CAPSULE GEOLOGY** 

White to grey, dense to thinly laminated semi-massive barite occurs in foliated, silicified and pyritized breccia and tuff. The barite showing appears to be concordantly underlain by a coarse quartz-eye rhyolite. Andesitic and rhyolitic agglomerates occur along strike to the south. These rocks are part of the Lower Jurassic Hazelton Group, Telkwa Formation. Selected samples of the mineralization assayed up to 37.7 per cent barium (64 per cent BaSO4)

(Assessment Report 15528).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*15528, \*16693, 16664 EMPR EXPL \*1987-B67-B70,C358; 1988-C200

GSC MEM 329 GCNL #34, 1987

DATE CODED: 1987/07/21 DATE REVISED: 1987/07/21

REVISED BY: LDJ

FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 218

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5998362

EASTING: 518404

REPORT: RGEN0100

803

NAME(S): BILLY, GOLD, KITIMAT

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l02E BC MAP:

LATITUDE: 54 07 59 N LONGITUDE: 128 43 06 W ELEVATION: 600 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located between Bowbyes Creek and the Wedeene River, about 10

kilometres northwest of Kitimat. Showings on property from same zone

along about 1 kilometre of strike.

COMMODITIES: Gold Silver Lead 7inc

**MINERALS** 

SIGNIFICANT: Galena Pyrite

ASSOCIATED: Pyrite ALTERATION: Epidote Quartz Chlorite

Silica Pyrite Pyrite

ALTERATION TYPE: Silicific'n **Epidote** MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stockwork Breccia

CLASSIFICATION: Epigenetic

Polymetallic veins Ag-Pb-Zn±Au 105 TYPE: 102 Intrusion-related Au pyrrhotite veins DIMENSION: 4000 STRIKE/DIP: Metres 045/60 TREND/PLUNGE:

COMMENTS: Strike length up to 4 kilometres defined by surface exploration.

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Lower Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Telkwa

LITHOLOGY: Lapilli Tuff

Coarse Grained Volcanic Breccia

Basaltic Dike

Hornblende Porphyritic Andesitic Dike Quartz Feldspar Porphyritic Dike

Intermediate tuffs are mapped as Telkwa Formation by Woodsworth and Van der Heyden (GSC OF 1136) and are generally altered. HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADF: Greenschist COMMENTS: Occurrence is within eastern portion of the Coast Crystalline Belt.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1987 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY Silver 32.9000 Grams per tonne 5.1800 Gold Grams per tonne 0.7000 Per cent Lead

Zinc REFERENCE: Assessment Report 15528.

CAPSULE GEOLOGY

The Billy property is underlain by intermediate lapilli-lithic tuffs and medium to coarse-grained volcanic breccias of the Lower Jurassic Hazelton Group, Telkwa Formation. There are at least three phases of dyking in the area clearly defined by crosscutting and offsetting relationships. The dykes are dark green, massive basalt, hornblende-porphyritic andesite, and bleached white quartz eye-feldspar porphyritic. Fracturing is common in the area with some schistose-fabric, chlorite-rich rocks as well. Regional low-grade metamorphism has overprinted the geology in the area and "fresh" rocks are very rare on the property. Surrounding the property are granite to granodiorite plutons of the Cretaceous to Tertiary Coast Crystalline Belt.

0.2000

Per cent

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The exploration targets are the "gold" and "quartz-sericite" zones. They lie on the same structurally controlled fracture zone  $% \left( 1\right) =\left( 1\right) +\left( 1\right) +\left($ which strikes northeast and dips northwest. The gold zone has 5 metres of pervasively silicified, epidotized, and brecciated rock with minor pyrite and trace galena. The quartz-sericite zone has up to 70 metres of 10 to 20 per cent pyrite in a sericite schistose rock. The zones are separated by about 1 kilometre. Surface sampling of the gold zone ran 2.4 grams per tonne gold over 5 metres. Drill intersections were less significant with 0.27 grams per tonne over 2 metres. A grab sample near the base of the zone assayed 5.18 grams per tonne gold, 32.9 grams per tonne silver, 0.7 per cent lead and 0.2 per cent zinc (Assessment Report 15528). Gold mineralization does not appear to extend along strike or down dip.

### **BIBLIOGRAPHY**

EMPR ASS RPT \*15528, 16664, \*16693 EMPR EXPL \*1987-B67-B70,C358; 1988-C200 EMPR PF (Laramide Resources Statement of Material Facts #78/87, May 29, 1987, pp. 4-6)
GSC MAP 1136A; 1385A; 278A; 11-1956
GSC MEM 329 GCNL #34, 1987

DATE CODED: 1987/07/21 DATE REVISED: 1987/12/11 CODED BY: LDJ REVISED BY: MHG FIELD CHECK: N FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 219

NATIONAL MINERAL INVENTORY:

PHYSIOGRAPHIC AREA: Kitimat Ranges

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6062462 EASTING: 462307

REPORT: RGEN0100

805

NAME(S): **KWINAMASS PEAK** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l12E 103l11W 103l13E BC MAP:

LATITUDE: 54 42 29 N LONGITUDE: 129 35 06 W ELEVATION: 1250 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: A northwest striking zone about 35 kilometres in length. Coordinates

for centre of zone (Area 1, Figure 9, Open File 1988-26).

COMMODITIES: Sillimanite Garnet

**MINERALS** 

SIGNIFICANT: Sillimanite Garnet ASSOCIATED: Biotite Muscovite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered Stratabound

CLASSIFICATION: Syngenetic TYPE: P02 Kva Industrial Min. Metamorphic

Kyanite-sillimanite schists

SHAPE: Tabular MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER **FORMATION** STRATIGRAPHIC AGE GROUP

Unknown Central Gneiss Complex

LITHOLOGY: Sillimanite Garnet Mica Gneiss

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Plutonic Kocks

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1982 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

COMMODITY **GRADE** Garnet 15,0000 Per cent

Sillimanite 50,0000 COMMENTS: Garnet-sillimanite gneisses.

REFERENCE: Geological Survey of Canada, Memoir 394.

**CAPSULE GEOLOGY** 

Pelitic schists and gneisses of uncertain age and affiliation occur in abundance as inliers and adjacent to granitic plutons in the Prince Rupert-Skeena River-Douglas Channel-Hectate Strait area, northwestern British Columbia. The Central Gneiss Complex of the Prince Rupert-Skeena map area contains layers of biotite-garnet-sillimanite-muscovite gneisses 30 to 300 metres thick in the area south of Mount Ponder and southeast of Redcap Mountain, the area northeast of Kwina-mass Peak and north of the headwaters of the the Kateen River (Area 1, Figure 9, Open File 1988-26). Within this zone sillimanite forms up to 50 per cent of the rock and garnets up to 0.75 centimetres in diameter form an additional 15 to 20 per cent (Geological Survey of

Per cent

Canada, Memoir 394).

**BIBLIOGRAPHY** 

EMPR OF \*1988-26, p. 15 GSC MAP 3-1965; 12-1966; 1136A; 1385A

GSC MEM \*394; 329

GSC P 66-33

DATE CODED: 1988/03/28 DATE REVISED: 1989/02/01 CODED BY: JP REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 220

NATIONAL MINERAL INVENTORY: 103I3 Sil1

PAGE:

REPORT: RGEN0100

806

NAME(S): KHTADA LAKE, KHTADA GARNET-SILLIMANITE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103l03W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 07 54 N LONGITUDE: 129 27 06 W ELEVATION: 610 Metres NORTHING: 5998265 **EASTING: 470487** 

LOCATION ACCURACY: Within 1 KM

COMMENTS: Part of a 20 kilometre zone, striking northwest-southeast. Location from showings on Khtada Lake (Area 2, Figure 9, Open File 1988-26).

COMMODITIES: Sillimanite Garnet

**MINERALS** 

SIGNIFICANT: Sillimanite Garnet

ASSOCIATED: Biotite Quartz Feldspar

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered Stratabound Industrial Min. Metamorphic

CLASSIFICATION: Syngenetic TYPE: P02 Kya Kyanite-sillimanite schists

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP
Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Central Gneiss Complex

LITHOLOGY: Garnet Sillimanite Gneiss

Biotite Quartz Feldspar Gneiss

Biotite Hornblende Gneiss

Amphibolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl. Plutonic Rocks
METAMORPHIC TYPE: Regional Plutonic Rocks RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The area around Khtada Lake is dominantly underlain by grey biotite, plus or minus hornblende gneiss, amphibolite and minor sillimanite, plus or minus garnet gneiss of the Paleozoic (?) Central Gneiss Complex. The garnet-sillimanite-quartz-feldspar gneisses occur in a zone approximately 20 kilometres in length, extending from Kwinitsa (refer to 104B 011) southeast through Khtada Lake to Big Falls Creek (Area 2, Figure 9, Open File 1988-26), apparently forming a continuous zone.

The garnet-sillimanite-biotite-quartz-feldspar gneisses outcrop along the north and south shores of Khtada Lake and on a ridge top 3 kilometres south of the south end of Khtada Lake. These gneisses host between 5 to 30 per cent garnet and 5 to 30 per cent sillimanite. The sillimanite occurs in densely felted layers ranging from 0.2 to 2.5 centimetres in thickness (Geological Survey of Canada, Memoir 394).

**BIBLIOGRAPHY** 

EMPR OF \*1988-26, p. 15 GSC MAP 3-1965; 12-1966; 1136A; 1385A; 1868A

GSC MEM \*394; 329

GSC P 66-33

DATE CODED: 1988/02/01 DATE REVISED: 1989/08/29 CODED BY: LLD REVISED BY: LLD FIELD CHECK: N FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 221

NATIONAL MINERAL INVENTORY:

NAME(S): **J**, J 1-2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103l02E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

807

LATITUDE: 54 09 59 N

NORTHING: 6002086 EASTING: 521871

LONGITUDE: 128 39 54 W ELEVATION: 122 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized location lies on the south side of the Wedeene River east

Gold

of the CNR bridge (see Assessment Report 16860, Figure 4).

COMMODITIES: Copper

Iron

**MINERALS** 

SIGNIFICANT: Chalcopyrite

Pyrite

ALTERATION: Malachité ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic Stratiform

Industrial Min. TYPE: G06

Noranda/Kuroko massive sulphide Cu-Pb-Zn G04 Besshi massive sulphide Cu-Zn

K01 Cu skarn K04 Au skarn

COMMENTS: Bedding strikes north to northwest and dips to the west.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Lower Jurassic Cretaceous-Tertiary

**FORMATION GROUP** Hazelton Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Andesitic Tuff

Bedded Tuff Granodiorite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Stikine
METAMORPHIC TYPE: Regional Plutonic Rocks **RELATIONSHIP:**  PHYSIOGRAPHIC AREA: Kitimat Ranges

GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis

YEAR: 1988

SAMPLE TYPE: Grab

**GRADE** 

COMMODITY Gold

0.2650 Grams per tonne

Copper

1.9780 Per cent

Iron

11.0690 Per cent

COMMENTS: Sample W-1 from the J-1 claim.

REFERENCE: Assessment Report 16860.

**CAPSULE GEOLOGY** 

The area is underlain by andesitic tuffs of the Lower Jurassic Hazelton Group. Bedding attitudes vary between northwest to north and generally dip to the west. Granodiorite and associated dykes of the Cretaceous to Tertiary Coast Plutonic Complex intrude the volcanics.

Mineralization is exposed along a CNR railway cut on the south side of the Wedeene River. Stratiform pyrite and pyrite-chalcopyrite and/or malachite mineralization occurs within the bedded tuffs. The maximum exposed width of chalcopyrite and pyrite mineralization is about 0.5 metres. Seven samples were collected from the banded sulphide mineralization. Sample W-1 assayed 0.265 grams per tonne gold, 13.3 grams per tonne silver, 1.978 per cent iron (Assessment Report 16860). 1.978 per cent copper and 11.069

Bands of pyrite ranging up to a few centimetres in thickness are common in the tuffs exposed along the river and to the east of the copper-bearing outcrop. A grab sample from one of these pyritic bands (sample no. 501) assayed 0.56 grams per tonne gold and 0.13 per cent copper (Assessment Report 16860).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT \*16860 EMPR EXPL 1988-C200 EMPR MAP 8 EMPR OF 1999-2 GSC MAP 11-1956; 278A; 1136A; 1385A GSC MEM 329

DATE CODED: 1989/08/14 DATE REVISED: 1989/08/18 CODED BY: LLD REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 221

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 222

NATIONAL MINERAL INVENTORY: 103I15 Ag2

PAGE:

REPORT: RGEN0100

809

NAME(S): HUNTER, BLUE GROUSE, RELIEF

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103I15W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6093230 EASTING: 511785 LATITUDE: 54 59 09 N LONGITUDE: 128 48 57 W ELEVATION: 427 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Showings are located on the south side of Egan Creek, a tributary of

the Cedar River.

COMMODITIES: Silver Lead 7inc Copper

**MINERALS** 

SIGNIFICANT: Tetrahedrite Galena Sphalerite Chalcopyrite

ASSOCIATED: Quartz Calcite Carbonate

ALTERATION: Silica ALTERATION TYPE: Silicific'n Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia

CLASSIFICATION: Epigenetic

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105 STRIKE/DIP: 310/55N DIMENSION: TREND/PLUNGE:

COMMENTS: Mineralized vein strikes 310 degrees and dips 55 degrees northeast.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic-Cretaceous Bowser Lake Undefined Formation

LITHOLOGY: Bedded Sandstone

Greywacke Graphitic Shale Breccia Aplite Dike

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YEAR: 1930 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY Silver 78.8500 Grams per tonne 0.8000

Copper Per cent Per cent Lead 3.2000 0.5000 Per cent Zinc

COMMENTS: A 0.6 metre sample of the best mineralized section of the vein. REFERENCE: Minister of Mines Annual Report 1930, page 76.

**CAPSULE GEOLOGY** 

The area is underlain by Jurassic to Cretaceous Bowser Lake Group sediments comprised of bedded sandstones, greywacke, graphitic shales and breccia. Locally, a fine-grained aplite dyke cuts the sediments.

On the Hunter claim group, a quartz vein cuts brecciated sediments and strikes 310 degrees and dips 55 degrees to the northeast. The vein averages about 76 centimetres in width, and locally contains calcite. Mineralization consists of irregular patches and specks of tetrahedrite, chalcopyrite, galena and sphalerite. In 1930, a 0.6 metre sample of the best mineralized section of the vein assayed trace gold, 78.85 grams per tonne silver, 3.2 per cent lead, 0.5 per cent zinc and 0.8 per cent copper

(Minister of Mines Annual Report 1930, page 76).

**BIBLIOGRAPHY** 

EMPR AR 1918-50; 1919-43; 1920-42; 1921-45; 1922-49; 1923-48;

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

1924-48;1925-70; 1927-64; \*1928-73; \*1930-76 EMPR BULL 1, 1932 p. 21 EMPR MAP 8 GSC MAP 11-1956; 278A; \*1136A; 1385A GSC MEM 205, pp. 9-11; 329 GSC SUM RPT 1922A, p. 48

DATE CODED: 1989/08/08 DATE REVISED: 1989/08/29 CODED BY: LLD REVISED BY: LLD FIELD CHECK: N

> MINFILE NUMBER: 103I 222

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 223

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6035336 EASTING: 520327

REPORT: RGEN0100

811

NAME(S): **TERRACE AIRPORT** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103l07E BC MAP:

LATITUDE: 54 27 55 N
LONGITUDE: 128 41 11 W
ELEVATION: 91 Metres
LOCATION ACCURACY: Within 5 KM

COMMENTS:

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite
ASSOCIATED: Silica
MINERALIZATION AGE: Lower Permian

ISOTOPIC AGE: DATING METHOD: Fossil

Massive

MATERIAL DATED: Various fossils

DEPOSIT

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R09 Limes Industrial Min. Evaporite Limestone

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

GROUP Undefined Group STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Permian Undefined Formation

DATING METHOD: Fossil
MATERIAL DATED: Various Fossils

LITHOLOGY: Limestone

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Kitimat Trench

TERRANE: Stikine

**CAPSULE GEOLOGY** 

Three small hills of Lower Permian aged limestone project above

the surrounding Pleistocene sediments along a road 5 to 8

kilometres west of the Terrace Airport. The deposits are composed of medium grained, flesh grey, silicious limestone.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Limestone Occurrences in British Columbia by J.W. McCammon, 1973, p. 31 (in Ministry Library))
GSC MAP 11-1956; 278A; 1136A
GSC MEM 329, pp. 14-17
GSC OF 1136

DATE CODED: 1989/08/16 DATE REVISED: / /

CODED BY: PSF REVISED BY: FIELD CHECK: N FIELD CHECK:

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1031 224

NATIONAL MINERAL INVENTORY:

NAME(S): **ZYMOETZ RIVER ZEOLITE** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 103l08E 093L05W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

812

LATITUDE: 54 24 59 N LONGITUDE: 128 00 06 W ELEVATION: Metres NORTHING: 6030310 EASTING: 564784

LOCATION ACCURACY: Within 5 KM

COMMENTS: Zeolitized unit in the upper member of the Telkwa Formation, location is the approximate center of the area (Property File - Mihalynuk and

Ghent, 1986).

COMMODITIES: Zeolite

**MINERALS** 

SIGNIFICANT: Laumontite MINERALIZATION AGE: Triassic-Jurassic

**DEPOSIT** 

CHARACTER: Massive

CLASSIFICATION: Metamorphic TYPE: D01 Open-system zeolites

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Telkwa

LITHOLOGY: Tuff

Lapilli Tuff Vitric Ash Tuff Crystal Ash Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Zeolite

**CAPSULE GEOLOGY** 

The Zymoetz River Zeolite occurence comprises the zeolitized portion of the upper member of the Telkwa Formation (Upper Triassic

to Middle Jurassic Hazelton Group).

The upper member contains 190 metres of red zeolitized lithic lapilli and vitric ash tuffs and 115 metres of zeolitized quartz and feldspar-rich (15 and 50 per cent respectively) crystal ash tuff. In

some of the layers, laumontite is the main component.

**BIBLIOGRAPHY** 

EMPR PF (\*Mihalynuk and Ghent 1986): Stratigaphy, deformation and

low grade metamorphism of the Telkwa Formation) Mihalynuk, M. (1986) M. Sc. Thesis, University of Calgary

DATE CODED: 1994/01/12 DATE REVISED: / / CODED BY: DEJ REVISED BY: FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 001

NATIONAL MINERAL INVENTORY:

NAME(S): PEARSE IS

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J16W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

813

LATITUDE: 54 47 19 N LONGITUDE: 130 23 06 W ELEVATION: 30 Metres NORTHING: 6072148 EASTING: 410941

LOCATION ACCURACY: Within 500M

COMMENTS: Limestone zone, Map 1472A (Geological Survey of Canada Memoir 394).

Pre 1986 103I-J210.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Biotite

Garnet Hornblende

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Sedimentary TYPE: R09 Limestone

Stratabound Industrial Min.

SHAPE: Regular

DIMENSION: 0003 COMMENTS: Width of zones. STRIKE/DIP: Metres

TREND/PLUNGE:

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP**  **FORMATION** Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Limestone

Pelitic Schist

HOSTROCK COMMENTS: Unit 2c - Geological Survey of Canada Map 1472A.

Unnamed/Unknown Group

**GEOLOGICAL SETTING** 

Paleozoic-Mesozoic

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

Several zones of limestone, 1 to 3 metres thick, occur along the southeast coast of Pearse Island. The limestone is intercalated with pelitic schists comprising mainly of biotite, hornblende and

garnet.

Although the age of the strata (Unit 2C), in which the limestone occurs, or the time of their metamorphism is unknown, the unit probably includes Paleozoic and possibly Early Mesozoic strata

(Geological Survey of Canada Memoir 394).

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Limestone Occurrences in British Columbia by

McCammon, J.W. 1973, p. 33 (in Ministry Library)) GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394, p. 31

GSC P 66-33

DATE CODED: 1986/09/02 CODED BY: LDJ REVISED BY: FIELD CHECK: N DATE REVISED: / / FIELD CHECK:

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 002

NATIONAL MINERAL INVENTORY:

NAME(S): WALES ISLAND

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J10E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

814

LATITUDE: 54 42 49 N

NORTHING: 6064032 EASTING: 399862

LONGITUDE: 130 33 16 W ELEVATION: 10 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Shore line exposure of marble, Map 1472A (Geological Survey of Canada, Memoir 394), Wales Island.

Marble

COMMODITIES: Limestone

**Building Stone** 

SIGNIFICANT: Calcite ASSOCIATED: Hornblende MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary TYPE: R09 Limestone Industrial Min.

SHAPE: Regular

MODIFIER: Folded DIMENSION: 10

Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Maximum extent of zone.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic Central Gneiss Complex

LITHOLOGY: Marble

Hornblende Gneiss

HOSTROCK COMMENTS: Unit 1d - Geological Survey of Canada, Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Teslin Plateau

TERRANE: Undivided Metamorphic Assembl.
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Tightly folded marble zones, up to 10 metres thick, interlayered with hornblende gneiss occur within the Paleozoic Central Gneiss Complex. The zone is traced intermittently for 8 kilometres in a

northwest trend along the southwest part of Wales Island.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Limestone Occurrences in British Columbia by

McCammon, J.W. 1973, p. 33 (in Ministry Library)) GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394, p. 14

GSC P 66-33

DATE CODED: 1986/09/02 DATE REVISED: 1988/12/22 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 003

NATIONAL MINERAL INVENTORY:

NAME(S): **DUNDAS ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103J10W BC MAP:

NORTHING: 6052477 EASTING: 379143

PAGE:

REPORT: RGEN0100

815

LATITUDE: 54 36 19 N LONGITUDE: 130 52 16 W ELEVATION: 10 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Limestone zone, Map 1472A (Geological Survey of Canada, Memoir 394).

North end of Dundas Island.

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Sedimentary Stratabound Industrial Min.

TYPE: R09 L SHAPE: Regular DIMENSION: 3500 Limestone

COMMENTS: Length of zone.

Metres STRIKE/DIP: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Limestone Chlorite Amphibole Schist

HOSTROCK COMMENTS: Unit 3f - Geological Survey of Canada, Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Milbanke Strandflat

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

A limestone zone, trending northeast for about 3.5 kilometres occurs in chlorite amphibole schist, within an unnamed Paleozoic-

Mesozoic formation on the north end of Dundas Island.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Limestone Occurrences in British Columbia by McCammon, J.W. 1973, page 33 (in Ministry Library))
GSC MAP 12-1966; 1385A; 1472A
GSC MEM 394

GSC P 66-33

CODED BY: LDJ REVISED BY: JNR DATE CODED: 1986/09/02 DATE REVISED: 1988/12/22 FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 004

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

REPORT: RGEN0100

816

NAME(S): GRACE POINT, WORK CHANNEL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103J09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 34 49 N NORTHING: 6048916 LONGITUDE: 130 20 36 W ELEVATION: 30 Metres **EASTING: 413177** 

LOCATION ACCURACY: Within 1 KM

COMMENTS: Grace Point, Work Channel.

COMMODITIES: Limestone Marble **Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Hornblende MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Sedimentary Stratabound Industrial Min.

TYPE: R09 Limestone SHAPE: Regular MODIFIER: Folded

DIMENSION: 10 COMMENTS: Maximum width. STRIKE/DIP: TREND/PLUNGE: Metres

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Paleozoic IGNEOUS/METAMORPHIC/OTHER <u>FORMATION</u>

Central Gneiss Complex

LITHOLOGY: Marble

Hornblende Gneiss

HOSTROCK COMMENTS: Unit 1c - Geological Survey of Canada, Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexandér

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Tightly folded marble zones, up to 10 metres thick, are interlayered with hornblende gneiss of the Paleozoic Central Gneiss  $\,$ 

Complex.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Limestone Occurrences in British Columbia by McCammon, J.W. 1973, p. 33 (in Ministry Library))
GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394, p. 14 GSC P 66-33

DATE CODED: 1986/09/02 DATE REVISED: 1988/12/22 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 005

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

817

NAME(S): MINERAL REEF, POOR BOY, GRANT 1

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103J07W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6036842 EASTING: 385842 LATITUDE: 54 27 59 N LONGITUDE: 130 45 41 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Shaft, Map K-1 (Assessment Report 12777). East Coast Dunira Island.

COMMODITIES: Zinc. Silver I ead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena Chalcopyrite Carbonate Actinolite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant

CLASSIFICATION: Hydrothermal

TYPE: 105 I SHAPE: Regular Polymetallic veins Ag-Pb-Zn±Au G04 Besshi massive sulphide Cu-Zn

MODIFIER: Sheared

DIMENSION: COMMENTS: Shear zone. STRIKE/DIP: 060/75S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Tuff

Rhyolite

Pyroxene Porphyry

HOSTROCK COMMENTS: Unit 3 - Geological Survey of Canada, Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1984

SAMPLE TYPE: Rock

COMMODITY **GRADE** Copper 0.0930 Per cent Per cent Lead 1.1600 Zinc 2.5300 Per cent

REFERENCE: Assessment Report 12777.

CAPSULE GEOLOGY

The area is underlain by several interfingered and lensoid bodies of pyroxene porphyry tuff and rhyolite of an unnamed Mesozoic to Paleozoic formation. Sphalerite, galena and chalcopyrite mineralization occur in carbonate and conformable quartz veins within shears, oriented 060 degrees and dipping 75 degrees southeast. Northwest of the intense shear zone, the shears are oriented 020

degrees.

A sample of sheared pyroxene porphyry with conformable carbonate lenses assayed 5.8 per cent zinc, 0.18 per cent lead and 0.115 per cent copper. A sample of sheared rhyolite, 80 metres to the northeast, assayed 2.53 per cent zinc, 1.16 per cent lead and 0.093 per cent copper (Assessment Report 12777).

A shaft is reported at this showing (Assessment Report 22764).

BIBLIOGRAPHY

EMPR ASS RPT 12197, \*12777, 16036, 22764 EMPR EXPL 1983-504; 1984-378; 1987-C362 GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

PAGE: 818 REPORT: RGEN0100

**BIBLIOGRAPHY** 

GSC P 66-33

DATE CODED: 1986/09/05 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1988/12/22 REVISED BY: JNR FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 006

NATIONAL MINERAL INVENTORY:

NAME(S): **KATHLEEN 3** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103J07W BC MAP: LATITUDE: 54 25 39 N

NORTHING: 6032491 EASTING: 386725

PAGE:

REPORT: RGEN0100

819

LONGITUDE: 130 44 46 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample location (Assessment Report 16036). Located near the south-

Copper

east shore of Dunira Island.

COMMODITIES: Zinc

MINERALS SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Stratiform CLASSIFICATION: Sedimentary

TYPE: G04 Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Graphitic Shale

HOSTROCK COMMENTS: Unit 3b - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexandér

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1987

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Per cent 0.5200

REFERENCE: Assessment Report 16036.

CAPSULE GEOLOGY

The area is underlain by an overturned sequence of mafic and felsic volcaniclastics and volcanic rock with thin graphitic shale beds (Unit 3) that may include Early Paleozoic to Early Mesozoic strata. The shale contains disseminated pyrite, pyrrhotite, chalcopyrite and likely sphalerite. A sample assayed 0.52 per cent zinc

(Assessment Report 16036).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*16036, 22764

EMPR OF 1999-2

GSC MAP 12-1966; 1385A; 1472A GSC MEM 394

GSC P 66-33

CODED BY: LDJ REVISED BY: DATE CODED: 1987/09/08 FIELD CHECK: N DATE REVISED: / / FIELD CHECK:

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 007

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6029645

EASTING: 418760

PAGE:

REPORT: RGEN0100

820

NAME(S): TUCK INLET, TUCK INLET GARNET

STATUS: Showing REGIONS: British Columbia NTS MAP: 103J08W 103J08E BC MAP:

LATITUDE: 54 24 29 N

LONGITUDE: 130 15 06 W ELEVATION: 1 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Twelve kilometre long zone along shores of Tuck Inlet (Open File

1988-26, Figure 9).

COMMODITIES: Garnet

**MINERALS** 

SIGNIFICANT: Garnet ASSOCIATED: Kyanite

Mica MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered Stratabound

CLASSIFICATION: Metamorphic TYPE: P02 Kyan Industrial Min. Syngenetic

Kyanite-sillimanite schists

SHAPE: Tabular MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

Paleozoic-Mesozoic

LITHOLOGY: Mica Pelitic Schist

HOSTROCK COMMENTS: Lower Mesozoic and/or Paleozoic metasedimentary rocks of amphibolite

facies (Unit 2, Figure 9, Open File 1988-26).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

**CAPSULE GEOLOGY** 

On Tsimpsean Peninsula, Lower Mesozoic (?) and/or Paleozoic (?) metasedimentary rocks of amphibolite facies occur. Outcroppings of micaceous pelitic schists along the shores of Tuck Inlet and near Port Simpson, may contain up to 43 per cent garnet porphyroblasts and minor kyanite. Along the shores of Tuck Inlet, the garnet porphyroblasts range up to 5 centimetres in diameter (Geological Survey of Canada, Memoir 394).

**BIBLIOGRAPHY** 

EMPR OF \*1988-26, p. 15 GSC MAP 3-1965; 12-1966; 1385A; 1472A

GSC MEM 394

GSC P 66-33

DATE CODED: 1988/03/28 DATE REVISED: 1989/01/23 CODED BY: REVISED BY: LLD

MINFILE NUMBER: 103J 007

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 008

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6029684 EASTING: 416597

REPORT: RGEN0100

821

NAME(S): **ENGLESTONE**, MORNING STAR

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103J08W BC MAP:

LATITUDE: 54 24 29 N LONGITUDE: 130 17 06 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 1 KM COMMENTS: West side Tuck Inlet.

> COMMODITIES: Silver Gold Copper

**MINERALS** 

Pyrrhotite Chalcopyrite

SIGNIFICANT: Pyrite ASSOCIATED: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: L01 Subvo **Epigenetic** 

Subvolcanic Cu-Ag-Au (As-Sb) 106 Cu±Ag quartz veins

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian-Triassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

Undefined Group

LITHOLOGY: Graphitic Schist

HOSTROCK COMMENTS: Unit 2d - Geological Survey of Canada, Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1928

SAMPLE TYPE: Chip COMMODITY

**GRADE** Silver Grams per tonne 75,4000 Gold 0.7000 Grams per tonne

COMMENTS: 1.2 metre chip sample.

REFERENCE: Minister of Mines, Annual Report 1928-70.

**CAPSULE GEOLOGY** 

The area is underlain by pyritic, graphitic schists, or a Permo-Triassic unnamed formation striking north-northwest and dipping 45 degrees east. Several shear zones with quartz veins carrying pyrrhotite and minor chalcopyrite occur in the schists. The veins are 1 to 2 metres wide and a 1.2 metre sample of a vein assayed 75.4 grams per tonne silver and an estimated 0.7 grams per tonne gold (Minister of Mines, Annual Report 1928-70).

**BIBLIOGRAPHY** 

EMPR AR \*1928-70,71; 1930-73; 1931-36

GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394 GSC P 66-33

DATE CODED: 1986/09/05 DATE REVISED: 1988/12/22 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 009

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

822

NAME(S): **DRUMHARVEY** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103J08W BC MAP:

LATITUDE: 54 22 59 N LONGITUDE: 130 15 46 W ELEVATION: 180 Metres NORTHING: 6026877 EASTING: 417989

LOCATION ACCURACY: Within 1 KM

COMMENTS: West of Prince Rupert Harbour, east of Mount Morse.

COMMODITIES: Silver Gold 7inc I ead Copper

**MINERALS** 

Galena Pyrite Pyrrhotite Chalcopyrite

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz ALTERATION: Chlorite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: Quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Permian-Triassic Unnamed/Unknown Formation **Undefined Group** 

LITHOLOGY: Felsite Schist

HOSTROCK COMMENTS: Unit 2e - Geological Survey of Canada, Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexandér

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1929 Assay/analysis

SAMPLE TYPE: Rock COMMODITY

**GRADE** Grams per tonne Silver 85.7000 0.3400 Grams per tonne Gold

4.3000 Per cent I ead Per cent 7inc 2.8200

COMMENTS: The sample width is 3.7 metres. REFERENCE: Minister of Mines, Annual Report 1929, pages 75-76.

CAPSULE GEOLOGY

Sphalerite, galena, pyrite, pyrrhotite and minor chalcopyrite occur within an unnamed Permo-Triassic formation along small chloritized seams in quartz veins within felsic schist. The vein is about 120 metres long, in a west direction. A 3.7 metre sample reportedly assayed 85.7 grams per tonne silver, 0.34 grams per tonne gold, 4.3 per cent lead, 2.82 per cent zinc and trace copper (Minister of Mines Annual Report 1929, page 75).

**BIBLIOGRAPHY** 

EMPR AR \*1929-75,76; 1930-73; 1931-36 GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394 GSC P 66-33

DATE CODED: 1986/09/05 DATE REVISED: 1988/12/22 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIFLD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 010

NATIONAL MINERAL INVENTORY:

NAME(S): **PRINCE RUPERT** 

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

NTS MAP: 103J08W BC MAP:

NORTHING: 6016704 EASTING: 416360

PAGE:

REPORT: RGEN0100

823

LATITUDE: 54 17 29 N LONGITUDE: 130 17 06 W ELEVATION: Metres

LOCATION ACCURACY: Within 5 KM COMMENTS: The exact location is not reported but is in the vicinity of Prince Rupert (Geological Survey of Canada Memoir 47).

COMMODITIES: Clay

MINERALS
SIGNIFICANT: Clay MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Sedimentary TYPE: B06 Fireclay Massive Industrial Min.

F07 Sedimentary kaolin

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary **FORMATION** GROUP Undefined Group IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Clay

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline
TERRANE: Undivided Metamorphic Assembl. PHYSIOGRAPHIC AREA: Milbanke Strandflat

METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Amphibolite

CAPSULE GEOLOGY

Glacial clays occur near Prince Rupert. Underlying bedrock is amphibolite facies metasedimentary rock of an unnamed Permo-Triassic

The clay though gritty is very plastic. A sample tested worked up with 22 per cent of water to a mass that could be easily molded. Its average shrinkage is 5.1 per cent and average tensile strength is 126 pounds per square inch. The clay burns to a deep but not bright red body and would likely make a good serviceable brick (Geological Survey of Canada Memoir 47).

**BIBLIOGRAPHY** 

GSC MAP 12-1966; 1385A; 1472A GSC MEM \*47, p. 63; 394

GSC P 66-33 Placer Dome File

CODED BY: LDJ REVISED BY: GJP DATE CODED: 1986/09/09 DATE REVISED: 1989/03/01 FIELD CHECK: N FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 011

NATIONAL MINERAL INVENTORY:

NAME(S): FREDERICK POINT, DIGBY ISLAND

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J08W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

824

LATITUDE: 54 15 19 N LONGITUDE: 130 21 46 W ELEVATION: Metres

NORTHING: 6012782 EASTING: 411221

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on Frederick Point, south end of Digby Island

Marble

(Canmet Report 452, page 172).

COMMODITIES: Limestone

**Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite

ASSOCIATED: Amphibole

ALTERATION: Mica
MINERALIZATION AGE: Permian-Triassic

**DEPOSIT** 

CHARACTER: Stratiform
CLASSIFICATION: Sedimentary
TYPE: R09 Limes Massive Industrial Min.

Limestone

DIMENSION: 180 Metres STRIKE COMMENTS: Strikes 115 to 130 degrees, dips 35 to 65 degrees northeast. STRIKE/DIP: 130/35N TREND/PLUNGE:

**HOST ROCK** 

Permian-Triassic

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** 

**FORMATION** Unnamed/Unknown Formation **Undefined Group** 

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Limestone

Marble

Graphitic Schist Amphibolite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

A band of limestone, at least 180 metres wide, is exposed at Frederick Point on the south end of Digby Island, 1.5 kilometres southwest of Prince Rupert. The limestone is enclosed in graphitic schist within a broad belt of Permian-Triassic meta-sediments in the Coast Plutonic Complex. The limestone strikes 115 to 130 degrees and dips 35 to 65 degrees northwest.

The deposit is generally composed of white to bluish grey medium grained, banded limestone containing thin zones of darker, more resistant siliceous limestone that become more numerous towards the margins of the band. Some secondary mica is developed in the limestone.

**BIBLIOGRAPHY** 

GSC MAP 12-1966; 1385A; 1472A GSC MEM 394

GSC P 66-33

CANMET RPT \*#452, Vol.5, pp. 127,173,174; \*#811, Part 5, p. 175

DATE CODED: 1986/09/03 DATE REVISED: 1989/07/28 CODED BY: LDJ REVISED BY: PSF FIELD CHECK: N FIFLD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 012

NATIONAL MINERAL INVENTORY:

NAME(S): SMITH ISLAND, COLUMBIA CELLULOSE

STATUS: Past Producer REGIONS: British Columbia

Open Pit

MINING DIVISION: Skeena

NTS MAP: 103J01E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

825

LATITUDE: 54 10 09 N NORTHING: 6003014 EASTING: 421371

LONGITUDE: 130 12 16 W ELEVATION: 150 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Limestone quarry Map 1472A (Geological Survey of Canada, Memoir 394).

Located on the north side of Tsum Tsadai Inlet on Smith Island.

COMMODITIES: Limestone

Marble

**Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz

Graphite Mica

Garnet

Staurolite

Tremolite

Pvrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Sedimentary

Stratabound

Evaporite

Industrial Min.

TYPE: R09 Limestone SHAPE: Regular

DIMENSION:

COMMENTS: Discontinuous band.

STRIKE/DIP: 050/53N

TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE

<u>GROUP</u> Permian-Triassic Undefined Group **FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Marble

Limestone Quartzite

Biotite Muscovite Schist

HOSTROCK COMMENTS: Unit 2f - Geological Survey of Canada, Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Teslin Plateau

TERRANE: Alexander

METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE: Amphibolite

INVENTORY

ORE ZONE: QUARRY

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Rock Assay/analysis

YFAR: 1944

COMMODITY

**GRADE** 

Limestone

Per cent 97.5500

COMMENTS: Sample of purer limestone. Grade given for CaCO3.

REFERENCE: Canmet Report #811, page 176, Sample 39.

CAPSULE GEOLOGY

A limestone band at least 30 metres wide enclosed in Permo-Triassic biotite-muscovite schists follows the north shore of Tsum Tsadai Inlet on the west side of Smith Island for 1.0 kilometres. The bed strikes 050 degrees and dips 53 degrees northeast.

The deposit is comprised of bluish white, coarse grained limestone that becomes interbedded with schist along the margins of the band. The deposit is frequently contaminated with thin beds of highly siliceous limestone and calcareous quartzite. Some brown mica, white tremolite and pyrite are also present in the limestone. A sample of the purer limestone contained 54.64 per cent CaO, 0.38 per cent MgO, 0.98 per cent SiO2, 0.11 per cent Al2O3, 0.08 per cent Fe2O3 and nil sulphur (Canada Bureau of Mines Report 811, p. 176, Sample 39).

An extension of the band outcrops 1.5 kilometres to the east and continues along the north shore of the inlet for 2.5 kilometres. A quarry was opened on this part of the deposit in 1950 by Columbia Cellulose Company. The quarry was abandoned in 1952 because of the

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

impurities in the limestone. Total production between 1950 and 1952 amounted to 9459 tonnes.

**BIBLIOGRAPHY** 

EMPR AR 1948-189; 1950-223,224; 1951-220 GSC MAP 12-1966; 1385A; 1472A GSC MEM 394, pp. 28,30,98 GSC P 66-33, pp. 22,23 GSC SUM RPT 1922A, p. 12 CANMET RPT #452, pp. 127,172; \*#811, pp. 174-176

DATE CODED: 1986/09/03 DATE REVISED: 1988/12/22 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103J 012

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 013

NATIONAL MINERAL INVENTORY: 103J2 Au3

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5987447 EASTING: 395624

PAGE:

REPORT: RGEN0100

827

NAME(S): **EAGLE**, DAWSON, EDYE, PORCHER ISLAND

STATUS: Showing REGIONS: British Columbia NTS MAP: 103J02E

BC MAP:

LATITUDE: 54 01 29 N LONGITUDE: 130 35 36 W ELEVATION: 75 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Dawson tunnel, Map page 71 (Minister of Mines Annual Report 1930). Located near Surf Point Mine (103J 017), northwest corner of Porcher

Island.

COMMODITIES: Gold

Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 102 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

Paleozoic-Mesozoic STRATIGRAPHIC AGE Cretaceous-Tertiary

Undefined Group

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Greenstone

Quartz Diorite Basic Dike

HOSTROCK COMMENTS: Unit 3 - Geological Survey of Canada, Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1988

SAMPLE TYPE: Drill Core

COMMODITY Gold

Grams per tonne

COMMENTS: Over a 4.3 metre drill section.

REFERENCE: George Cross Newsletter #92, May 12, 1988.

ORE ZONE: SAMPLE

Silver

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1932

Grams per tonne

SAMPLE TYPE: Grab COMMODITY

**GRADE** 

31.0000 Grams per tonne

Gold 120.0000 REFERENCE: Minister of Mines, Annual Report 1932, page 50.

CAPSULE GEOLOGY

The Eagle showing occurs near the northwest corner of Porcher Island near the Surf Point Mine (103J 017).

Mineralization occurs at the contact between a Cretaceous to Tertiary quartz diorite stock and Paleozoic-Mesozoic greenstones from an unnamed formation. Auriferous pyrite occurs in a northeast striking quartz vein, within a shear zone up to 0.6 metres wide. The vein occurs largely in the greenstone and is cut-off by a basic dyke. A representative sample of the mineralization assayed 120 grams per tonne gold and 31 grams per tonne silver (Minister of Mines Annual Report 1932, page 50).

Cathedral Gold's new Edye Zone appears to be coincidently located

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

with the old Eagle (Dawson) workings, both occurring about 400 metres west-northwest of the Surf Point Mine (AT Zone, 103J 017). Drill hole 11 apparently intersected the old Eagle (Dawson) zone, cutting a quartz vein in diorite adjacent a basalt dyke (Assessment Report 16735).

The Edye Zone is reported to have similar mineralization to that of the AT Zone (Surf Point Mine). At least seven drill holes have been completed on the Edge Zone with best intersection grading 8.91 grams per tonne gold over 4.3 metres (George Cross Newsletter #92, May 12, 1988).

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CODED BY: LDJ REVISED BY: GJP FIELD CHECK: N DATE CODED: 1986/09/12 DATE REVISED: 1989/02/28

MINFILE NUMBER: 103J 013

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 014

NATIONAL MINERAL INVENTORY:

NAME(S): PROMISE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J02E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 54 01 39 N LONGITUDE: 130 34 46 W ELEVATION: 30 Metres NORTHING: 5987736 EASTING: 396540

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located in the northwest corner of Porcher Island.

COMMODITIES: Gold

Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I02 Intrusion Epigenetic

Intrusion-related Au pyrrhotite veins

DIMENSION: STRIKE/DIP: 090/60S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

Meta Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Milbanke Strandflat

CAPSULE GEOLOGY

The Promise showing occurs in the northwest corner of Porcher

Island, a few hundred metres northwest of the Edye Pass Mine

(103J 015).

A sheared quartz vein, 30 centimetres wide, strikes east and dips 60 degrees south within Cretaceous to Tertiary quartz diorite of the Coast Plutonic Complex near its contact with Paleozoic-Mesozoic

metasediments. Mineralization consists of blebs and streaks of

auriferous pyrite.

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GSC MEM 394 GSC P 66-33

DATE CODED: 1986/09/12 DATE REVISED: 1989/02/28 CODED BY: LDJ FIELD CHECK: N REVISED BY: GJP FIFLD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

102

MINFILE NUMBER: 103J 015

NATIONAL MINERAL INVENTORY: 103J2 Au2

MINING DIVISION: Skeena

Intrusion-related Au pyrrhotite veins

UTM ZONE: 09 (NAD 83)

NORTHING: 5987744 EASTING: 396177

PAGE:

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830

NAME(S): **EDYE PASS**, EDYE PASS MINE, PATTERSON, JEANIE (L.7191), EDDY PASS, PORCHER ISLAND

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 103J02E

BC MAP: LATITUDE: 54 01 39 N LONGITUDE: 130 35 06 W

ELEVATION: 40 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Lot 7191. See also Porcher Island (103J 017).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Tetradymite

ASSOCIATED: Quartz ALTERATION: Ankerite
ALTERATION TYPE: Carbonate Calcite Sericite Chlorite Chloritic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Shear CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: I01 Au-quartz veins SHAPE: Bladed

MODIFIER: Sheared DIMENSION: STRIKE/DIP: 090/75N TREND/PLUNGE:

Gold

COMMENTS: General vein attitude.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Unnamed/Unknown Group Unnamed/Unknown Formation

Mesozoic-Cenozoic

Coast Plutonic Complex

LITHOLOGY: Hornblende Quartz Diorite

Quartz Diorite Chlorite Schist Mafic Dike

Meta Sediment/Sedimentary

HOSTROCK COMMENTS: Unit E - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Plutonic Rocks

CAPSULE GEOLOGY

A quartz diorite stock of the Tertiary-Jurassic Coast Plutonic

A quartz diofite stock of the fertialy-our assic coast fluctuate Complex intrudes chlorite schist and metasediments of probable Paleozoic-Mesozoic age. The stock is about 2.8 kilometres in diameter, with a 300-metre wide outer hornblende quartz diorite phase and a quartz diorite core. All rocks are intruded by mafic dykes.

Several east trending, steeply north dipping quartz veins, acceptaining appriferous projet lenges occur in the hornblende quartz

containing auriferous pyrite lenses, occur in the hornblende quartz diorite. The veins seldom exceed 120 metres in length and 1 metre diorite. The veins seldom exceed 120 metres in length and widths. The veins occur in fractures and northeast shear zones widths. The veins occur in fractures and northeast shear zones related to flow lines within the northern part of an arch of flow layers having a 020 degree striking, 85 degree southeast dipping axial plane.

Small amounts of sericite, ankerite, calcite, chlorite and chalcopyrite occur in the veins. Under the microscope, tetradymite can be seen accompanied by free gold. Assays of a 1-metre wide vein returned 29 grams per tonne gold and 10 grams per tonne silver

(Minister of Mines Annual Report 1935). The Edye Pass mine operated from 1919 to 1939. See also Porcher Island (103J 017).

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\*1935-A24,B2-B4; 1936-B56,B57; 1937-B3-B42; 1938-B4-B26;

1939-68

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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1985-C375; 1987-C362; 1996-B8
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EMPR MAP 64; 65 (1989)
EMPR OF 1992-1
EMPR OF (*Nelson, N.E. (1935); Dolmage, V. (1936); Waterland, T.M. (1939); Smith, A. (1943); James, G.L. (1974); Porcher Island Gold Corporation Website (Nov.1997): The Porcher Island Gold Project, 4 pp., in 103J 017)
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DATE CODED: 1986/09/11 DATE REVISED: 1989/02/28 CODED BY: LDJ FIELD CHECK: N REVISED BY: GJP FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 016

NATIONAL MINERAL INVENTORY:

NAME(S): **MASCOT**, DC

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J02E BC MAP:

UTM ZONE: 09 (NAD 83) NORTHING: 5987412 EASTING: 397170

PAGE:

REPORT: RGEN0100

832

LATITUDE: 54 01 29 N LONGITUDE: 130 34 11 W ELEVATION: 45 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS:

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 102 Intrusion-related Au pyrrhotite veins DIMENSION: STRIKE/DIP: 050/80N TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Plutonic Řocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1933

SAMPLE TYPE: Grab

COMMODITY **GRADE** 41.0000 27.0000 Silver Grams per tonne Gold Grams per tonne

REFERENCE: Minister of Mines Annual Report 1933, page 42.

**CAPSULE GEOLOGY** 

The Mascot showing occurs near the northwest corner of Porcher Island about 1.5 kilometres east of the Surf Point Mine (103J 017). A quartz vein, striking 050 degrees and dipping 80 degrees north, occurs in Cretaceous to Tertiary quartz diorite of the Coast Plutonic Complex near its contact with Paleozoic to Mesozoic mixed volcanic and plutonic rock. The vein is sheared and is up to 1 metre wide and 20 metres long. Mineralization consists of stringers of pyrite. A selected sample assayed 27 grams per tonne gold and 41 grams per tonne silver (Minister of Mines Annual Report 1933, page 42).

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DATE CODED: 1986/09/12 DATE REVISED: 1988/12/22 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 017

NATIONAL MINERAL INVENTORY: 103J2 Au1

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EASTING: 395984

REPORT: RGEN0100

833

NAME(S): **PORCHER ISLAND**, SURF POINT, SURF POINT MINE, AT, TRIXIE, PATTERSON,

CATHEDRAL GOLD

Underground MINING DIVISION: Skeena

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 103J02E UTM ZONE: 09 (NAD 83) BC MAP: LATITUDE: 54 01 24 N NORTHING: 5987284

LONGITUDE: 130 35 16 W ELEVATION: 0150 Metres LOCATION ACCURACY: Within 500M

COMMENTS: See also Edye Pass (103J 015).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Telluride Tetradymite Chalcopyrite Gold

ASSOCIATED: Quartz ALTERATION: Ankerite Calcite Chlorite Sericite

ALTERATION TYPE: Carbonate
MINERALIZATION AGE: Unknown Chloritic

ISOTOPIC AGE: 106.2 +/- 1.3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Epigenetic Hydrothermal

102 TYPE: 101 Au-quartz veins Intrusion-related Au pyrrhotite veins

SHAPE: Bladed MODIFIER: Sheared

DIMENSION: 300 x 200 x 30 Metres STRIKE/DIP: 080/70N TREND/PLUNGE:

COMMENTS: Area of vein stockwork; general attitude of veins. Biotite hornblende

tonalite.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Paleozoic-Mesozoic Unnamed/Unknown Group Unnamed/Unknown Formation

Mesozoic-Cenozoic Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

Hornblende Quartz Diorite

Chlorite Schist Meta Sediment/Sedimentary

Meta Volcanic

HOSTROCK COMMENTS: Unit F - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Plutonic Rocks

INVENTORY

REPORT ON: Y ORE ZONE: AT

CATEGORY: Inferred YEAR: 1997 816500 Tonnes QUANTITY:

**GRADE** COMMODITY

6.8600 Grams per tonne REFERENCE: Northern Miner April 21, 1997.

REPORT ON: Y ORE ZONE: AT

> CATEGORY: Indicated YEAR: 1997

544300 Tonnes QUANTITY: **GRADE** COMMODITY

6.8600 Grams per tonne

COMMENTS: Based on 66 holes, totalling 12,192 metres. REFERENCE: Northern Miner April 21, 1997.

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### INVENTORY

ORE ZONE: PORCHER ISLAND

REPORT ON: Y

YEAR: 1994

Grams per tonne

QUANTITY: COMMODITY Gold

300000 Tonnes

**GRADE** 7.8000

COMMENTS: Proven and probable reserves. REFERENCE: Information Circular 1995-1, page 14.

CATEGORY: Combined

ORE ZONE: PORCHER ISLAND

REPORT ON: Y

YEAR: 1994

CATEGORY: QUANTITY: **COMMODITY** 

Inferred 190000 Tonnes

**GRADE** 7.8000

Grams per tonne COMMENTS: Possible reserves. Further possible deep reserves are estimated at 800,000 tonnes grading 6.9 grams per tonne gold.

REFERENCE: Information Circular 1995-1, page 14.

#### **CAPSULE GEOLOGY**

Porcher Island is located approximately 45 kilometres southwest of the city of Prince Rupert on the northern coast of British Columbia. Early exploration of Porcher Island began in 1916. Records show that mining from 1919 to 1939 resulted in 61,567 tonnes of ore, yielding 639,914 grams of gold, 225,994 tonnes of silver and 4161 kilograms of copper from the Surf Point Mine and the Edye Pass Mine (103J 015), one kilometre to the north.

The past producing Surf Point/Edye Pass mine on Porcher Island is presently (August 2000) owned by Cathedral Gold Corp. and was, until recently, under option to Tetra Metals Ltd., who were unable to attract the financing.

The mines produced ore from near-surface workings between 1919 and 1939, when Reward Mining Company built a 50 ton per day mill to replace a smaller structure that burnt down the previous year. operation probably closed as a result of staff shortages induced by the war. The Surf Point mine operated between 1934 and 1937 (inclusive) and the Edye Pass mine operated from 1919 to 1939.

Between 1975 and 1994 several mining comapnies, including Tombil Mines, Banwan Gold Mines and Cathedral Gold Corporation conducted exploration and developmental work on the Porcher Island gold mine

A quartz diorite stock of the Tertiary-Jurassic Coast Plutonic Complex intrudes Paleozoic-Mesozoic metasediments and metavolcanics. The stock is about 2.8 kilometres in diameter, with a 300-metre wide outer hornblende quartz diorite phase and a quartz diorite core. The metamorphosed rocks consist of chlorite schist and grey metasediments striking northwest and dipping moderately northeast. All rocks are intruded by mafic dykes.

The ore came from numerous, steeply-dipping, shear-controlled, quartz-pyrite-gold "ladder veins" that formed near the apical tip of a composite flow-banded quartz diorite pluton intruded into schist during Tertiary uplift and deformation. The veins are short, narrow and hard to project with any degree of certainty, so continuity can be a problem. There is almost no wall-rock alteration and the veins are tightly bonded to the diorite. The deposit is very similar to Harrison Gold.

The short and irregularly distributed veins or lenses of auriferous pyrite and chalcopyrite in quartz veins occur largely within the quartz diorite. Small amounts of sericite, ankerite, calcite and chlorite can be observed in the veins. Under the microscope, tetradymite may be seen accompanied by free gold. veins strike 070 to 090 degrees, dip 60 to 90 degrees north and seldom exceed 120 metres length. Widths average 30 centimetres and seldom exceed 1 metre.

The deposit lies in a 300 by 200 by 30 metre zone along an arch of flow layers with an axial plane that strikes about 020 degrees and dips about 85 degrees southeast. A primary joint system in the stock is related to the orientation (030 degree trend, 50 degree plunge) of flow lines which lie within the plane of the flow layers. The ore-bearing solutions entered soon after the formation of the fractures. A northeast trending shear zone forms the southern limit of the deposit.

Work on the deposit by Cathedral Gold Corporation has resulted in the discovery of the AT zone, about 50 metres west of Adit No. 4 portal. Mineralization is persistent to a depth of 550 metres and remains open. The zone also remains open along strike. Based on 66 holes, totalling 12,192 metres, the AT zone contains 544,300 tonnes

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

of indicated reserves grading 6.86 grams per tonne gold, plus an additional 816,500 tonnes of inferred reserves at the same grade. (Northern Miner April 21, 1997)

Proven and probable reserves are estimated at 300,000 tonnes grading 7.8 grams per tonne gold; possible reserves are estimated at 190,000 tonnes grading 7.8 grams per tonne gold; and further possible deep reserves are estimated at 800,000 tonnes grading 6.9 grams per tonne gold. Included in these reserves are 82,000 tonnes of direct-shipping ore grading 13.7 grams per tonne gold, all accessible above the existing mine levels (Information Circular 1995-1, page 14).

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                               1988; *#7, *#28, #187(Sept. 28), #241(Dec. 15), 1989;
#89(May 8), 1990; #64(Apr.5), #141(Jul.25), 1994; #11(Jan.17), 1995; #10(Jan.15), #33(Feb.17), #79(Apr.24), 1997

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DATE CODED: 1986/09/11 DATE REVISED: 1989/02/28 CODED BY: LDJ REVISED BY: GJP

FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 018

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5985725 EASTING: 396587

REPORT: RGEN0100

836

NAME(S): BELL MTN, SANTA CLAUS, BR 1

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103J02E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 00 34 N

LONGITUDE: 130 34 41 W ELEVATION: 320 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Located about 1.5 kilometres south-southeast of the Surf Point Mine

(103J 017).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I02 Intrus Epigenetic Intrusion-related Au pyrrhotite veins

STRIKE/DIP: 090/80N DIMENSION: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Quartz Diorite Meta Volcanic

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Plutonic Řocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1933 Assav/analysis

SAMPLE TYPE: Rock COMMODITY **GRADE** 

Silver 6.8000 Grams per tonne Gold 35,0000 Grams per tonne

REFERENCE: Minister of Mines Annual Report 1933, page 43.

**CAPSULE GEOLOGY** 

The Bell Mountain showing is located in the northwest of Porcher Island about 1.5 kilometres south-southeast of the Surf Point Mine

(103J 017).

Two east striking, steep dipping sheared quartz veins occur in altered Cretaceous to Tertiary quartz diorite of the Coast Plutonic Complex near its contact with Paleozoic-Mesozoic metavolcanics. The veins, 200 metres apart, are 0.3 to 1 metre wide and are mineralized with lenses of pyrite. Selected samples assayed 35 grams per tonne gold and 6.8 grams per tonne silver (Minister of Mines

Annual Report 1933).

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DATE CODED: 1986/09/12 DATE REVISED: 1989/02/28 CODED BY: LDJ REVISED BY: GJP FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 019

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5986545 EASTING: 394511

IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex

REPORT: RGEN0100

837

NAME(S): REDBIRD

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103J02E BC MAP:

LATITUDE: 54 00 59 N LONGITUDE: 130 36 36 W ELEVATION: 45 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Northwest corner of Porcher Island.

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal Epigenetic TYPE: 102 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary GROUP

LITHOLOGY: Quartz Diorite Greisen Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Plutonic Rocks

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1934 SAMPLE TYPE: Rock

COMMODITY **GRADE** 

Silver 69,0000 Grams per tonne Grams per tonne Gold 69.0000

REFERENCE: Minister of Mines Annual Report 1934, page B9.

**CAPSULE GEOLOGY** 

The Redbird showing occurs near the northwest corner of Porcher

**FORMATION** 

Island about 1.5 kilometres southwest of the Surf Point Mine

A quartz vein, striking east for about 120 metres, occurs in Tertiary-Cretaceous quartz diorite of the Coast Plutonic Complex. The vein, formed along a shear zone with brecciated inclusions of greenstone, has associated smaller cross veins. Mineralization consists of stringers, veinlets and patches of auriferous pyrite. representative sample assayed 69 grams per tonne gold and 69 grams per tonne silver (Minister of Mines Annual Report 1934).

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DATE CODED: 1986/09/12 DATE REVISED: 1988/12/22 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 020

NATIONAL MINERAL INVENTORY:

NAME(S): COPPER COIN, JOLT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J02E BC MAP: LATITUDE: 54 00 29 N

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

838

LONGITUDE: 130 36 46 W Metres

NORTHING: 5985622 EASTING: 394308

**ELEVATION: 45** LOCATION ACCURACY: Within 1 KM

COMMENTS: Description (Minister of Mines Annual Report 1930). Located about 2.0 kilometres southwest of the Surf Point Mine (103J '017) on Porcher

Island.

COMMODITIES: Gold

Silver

Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite ASSOCIATED: Quartz ALTERATION: Feldspar Silica ALTERATION TYPE: Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I02 Intrus Replacement Intrusion-related Au pyrrhotite veins

**Epigenetic** 

STRIKE/DIP: 105/45N

TREND/PLUNGE:

DIMENSION:

HOST ROCK DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic-Mesozoic

<u>GROUP</u>

Undefined Group

**FORMATION** 

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Chlorite Schist

HOSTROCK COMMENTS: Unit 3 - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexandér METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Rock Assay/analysis

YFAR: 1930

COMMODITY Silver

**GRADE** 

6.9000

Grams per tonne Grams per tonne

Gold

1.7000

COMMENTS: The sample width is 80 centimetres.

REFERENCE: Minister of Mines Annual Report 1930, page 72.

**CAPSULE GEOLOGY** 

The Copper Coin showing occurs near the northwest corner of Porcher Island about 2.0 kilometres southwest of the Surf Point Mine 017). (103J

A 2 to 3.7 metre wide quartzose shear zone strikes about 105degrees and dips 45 degrees north within Palezoic-Mesozoic chlorite schist. Cretaceous to Tertiary intrusions of the Coast Plutonic Schist. Cretaceous to Tertlary intrusions of the coast ruconic Complex occur just over 1.0 kilometre to the west. Within the shear zone, a quartz vein about 75 metres long is mineralized with auriferous pyrite and minor chalcopyrite. A 0.8 metre sample assayed 1.7 grams per tonne gold, 6.9 grams per tonne silver and trace copper (Minister of Mines Annual Report 1930, page 72).

About 500 metres north of the quartz vein, along the shore,

a siliceous and feldspathic replacement zone is mineralized with pyrite and chalcopyrite.

BIBLIOGRAPHY

EMPR AR \*1930-71-73; 1931-35; 1932-49 EMPR ASS RPT 17861 EMPR BULL No. 1, 1932, pp. 21,29,39 GSC MAP 12-1966; 1385A; 1472A

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 394 GSC P 66-33

DATE CODED: 1986/09/12 DATE REVISED: 1989/02/28 CODED BY: LDJ REVISED BY: GJP FIELD CHECK: N

MINFILE NUMBER: 103J 020

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Copper

MINFILE NUMBER: 103J 021

NATIONAL MINERAL INVENTORY: 103J2 Au4

NAME(S): IXL (L.6517), WRIGHT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J02E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

840

LATITUDE: 54 01 14 N LONGITUDE: 130 35 31 W ELEVATION: 120 Metres

NORTHING: 5986981 EASTING: 395704

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of Lot 6517. Within a few hundred metres of the Surf Point

Mine (103J 017), northwest corner of Porcher Island.

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stockwork CLASSIFICATION: Hydrothermal TYPE: I02 Intrus Epigenetic

Intrusion-related Au pyrrhotite veins STRIKE/DIP: 110/85N DIMENSION: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

HOSTROCK COMMENTS: Unit F - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Plutonic Ŕocks

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1930

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 55.0000 Grams per tonne 208,0000 Gold Grams per tonne

COMMENTS: The sample was "selected" from a dump.

REFERENCE: Minister of Mines Annual Report 1930, page 72.

**CAPSULE GEOLOGY** 

The IXL showing occurs in the northwest corner of Porcher Island, a few hundred metres southwest of the Surf Point Mine (103J 017). Several east-southeast striking auriferous pyritic quartz veins are associated with shear zones in the western part of a 2.8 kilometre diameter Cretaceous to Tertiary quartz diorite stock of the Coast Plutonic Complex. The stock intrudes Paleozoic to Mesozoic mixed volcanic and older plutonic rocks. The veins vary in width from 5 centimetres to 1 metre and up to 24 metres in length. A representative sample from an ore dump assayed 208 grams per tonne gold and 55 grams per tonne silver (Minister of Mines Annual Report

1930, page 72).

**BIBLIOGRAPHY** 

EM ASS RPT 25073

EMPR AR \*1922-46; 1924-46; 1925-67; 1926-72; 1927-62; 1928-70;

\*1930-71,72

EMPR BULL No. 1, 1932, pp. 21,29,39

GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394 GSC P 66-33

GSC SUM RPT \*1922A, pp. 27-29

CODED BY: LDJ DATE CODED: 1986/09/12 FIELD CHECK: N REVISED BY: JNR DATE REVISED: 1988/12/23 FIELD CHECK: N

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 022

NATIONAL MINERAL INVENTORY:

NAME(S): WREN, CC

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J02E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 54 00 09 N LONGITUDE: 130 35 42 W NORTHING: 5984977 EASTING: 395459

ELEVATION: 400 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Description (Minister of Mines Annual Report 1933). Located on Porcher Island about 2.5 kilometres south of the Surf Point Mine

(103J 017).

COMMODITIES: Gold

Silver

Copper

**MINERALS** 

SIGNIFICANT: Pyrite

**Bornite** Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal

**Epigenetic** 

TYPE: 102 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Cretaceous-Tertiary

**Undefined Group** 

Unnamed/Unknown Formation

Coast Plutonic Complex

LITHOLOGY: Schist

Quartz Diorite

HOSTROCK COMMENTS: Mineralization occurs in quartz veins that cut schist near a quartz

diorite stock.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexandér

PHYSIOGRAPHIC AREA: Milbanke Strandflat

METAMORPHIC TYPE: Regional

Plutonic Rocks

RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YFAR: 1933

SAMPLE TYPE: Rock

**GRADE** 

COMMODITY Silver

21.0000 Grams per tonne

Gold

79.0000

Grams per tonne

COMMENTS: The results were obtained from a "selected" sample. REFERENCE: Minister of Mines Annual Report 1933, pages 43,44.

**CAPSULE GEOLOGY** 

The Wren showing occurs on Porcher Island about 2.5 kilometres

south of the Surf Point Mine (103J 017).

Three sub-parallel sheared quartz veins occur in Paleozoic-Mesozoic altered schists. Quartz diorite of the Cretaceous to Mesozoic altered schists. Quartz diorite of the Cretaceous to Tertiary Coast Plutonic Complex has intruded the country rock to the immediate east. The veins strike east to northeast and dip 60 to 90 degrees north. Widths vary from 0.3 to 2 metres and lengths are up to 100 metres. Mineralization consists of pyrite, chalcopyrite and minor bornite. A selected sample assayed 79 grams per tonne gold and 21 grams per tonne silver (Minister of Mines Annual Report 1933,

pages 43,44).

**BIBLIOGRAPHY** 

EMPR AR \*1932-50; \*1933-43,44; 1934-B9

EMPR BULL No. 3, 1932, p. 7 GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 66-33

DATE CODED: 1986/09/12 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1988/12/23 REVISED BY: JNR FIELD CHECK: N

MINFILE NUMBER: 103J 022

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 023

NATIONAL MINERAL INVENTORY:

Pb-Zn skarn

NAME(S): POR

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103J01W BC MAP:

LATITUDE: 54 05 04 N

LONGITUDE: 130 24 56 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Samples, Map 1 (Assessment Report 13051).

COMMODITIES: Zinc Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Calcite Chalcopyrite **Pyrite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Skarn

Replacement **Epigenetic** 

TYPE: K01 Cu skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Paleozoic-Mesozoic

Cretaceous-Tertiary

GROUP Undefined Group

**FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 5993844

EASTING: 407402

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Coast Plutonic Complex

LITHOLOGY: Tuff

Greenstone Limestone Argillite Quartzite Diorite Dioritic Dike

Skarn

HOSTROCK COMMENTS: Units 3a,f - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Alexander

METAMORPHIC TYPE: Regional

Silver

Copper

Gold

PHYSIOGRAPHIC AREA: Milbanke Strandflat

RELATIONSHIP: GRADE: Greenschist

K02

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1984

Per cent

CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis

COMMODITY

**GRADE** 2.0000 Grams per tonne 0.1000 Grams per tonne 0.2600 Per cent

Zinc COMMENTS: Sample description is not available. REFERENCE: Assessment Report 13051.

CAPSULE GEOLOGY

Narrow zones of metasediments, composed of limestone, quartzite and argillite occur in a wide belt of metavolcanics composed of tuffs and greenstones. The rocks are from an unnamed Paleozoic-Mesozoic formation which trends northwest and are intruded by Cretaceous to Tertiary diorite stocks and dykes of the Coast Plutonic Complex. Sphalerite and chalcopyrite occur in skarn zones within the metavolcanics. A rock chip sample assayed 7.0 per cent zinc, 0.26

per cent copper and 2.0 grams per tonne silver (Assessment Report

7.0000

13051).

BIBLIOGRAPHY

EMPR ASS RPT 12238, \*13051 EMPR EXPL 1983-504; 1984-378

GSC MEM 394

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 1385A

DATE CODED: 1986/09/08 CODED BY: LDJ FIELD CHECK: N DATE REVISED: 1988/12/23 REVISED BY: JNR FIELD CHECK: N

MINFILE NUMBER: 103J 023

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 024

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

845

NAME(S): TSIMPSEAN PENINSULA, TSIMPSEAN KYANITE, TRAIL BAY, DUDEVOIR PASSAGE

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103J09W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 54 36 59 N LONGITUDE: 130 24 06 W NORTHING: 6053008 EASTING: 409487

ELEVATION: 100 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: A 6 to 7 kilometre long zone. Coordinates for near centre of zone on

Tsimpsean Peninsula (Open File 1988-26, Figure 9).

COMMODITIES: Kyanite

**MINERALS** 

SIGNIFICANT: Kyanite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Layered Stratabound

CLASSIFICATION: Metamorphic TYPE: P02 Kyan Industrial Min. Syngenetic Kyanite-sillimanite schists

SHAPE: Tabular MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metamorphic

STRATIGRAPHIC AGE GROUP Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Central Gneiss Complex

LITHOLOGY: Aluminous Carbonaceous Schist

Biotite Hornblende Gneiss Amphibolite

Garnet Sillimanite Gneiss

**GEOLOGICAL SETTING** TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Undivided Metamorphic Assembl. METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Amphibolite

CAPSULE GEOLOGY

At the north end of Tsimpsean Peninsula, a 6 to 7 kilometre zone of highly aluminous, carbonaceous schists occurs. These Paleozoic (?) schists are part of the Central Gneiss Complex and are comprised dominantly of grey biotite, plus or minus hornblende gneiss,

amphibolite, and minor sillimanite, plus or minus hornblende gneiss, amphibolite, and minor sillimanite, plus or minus garnet gneiss. The schists contain abundant kyanite porphyroblasts which range up to 3 centimetres in length (Snyder, 1980). Numerous other garnet and sillimanite localities are present in the Prince Rupert-Skeena area (Open File 1988-26, Figure 9).

**BIBLIOGRAPHY** 

EMPR OF \*1988-26, p. 15 GSC MAP 3-1965; 12-1966; 1385A; 1472A

GSC MEM 394 GSC P 66-33

Snyder, J.G., (1980): A Metamorphic and Stuctural Study of the Port Simpson area, British Columbia, unpublished M.A. Thesis, Bryn Mawr College, Pennsylvania, 38 pgs.

CODED BY: JP REVISED BY: LLD DATE CODED: 1988/03/28 DATE REVISED: 1989/01/23 FIELD CHECK: N FIFLD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 025

NATIONAL MINERAL INVENTORY:

NAME(S): **ELLIOTT ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103J01W BC MAP: LATITUDE: 54 02 29 N

NORTHING: 5988871 EASTING: 416946

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REPORT: RGEN0100

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LONGITUDE: 130 16 06 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of limestone band, Geological Survey of Canada Map 12-1966,

Elliot Island.

COMMODITIES: Limestone **Building Stone** Marble

MINERALS
SIGNIFICANT: Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Sedimentary Stratabound Concordant Evaporite Syngenetic Industrial Min.

TYPE: R09 SHAPE: Tabular Limestone

DIMENSION:

STRIKE/DIP: 170/65E TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Permian-Triassic Unnamed/Unknown Formation **Undefined Group** 

LITHOLOGY: Limestone

Schist Marble

Quartz Muscovite Schist

Meta Volcanic

HOSTROCK COMMENTS: Unit 2f - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Teslin Plateau

TERRANE: Alexander METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

The east half of Elliott Island is underlain by Upper Paleozoic to Triassic schistose metavolcanic rocks with intercalated marble and quartz-muscovite schist. The marble is generally white with variations in tint from bluish to yellowish and is variable in grain size from medium to very fine. The zone strikes 170 degrees and dips 65 degrees northeast.

**BIBLIOGRAPHY** 

GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394

GSC P 66-33 CANMET RPT #452, pp. 127,172,173

DATE CODED: 1986/09/09 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 026 NATIONAL MINERAL INVENTORY: 103J1 Cu1

NAME(S): BALD MOUNTAIN, YOUNG BULL (L.6502)

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103J01W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 01 09 N NORTHING: 5986618 LONGITUDE: 130 26 36 W ELEVATION: 200 Metres EASTING: 405437

LOCATION ACCURACY: Within 500M

COMMENTS: Located west of Salt Lagoon, Porcher Island.

COMMODITIES: Copper Gold Silver 7inc Molybdenum

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrrhotite Pyrite **Bornite** Sphalerite

Molybdenite ASSOCIATED: Quartz Garnet **Epidote** Calcite Pyroxene

ALTERATION: Garnet **Epidote** Pyroxene COMMENTS: Alteration primarily due to metamorphism.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Concordant Massive

CLASSIFICATION: Replacement

TYPE: G04 E SHAPE: Irregular Besshi massive sulphide Cu-Zn

STRIKE/DIP: 135/70E TREND/PLUNGE: DIMENSION: COMMENTS: Mineralized length with isolated bodies.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian-Triassic FORMATION IGNEOUS/METAMORPHIC/OTHER Undefined Group

Unnamed/Unknown Formation Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Marble

Amphibolite Quartzite **Pegmatite** Hornblende Schist Amphibolite Quartz Porphyry Granodiorite

HOSTROCK COMMENTS: Unit 2c - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) TERRANE: Alexander

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1916

SAMPLE TYPE: Rock **COMMODITY GRADE** 

Silver 27.4300 Grams per tonne Gold 1.7000 Grams per tonne Copper 0.2000 Per cent

COMMENTS: The sample width is 1.2 metres.

REFERENCE: Minister of Mines Annual Report 1916, pages 50,51.

CAPSULE GEOLOGY

The area is underlain by a northwest trending, northeast dipping belt of Upper Paleozoic-Triassic metasediments consisting of hornblende-biotite schist, quartzites and impure marble. Cretaceous to Tertiary granodiorite of the Coast Plutonic Complex lies west of the metasediments and quartz porphyry and pegmatitic dykes intrude the metasediments.

Clots and small lenses of chalcopyrite, pyrite and pyrrhotite with minor sphalerite, bornite and molybdenite occur in small carbonate-rich zones within hornblende schists and amphibolite. Isolated bodies, up to 2 metres wide and a few metres long, lie along

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

a 1.6 kilometre northwest trend. A 1.2 metre sample of the Young Bull showing assayed 6.2 per cent copper, 1.7 grams per tonne gold and 27.43 grams per tonne silver (Minister of Mines Annual Report 1916, pages 50,51).

**BIBLIOGRAPHY** 

EMPR AR \*1916-50,51; 1917-43; 1920-39; 1922-354; 1923-386; 1933-44 EMPR EXPL 1978-236 EMPR OF 1999-2 EMR OF 1999-2 EMR MP CORPFILE (Dimac Resources Corp.) GSC MAP 12-1966; 1385A; 1472A GSC MEM 394, p. 98 GSC P 66-33, p. 23 GSC SUM RPT \*1922A, p. 26

DATE CODED: 1986/09/08 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE NUMBER: 103J 026

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Replacement

K01

MINFILE NUMBER: 103J 027

NATIONAL MINERAL INVENTORY:

**Epigenetic** 

Cu skarn

NAME(S): **ETTA** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J01W BC MAP: LATITUDE: 54 04 34 N

UTM ZONE: 09 (NAD 83) NORTHING: 5992922

EASTING: 407111

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REPORT: RGEN0100

849

LONGITUDE: 130 25 11 W ELEVATION: 25 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Surface showings, Map 2 (Assessment Report 5027).

COMMODITIES: Zinc. Silver Copper

**MINERALS** 

SIGNIFICANT: Sphalerite ALTERATION: Calcite Chalcopyrite **Pyrite** Pyrrhotite **Epidote** Magnetite

ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Concordant CLASSIFICATION: Skarn TYPE: K02 Hydrothermal

Pb-Zn skarn

G04 Besshi massive sulphide Cu-Zn

SHAPE: Irregular MODIFIER: Sheared

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Formation Mesozoic **Undefined Group** Cretaceous-Tertiary Coast Plutonic Complex

LITHOLOGY: Tuff

Greenstone Limestone Quartzite Argillite Diorite Dioritic Dike

HOSTROCK COMMENTS: Units 3a,f - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Milbanke Strandflat TERRANE: Alexander

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Rock YEAR: 1974 Assay/analysis

COMMODITY **GRADE** 

Silver 1.3700 Grams per tonne Copper 0.1100 Per cent Zinc 8.0000 Per cent

REFERENCE: Assessment Report 5027.

**CAPSULE GEOLOGY** 

Narrow zones of Paleozoic to Mesozoic metasedimentary rocks, consisting of limestone, laminated quartzite and argillite occur in a wide belt of weakly metamorphosed volcanic rocks consisting of tuffs and greenstones. The rocks are intruded by Cretaceous to Tertiary

diorite stocks and dykes of the Coast Plutonic Complex.

Sphalerite, chalcopyrite, pyrite and pyrrhotite occur in skarn zones, quartz veins and shear and fracture zones in the metavolcanic rocks. A surface sample assayed 8.0 per cent zinc, 0.11 per cent copper and 1.37 grams per tonne silver (Assessment Report 5027).

**BIBLIOGRAPHY** 

EMPR ASS RPT 4401, \*5027, 12 EMPR EXPL 1983-504; 1984-378 12238, 13051 EMPR GEM 1973-487,488; 1974-324,325

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 12-1966; 1385A; 1472A GSC MEM 394, p. 98 GSC P 66-33

DATE CODED: 1986/09/08 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103J 027

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 028

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

851

NAME(S): **JITNEY**, ETTA

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103J01W BC MAP:

LATITUDE: 54 04 39 N NORTHING: 5993095 EASTING: 406205

LONGITUDE: 130 26 01 W ELEVATION: 30 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Map (Mitchell, 1969, Property File).

COMMODITIES: Copper 7inc Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Pyrrhotite Pyrite Sphalerite

ALTERATION: Chlorite **Epidote** 

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

III
CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: G04 Bessh
SHAPE: Irregular
MODIFIER: Sheared Replacement **Epigenetic** 

Besshi massive sulphide Cu-Zn

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Unnamed/Unknown Formation

**Undefined Group** 

LITHOLOGY: Greenstone Argillite Tuff Limestone Quartzite Diorite Dioritic Dike

HOSTROCK COMMENTS: Units 3a - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat TERRANE: Alexander

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

Narrow zones of Paleozoic to Mesozoic metasediments comprised of

Narrow zones of Paleozolc to Mesozolc metasediments comprised of limestone, quartzite and argillite occur in a wide belt of metavolcanics comprising tuff and greenstone. The rocks are intruded by diorite stocks and dykes of the Coast Plutonic Complex.

Chalcopyrite, pyrrhotite, pyrite and minor sphalerite occur in a narrow north trending shear zone within altered andesite or greenstone. A selected sample from an ore dump assayed 12.5 per cent copper, 0.4 per cent zinc, 85 grams per tonne silver and 0.7 grams per tonne gold. A 2 metre sample of a shear zone, 120 metres to the east, assayed 0.45 per cent copper, 0.84 per cent zinc and trace gold and silver (Property File: Mitchell, 1969).

**BIBLIOGRAPHY** 

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EMPR ASS RPT 4401, 12238, 13051 EMPR EXPL 1983-504; 1984-378

EMPR GEM 1973-487,488

GSC MAP 12-1966; 1385A; 1472A GSC MEM 394, p. 98

GSC P 66-33

GSC SUM RPT \*1922A, p. 27

DATE CODED: 1986/09/08 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N DATE REVISED: 1988/12/23 FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 029

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

852

NAME(S): **PORCHER ISLAND LIMESTONE** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103J01W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 03 59 N NORTHING: 5991753 EASTING: 411542

LONGITUDE: 130 21 06 W ELEVATION: 10 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Limestone zone, Map 1472A (Geological Survey of Canada Memoir 394).

COMMODITIES: Limestone Magnetite Iron

**MINERALS** 

Magnetite

SIGNIFICANT: Calcite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary Industrial Min.

TYPE: R09 SHAPE: Regular K03 Limestone Fe skarn

STRIKE/DIP: 140/50E DIMENSION: 4000 TREND/PLUNGE: Metres

COMMENTS: Length of zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Paleozoic-Mesozoic Undefined Group Unnamed/Unknown Formation

> LITHOLOGY: Limestone Quartzite

Chlorite Amphibole Schist

HOSTROCK COMMENTS: Unit 3f - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**CAPSULE GEOLOGY** 

The area is underlain mainly by Paleozoic-Mesozoic metavolcanics consisting of chlorite amphibole schist and narrow zones of metasediments comprised of limestone, quartzite and argillite. The crystalline limestone, up to 3 metres thick, trends northwest for about 1 kilometre and dips 45 degrees to 60 degrees east. Magnetite in quartzite and limestone represents the northwest extension of a 4

kilometre long magnetite zone (see Star 103J 031).

**BIBLIOGRAPHY** 

EMPR ASS RPT 12238, 13051

EMPR EXPL 1984-378

EMPR IND MIN FILE (Limestone Occurrences in BC (in Ministry Library))

GSC MAP 3-1965, 12-1966; 1385A; 1472A

GSC MEM 394, p. 37

GSC P 66-33

CANMET RPT #452, pp. 127,172; #811, p. 174

CODED BY: LDJ REVISED BY: JNR DATE CODED: 1986/09/02 FIELD CHECK: N DATE REVISED: 1988/12/23 FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 030

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

853

NAME(S): **SMITH ISLAND** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103J01E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 08 39 N
LONGITUDE: 130 09 26 W
ELEVATION: 10 Metres
LOCATION ACCURACY: Within 1 KM NORTHING: 6000181 EASTING: 424409

COMMENTS: Description of quarry locations.

COMMODITIES: Granite Dimension Stone **Building Stone** 

**MINERALS** 

SIGNIFICANT: Unknown MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive
CLASSIFICATION: Magmatic Industri
TYPE: R03 Dimension stone - granite Industrial Min.

SHAPE: Regular

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER Coast Plutonic Complex **FORMATION** 

LITHOLOGY: Granodiorite

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Rocks

**CAPSULE GEOLOGY** 

The area is underlain by the northern edge of the Cretaceous to Tertiary Smith Island Pluton. The rock is a medium to fine-grained grey granodiorite with a specific gravity of 2.79. Near vertical joints strike 160 degrees and infrequent cross joints strike 075

degrees.

**BIBLIOGRAPHY** 

GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394

GSC P 66-33 CANMET RPT \*#452, pp. 95-97

DATE CODED: 1986/09/09 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 031

NATIONAL MINERAL INVENTORY: 103J1 Fe1

NAME(S): **STAR**, RUPERT

STATUS: Showing REGIONS: British Columbia NTS MAP: 103J01W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

854

LATITUDE: 54 02 49 N LONGITUDE: 130 19 06 W ELEVATION: 50 Metres NORTHING: 5989549 EASTING: 413683

MINING DIVISION: Skeena

LOCATION ACCURACY: Within 500M

COMMENTS: Magnetite zone in the centre of mineralized area, extending for 5 kilometres in a northwesterly direction along the west shore of Chismore Passage in the northeast corner of Porcher Island.

COMMODITIES: Iron Magnetite

**MINERALS** 

SIGNIFICANT: Magnetite ASSOCIATED: Calcite ALTERATION: Epidote Quartz Pyrite Chlorite **Garnet** ALTERATION TYPE: Skarn

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive Disseminated Stratiform CLASSIFICATION: Skarn TYPE: K03 Replacement Industrial Min. Fe skarn

SHAPE: Irregular

DIMENSION: 4000 x 0060 x 0045 Metres STRIKE/DIP: 135/65E TREND/PLUNGE: COMMENTS: Area of intermittent magnetite exposure.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Mesozoic Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Chlorite Sericite Schist

Limestone

Quartzite

HOSTROCK COMMENTS: Unit 3d - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

CAPSULE GEOLOGY

Isolated magnetite exposures occur along a 5-kilometre, northwest strike, within Paleozoic-Mesozoic metavolcanics and metasediments consisting of chlorite-sericite schists and intercalated limestones and quartzites. The rocks dip about 65 degrees northeast and, in places contain epidote, garnet and pyrite. The mineralized zone has places, contain epidote, garnet and pyrite. The mineralized z a maximum width of 60 metres and a drill indicated depth of 45 metres.

The individual outcrops vary in character. Schists bearing discontinuous streaks of fine granular magnetite form zones a few metres wide and less than 15 metres long, and massive magnetite occurs up to 4 metres thick, but less than 10 metres long. The streakiness and lenticularity of the occurrences allowed only grades

of about 35 per cent iron.

BIBLIOGRAPHY

EMPR AR \*1956-128,129

GSC EC GEOL \*Series #3, Vol. 1, pp. 2 GSC MAP 3-1965; 12-1966; 1385A; 1472A 21 - 24

GSC MEM 394, p. 98 GSC P 66-33, p. 23; 69-54, Table 1

DATE CODED: 1986/09/05 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 032

NATIONAL MINERAL INVENTORY:

Dimension stone - marble

R04

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 5990551

EASTING: 418067

REPORT: RGEN0100

855

NAME(S): HANMER ISLAND, WHITECLIFF ISLAND

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103J01E BC MAP:

LATITUDE: 54 03 24 N

LONGITUDE: 130 15 06 W ELEVATION: 10 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Marble zone, Map 1472A (Geological Survey of Canada Memoir 394).

Quarrying attempt in 1878, Hanmer Island.

COMMODITIES: Limestone Marble **Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound

CLASSIFICATION: Sedimentary TYPE: R09 Lime Industrial Min. Syngenetic

Limestone

SHAPE: Regular MODIFIER: Folded

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** GROUP Undefined Group IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Permian-Triassic Unnamed/Unknown Formation

LITHOLOGY: Marble

Quartzite Dioritic Dike Limestone Schist

HOSTROCK COMMENTS: Unit 2f - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1944 CATEGORY: Assay/analysis

SAMPLE TYPE: Rock

COMMODITY **GRADE** Per cent 91.1400 Limestone

REFERENCE: Canmet Report 811.

**CAPSULE GEOLOGY** 

Upper Paleozoic to Triassic marble and intercalated quartzite are exposed on the south tip of Hanmer Island. The marble is highly contorted and quartzite, which may be meta-cherts, is laminated and frequently boudinaged.

The band of pinkish, medium-grained calcium limestone forms a cliff 30 metres high. The limestone is bounded by schist and intruded by diorite dykes.

A sample analysed 91.14 per cent CaCO3, 1.07 per cent MgCO3, 6.12 per cent SiO2, 0.49 per cent Fe2O3, 0.51 per cent Al2O3 and 0.04 per cent Ca3(PO4)2 (Canmet Report 811).

**BIBLIOGRAPHY** 

GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394, p. 30

GSC P 66-33

CANMET RPT \*#452, pp. 127,174,175; #811, pp. 174,175

CODED BY: LDJ REVISED BY: JNR DATE CODED: 1986/09/02 FIELD CHECK: N DATE REVISED: 1988/12/23 FIFLD CHECK: N

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 033

NATIONAL MINERAL INVENTORY:

NAME(S): CLAXTON

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J01E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

856

LATITUDE: 54 05 29 N

COMMENTS: Industrial Minerals File.

NORTHING: 5994234 EASTING: 429036

LONGITUDE: 130 05 06 W ELEVATION: 50 Metres LOCATION ACCURACY: Within 1 KM

COMMODITIES: Dolomite

**MINERALS** 

SIGNIFICANT: Dolomite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive
CLASSIFICATION: Sedimentary
TYPE: R10 Dolomite

Stratabound Industrial Min.

**HOST ROCK** 

Permian-Triassic

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** 

**FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Dolomite

Feldspathic Schist

**Undefined Group** 

HOSTROCK COMMENTS: Unit 2 - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1980 SAMPLE TYPE: Grab

COMMODITY

Dolomite Per cent 41.9000

COMMENTS: Grade given for MgCO3. REFERENCE: Industrial Minerals File (McCammon, J.W, (1980), page 4).

**CAPSULE GEOLOGY** 

The area is underlain by Permo-Triassic feldspathic schist with

a north trend and 80 degrees west dip.

A large dolomitic deposit is reported to occur 300 metres from the water at Claxton, 24.0 kilometres south of Prince Rupert. A sample contained 41.9 per cent MgCO3 (Jim McCammon, Industrial Mineral

File).

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Dolomite Occurrences In British Columbia by McCammon, J.W. 1980, p. 4 (in Ministry Library))
GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394

GSC P 66-33

DATE CODED: 1986/09/03 DATE REVISED: 1989/03/03 CODED BY: LDJ REVISED BY: GJP FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 034

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

857

NAME(S): CLOUGH

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103J01E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 00 29 N NORTHING: 5984963 LONGITUDE: 130 05 06 W ELEVATION: 50 Metres EASTING: 428894

LOCATION ACCURACY: Within 1 KM

COMMENTS: Marble zone, Map 1472A (Geological Survey of Canada Memoir 394).

COMMODITIES: Limestone Marble **Building Stone** 

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound CHARACTER: Massive CLASSIFICATION: Sedimentary TYPE: R04 Dimer SHAPE: Regular Industrial Min.

R09 Dimension stone - marble Limestone

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Permian-Triassic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Formation Undefined Group

LITHOLOGY: Marble

Feldspar Schist

HOSTROCK COMMENTS: Unit 2f - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Alexander METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

A north trending zone of marble and intercalated quartzite occurs within Upper Paleozoic to Triassic feldspathic schist.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (\*Limestone Occurrences in British Columbia by McCammon, J.W. 1973, p. 32 (in Ministry Library))
GSC MAP 12-1966; 1385A; 1472A
GSC MEM 394, p. 30
GSC P 66-33

DATE CODED: 1986/09/03 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 035

NATIONAL MINERAL INVENTORY: 103J4 Au1

PAGE:

REPORT: RGEN0100

858

NAME(S): FIFE POINT, CAPE FIFE, BLACK SANDS

STATUS: Past Producer Open Pit MINING DIVISION: Skeena

REGIONS: British Columbia, Queen Charlotte Islands NTS MAP: 103J04E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 54 06 24 N NORTHING: 5998492 EASTING: 325663

LONGITUDE: 131 40 06 W ELEVATION: 20 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Symbol, Figure 34 (Bulletin 54). Near the northeast tip of Graham

COMMODITIES: Gold Iron Titanium 7irconium

**MINERALS** 

SIGNIFICANT: Gold Magnetite Ilmenite Zircon Titanite Garnet Staurolite

ASSOCIATED: Rutile Hematite **Epidote** 

Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C03 Marine p Residual Sedimentary Industrial Min.

Marine placers

SHAPE: Irregular

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Quaternary **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Informal

LITHOLOGY: Unconsolidated Sediment/Sedimentary

Sandstone Clay Grável Conglomerate

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Queen Charlotte Lowland TECTONIC BELT: Insular

TERRANE: Overlap Assemblage

### CAPSULE GEOLOGY

The black sands of northeast Graham Island were discovered to contain gold as early as 1877. The Cape Fife showing is located 8 kilometres south of Rose Point on the east coast of Graham Island.

In 1906 the black sands were examined and in 1909, 15 hydraulic placer lenses were granted; some sluicing was attempted. In 1910 Sandhurst Gold Mines, Limited, obtained 13 placer leases. In the summer of 1924, 57 test holes 0.9 x 1.5 metres and 1.8 to 4 metres deep were sunk, revealing 2-20 inches of black sand. Assays indicated \$1.50 per yard in gold values. Work in 1925 was financed by Tretheway-Tough Mining Syndicate, Limited. Tests showed a recovery of 81 per cent of gold by amalgamation and cyanidation. Assay results ranged from nil to \$9.43 a ton of gold in 61 samples. In 1932, Gold Beach Mines, Limited, absorbed the assets of Gold Star Mines, Limited. In a test of the area, 102 cubic yards of workable sand.

Mogul Mining Corporation Limited in about 1956 acquired placer mining leases covering about 88 square kilometres. In June 1957 Lexindin Gold Mines, Limited, acquired from Mogul a 65 per cent interest in the property. Beach sand and cyanide tailings samples were sent to the Mines Branch, Ottawa, in December 1956 and June 1957 for tests for concentrates of magnetite, ilmenite, rutile, and zircon. A chemical analysis of 2 head samples gave averages of 41.48 per cent iron and 8.38 per cent titanium dioxide.

Pleistocene to Recent deposits of unconsolidated to semiconsolidated sands, clays, sandy clays, gravels, conglomerates, and a basal blue-grey glacial clay overlie Tertiary Skonun Formation.

Black sand deposits have a lenticular and varying distribution

along the base of bordering beach-bluffs. The black sands, derived from the erosion of the bluffs and subsequent concentration by wave and wind action, contain magnetite, titaniferous-hematite, ilmenite, rutile, zircon, and gold.

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

EMPR AR 1906-75,77; 1909-72; 1910-85; 1911-78; 1918-37,104; 1922-40; 1924-43; 1925-65; 1926-65,66; 1928-63; \*1929-62-65; 1930-63; 1932-38,39; 1933-40; 1935-B27

EMPR BULL 1(1933), pp. 24-25(Placer); 2(1930), pp. 28-31(Placer); 21, p. 17; 28, p. 48; \*54, p. 174

EMPR PF (\*Various Reports on Black Sands)

EMR MP CORPFILE (The Queen Charlotte Islands Collieries, Limited; Tretheway-Tough Mining Syndicate, Limited)

GSC EC. GEOL. 25, p. 131 GSC EC. GEOL. 25, p. 131 GSC MAP 278A; 1385A GSC MEM 88, pp. 173,174 GSC P 69-54, Table 1 GSC P 69-54, Table 1
B.C. MINER Nov., 1933, pp. 714-718
CANMET IR No. MD 3177, Oct., 1957
CANMET MR 31, 1959, p. 142
CMJ Nov.28, 1924, p. 1165
Dawson, G.M., (1879): Queen Charlotte Islands, Reports of Progress, 1878-1879; GSC, p. 33B Falconbridge File

DATE CODED: 1986/06/03 DATE REVISED: 1988/12/23

CODED BY: LDJ REVISED BY: JNR

FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 036 NATIONAL MINERAL INVENTORY:

NAME(S): FATHER POINT, WORK CHANNEL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103J09W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 39 19 N LONGITUDE: 130 26 16 W ELEVATION: 30 Metres NORTHING: 6057382 EASTING: 407244

LOCATION ACCURACY: Within 1 KM

COMMENTS: At the mouth of Work Channel.

COMMODITIES: Limestone **Building Stone** Marble

**MINERALS** 

SIGNIFICANT: Calcite ASSOCIATED: Hornblende MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Sedimentary Stratabound Industrial Min.

R04 Limestone Dimension stone - marble

TYPE: R09 I SHAPE: Regular MODIFIER: Folded

COMMENTS: Maximum width is 10 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Paleozoic IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Central Gneiss Complex

LITHOLOGY: Marble

Hornblende Gneiss

HOSTROCK COMMENTS: Unit 1d - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Undivided Metamorphic Assembl. PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Tightly folded marble zones, up to 10 metres thick are interlayered with hornblende gneiss of the Paleozoic Central Gneiss

Complex.

**BIBLIOGRAPHY** 

EMPR IND MIN FILE (Limestone Occurrences in British Columbia

by McCammon, J.W. 1973, p. 33 (in Ministry Library))
GSC MAP 1385A; 1472A

GSC MEM 394, p. 14

DATE CODED: 1986/09/02 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103J 036

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 037

NATIONAL MINERAL INVENTORY: 103J10,7 Lst1,Grp1

NAME(S): **RANDALL ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J07W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

861

LATITUDE: 54 29 49 N LONGITUDE: 130 46 26 W ELEVATION: 15 Metres NORTHING: 6040262 EASTING: 385118

LOCATION ACCURACY: Within 500M

COMMENTS: Limestone zone, Map 1472A (Geological Survey of Canada Memoir 394),

Randall Island.

COMMODITIES: Limestone Graphite

**MINERALS** 

SIGNIFICANT: Calcite Graphite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary TYPE: R09 Lime Industrial Min.

P03 Microcrystalline graphite Limestone SHAPE: Regular

DIMENSION: STRIKE/DIP: 170/70E TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

STRATIGNACTION Paleozoic-Mesozoic Undefined Group Unnamed/Unknown Formation

> LITHOLOGY: Limestone Quartzite Rhyolite

Dolomite Graphitic Schist

HOSTROCK COMMENTS: Unit 3f - Geological Survey of Canada Map 1472A. Conodonts date some

of the limestone as mid-Pennsylvanian and Norian (Late Triassic).

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander

CAPSULE GEOLOGY

A north trending, moderate east dipping zone of Paleozoic to Mesozoic layered to massive buff-weathered limestone and a dull-grey massive dolomitic limestone is bounded to the east by rhyolite, chlorite schist and minor black graphitic schist and to the west by well-layered (2.5 to 5 centimetres) impure quartzites. A northwest trending shear zone, 0.1 to 10 metres wide, likely separates, by left lateral movement, the limestones on the east shore of Dunira Island (103J 038), 5.5 kilometres to the southeast.

**BIBLIOGRAPHY** 

EMPR ASS RPT 12197, \*12777, 22766 GSC MAP 12-1966; 1385A; 1472A GSC MEM \*394, pp. 37-39,42 GSC P 66-33

Placer Dome File

DATE CODED: 1986/09/03 CODED BY: LDJ FIELD CHECK: N REVISED BY: JNR DATE REVISED: 1988/12/23 FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 038 NATIONAL MINERAL INVENTORY: 103J7 Lst1,Grp1

NAME(S): **DUNIRA ISLAND** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103J07W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6034359 EASTING: 386230

LATITUDE: 54 26 39 N LONGITUDE: 130 45 16 W ELEVATION: 15 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Limestone zone, Map 1472A (Geological Survey of Canada Memoir 394),

Dunira Island.

COMMODITIES: Limestone Graphite

**MINERALS** 

SIGNIFICANT: Calcite Graphite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Stratabound CLASSIFICATION: Sedimentary TYPE: R09 Lime Industrial Min.

P03 Microcrystalline graphite Limestone SHAPE: Regular

DIMENSION: STRIKE/DIP: 045/40E TREND/PLUNGE:

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

STRATIGNACTION Paleozoic-Mesozoic Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Limestone

Dolomite Quartzite Chlorite Schist Graphitic Schist

HOSTROCK COMMENTS: Unit 3f-Geological Survey of Canada Map 1472A. Early Pennsylvanian

conodonts & Norian(Upper Triassic) conodonts are present in limestone.

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander

CAPSULE GEOLOGY

The area is underlain, from north to south, by Paleozoic to Mesozoic layered quartzites interbedded with minor layers, up to 1 metre wide, of limestone, buff-weathered layered limestone, dull grey dolomitic limestone, and calcareous chloritic schists with minor graphitic schists. The strata trends northeast and dips about 40 degrees east. A northwest trending shear zone, 0.1 to 10 metres wide, likely separates, by left lateral movement, the limestones on Randell Island (103J 037), 5.5 kilometres to the northwest. Norian (Late Triassic) ammonoids have also been noted within limestones on the east shore of Dunira Island.

**BIBLIOGRAPHY** 

EMPR ASS RPT 12197, 12777, 22764 GSC MAP 3-1965; 12-1966; 1385A; 1472A

GSC MEM 394, pp. 37,39,42

GSC P 66-33

DATE CODED: 1986/09/03 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N FIFLD CHECK: N

> MINFILE NUMBER: 103J 038

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 039

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6020208 EASTING: 403231

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

863

NAME(S): **DEVASTATION ISLAND** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103J08W BC MAP:

LATITUDE: 54 19 14 N LONGITUDE: 130 29 16 W ELEVATION: 1 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Southwest tip Devastation Island.

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Calcite
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive CLASSIFICATION: Sedimentary TYPE: R09 Limestone Stratabound Industrial Min.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**GROUP** STRATIGRAPHIC AGE

**FORMATION Undefined Group** Unnamed/Unknown Formation

Paleozoic-Mesozoic

LITHOLOGY: Limestone

Dolomite Rhyolite

HOSTROCK COMMENTS: Unit 3f - Geological Survey of Canada Map 1472A.

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline

TERRANE: Alexandér

PHYSIOGRAPHIC AREA: Milbanke Strandflat

**CAPSULE GEOLOGY** 

A zone of well-bedded, brown-weathering, Paleozoic-Mesozoic dolomitic limestone underlies the southwestern tip of Devastation Island. The limestone changes westward from moderately bedded (15 to 60 centimetres) to thick-bedded (greater than 15 metres). The limestone contains scattered chert and small angular clasts of the adjacent rhyolite. Coral bearing limestone on Devastation Island strongly resembles the Coralline Norian carbonates on both Randall and Dunira Islands.

**BIBLIOGRAPHY** 

GSC MAP 12-1966; 1385A; 1472A GSC MEM \*394, pp. 39,42

GSC P 66-33

CODED BY: LDJ REVISED BY: JNR DATE CODED: 1986/09/03 DATE REVISED: 1988/12/23

MINFILE NUMBER: 103J 039

FIELD CHECK: N FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 040

NATIONAL MINERAL INVENTORY:

NAME(S): **DIGBY ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J08W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

864

LATITUDE: 54 18 29 N LONGITUDE: 130 27 06 W ELEVATION: 15 Metres

NORTHING: 6018769 EASTING: 405551

LOCATION ACCURACY: Within 500M

COMMENTS: Limestone zone, Map 1472A (Geological Survey of Canada Memoir 394),

Digby Island.

COMMODITIES: Limestone

MINERALS
SIGNIFICANT: Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

SIT
CHARACTER: Massive
CLASSIFICATION: Sedimentary
TYPE: R09 Limes
SHAPE: Regular Stratabound Industrial Min.

Limestone

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE
Paleozoic-Mesozoic **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Undefined Group** Unnamed/Unknown Formation

LITHOLOGY: Limestone

Phyllitic Schist

HOSTROCK COMMENTS: Unit 4 - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander

**CAPSULE GEOLOGY** 

A north trending zone about 1 kilometre long, of well-bedded brown-weathering, dolomitic limestone underlies the eastern shore of a small inlet 0.8 kilometres northeast of Straith Point on Digby Island. The limestone lies within Paleozoic to Mesozoic phyllitic

schists.

**BIBLIOGRAPHY** 

GSC MAP 12-1966; 1385A; 1472A GSC MEM 394, p. 42 GSC P 66-33

CODED BY: LDJ REVISED BY: JNR DATE CODED: 1986/09/03 DATE REVISED: 1988/12/23 FIELD CHECK: N FIELD CHECK: N

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 041

NATIONAL MINERAL INVENTORY: 103J8,9 Grp1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6020903 EASTING: 407041

PAGE:

REPORT: RGEN0100

865

NAME(S): **DIGBY ISLAND**, TSIMPSEAN PENINSULA

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103J08W BC MAP:

LATITUDE: 54 19 39 N LONGITUDE: 130 25 46 W ELEVATION: 15 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: North end of Digby Island; several graphite showings occur on the

island and Tsimpsean Peninsula.

COMMODITIES: Graphite

MINERALS SIGNIFICANT: Graphite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratabound CLASSIFICATION: Industrial Min.

TYPE: P03 Microcrystalline graphite

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP Undefined Group **FORMATION** Unnamed/Unknown Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Phyllite

Greywacke Sericite Chlorite Schist Conglomerate Argillaceous Schist

HOSTROCK COMMENTS: Units 2d,4a - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander

METAMORPHIC TYPE: Regional

PHYSIOGRAPHIC AREA: Milbanke Strandflat

**RELATIONSHIP:** GRADE: Amphibolite

**CAPSULE GEOLOGY** 

Several occurrences of graphite, noted on Map 12-1966, are located on Digby Island and along the west shore of Tsimpsean

Peninsula. Paleozoic-Mesozoic dark argillaceous schists are chiefly thick-bedded phyllites and schists, which are locally graphitic. In zones up to 15 metres wide, the dark schist sequence is composed of intraformational conglomerate, well-bedded greywacke and pale

sericite-chlorite schists.

**BIBLIOGRAPHY** 

GSC MAP 3-1965; 12-1966; 1385A; 1472A GSC MEM 394, p. 41

GSC P 66-33

CODED BY: LDJ REVISED BY: JNR DATE CODED: 1986/09/04 DATE REVISED: 1988/12/23

FIELD CHECK: N

FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

STRIKE/DIP: 145/70N

MINFILE NUMBER: 103J 042

NATIONAL MINERAL INVENTORY:

NAME(S): CLAM BAY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J07W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

866

LATITUDE: 54 29 24 N LONGITUDE: 130 47 21 W

NORTHING: 6039515 EASTING: 384109

TREND/PLUNGE:

Metres **ELEVATION:** 

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized quartz vein (Map I-1, Assessment Report 12777), Baron

COMMODITIES: Lead Silver 7inc

SIGNIFICANT: Galena Sphalerite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION:

COMMENTS: Quartz vein.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Tuff

Shale Granodiorite Pyroxene Tuff Chert Diorite

HOSTROCK COMMENTS: Unit 3d - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1984 Assay/analysis

COMMODITY **GRADE** 

13.0000 Silver Grams per tonne Lead 0.4300Per cent

REFERENCE: Assessment Report 12777.

**CAPSULE GEOLOGY** 

The area is underlain mainly by diorite with discontinuous bands of Paleozoic to Mesozoic sediments and minor volcanics. A major fault, striking 060 degrees, cuts off the north striking sills and sediments with granodiorite occurring northwest of the fault. To the east, are pyroxene porphyry tuffs, with lenses of cherty sedi-

ment and graphitic shale.

A sphalerite-galena quartz vein, striking 145 degrees and dipping 70 degrees northeast, occurs in pyroxene porphyry tuffs on the east shore of Clam Bay. A sample assayed 0.43 per cent lead and 13 grams per tonne silver. On the west shore of the bay, a grab sample of black graphitic shale assayed 0.05 per cent zinc, 0.01 per cent copper and 1.8 grams per tonne silver (Assessment Report 12777).

BIBLIOGRAPHY

EMPR ASS RPT 12197, \*12777 GSC MAP 12-1966; 1385A; 1472A

MINFILE NUMBER: 103J 042

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 66-33

DATE CODED: 1986/09/04 CODED BY: LDJ DATE REVISED: 1988/12/23 REVISED BY: JNR FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 043

NATIONAL MINERAL INVENTORY:

NAME(S): **BARON ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J07W BC MAP:

UTM ZONE: 09 (NAD 83)

Gold

PAGE:

REPORT: RGEN0100

868

LATITUDE: 54 28 34 N LONGITUDE: 130 47 11 W

NORTHING: 6037965 EASTING: 384249

Metres **ELEVATION:** 

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized quartz vein, Map H-1 (Assessment Report 12777), Baron

COMMODITIES: Silver Lead 7inc Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite Galena Sulphur Arsenopyrite Pyrite

Pyrrhotite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP
Cretaceous-Tertiary IGNEOUS/METAMORPHIC/OTHER FORMATION

Coast Plutonic Complex

LITHOLOGY: Diorite

Granodiorite Quartz Diorite Dioritic Gabbro Pyroxene Tuff Agglomerate Volcanic Flow Rhyolite

Sediment/Sedimentary

HOSTROCK COMMENTS: Unit A - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

DNIC BELT: Coast Crystalline TERRANE: Plutonic Rocks TECTONIC BELT: PHYSIOGRAPHIC AREA: Milbanke Strandflat Alexander

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1984 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Silver 73.0000 Grams per tonne 0.1300 Copper Per cent

Lead 1.5500 Per cent Zinc 0.1200 Per cent

REFERENCE: Assessment Report 12777.

CAPSULE GEOLOGY

The area is dominated by a Cretaceous to Tertiary diorite pluton and quartz diorite to dioritic gabbro sills of the Coast Plutonic Complex. Thin, discontinuous rafts of sedimentary rocks occur within the intrusions. Younger granodiorite sills intrude the sediments and diorites. To the northeast, lie a thick (>300 metres) sequence of pyroxene porphyry tuffs, flows and agglomerates with rhyolite lenses. Strike slip faults, with offsets of up to 100 metres are numerous and

strike 060 to 080 degrees.

Quartz veins in diorite contain galena stringers, chalcopyrite, pyrrhotite and sphalerite. A grab sample assayed 1.55 per cent lead, 73.0 grams per tonne silver, 0.12 per cent zinc and 0.13 per cent copper. A quartz vein in granodiorite with pyrite and arsenopyrite 100 metres to the south, assayed 0.24 grams per tonne gold. Graphitic sediments, 400 metres to the south, assayed 0.07 per cent zinc (Assessment Report 12777).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 12197, \*12777 GSC MAP 12-1966; 1385A; 1472A GSC MEM 394 GSC P 66-33

DATE CODED: 1986/09/04 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR

MINFILE NUMBER: 103J 043

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FIELD CHECK: N

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 044

NATIONAL MINERAL INVENTORY:

NAME(S): DUN 10, GRANT 4

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103J07W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

870

LATITUDE: 54 27 29 N LONGITUDE: 130 47 16 W ELEVATION: 30 Metres

NORTHING: 6035958 EASTING: 384108

LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized showing, Map J-1 (Assessment Report 12777), Dunira Island.

COMMODITIES: Zinc Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Sphalerite

Cuprite Calcite

ALTERATION: Silica Malachite Pyrite Sericite **Epidote** Chlorite Kaolinite

ALTERATION TYPE: Silicific'n Sericitic Argillic Oxidation Propylitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Stratabound

CLASSIFICATION: Hydrothermal Syngenetic G04

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au Besshi massive sulphide Cu-Zn DIMENSION: 020/38E STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Pyritic chert horizon.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Undefined Group Unnamed/Unknown Formation

LITHOLOGY: Graphitic Chert

Rhyolite Dacite Crystal Tuff Lapilli Tuff

Pyroxene Porphyry

Diorite

HOSTROCK COMMENTS: Unit 3 - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1984 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY Silver 1.0000 Grams per tonne

Copper 0.0900 Per cent

REFERENCE: Assessment Report 12777.

**CAPSULE GEOLOGY** 

The area is dominated by a north trending continuous Mesozoic and/or Paleozoic cherty sediment horizon. To the east, are intercalated rhyolite and dacite crystal and crystal lapilli tuffs and volcanogenic sediments with chlorite, sericite and epidote alteration. Above these are a thick (130 metres) massive rhyolite unit and a massive pyroxene porphyry. To the west, lie diorite and pyroxene

porphyry.

A horizon of the pyritic cherty sediment assayed 0.14 per cent zinc. Two hundred metres to the east of the chert horizon, chalcopyrite in quartz veins within crystal tuffs assayed 0.09 per cent copper and 1.0 grams per tonne silver (Assessment Report 12777). These veins also contain malachite, cuprite and kaolinite and have

sericite-pyrite alteration envelopes.

**BIBLIOGRAPHY** 

EMPR ASS RPT 12197, \*12777, 16036, 22764

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR EXPL 1983-504; 1084-378 EMPR OF 1999-2 GSC MAP 12-1966; 1385A; 1472A GSC MEM 394 GSC P 66-33

CODED BY: LDJ REVISED BY: JNR DATE CODED: 1986/09/05 DATE REVISED: 1988/12/28

MINFILE NUMBER: 103J 044

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FIELD CHECK: N

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 045

NATIONAL MINERAL INVENTORY:

NAME(S): DUN 9, KATHLEEN 1

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103J07W BC MAP: LATITUDE: 54 26 24 N

NORTHING: 6033929 EASTING: 384868

PAGE:

REPORT: RGEN0100

872

LONGITUDE: 130 46 31 W ELEVATION: 90 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized sample, Map A-1 (Assessment Report 12777), Dunira Island.

COMMODITIES: Zinc Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Graphite Sphalerite Pyrrhotite Chalcopyrite

ALTERATION: Pyrite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Stratiform CLASSIFICATION: Replacement Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Cretaceous-Tertiary

Undefined Group Unnamed/Unknown Formation Coast Plutonic Complex

LITHOLOGY: Graphitic Phyllitic Shale

Granodiorite Dioritic Sill Gabbroic Sill Chert Siltstone Phyllite

HOSTROCK COMMENTS: Unit 3f - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat TERRANE: Alexander

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1984 Assay/analysis

COMMODITY **GRADE** 

Gold 1.8000 Grams per tonne 0.6400 Zinc Per cent

REFERENCE: Assessment Report 12777.

**CAPSULE GEOLOGY** 

A band of Mesozoic and/or Paleozoic metasedimentary and metavolcanic rocks, trending north and dipping 45 degrees east, is volcanic rocks, trending north and dipping 45 degrees east, is surrounded by intrusive rocks of the Coast Plutonic Complex. To the west, the metasediments are thrust on top of younger granodiorite and to the east, the succession is invaded by thick dioritic to gabbroic sills. The metasedimentary rocks consist of cherts, siltstones and phyllites with lenses of graphitic shales.

Mineralization consists of disseminated pyrite, pyrrhotite,

chalcopyrite, and sphalerite within the black graphitic phyllitic shales. A grab sample assayed 0.64 per cent zinc and 1.8 grams per

tonne gold (Assessment Report 12777).

**BIBLIOGRAPHY** 

EMPR ASS RPT 12197, \*12777, 16036, 22764 EMPR EXPL 1983-504; 1984-378; 1987-C362

GSC MAP 12-1966; 1385A; 1472A GSC MEM 394

MINFILE NUMBER: 103J 045

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC P 66-33

 DATE CODED: 1986/09/04
 CODED BY: LDJ

 DATE REVISED: 1988/12/28
 REVISED BY: JNR

MINFILE NUMBER: 103J 045

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FIELD CHECK: N

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 046

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 6030269 EASTING: 382882

REPORT: RGEN0100

874

NAME(S): **CONDUCTOR ISLAND**, GRANT 3

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103J07W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 24 24 N LONGITUDE: 130 48 16 W

Metres **ELEVATION:** LOCATION ACCURACY: Within 500M

Silver

COMMENTS: Mineralized showing, Map F-1 (Assessment Report 12777).

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Graphite Sphalerite Pyrite

MINERALIZATION AGE: Unknown

COMMODITIES: Zinc.

**DEPOSIT** 

CHARACTER: Disseminated Stratabound CLASSIFICATION: Hydrothermal

TYPE: G04 Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Paleozoic-Mesozoic GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Chert

Conglomerate Dacitic Tuff Rhyolite Tuff Dioritic Dike

HOSTROCK COMMENTS: Unit 3 - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Alexander PHYSIOGRAPHIC AREA: Milbanke Strandflat

GRADE: Greenschist METAMORPHIC TYPE: Regional RELATIONSHIP:

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1984 Assay/analysis

**GRADE** COMMODITY

Silver 0.8000 Grams per tonne

7inc 0.1900 Per cent

REFERENCE: Assessment Report 12777.

**CAPSULE GEOLOGY** 

"Conductor" Island is underlain by isoclinally folded and faulted package of Mesozoic to Paleozoic graphitic-pyrrhotitic cherts and chert pebble conglomerates, dacite tuffs, rhyolite flows and

diorite dykes.

A sample of a chert pebble conglomerate, with a pyrrhotite rich matrix with minor sphalerite, assayed 0.19 per cent zinc and 0.8

grams per tonne silver (Assessment Report 12777).

**BIBLIOGRAPHY** 

EMPR ASS RPT 12197, \*12777, 16036

EMPR EXPL 1983-504; 1984-378; 1987-C362

EMPR OF 1999-2

GSC MAP 12-1966; 1385A; 1472A

GSC MEM 394 GSC P 66-33

DATE CODED: 1986/09/04 DATE REVISED: 1988/12/23 CODED BY: LDJ REVISED BY: JNR FIELD CHECK: N

MINFILE NUMBER: 103J 046

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 047

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

875

NAME(S): MELVILLE ZINC, KATHLEEN 4

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103J07E BC MAP:

NORTHING: 6028403 EASTING: 389511 LATITUDE: 54 23 29 N

LONGITUDE: 130 42 06 W ELEVATION: 1 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Showing, Map E-1 (Assessment Report 12777), Melville Island.

COMMODITIES: Zinc. Silver Lead Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Graphite Sphalerite Pyrrhotite Galena Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant Disseminated CLASSIFICATION: Hydrothermal Replacement **Epigenetic** 

TYPE: G04 E SHAPE: Irregular Besshi massive sulphide Cu-Zn

MODIFIER: Sheared

DIMENSION: COMMENTS: Shear zone. STRIKE/DIP: 060/90 TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Paleozoic-Mesozoic Unnamed/Unknown Formation

LITHOLOGY: Graphitic Pyrrhotite Chert Pyroxene Porphyry

Rhyolite Crystal Tuff Dacitic Crystal Tuff Volcanic Flow

**Undefined Group** 

HOSTROCK COMMENTS: Unit 3 - Geological Survey of Canada Map 1472A.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Milbanke Strandflat

TERRANE: Alexander

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1984 Assay/analysis

**GRADE** COMMODITY

Silver 1.7000 0.0170 Grams per tonne Copper Per cent Zinc 0.1500 Per cent

REFERENCE: Assessment Report 12777.

CAPSULE GEOLOGY

The area is underlain by Upper Paleozoic to Jurassic cherts and rhyolite/dacite crystal tuffs and flows, with minor pyroxene porphyry. A block of graphitic chert, with minor sphalerite and galena mineralization in thin (10 centimetres) shears, is bounded by a 060 degree fault and a northwest trending fault. Pyrite, pyrrhotite and

chalcopyrite are also present.

To the north, 150 metres, graphitic pyrrhotitic cherts occur containing sphalerite. A grab sample assayed 0.15 per cent zinc, 1.7 grams per tonne silver and 0.017 per cent copper (Assessment Report 12777).

A sample of siliceous nodules in cherty sediments, 400 metres to the northwest, assayed 0.22 per cent zinc and 0.6 grams per tonne silver (Assessment Report 12777).

**BIBLIOGRAPHY** 

EMPR ASS RPT 12197, \*12777, 16036, 22765 EMPR EXPL 1983-504; 1984-378; 1987-C362

MINFILE NUMBER: 103J 047 RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1999-2 GSC MAP 12-1966; 1385A; 1472A GSC MEM 394 GSC P 66-33

DATE CODED: 1986/09/04 DATE REVISED: 1989/01/20 CODED BY: LDJ REVISED BY: LLD

MINFILE NUMBER: 103J 047

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FIELD CHECK: N

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 048

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 5987782 EASTING: 395832

REPORT: RGEN0100

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NAME(S): ALDER, PORCHER ISLAND

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103J02E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 54 01 40 N LONGITUDE: 130 35 25 W ELEVATION: 40 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Located about 350 metres to the west of Edye Pass Mine (103J 015),

Porcher Island.

COMMODITIES: Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

COMMENTS: Mineralization based on reported similarity to Surf Pt. Mine

(103J 017). ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 102 Intrusion-related Au pyrrhotite veins

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Cretaceous-Tertiary **FORMATION** IGNEOUS/METAMORPHIC/OTHER GROUP Coast Plutonic Complex

LITHOLOGY: Quartz Diorite

Meta Sediment/Sedimentary

Meta Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Milbanke Strandflat

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1988 SAMPLE TYPE: Drill Core

COMMODITY

Gold 19.0600 Grams per tonne

COMMENTS: From a 1.2 metre drill interval.

REFERENCE: George Cross Newsletter #92, May 12, 1988.

**CAPSULE GEOLOGY** 

The centre of the Alder Zone is located about 350 metres west of the Edye Pass Mine (103J 015). The area is underlain by a Cretaceous to Tertiary quartz diorite stock of the Coast Plutonic Complex that has intruded Paleozoic to Mesozoic metasediments and meta-volcanics. The zone trends for about 300 metres in a northeast

direction.

Few details of the zone are reported except that mineralization is similar to that of the AT Zone (Surf Point Mine, 103J 017). At least 3 holes have been drilled on the Alder Zone with the best

intersection grading 19.06 grams per tonne gold over 1.2 metres (George Cross Newsletter #92, May 12, 1988).

AT Zone mineralization is presumed to be the same as the general description for the Surf Point Mine: ie. the deposit consists of short and irregularly distributed lenses of auriferous pyrite and chalcopyrite in quartz veins, largely within quartz diorite.

**BIBLIOGRAPHY** 

EMPR AR 1930-71 EMPR ASS RPT 16735, 17076, 25073

GSC MAP 12-1966; 1472A

GSC MEM 394 GSC P 66-33

GSC SUM RPT 1922A, pp. 27-29

MINFILE NUMBER: 103J 048

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GCNL \*#51,\*#92, 1988

DATE CODED: 1989/03/02 DATE REVISED: / /

CODED BY: GJP REVISED BY:

FIELD CHECK: N FIELD CHECK:

PAGE:

REPORT: RGEN0100

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MINFILE NUMBER: 103J 048

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103K 001 NATIONAL MINERAL INVENTORY: 103K2 Mn1

NAME(S): SHAG ROCK, KLASHWUN POINT, SHAG

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands MINING DIVISION: Skeena

NTS MAP: 103K02E UTM ZONE: 08 (NAD 83)

BC MAP:

LATITUDE: 54 08 54 N NORTHING: 6002374 EASTING: 652940

LONGITUDE: 132 39 36 W ELEVATION: 5 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location is the centre of showing, Figure 5, Sheet 2 (Bulletin 54).

Located on the east side of Klashwun Point near Shag Rock on the

northern tip of Graham Island.

COMMODITIES: Manganese

**MINERALS** 

SIGNIFICANT: Manganite Pyrolusite Hausmannite Jacobsite

COMMENTS: Trace hausmannite and jacobsite. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Replacement Massive Breccia

Industrial Min. Epigenetic

TYPE: H06 Epithermal Mn

SHAPE: Regular MODIFIER: Faulted

STRIKE/DIP: 015/80E DIMENSION: 168 x 4 Metres TREND/PLUNGE:

COMMENTS: Occurrence can be traced for 168 metres, widths vary from 1.5 to 4.5

metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Tertiary Undefined Group Masset

LITHOLOGY: Amygdaloidal Basalt Basalt Flow

Porphyritic Andesite Calcareous Shale Calcareous Sandstone

HOSTROCK COMMENTS: Masset Formation ranges from Oligocene to Pliocene in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

TERRANE: Wrangell

INVENTORY

ORE ZONE: SHAG ROCK REPORT ON: Y

> Unclassified YEAR: 1965 CATEGORY:

QUANTITY: 13607 Tonnes

**COMMODITY GRADE** Per cent Manganese 15,0000

COMMENTS: Visual estimate of tonnage and grade.

REFERENCE: Source unknown.

CAPSULE GEOLOGY

The property is located at Klashwun Point, at the north end of Graham Island, Queen Charlotte Islands. The showings occur along the Two claims were located on the showing in 1955 by Joseph Pauloski. He shipped a 200 pound sample to the Mines Branch, Ottawa in 1961; the sample assayed 23.4 per cent manganese.

In 1965 the property consisted of 17 recorded claims held under the name Naden Harbour Manganese Ltd. During May 1965 Falconbridge Nickel Mines Limited took out bulk samples of the order of 150 to 200 tons of fresh material and drilled 77 metres in two packsack diamond-drill holes. The positions of the holes did not provide conclusive results. One hole may have penetrated the fault zone; the other hole intersected it at a narrow locality, although the breccia lens adjacent on the surface is large. A visual estimate of tonnage and grade is 15,000 tons at 15 per cent manganese.

The property was held in 1980 as the Shag 1-2 claims (35 units)

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER I
RUN TIME: 12:06:33 GEOLOGICAL SURVEY

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

by Glen White, of Richmond. Work included a geochemical soil survey comprising 220 samples.

The area is underlain by Tertiary volcanics of the Masset Formation consisting of amygdaloidal basalts, basalt flows and porphyritic andesite sills which strike north to northeast and dip 15 to 20 degrees east. A fault, striking 015 degrees and dipping 80 degrees east, crosscuts the lavas. East of the fault, the lavas are underlain by 23 metres of dark-grey shale and buff-coloured, calcareous shale to sandstone, which resembles the Queen Charlotte Group. Cretaceous Skidegate Formation

Group, Cretaceous Skidegate Formation.

The fault is filled with 1.5 to 4.5 metres of volcanic breccia, cemented by manganese minerals comprised mainly of manganite, pyrolusite, housmannite and jacobsite. Veinlets of manganite also extend into the volcanic rocks in the footwall. The showing is exposed along shore for about 168 metres. The manganese values assay up to 50 per cent and average 15 per cent manganese. At the northern end of the exposure a higher-grade lens measuring 15 by 2.4 by 1.5 metres contains between 30 to 40 per cent manganese (Minister of Mines Annual Report 1960, page 11).

#### **BIBLIOGRAPHY**

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EMPR ASS RPT \*8064
EMPR BULL \*54, pp. 218-219
EMPR EXPL \*1980-539
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EMPR PF (Holmes, T. (1962): Letter and sketch map to A. sutherland-Brown, 6 p.)
EMR MIN BULL MR 223 B.C. 294
GSC MAP 1385A
GSC P 88-1E, pp. 221-227, 269-274; 89-1H, pp. 73-79; 90-10, pp. 305-324
CANMET IR 61-47
Falconbridge File

DATE CODED: 1986/06/02 CODED BY: LDJ FIELD CHECK: N
DATE REVISED: 1989/01/23 REVISED BY: LLD FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103K 002

NAME(S): **SKONUM POINT** 

STATUS: Prospect REGIONS: British Columbia, Queen Charlotte Islands

NTS MAP: 103K01E BC MAP:

LATITUDE: 54 01 53 N LONGITUDE: 132 03 36 W ELEVATION: 5 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Type locality at Skonum Point east of Masset.

COMMODITIES: Coal

**MINERALS** 

SIGNIFICANT: Coal MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Fossil Fuel Sedimentary

TYPE: A02 Lignite

SHAPE: Irregular MODIFIER: Folded Faulted

DIMENSION: 6 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Aggregate thickness of beds. See Capsule Geology field for structural

comments.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Tertiary **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Undefined Group Skonun

LITHOLOGY: Lignite Coal

Sandstone Siltstone Shale Conglomerate Marl

**GEOLOGICAL SETTING** 

TECTONIC BELT: Insular

TERRANE: Overlap Assemblage METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Lignite

INVENTORY

ORE ZONE: SKONUN POINT REPORT ON: Y

> CATEGORY: Inferred YEAR: 1946 QUANTITY: 61000000 Tonnes

COMMODITY Coal Per cent

COMMENTS: Grade for average volatile matter.

REFERENCE: Royal Commission on Coal, Ottawa, 1946.

CAPSULE GEOLOGY

Skonun Point is located on the northeast coast of Graham Island 6.4 kilometres east of Masset.

In 1910, The Queen Charlotte Islands Collieries, Limited, was

incorporated for the purpose of acquiring, developing and working 15,540 hectares of coal measures situated near Masset Inlet.

In 1913, the American-Canadian Coal Company, Limited, drilled an inclined bore-hole to a depth of 305 metres. Analysis from an air dried sample from the thickest seam gave these results: water, 11.03 per cent; volatile matter, 49.75 per cent; fixed carbon, 35.94 per cent; ash, 3.28 per cent; coke, 39.22 per cent; and a fuel ratio of 0.72. Reserves were estimated in 1913 at 60,000,000 long tons.

A preliminary estimate of probable mineable reserves by Mackay for the Royal Commission on coal, in 1946, was 67,200,000 tons. In 1958 detailed drilling was done by Richfield Oil Corporation

of Canada Ltd. Shell Canada Limited investigated the property in the mid 1960's.

PAGE:

NATIONAL MINERAL INVENTORY: 103K/1 Col 1

MINING DIVISION: Skeena

PHYSIOGRAPHIC AREA: Queen Charlotte Lowland

UTM ZONE: 08 (NAD 83)

NORTHING: 5990833

EASTING: 692659

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

#### CAPSULE GEOLOGY

Lignite of Tertiary Age occurs in the Skonun Formation in the northeast portion of Graham Island. The Skonum Formation is comprised mainly of sandstone, shale and siltstone, with less conglomerate, lignite and marl. The lignite outcrops at various locations with the type locality being at Skonun Point. The coal has also been encountered in drillholes in various parts of the region.

Nine beds of lignite are exposed at Skonun Point interbedded with sandstone and silty shale. The thickest bed is 0.9 metres thick and the aggregate thickness is approximately 6.1 metres. Thirteen beds were intersected in a nearby drillhole. One of the seams is 1 metres thick but the aggregate thickness for this drillhole has not One of the seams is 1.8 been recorded. The lignite at Skonun Point contains 11.03 per cent to 22.5 per cent water, 37.5 per cent to 49.75 per cent volatile matter, 31.5 per cent to 36.5 per cent fixed carbon, 1.0 per cent to 3.5 per cent ash, and 0.3 per cent sulphur (ultimate analysis). The carbonaceous deposits vary from a tough fibrous or woody lignite to black shiny coal with concoidal fracture.

The lignites at Skonun Point occur within an east-west trending anticline which plunges west. The north limb dips approximately 20 degrees north and dips on the south limb vary from 50 degrees south near the fold axis to 25 degrees south further south. The anticline is faulted along the axis.

The Tertiary Basin in northeastern Graham Island is separated into two subbasins by an east-west ridge just south of Masset. Lignite has been encountered at Skonun Point, Yakan Point, Tow Hill and Masset in the northern subbasin and at Nadu, Cape Ball, Gold Creek, Tlell and Lawnhill in the southern subbasin. No thick coal beds are reported in the southern basin while in the north the aggregate thickness of thin seams may be considerable.

### **BIBLIOGRAPHY**

EMPR AR 1902-55 EMPR BULL \*54, pp. 118-127 EMPR COAL ASS RPT \*93 EMR MP CORPFILE (The Queen Charlotte Island Collieries, Limited) GSC MAP 176A; 922; \*1420; 1385A GSC MEM \*69; \*88, pp 18,156-158 GSC P 88-1E, pp. 221-227, 255-258; 89-1H, pp. 87-94; 90-10, pp. 337-371, 381-451 GSC PROG RPT 1878-1879, p. 86-B GSC SUM RPT 1912, pp. 16,38-39 Report on the Royal Commission on Coal, pp. 51,641, Ottawa, 1946

DATE CODED: 1986/05/21 DATE REVISED: 1989/01/23 CODED BY: EVK REVISED BY: LLD FIELD CHECK: N FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 001

NATIONAL MINERAL INVENTORY:

NAME(S): **HOWARD** 

STATUS: Showing REGIONS: British Columbia, Alaska

MINING DIVISION: Alaska, USA

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

883

NTS MAP: 103O16E BC MAP:

NORTHING: 6205690

LATITUDE: 55 59 31 N LONGITUDE: 130 03 36 W ELEVATION: 192 Metres

EASTING: 433878

LOCATION ACCURACY: Within 1 KM

COMMENTS: Open cuts, 7.6 kilometres north-northwest of Stewart on the east side of Salmon River and the road, 0.75 kilometres north of the summit

of Mountain View (United States Geological Survey Bulletin 807).

COMMODITIES: Lead Zinc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Barite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

Pyrite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: l05 Polym Epigenetic

Polymetallic veins Ag-Pb-Zn±Au Vein barite

I10 Ve STRIKE/DIP: 330/40E DIMENSION: TREND/PLUNGE:

COMMENTS: Shear zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION Texas Creek Plutonic Suite

Lower Jurassic

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Plutonic Rocks Stikine

CAPSULE GEOLOGY

The area is underlain by the Lower Jurassic Texas Creek Plutonic Suite consisting of granodiorite. At the Howard showing, a quartz vein and stringers occur in a shear zone striking 330 degrees and dipping 40 degrees northeast. The veins are exposed for 46 metres by several open cuts and stripping. A few of the quartz stringers locally contain barite. One quartz body is 3 metres long, 30 centimetres wide and is moderately mineralized with galena, pyrite

and sphalerite.

**BIBLIOGRAPHY** 

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-165; 1984, pp. 316-342; 1985, pp. 217-219; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1987-22 GSC MAP 1385A GSC MEM 175

USGS BULL \*807, p. 76

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/07 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 002

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

884

NAME(S): **SIXMILE** 

STATUS: Showing REGIONS: British Columbia, Alaska

MINING DIVISION: Alaska, USA

NTS MAP: 103O16E BC MAP:

UTM ZONE: 09 (NAD 83)

LATITUDE: LONGITUDE: 130 03 43 W ELEVATION: 79 Metres

55 59 18 N NORTHING: 6205290 EASTING: 433750

LOCATION ACCURACY: Within 1 KM

COMMENTS: Open cut in the bed of a gulch, 7 kilometres north-northwest of Stewart on the east side of Salmon River and the road, at the base of

Mountain View (United States Geological Survey Bulletin 807).

COMMODITIES: Gold Silver I ead 7inc Copper

**MINERALS** 

SIGNIFICANT: Gold Galena Chalcopyrite Sphalerite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown Pyrite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Epigenetic

Intrusion-related Au pyrrhotite veins ON TREND/PLUNGE: Polymetallic veins Ag-Pb-Zn±Au 102

STRIKE/DIP: 310/70N DIMENSION:

COMMENTS: Vein

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION Texas Creek Plutonic Suite

Lower Jurassic

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Plutonic Rocks Stikine

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YEAR: 1929 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

COMMODITY **GRADE** 

287.9500 23.3100 Silver Grams per tonne Gold Grams per tonne

8.7000 Per cent I ead COMMENTS: Sample of quartz vein.

REFERENCE: United States Geological Survey Bulletin 807.

**CAPSULE GEOLOGY** 

The property is underlain by the Lower Jurassic Texas Creek Plutonic Suite consisting of granodiorite. Narrow quartz stringers and veins are hosted in shear zones up to 1.5 metres wide. Visible free gold occurs within the borders of the quartz stringers and in the granodiorite wallrock. Some of the stringers carry galena with flakes of gold within the galena. Minor pyrite is disseminated in the granodiorite and where quartz veins occur the shattered wallrock is impregnated with pyrite and galena along fractures.

At the Sixmile showing, two adits were driven in 1925 along shear zones. The southern adit, 10 metres long, is along a quartz vein striking 310 degrees and dipping 70 degrees northeast. The vis a fraction of a centimetre wide at the portal and widens to 15 centimetres in the adit. A shattered zone at the face of the adit contains quartz stringers mineralized with galena, pyrite,

chalcopyrite and free gold.

A second adit 4.5 metres to the north of the first and 10 metres long, follows a shear zone 1.5 metres wide containing narrow quartz stringers. The main quartz vein, 2.5 to 20 centimetres wide, is mineralized with galena, pyrite, chalcopyrite and sparse sphalerite.

An open cut in a bed of a gulch exposes a shear zone 38 to 50

centimetres wide with quartz stringers mineralized with pyrite and galena. The vein strikes 318 degrees and dips steeply northeast.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

heavy pyritic quartz stringer assayed 2.05 grams per tonne gold and 20.56 grams per tonne silver; where galena occurs an assay returned 23.31 grams per tonne gold, 287.95 grams per tonne silver and 8.7 per cent lead (United States Geological Survey Bulletin 807).

**BIBLIOGRAPHY** 

EMPR BULL 58; 63 EMPR FIELDWORK 1983, pp. 149-165; 1984, pp. 316-342; 1985, pp. 217-219; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1987-22 GSC MAP 1385A GSC MEM 175

USGS BULL \*807, pp. 76,77

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/08 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 1030 002

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 003

NATIONAL MINERAL INVENTORY:

Copper

NAME(S): **LAST SHOT** 

STATUS: Showing REGIONS: British Columbia, Alaska

NTS MAP: 103O16E BC MAP:

LATITUDE: 130 03 25 W LONGITUDE:

ELEVATION: 396 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Crosscut adit, 7.8 kilometres north-northwest of Stewart, east of Salmon River, 1.25 kilometres north of the summit of Mountain View

(United States Geological Survey Bulletin 807).

COMMODITIES: Silver Tungsten Lead

**MINERALS** 

SIGNIFICANT: Galena

Freibergite

Pyrite Scheelite

Chalcopyrite

Sphalerite

Zinc

Tetrahedrite

ASSOCIATED: Quartz Pyrite Pyrrhotite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym

**Epigenetic** Polymetallic veins Ag-Pb-Zn±Au DIMENSION:

STRIKE/DIP:

112 W veins 300/45N

TREND/PLUNGE:

PAGE:

MINING DIVISION: Alaska, USA

NORTHING: 6206305

EASTING: 434078

UTM ZONE: 09 (NAD 83)

Gold

REPORT: RGEN0100

886

COMMENTS: Vein

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP Lower Jurassic

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Texas Creek Plutonic Suite

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

Gold

Copper

Stikine

PHYSIOGRAPHIC AREA: Boundary Ranges

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY: Assay/analysis

SAMPLE TYPE: Channel

COMMODITY Silver

387.3600 2.7400 4.8500 6.2000

**GRADE** 

Grams per tonne Grams per tonne Per cent

Per cent

YEAR: 1951

Lead COMMENTS: Sample across 66 centimetre wide sulphide vein. REFERENCE: United States Geological Survey Bulletin 1024-F.

CAPSULE GEOLOGY

The area is underlain by the Lower Jurassic Texas Creek Plutonic Suite consisting of granodiorite cut by a northwest striking mylonite shear zone known as the Lindeborg shear zone. Two quartz veins are exposed and strike northwest at the Last Shot showing. One vein has been traced by surface exposures, pits and open cuts for 182 metres and a vertical distance of 22 metres. The vein strikes 300 degrees and dips 45 degrees northeast. At its southeast end it is a couple of centimetres wide and contains disseminated sulphides; continuing along strike for 10 metres the vein widens to 45 centimetres and contains inclusions of country rock and 4 metres further is 3.6 metres wide in the face of a bluff. A shoot of almost solid sulphide 20 to 45 centimetres wide is exposed for a length of 9 metres in the footwall. The sulphides consist of galena, pyrite, sphalerite, pyrrhotite and chalcopyrite. Microscopic examination indicates that tetrahedrite and freibergite are also present

A crosscut adit 7.6 metres long had been driven just below the surface outcrop of the vein. At the face of the adit the quartz vein passes downward into a series of stringer veins with the mineralized sulphide shoot persisting. A channel sample across 66 centimetres of

MINFILE NUMBER: 103O 003

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT
RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

sulphide assayed 387.36 grams per tonne silver, 6.2 per cent lead, 4.85 per cent copper and 2.74 grams per tonne gold (United States Geological Survey Bulletin 1024-F). Scattered grains of scheelite occur through 0.9 metres of the hangingwall adjacent to the sulphide vein. For 1.5 metres beneath the vein at the portal, many narrow reticulating quartz veins enclose pyritic and locally schistose granodiorite fragments. To the northwest of the adit two small pits expose a 91 centimetre quartz vein with sparse disseminated sulphides. A large quartz vein 3 to 4.5 metres wide, striking 350 degrees and dipping steeply west is exposed 30 metres below the adit. A small pocket of mineralized quartz is evident in the footwall.

### **BIBLIOGRAPHY**

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-165; 1984, pp. 316-342; 1985, pp. 217-219; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1987-22; 1991-17

GSC MAP 1385A

GSC MEM 175

USGS BULL \*807, pp. 75,76; \*1024-F, p. 136

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/12/08 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 1030 003

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 004

NATIONAL MINERAL INVENTORY:

NAME(S): BISHOP

STATUS: Showing REGIONS: British Columbia, Alaska

MINING DIVISION: Alaska, USA

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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NTS MAP: 103O16E BC MAP:

NORTHING: 6205622

LATITUDE: 55 59 29 N

EASTING: 434275

LONGITUDE: 130 03 13 W ELEVATION: 426 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Open cuts, 7.5 kilometres north-northwest of Stewart, west of Skookum

Creek on the east facing slope 1 kilometre north of the summit of Mountain View (United States Geological Survey Bulletin 807).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L01 Subvo **Epigenetic** 

Subvolcanic Cu-Ag-Au (As-Sb)

DIMENSION: STRIKE/DIP: 315/50N TREND/PLUNGE:

COMMENTS: Vein

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION Texas Creek Plutonic Suite

Lower Jurassic

LITHOLOGY: Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Plutonic Rocks Stikine

CAPSULE GEOLOGY

The area is underlain by the Lower Jurassic Texas Creek Plutonic Suite consisting of granodiorite. At the Bishop showing, a strong quartz vein striking 315 degrees and dipping 50 degrees northeast has been traced for 182 metres by open cuts and surface exposures. It is exposed over a vertical distance of 30 metres. On average, vein widths vary between 38 to 68 centimetres but is 2.1 metres wide on the slope to Skookum Creek. Mineralization is sparse and consists of pyrrhotite and pyrite with minor chalcopyrite.

**BIBLIOGRAPHY** 

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-165; 1984, pp. 316-342; 1985, pp. 217-219; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1987-22 GSC MAP 1385A GSC MEM 175

USGS BULL \*807, p. 67

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/08 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 103O 004

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 005

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6205606 EASTING: 435315

REPORT: RGEN0100

889

NAME(S): **FISH CREEK**, OLYMPIA, NEVADA, STARBOARD

STATUS: Prospect MINING DIVISION: Alaska, USA

REGIONS: British Columbia, Alaska NTS MAP: 103O16E

BC MAP:

LATITUDE: 55 59 29 N LONGITUDE: 130 02 13 W

ELEVATION: 579 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Adits, on the ridge between Skookum and Fish creeks, 1 kilometre

north-northeast from the summit of Mountain View, 7 kilometres northnorthwest of Stewart (United States Geological Survey Bulletin 807).

COMMODITIES: Gold Silver Lead 7inc Copper

Tungsten

**MINERALS** 

SIGNIFICANT: Galena Pyrrhotite Pyrite Tetrahedrite Sphalerite

Chalcopyrite Freibergite Scheelite

ASSOCIATED: Quartz Arsenopyrite MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Massive

CLASSIFICATION: Hydrothermal nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

**I**12 W veins DIMENSION: STRIKE/DIP: 310/45N TREND/PLUNGE:

COMMENTS: Veins

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

Lower Jurassic Texas Creek Plutonic Suite

LITHOLOGY: Granodiorite

Greenstone Greywacke Argillite

Quartz Diorite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Plutonic Rocks Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: STOCKPILE

> CATEGORY: Assay/analy SAMPLE TYPE: Bulk Sample Assay/analysis YEAR: 1916

**COMMODITY GRADE** 

Silver 9999.9999 Grams per tonne Gold 12.6800 Grams per tonne Copper 7.6800 Per cent 32.2000 Per cent Lead

COMMENTS: Sorted ore (18 tonnes) from veins on the Olympia claim; silver

actually assayed 10,832.48 grams per tonne.

REFERENCE: United States Geological Survey Bulletin 807.

**CAPSULE GEOLOGY** 

The area is underlain by Lower Jurassic Texas Creek Plutonic Suite granodiorite in contact with north trending Lower Jurassic Hazelton Group greenstone, tuff, tuffaceous greywacke and argillite. Quartz veins occur predominantly in the granodiorite but in part cross the contact and are evident to a minor extent in Hazelton Group rocks. Two types of mineralization occur; the first are predominant quartz veins with galena, sphalerite, pyrite, tetrahedrite, chalcopyrite, microscopic freibergite and sparse scheelite; the second are lenticular bodies of pyrrhotite with minor amounts of chalcopyrite, pyrite and arsenopyrite. Scheelite occurs as scattered crystals in the quartz veins and locally are 2.5 centimetres across.

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

There are approximately four parallel quartz veins lying just at the contact between granodiorite and Hazelton Group rocks but almost wholly within the granodiorite. The veins occur within a distance of 609 metres of each other. The veins strike from 310 to 320 degrees and dip between 45 to 70 degrees northeast. Vein widths vary from 0.48 to 1.21 metres and locally break up into a number of narrow quartz stringers which sometime extend into the wallrock. The veins carry local shoots of sulphides 7 to 30 centimetres wide and are lean for considerable lengths. A local fault striking 030 degrees with a vertical dip locally cuts off a vein at the contact of granodiorite and Hazelton Group rocks. A quartz vein up to 38 centimetres wide strikes 290 degrees and dips 45 degrees north in greenstone which is cut by a quartz diorite dyke. Numerous quartz stringer veins occur in the footwall and are up to 60 centimetres wide. Mineralization consists of galena with minor chalcopyrite, sphalerite and tetrahedrite.

Seven adits and drifts have developed the quartz veins. Eighteen tonnes of sorted ore taken from veins on the Olympia claim assayed 12.68 grams per tonne gold, 10,832.48 grams per tonne silver, 32.2 per cent lead and 7.68 per cent copper (United States Geological Survey Bulletin 807).

#### **BIBLIOGRAPHY**

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-165; 1984, pp. 316-342; 1985, pp. 217-219; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1987-22; 1991-17

GSC MAP 1385A

GSC MEM 175

USGS BULL \*807, p. 68-71; \*1024-F, p. 138

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/12/08 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 006 NATIONAL MINERAL INVENTORY: 103P13 Au6

NAME(S): GLORY EXTENSION 2, CARDOZO, WOOD 5

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103O16E 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 49 38 N LONGITUDE: 130 00 09 W ELEVATION: 853 Metres NORTHING: 6187305 EASTING: 437199

LOCATION ACCURACY: Within 500M

COMMENTS: Located 24.5 kilometres south of Stewart near the headwaters of the

Georgie River (Minister of Mines Annual Report 1927).

COMMODITIES: Zinc Lead

MINERALS
SIGNIFICANT: Pyrite Sphalerite Galena

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DIMENSION: STRIKE/DIP: 008/30E TREND/PLUNGE:

COMMENTS: Silicified zone

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Bulldog Creek Pluton** 

ISOTOPIC AGE: 181 +/- 8 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Hornblende

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Isotopic age data from GSC Open File 2996.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Plutonic Rocks

CAPSULE GEOLOGY

The Glory Extension 2 showing consists of a 1.1 metre wide silicified zone in granodiorite of the Jurassic Bulldog Creek pluton. The zone strikes 008 degrees and dips 30 to 35 degrees east and contains numerous quartz stringers and abundant pyrite with traces of sphalerite and galena. See also Gloria (103P 011) and Glory Extension (103P 184).

**BIBLIOGRAPHY** 

EMPR AR 1927-81 EMPR ASS RPT 10300 EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-165; 1984, pp. 316-342; 1985, pp.

217-219; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2; 1987-22

GSC MAP 1385A GSC MEM 175, p. 93

GSC OF 2996

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1999/06/17 FIELD CHECK: N

MINFILE NUMBER: 103O 006

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

PAGE: 892 REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 007

NATIONAL MINERAL INVENTORY:

EASTING: 434500

NAME(S): MOUNTAIN VIEW, FISH CREEK NO. 2 VEIN

STATUS: Past Producer REGIONS: British Columbia, Alaska Underground MINING DIVISION: Alaska, USA

NTS MAP: 103O16E BC MAP: UTM ZONE: 09 (NAD 83) NORTHING: 6205588

LATITUDE: 55 59 28 N LONGITUDE: 130 03 00 W ELEVATION: 304 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Fish Creek No. 2 vein in main tunnel on the ridge between Fish and Skookum creeks, 500 metres north-northeast of Mountain View, 6.8

kilometres north-northwest of Stewart (United States Geological Survey

Bulletin 1024-F).

COMMODITIES: Silver Gold Tungsten Copper I ead

Zinc Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Scheelite Chalcopyrite Galena

Pyrrhotite Tetrahedrite Sphalerite Freibergite Molybdenite COMMENTS: Rare molybdenite in dykes.

ASSOCIATED: Quartz Pyrit COMMENTS: Trace arsenopyrite. Pyrite **Barite** Arsenopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au 112

W veins SHAPE: Tabular

DIMENSION: STRIKE/DIP: 315/50N TREND/PLUNGE: COMMENTS: Fish Creek No. 2 vein

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation Lower Jurassic

Texas Creek Plutonic Suite Eocene Hyder Pluton

LITHOLOGY: Granodiorite

Tuffaceous Greywacke Greywacke

Argillite

Granodiorite Porphyry Dike Lamprophyre Dike

Aplite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Plutonic Rocks Stikine METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/ar SAMPLE TYPE: Channel Assay/analysis YEAR: 1944

**GRADE** 

COMMODITY Silver 219.3900 Grams per tonne Gold 3.4200 Grams per tonne Tungsten 1.2300 Per cent

COMMENTS: Average of 43 channel samples across a 42 centimetre quartz vein

along a 39 metre length.

REFERENCE: United States Geological Survey Bulletin 1024-F.

CAPSULE GEOLOGY

The area is underlain by Lower Jurassic Texas Creek Plutonic Suite granodiorite in contact with Lower Jurassic Hazelton Group argillite, tuffaceous greywacke and greywacke. Quartz veins occur in a shear zone up to 30 metres wide in the granodiorite within a hundred metres west of the contact with the Hazelton Group. Some veins occur in hornfelsed Hazelton Group greywacke and tuffaceous

RUN DATE: 26-Jun-2003 MINFILE MASTER
RUN TIME: 12:06:33 GEOLOGICAL SURVEY

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

greywacke at the contact with granodiorite. Granodiorite porphyry dykes correlative to the Eocene Hyder Pluton and lamprophyre dykes crosscut some quartz veins. Locally, a mineralized quartz vein cuts a white aplite dyke. Underground work at the Mountain View mine is on three principal veins of which the Fish Creek No. 2 vein received the most development. Several other quartz veins and stringers are found on the property.

The quartz veins strike from 280 to 007 degrees and dip between 40 to 70 degrees northeast. The veins branch and split locally up to 3 metres apart in the footwall and hangingwall. Fragments of granodiorite and schistose Hazelton Group wallrock occur in some veins. Vein widths vary from 7 centimetres to 2.43 metres and contain disseminated sulphides and seams and pockets up to 60 centimetres wide. Mineralization consists of pyrite, pyrrhotite, scheelite, chalcopyrite, galena, sphalerite, tetrahedrite, freibergite and local trace arsenopyrite and free gold. Gangue mineralogy is mainly quartz with minor interbanded barite. Rare molybdenite flakes occur in a granodiorite porphyry dyke and aplite dyke. The Fish Creek No. 2 vein is the only vein that contains scheelite.

A weighted average WO3 content of 43 channel samples taken underground from scheelite-bearing portions of the Fish Creek No. 2 vein assayed 1.23 per cent across an average vein width of 42 centimetres and along a strike length of 39 metres. This ore also averaged 3.42 grams per tonne gold and 219.39 grams per tonne silver (United States Geological Survey Bulletin 1024-F).

Past production statistics are not available.

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EMPR FIELDWORK 1983, pp. 149-165; 1984, pp. 316-342; 1985, pp. 217-219; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1987-22; 1991-17

GSC MAP 1385A

GSC MEM 175

USGS BULL \*807, pp. 63-67; \*1024-F, pp. 137,138

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 008

NATIONAL MINERAL INVENTORY:

NAME(S): LUCKY BOY EXTENSION

STATUS: Showing REGIONS: British Columbia, Alaska

NTS MAP: 103O16E BC MAP:

LATITUDE: 55 59 02 N LONGITUDE: 130 02 52 W ELEVATION: 198 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Adit, just east of the junction of Skookum and Fish creeks on the bank of a small creek southeast of Fish Creek, 500 metres east-

southeast of the summit of Mountain View, 6 kilometres north-northwest

of Stewart (United States Geological Survey Bulletin 807).

COMMODITIES: Lead

Zinc

Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galer COMMENTS: Trace chalcopyrite. Galena Sphalerite Chalcopyrite

Arsenopyrite

ASSOCIATED: Quartz Arse COMMENTS: Trace arsenopyrite. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DIMENSION: STRIKE/DIP: 300/40N TREND/PLUNGE:

COMMENTS: Vein

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> Lower Jurassic Hazelton **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

MINING DIVISION: Alaska, USA

NORTHING: 6204782 EASTING: 434627

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

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LITHOLOGY: Greywacke Tuffaceous Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Plutonic Rocks

Stikine

PHYSIOGRAPHIC AREA: Boundary Ranges

**CAPSULE GEOLOGY** 

The area is underlain by Lower Jurassic Hazelton Group thinly bedded greywacke and tuffaceous greywacke. The Lucky Boy Extension showing consists of an adit driven to intersect quartz stringer veins hosted in a shear zone up to 0.91 metres wide. The stringer veins have an aggregate width of 15 to 40 centimetres and are locally mineralized with pyrite, galena, sphalerite and trace amounts of pyrrhotite and chalcopyrite. The vein strikes 300 degrees and dips 40 to 55 degrees north.

**BIBLIOGRAPHY** 

EMPR BULL 58; 63 EMPR FIELDWORK 1983, pp. 149-165; 1984, pp. 316-342; 1985, pp.

217-219; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1987-22 GSC MAP 1385A

GSC MEM 175 USGS BULL \*807, p. 67

CODED BY: GSB REVISED BY: GO DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1989/12/11 FIELD CHECK: N

MINFILE NUMBER: 103O 008

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 103O 009

NATIONAL MINERAL INVENTORY: 103P5 Cu3

NAME(S): FRIDAY, MAPLE BAY

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 103O08E 103P05W

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

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BC MAP: LATITUDE: 55 26 03 N

NORTHING: 6143576 EASTING: 435759

LONGITUDE: 130 00 55 W ELEVATION: 0009 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of surface trace of vein, 980 metres north of Maple Bay on the east shore of Portland Canal, about 55 kilometres south of Stewart and 12.5 kilometres due west of Anyox (Assessment Report 5550).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz ASSOCIATED: Pyrrhotite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I07 Silica Epigenetic Industrial Min.

Silica veins DIMENSION:

STRIKE/DIP: 170/90 TREND/PLUNGE:

COMMENTS: Friday vein

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Siltstone

Sandstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Stikine

PHYSIOGRAPHIC AREA: Boundary Ranges Wrangell

METAMORPHIC TYPE: Regional

GRADE: Greenschist

## CAPSULE GEOLOGY

The area is underlain by the western margin of a 14.4 by 9.6 kilometre roof pendant within the Tertiary Coast Plutonic Complex. The rocks within the pendant are commonly correlated with the Lower Jurassic Hazelton Group but have also been correlated with the Upper Triassic Kunga Group.

RELATIONSHIP:

The roof pendant in this area comprises a sequence of mafic and intermediate (andesitic-dacitic) volcanics interbedded with felsic tuffs, siltstones, silty argillites and fine-grained sandstones. sequence strikes 010 to 035 degrees and dips 40 to 85 degrees southeast. The mafic volcanics have been variably foliated and chloritized to greenstone and chlorite-hornblende schist as a result

of regional greenschist metamorphism.

At the Friday showing, a coarse-grained milky white quartz vein is hosted in interbedded dark grey siltstone and fine-grained sandstone of the Hazelton Group. Siltstone inclusions occur along the western margin of the vein. The Friday vein, 4 to 5 metres in width, strikes 170 degrees for up to 180 metres and dips near vertical. The quartz is considered to be of high purity.

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EMPR ASS RPT 5550

EMPR BULL 63

EMPR FIELDWORK 1990, pp. 235-243

EMPR GEM 1970-77-81

EMPR MAP 8

EMPR OF \*1987-15, pp. 36,37

EMPR PF (\*Pell, J. (1982): Report)

GSC MAP 1385A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/12/11 REVISED BY: GO FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 010

NATIONAL MINERAL INVENTORY: 103O16 Ag1

NAME(S): **EMMA GORDON**, GOLD WEDGE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103O16E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 55 52 09 N LONGITUDE: 130 01 28 W ELEVATION: 25 Metres

NORTHING: 6191993 EASTING: 435893

LOCATION ACCURACY: Within 500M

COMMENTS: Adit, on the eastern shoreline of Portland Canal, just south of the mouth of Marmot River, 7.5 kilometres south of Stewart (Geological

Survey of Canada Memoir 175).

COMMODITIES: Silver Zinc Gold Copper Lead

**MINERALS** 

SIGNIFICANT: Galena Chalcopyrite Sphalerite Pyrite

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP Eocene

Hyder Pluton

LITHOLOGY: Granite

Diorite Dike Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Boundary Ranges

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1914

SAMPLE TYPE: Bulk Sample GRADE

COMMODITY Silver 2276.1900 Grams per tonne Gold 2.7400 Grams per tonne 0.5600 Per cent

Copper COMMENTS: Trial shipment to Trail smelter.

REFERENCE: Minister of Mines Annual Report 1914, page K154.

CAPSULE GEOLOGY

The area is underlain by Tertiary Coast Plutonic Complex granite of the Eocene Hyder Pluton locally cut by a diorite dyke. The Emma Gordon showing consists of highly fractured and faulted granite with some silicification in the wallrock adjacent to major fractures. A diorite dyke cuts the granite and along its contacts hosts small stringers of sphalerite, pyrite, chalcopyrite and galena. A small trial shipment to the Trail smelter in 1914 assayed 2276.19 grams per tonne silver, 0.56 per cent copper and 2.74 grams per tonne

gold (Minister of Mines Annual Report 1914).

**BIBLIOGRAPHY** 

EMPR AR \*1914-K154,K160,K161

EMPR ASS RPT 16905

EMPR FIELDWORK 1990, pp. 235-243

EMPR MAP 8

GSC MAP 1385A GSC MEM \*175, p. 113

GSC OF 2996

MINFILE NUMBER: 103O 010

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

CANMET IR 643

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1999/06/17 REVISED BY: LDJ FIELD CHECK: N

MINFILE NUMBER: 1030 010

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 011 NATIONAL MINERAL INVENTORY: 103O16 Cu1

NAME(S): **BIG MIKE** 

STATUS: Prospect REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103O16E BC MAP:

LATITUDE: 55 50 49 N

LONGITUDE: 130 02 46 W ELEVATION: 50 Metres ELEVATION: 50

LOCATION ACCURACY: Within 500M

COMMENTS: Main adit, just above the high tide mark along the east shore of Portland Canal, south of Bulldog Creek, 10.5 kilometres south of Stewart (Assessment Report 15580).

COMMODITIES: Gold Zinc Copper Lead Silver

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Chalcopyrite Galena Gold

ASSOCIATED: Quartz ALTERATION: Silica **Epidote** 

ALTERATION TYPE: Silicific'n **Propylitic** 

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au STRIKE/DIP: 073/53N DIMENSION: TREND/PLUNGE:

COMMENTS: Quartz vein 30 metres upslope from vein in Main adit.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Lower Jurassic GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Jurassic **Bulldog Creek Pluton** 

ISOTOPIC AGE: 181 +/- 8 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Hornblende

LITHOLOGY: Granodiorite Diorite

Andesite Siltstone Slate Hornblendite

HOSTROCK COMMENTS: Isotopic age from GSC Open File 2996.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Boundary Ranges

**GRADE** 

TERRANE: Plutonic Rocks Stikine

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1986

SAMPLE TYPE: Chip **COMMODITY** 

5.4800 Grams per tonne Gold 6.8200 Grams per tonne

COMMENTS: Sample from Main adit. REFERENCE: Assessment Report 15580.

**CAPSULE GEOLOGY** 

The area is mainly underlain by diorite, minor quartz diorite and granodiorite of the Jurassic Bulldog Creek Pluton. These rocks have intruded and contain local remnants of Lower Jurassic Hazelton Group andesite, siltstone and slate. Silicification of Hazelton Group rocks has occurred at most places along the contact with the Coast Plutonic Complex. Locally, occasional andesite and rare qua Locally, occasional andesite and rare quartz monzonite dykes intrude diorite and granodiorite dykes intrude Hazelton Group andesite.

At the Big Mike occurrence, short discontinuous quartz veins are emplaced along east to southeast striking, moderate to steeply north dipping faults or shears in granodiorite. The veins have sharp

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UTM ZONE: 09 (NAD 83)

NORTHING: 6189540

EASTING: 434500

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

contacts with wallrock but local silicification is evident. Epidote veinlets and patchy epidotization occasionally occur in the quartz veins and within Hazelton Group andesite and the intrusive rocks. Mineralization in the quartz veins consists of variable amounts of pyrite, chalcopyrite, galena and sphalerite with associated gold and silver values.

Two historic adits, the Main adit and South adit, are developed on a quartz vein and silicified fault, respectively. The Main adit is along an east trending fault or shear dipping 44 to 72 degrees north. The main quartz vein ranges from 26 to 34 centimetres wide and locally splits into subparallel, discontinuous quartz veinlets 1 millimetre wide. Some of the veinlets are randomly oriented and do not parallel the main vein. The main quartz vein locally contains lenticular inclusions of schistose granodiorite wallrock. Chip samples from the quartz vein in the Main adit assayed up to 6.82 grams per tonne gold and 5.48 grams per tonne silver (Prospectus, 1987). The South adit, 260 metres southwest of the Main adit, is developed in a highly silicified shear zone striking 166 degrees and dipping 67 degrees east. Two unmineralized quartz veinlets up to 3 millimetres wide and 25 centimetres long were encountered.

Up to 1400 metres south of the South adit, Hazelton Group andesite is locally highly fractured and silicified. Alteration mineralogy consists of quartz, epidote, carbonate, chlorite and limonite occurring as veinlets, pods and patches. Pyrite and pyrrhotite fill fractures and are locally disseminated.

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EMPR ASS RPT \*15580

EMPR EXPL 1987-C362,C363

EMPR FIELDWORK 1990, pp. 235-243

EMPR MAP 8

EMPR PR (\*Prospectus, Alexa Ventures Inc., July 5, 1987)

GSC MAP 1385A

GSC MEM \*175, p. 88

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1999/06/17 REVISED BY: LDJ FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 012

NATIONAL MINERAL INVENTORY: 103O16 Cu2

NAME(S): **B.C. VERDE**, BC VERDE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103O16E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

900

LATITUDE: 55 49 48 N LONGITUDE: 130 01 38 W ELEVATION: 1005 Metres NORTHING: 6187637 EASTING: 435655

LOCATION ACCURACY: Within 500M

COMMENTS: Open cuts on a crest of a ridge, just west of a small lake at the headwaters of Georgie River, 12.5 kilometres south of Stewart

(Assessment Report 15580).

Gold 7inc COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Sphalerite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal

L01 TYPF: 102 Intrusion-related Au pyrrhotite veins Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

Tertiary Coast Plutonic Complex

LITHOLOGY: Andesite

Quartz Diorite Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional Plutonic Rocks **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: TRENCH REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1986

SAMPLE TYPE: Chip **GRADE** 

COMMODITY Silver 69.1000 Grams per tonne Copper 1.0700 Per cent Zinc 0.2500 Per cent

COMMENTS: Sample across 1.5 metres in a trench.

REFERENCE: Assessment Report 15580.

**CAPSULE GEOLOGY** 

The area is underlain by diorite, minor quartz diorite and granodiorite of the Tertiary Coast Plutonic Complex. These rocks have intruded and contain local remnants of Lower Jurassic Hazelton Group volcanic and sedimentary rocks.

The B.C. Verde showing is within silicified Hazelton Group andesite near the contact with Coast Plutonic Complex diorite and quartz diorite. Several open cuts and trenches expose siliceous lenses 0.91 to 3 metres wide hosting disseminated pyrite, pyrrhotite, chalcopyrite and sphalerite(?) with associated silver and minor gold values. A rock chip sample across 1.5 metres in a trench assayed 1.07 per cent copper, 69.1 grams per tonne silver, 0.25 per cent zinc and 0.22 grams per tonne gold (Assessment Report 15580). A 15 centimetre wide pyritic quartz vein also occurs on the property striking 155 degrees and dipping 52 degrees southwest.

**BIBLIOGRAPHY** 

EMPR AR \*1921-G60; \*1927-C81

EMPR ASS RPT \*15580

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR EXPL 1987-C362,C363 EMPR FIELDWORK 1990, pp. 235-243 EMPR MAP 8 GSC MAP 1385A GSC MEM 175, p. 88 GSC OF 2996

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/11 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 1030 012

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 013

NATIONAL MINERAL INVENTORY: 103O16 Au1

PAGE:

NORTHING: 6183514

EASTING: 434252

REPORT: RGEN0100

902

NAME(S): GEORGIA RIVER, GEORGIA NO. 1 (L.4438), GEORGIA NO. 2 (L.4439), GUGGENHEIM, MAIN, GEM,

CAMP, CC, POND,

SOUTHWEST, BULLION, SUMMIT, COBBETT, EASTMARK, ZINC,

GRANODIORITE

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103O16E UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 47 34 N LONGITUDE: 130 02 55 W

ELEVATION: 1091 Metres LOCATION ACCURACY: Within 500M

COMMENTS: No. 1 adit portal, east of Portland Canal in the Colling Range, west of Georgie River along Bullion Creek, a tributary to the Georgie River, 13 kilometres south of Stewart (Assessment Report 8547).

COMMODITIES: Gold Silver Lead Zinc Copper

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Galena Sphalerite Chalcopyrite

Gold Arsenopyrite

ASSOCIATED: Quartz Arseno COMMENTS: Minor arsenopyrite. Mariposite **Fuchsite** COMMENTS: Mariposite and/or fuchsite is observed within chlorite schist

wallrock.

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Eocene
ISOTOPIC AGE: 50.7 +/- .1 Ma Sericitic

DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 101 Au-quartz veins 102 Intrusion-related Au pyrrhotite veins

G07 SHAPE: Tabular Subaqueous hot spring Ag-Au

MODIFIER: Fractured Faulted

DIMENSION: 900 x 360 x Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Southwest vein. Hornblende feldspar porphyritic granodiorite

overprinted by mineralization.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

Jurassic Jurassic **Bulldog Creek Pluton** 

ISOTOPIC AGE: 187.2 + 3.5/-0.9Ma DATING METHOD: Uranium/Lead

MATERIAL DATED: Hornblende-Kspar porphyry

Hvder Pluton Eocene

ISOTOPIC AGE: 186.3 +/- .3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Zircon

LITHOLOGY: Chlorite Schist

Epiclastic Basaltic Flow Andesitic Flow Granodiorite Dike

Hornblende Porphyritic Granodiorite

Siltstone Argillite Andesite Basalt

HOSTROCK COMMENTS: Isotopic ages Exploration in BC 1995, page 92. Fieldwork 2001, p. 135

-149.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

MINFILE NUMBER: 1030 012

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

ORE ZONE: SOUTHWEST

REPORT ON: Y

CATEGORY: Combined QUANTITY: 276377 Tonnes

YEAR: 1989

QUANTITY: 276377 Tonne COMMODITY

GRADE

27.6300 Grams per tonne 20.9100 Grams per tonne

COMMENTS: All categories. See Capsule Geology for details. REFERENCE: Exploration in BC 1995, Table 6, page 103.

#### CAPSULE GEOLOGY

Regionally the area lies adjacent to and includes moderately folded volcanic and sedimentary rocks of the Lower-Middle Jurassic Hazelton Group intruded by a succession of plutons of the Tertiary-Jurassic Coast Plutonic Complex. Hazelton Group rocks include a variety of sandstones, conglomerates and breccias as well as minor intercalated tuffs, siltstones and flow material. Granodiorite is the dominant rock of the Coast Plutonic Complex but stocks and plutons vary from quartz monzonite, quartz diorite to granite. Numerous dyke swarms range in composition from granite, quartz monzonite, granodiorite and quartz diorite.

The Georgia River property lies on the eastern contact of the Coast Plutonic Complex intruding Hazelton Group rocks. The area of the mine workings is underlain by an assemblage of epiclastic rocks with intercalated andesitic and basaltic flows. Thin bedded dark grey siltstones and black argillite with minor limestone and greywacke are also present. The epiclastic rocks consist of angular and unsorted andesitic fragments within a fine-grained sandstone or tuff matrix. The andesitic flows are generally green, massive and plagioclase porphyritic while basaltic flows are dark and massive. These Hazelton Group rocks have been subjected to strong shearing and are generally altered to a chloritic foliated rock in which original textures have been obscured. The Hazelton Group has been intruded by granodiorite dykes and/or sills correlative to the Coast Plutonic Complex and are generally less than 100 metres in width and follow regional trends.

Weak foliation and minor folds are evident in the Hazelton Group rocks. Local schist development is located in areas of faulting in close proximity to intrusive rocks. Foliation approximates bedding and strikes 140 degrees with 50 to 70 degree dips to the southwest. Three distinct fault systems, northwest, north and northeast striking, occur on the property. The first faulting is northwest striking followed by north striking faults, both containing quartz vein material. The northwest striking veins are generally more massive than the north striking veins. Later northeast faulting cuts into and deflects along the north striking faults. A major late northwest striking fault appears to cut off all the structures north of the mine workings. Significant gold, silver, lead, zinc and minor copper mineralization in quartz veins appear to be restricted to the zones of later faulting. Marked gold enrichment appears to be associated with areas of vein intersection.

Quartz veins are found in two distinct systems: wide shear zones striking 320 degrees consisting of quartz vein material and siliceous breccia and, narrower quartz-filled fault fissures with a north strike. Mineralization is concentrated in the quartz-filled north striking fault fissures at points of vein intersections. Seven vein systems have been historically discovered and explored. The northwest striking veins are the Main, Georgia and Gem; the north striking veins are the Southwest, Summit, Bullion and Camp. Recent exploration resulted in four new north striking veins: the Eastmark, East Bob, East and Cobbett; and five northwest striking veins: the CC #1, CC #2, Gem A, Gem Top and Pond. Two other veins, the Zinc and Granodiorite strike northeast with shallow dips to the southeast.

Three stages of faulting and quartz infusion appear to be related to mineralization at the Georgia River property. The first stage of northwest faulting was followed by later north trending faults. Chlorite schists developed along these fault zones with quartz veins subsequently introduced into the zones. The quartz is sparsely mineralized with pyrite, pyrrhotite, galena and sphalerite with minor arsenopyrite. The second stage is the introduction of granodiorite dykes, formation of fractures, brecciation of early quartz veins and stringers, and deposition of sulphides. The sulphide deposition comprise initial sphalerite-pyrite-rich veins and stringers, low in quartz, and deposited in sericite-altered fracture zones near the granodiorite dykes. This event produces veins generally low in gold and silver values

generally low in gold and silver values.

Due to the brittle nature of rocks within areas of intersecting veins formed during the first stage, voids formed during brecciation related to the second stage. Marked gold enrichment is observed at these points of intersection. Brecciated quartz with low sulphide

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

content generally carries appreciable gold and silver values in contrast to unbrecciated quartz.

The main quartz phase deposition phase has produced quartz vein material containing seams of massive pyrite, pyrrhotite, sphalerite and galena with minor chalcopyrite and rare arsenopyrite. The quar The quartz rock is brecciated with fracture-filled sulphides. Gold and silver values are related to the sulphides. Pyrite and pyrrhotite form 50 per cent of the sulphides with sphalerite and galena the remaining. Mariposite and/or fuchsite are commonly noted within the chlorite schist wallrock.

The final stage is post-mineralizing fault movement along the vein system and deposition of quartz-calcite veins. This has produced narrow drusy quartz-filled fractures within intrusive rocks. Calcite is commonly found filling fractures in wallrock.

- A brief description of the veins is as follows:

  1) Main vein This vein consists of a large silicified shear zone striking 315 degrees and dipping 55 to 65 degrees southwest. is a siliceous replacement zone composed of layers of siliceous material separated by bands of chlorite schist with silicification gradually fading into the wallrock. This zone has been traced along the schief of the schief with silicification gradually fading into the wallrock. This zone has been traced along a strike length of 650 metres and exhibits an offset (6 metres) along the Southwest vein and along the Bullion vein (65 metres). Mineralization is sparse and consists of pyrite, pyrrhotite and minor arsenopyrite. Low gold values (0.1 grams per tonne) have been obtained from this vein (Assessment Report 8547).
- 2) Georgia vein This vein strikes parallel to the Main vein about 300 metres north, and is approximately 1 metre in width and is exposed over a strike length of 450 metres. It appears to pinch out to the northwest into a series of quartz veinlets. The vein locally contains siliceous volcanic inclusions with several parallel short and narrow stringers. Mineralization consists of pyrite, pyrrhotite and local concentrations of sphalerite and minor galena. Sampling returned 0.17 grams per tonne gold (Assessment Report 8547). The vein is offset approximately 27 metres along the Southwest vein. 3 Gem, Gem Top and Gem A veins - The Gem vein strikes parallel to the Georgia vein approximately 150 metres to the north and is exposed over a length of 400 metres and is from 1 to 3 metres wide. Mineralization is sparse with local concentrations of pyrite, pyrrhotite, minor sphalerite and rare galena. Two nearby veins, the Gem Top and Gem A, are up to 2 metres wide and sparsely mineralized. Where the Gem vein appears to veer off from a northwest strike to a north strike, pyrite and sphalerite concentrations are higher Trench samples over 2 metres assayed 8.22 grams per tonne gold (Assessment Report 8547).
- 4) Southwest vein This vein has received the bulk of the property exploration work to 1997, being tested by 81 diamond drill holes. This vein has been exposed by trenching and drilling on surface for 595 metres and a vertical range of 258 metres and has been extensively explored by drifting on two levels (prior to 1937). Past production was from this vein. The vein consists of short, discontinuous and overlapping mineralized quartz lenses along a continuous zone within green chlorite schists. The zone varies from 1 to 4 metres wide and shows evidence of repeated movement along fault zones. Near the intersection of the Georgia, CC #1 and CC #2 veins, the Southwest vein, which consists of 1 to 3 overlapping gold-bearing quartz lenses, contains a zone 80 metres long and 0.94 metres wide averaging 33.25 grams per tonne gold and 38.39 grams per tonne silver (Assessment Report 8547). The individual lenses appear to vary in length from 8 to 30 metres and may have up to 20 metres depth extension.
- 5) Bullion vein This vein is located along Bullion Creek and has been traced along strike for 609 metres. The vein is 0.1 to 0.35 metre wide and occurs along a fault zone. The fault zone contains up to 50 per cent green altered volcanic fragments generally up to 5 centimetres in size. Erratic gold values occur in discontinuous  $\frac{1}{2}$ quartz lenses. Post-quartz vein faulting has resulted in coarse barren quartz fragments in a matrix of green chloritic gouge. vein has been defined on two underground levels.
- 6) Summit vein This vein is located northwest of the Southwest vein and consists of parallel narrow quartz lenses from 0.07 to 0.33 metre wide within an 11-metre wide zone. High gold values were obtained from this vein.
- 7) Camp vein Not located. 8) CC #1 and CC #2 veins These veins are parallel to and a short distance south of the Georgia vein. The  $C\bar{C}$  #1 vein consists of quartz veins, stringers and boxworks and is sparsely mineralized. The CC #2 vein comprise stringers and lenses of massive pyrite, sphalerite and galena in a quartz gangue. Both veins are approximately 100 metres long and up to 1.5 metres wide. Low gold

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

values were obtained from both veins.

9) Pond vein - This vein consists of a wide zone similar to the Main vein and is comprised of zones of siliceous material separated by sericite-altered schists. The vein strikes 320 degrees and has been traced for 100 metres where it is cut off by a fault to the northwest and pinches into small quartz stringers to the southeast. Low gold values were obtained from a trench.

10) Cobbett vein - This vein parallels the Southwest vein and is comprised of a wide zone of quartz and calcite with sparse sulphides. Stringers of pyrite, galena and sphalerite striking into and along the Cobbett vein contain silver values. The vein occurs over a distance of 90 metres with widths up to 3 metres.

11) East and East Bob veins - East of the Bullion vein, a number of short discontinuous quartz lenses occur. The East vein consists of 3, possibly 4 short discontinuous veins, generally less than 20 metres in length, some of which carry gold values up to 102.84 grams per tonne. Individual lenses vary from 0.09 to 0.6 metre width. The East Bob vein is a quartz vein or stringer 10 metres long and 0.1 to 0.2 metre wide. Gold values over 34.28 grams per tonne were obtained (Assessment Report 8547).

12) Zinc and Granodiorite veins - These veins exhibit similarities in mineralogy and mode of occurrence but occur a distance from one another. Both are sphalerite-rich zones within sericite schist alteration zones generally near or contiguous to a granodiorite dyke. The Zinc vein is a zone 0.12 to 1.1 metres in width outlined over a length of 25 metres. The Granodiorite vein is width outlined over a length of 25 metres. The Granodiorite vein is a zone 250 metres in length and generally 0.25 to 0.4 metre in width. It parallels a granodiorite dyke and shows spotty gold values except in Bullion Creek where several samples returned 9.25 to 22.41 grams per tonne gold (Assessment Report 8547). Both veins have low lead values and pyrite may form up to 50 per cent of the sulphide component.

The Georgia River mine, staked in 1910, has been developed by various underground workings and 5 adits. In 1937, 454 tonnes were mined, producing 10,233 grams of gold, 12,752 grams of silver, and 3312 kilograms of lead.

The Bullion vein has unclassified reserves of 5619 tonnes grading 4.18 grams per tonne gold and 10.28 grams per tonne silver (Northwest Prospector Miners & Developers Bulletin, May/June 1989). Total combined (measured, indicated, inferred) reserves at Georgia River reported in 1989 were 290,272 tonnes grading 28.7 grams per tonne gold (George Cross News Letter May 11, 1989). Drill indicated reserves reported in 1995 were +272,130 tonnes grading 27.7 grams per tonne gold (George Cross News Letter No.118 (June 20), 1995). Reserves from Exploration in BC 1995, Table 6, page 103:

VEINS	YEAR	CATEGORY	TONNES	, ,	per tonne) Silver
Southwest Southwest SW Zone 1 SW Zone 2 Southwest Southwest Bullion	1981 1988 1989 1989 1989 1995 1988	Drill Inferred Drill Inferred Drill Inferred Drill Inferred Drill Inferred All Drill Inferred Drill Inferred	21 486 68 974 76 356 31 227 276 377 12 825 5 620	15.64 19.51 17.73 48.76 27.63 48.69 4.18	18.36 20.41 18.67 20.41 20.91

Aquaterre Mineral Development Ltd. drilled 19 holes, totalling 1838 metres in 1995 and 16 holes, totalling 1844 metres in 1996.

The mineralization is associated with Eocene north trending dikes, and not the early Jurassic east west dikes.

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EMPR AR 1911-K72; 1912-K105; 1914-K153,K154; 1915-K71,map; 1916-K85; 1917-F66,F84; 1918-K75,K76; 1920-N53; 1922-N65,N66; 1923-A67,A68; 1924-B58,B366; 1925-A79,A167; 1928-C90,C91; 1929-C91,C92,C434; 1930-A101; 1931-A41; 1932-A57; 1933-A51, A52, A303; 1935-G48; 1936-B4-B10; 1937-A35,B42; 1938-B26 EMPR ASS RPT \*8547, 19049, 19983, 20653, 24100, 24704 EMPR BC METAL MM00736 EMPR BULL 1 (1932), p. 39 EMPR EXPL 1980-402; 1995-30, \*100-106, 111-115 EMPR FIELDWORK 1990, pp. 235-243; 2001, pp. 135-149 EMPR INDEX 3-196 EMPR MAP 8; 65 (1989) EMPR OF 1992-1 EMPR PF (\*Coats, J.F. (1932): Report on the Property of Georgia River Gold Mines Ltd.; Plan and geology maps of underground workings, 1933; see 1030 011 - Prospectus, Alexa Ventures Inc. July 5, 1987;

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMR MP CORPFILE (Georgia River Mining Company, Limited; American
Mining & Milling Company, Limited; Georgia River Gold Mines,
Limited; British American Holding & Development Company; Helena Gold Mines, Limited; Gold Leasers, Limited; Extenuate Gold Mines, Limited; Cannon Resources Ltd.) GSC MAP 1385A GSC MEM 175, p. 92 GSC MEM 175, p. 52

GSC OF 2996

GCNL #118(June 20), 1995; #91, 1989; #180,#221, 1988; #241, 1981;

#216,#245,#226, 1980; #182,#243, 1979; #? (May 11), 1989; #118

(June 20), 1995

N MINER Dec.24, 1981 NW PROSP October/November 1988; May/June 1989 WWW http://www.infomine.com/index/properties/SUMMIT\_LAKE\_MINE.html Filing Statement, Sept. 19, 1989, Avatar Resource Corporation

DATE CODED: 1985/07/24 DATE REVISED: 1999/06/17 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 014

NATIONAL MINERAL INVENTORY: 10309 Cu1

PAGE:

NORTHING: 6178941 EASTING: 432073

REPORT: RGEN0100

907

NAME(S): <u>JO</u>, M.J., LUXOR, MONTROSE, JJ

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103O16E 103O 103O16E 103O09E UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: LONGITUDE: 130 04 56 W ELEVATION: 884 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Trenches along Copper Creek, west of Georgie River in the Colling

Range, 3.25 kilometres east of Helen Bay on Portland Canal, 17 kilometres south of Stewart (Assessment Report 12630).

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite **Bornite** ASSOCIATED: Quartz Magnetite

ALTERATION: Chlorite
ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown Silica **Epidote** Carbonate Sericite

DEPOSIT

CHARACTER: Stockwork Vein

CLASSIFICATION: Hydrothermal **Epigenetic** L01 TYPE: G04 Besshi massive sulphide Cu-Zn Subvolcanic Cu-Ag-Au (As-Sb)

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

Hyder Pluton Tertiary

LITHOLOGY: Andesitic Tuff

Andesitic Flow Granodiorite Dike Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Stikine PHYSIOGRAPHIC AREA: Boundary Ranges

Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1983 Assay/analysis

CATEGORY: Assay SAMPLE TYPE: Grab **GRADE** COMMODITY

Silver 48.6700 Grams per tonne Gold 1.9100 Grams per tonne Copper 22,6000 Per cent

COMMENTS: Sample of massive sulphides. REFERENCE: Assessment Report 12630.

**CAPSULE GEOLOGY** 

Regionally the area lies adjacent to and includes moderately folded volcanic and sedimentary rocks of the Lower Jurassic Hazelton Group intruded by a succession of plutons (Hyder) of the Tertiary Coast Plutonic Complex. Hazelton Group rocks include a variety of sandstones, conglomerates and breccias as well as minor intercalated tuffs, siltstones and flow material. Granodiorite is the dominant rock of the Coast Plutonic Complex but stocks and plutons vary from rock of the Coast Plutonic Complex but stocks and plutons vary from quartz monzonite, quartz diorite to granite. Numerous dyke swarms range in composition from granite, quartz monzonite, granodiorite and quartz diorite.

The Jo showing is underlain by north trending Hazelton Group andesitic tuffs and flows intruded by granodiorite dykes and possibly sills. The rocks have been locally subjected to strong shearing movements and are generally altered to a chloritic foliated rock. Two sets of lineaments strike 340 and 010 degrees with steep dips east and west.

MINFILE NUMBER: 1030 014

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

Mineralization consists of pyrite, pyrrhotite, chalcopyrite, magnetite and minor bornite within shear zones, sometimes silicified, near granodiorite dykes. Chlorite and epidote alteration extends up to 2 metres into the wallrock. Carbonate and sericite are also evident. Quartz veining occurs in some zones with associated sulphide mineralization.

A northwest trending schistose shear zone 1.21 metres wide is exposed over a strike length of 28 metres. Grab samples of the sulphide-rich zone assayed up to 1.91 grams per tonne gold, 48.67 grams per tonne silver and 22.6 per cent copper (Assessment Report 12630).

### **BIBLIOGRAPHY**

EMPR AR 1926-A86; 1931-A41; 1932-A57; 1962-9 EMPR ASS RPT \*489, 522, \*4820, \*12630, 20697 EMPR EXPL 1983-505,506 EMPR FIELDWORK 1990, pp. 235-243 EMPR GEM 1973-488 EMPR MAP 8 EMR MP CORPFILE (Inland Copper Ltd.)
GSC MAP 1385A
GSC MEM 175, p. 100 GSC OF 2996

CODED BY: GSB REVISED BY: GO FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1989/12/11

MINFILE NUMBER: 1030 014

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 015

NATIONAL MINERAL INVENTORY: 10309 Au1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6179086 EASTING: 434726

REPORT: RGEN0100

909

NAME(S): PEDRO GEORGIA, PEDRO, IM, BONUS

STATUS: Prospect Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103016E 103009E

BC MAP:

LATITUDE: 55 45 11 N LONGITUDE: 130 02 24 W

ELEVATION: 355 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit, at the confluence of Koris Creek and Georgie River, east of

Portland Canal, 17 kilometres south of Stewart (Assessment Report

13350).

Gold COMMODITIES: Silver I ead 7inc Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Pyrrhotite Galena Sphalerite Arsenopyrite

ALTERATION: Chlorite
ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DIMENSION: STRIKE/DIP: 137/65N TREND/PLUNGE:

COMMENTS: Vein

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE <u>GRO</u>UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

Eocene Hyder Pluton

LITHOLOGY: Epiclastic Rock

Andesitic Flow Andesitic Lapilli Tuff Granodiorite Granodiorite Dike Andesite

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Boundary Ranges Plutonic Rocks

TECTONIC BELT: Coast Crystalline
TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1988 Assay/analysis

SAMPLE TYPE: Grab **GRADE** 

COMMODITY Silver 188.8<del>8</del>00 Grams per tonne Gold 1.0900 Grams per tonne

COMMENTS: Sample of quartz vein in lower workings. REFERENCE: Assessment Report 17705.

**CAPSULE GEOLOGY** 

Regionally the area lies adjacent to and includes moderately folded volcanic and sedimentary rocks of the Lower Jurassic Hazelton Group intruded by a succession of plutons of the Tertiary Coast Plutonic Complex. Hazelton Group rocks include a variety of sandstones, conglomerates and breccias as well as minor intercalated tuffs, siltstones and flow material. Granodiorite is the dominant rock of the Coast Plutonic Complex but stocks and plutons vary from quartz monzonite, quartz diorite to granite. Numerous dyke swarms range in composition from granite, quartz monzonite, granodiorite and quartz diorite.

The Pedro Georgia property is underlain by an assemblage of sheared epiclastic rocks (lapilli tuffs) and andesitic flows of the Hazelton Group intruded by massive granodiorite and related dykes of

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

the Hyder Pluton. The epiclastic rocks consist of angular and unsorted and esitic fragments within either a fine-grained sandstone  ${\cal C}$ or tuff matrix. The rocks have been locally subjected to strong shearing movements (150 degree trend with west dips) and are generally altered to a chloritic foliated rock. Calcite and epidote stringers are common. Several fault zones are evident, the most prominent, striking 340 degrees and dipping 35 degrees south, is located along Koris Creek. This pyritic fault zone is up to 6 metres wide and consists of weakly silicified volcanic rock with fragments of altered granodiorite. Sulphide-bearing quartz veins are associated with northwest trending shears or fracture zones within Hazelton Group rocks near granodiorite intrusive rocks. The shear zones are generally occupied by sericitic to chloritic schists.

An adit follows a narrow sulphide-bearing quartz vein striking 137 degrees and dipping 65 degrees north to vertical at the confluence of Koris Creek and Georgie River. This vein represents part of the Pedro Georgia workings and varies from 1 to 40 centimetres wide. Mineralization consists of variably coarsely crystalline galena, coarse sphalerite, pyrite, minor chalcopyrite and Chlorite and calcite occurs along the shear zone. arsenopyrite. Grab samples of this vein assayed up to 0.20 grams per tonne and

300.97 grams per tonne silver (Assessment Report 13350). Several adits have been developed on nearby mineralized quartz veins, some of which range to 3 metres in width. Recent exploration has rediscovered an upper and lower adit developed on a narrow shear zone containing short discontinuous quartz lenses 1 to 2 metres long and 0.5 metres wide. Sparse chalcopyrite, pyrrhotite and pyrite are evident. Grab samples of mineralized quartz vein material assayed up to 1.09 grams per tonne gold and 188.88 grams per tonne silver (Assessment Report 17705).

#### **BIBLIOGRAPHY**

EMPR AR \*1928-C90; 1931-A41; \*1933-A52,A53; 1962-9 EMPR ASS RPT \*13350, 13860, 15107, 16405, 17644, \*17705, 18933, EMPR EXPL 1984-380; 1985-C376; 1986-C430 EMPR FIELDWORK 1990, pp. 235-243 EMPR MAP 8 EMR MP CORPFILE (Extenuate Gold Mines, Limited) GSC MAP 1385A GSC MEM 175, p. 102 GSC OF 2996

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/11 CODED BY: GSB REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 016 NATIONAL MINERAL INVENTORY: 10309 Ag1

NAME(S): BLACK KNIGHT, BLUE POINT, VG

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103O09E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 43 03 N NORTHING: 6175162 LONGITUDE: 130 04 29 W EASTING: 432485

ELEVATION: 152 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Open cuts-prospect shafts-adit, 2.5 kilometres from the shore of

Portland Canal on a tributary of the East Georgie River, 25 kilometres

south of Stewart (Assessment Report 15107).

COMMODITIES: Lead Zinc Silver Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Chlorite ALTERATION TYPE: Chloritic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym **Epigenetic** 

Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

Lower Jurassic Tertiary Coast Plutonic Complex

LITHOLOGY: Epiclastic Rock

Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Plutonic Rocks METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1906 Assay/analysis

> CATEGORY: SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 562.1900 Grams per tonne 43.0000 Per cent I ead

Per cent Zinc 28.0000

COMMENTS: Sample of massive galena and sphalerite. REFERENCE: Minister of Mines Annual Report 1906, page H67.

CAPSULE GEOLOGY

Regionally the area lies adjacent to and includes moderately folded volcanic and sedimentary rocks of the Lower Jurassic Hazelton Group intruded by a succession of plutons of the Tertiary Coast Plutonic Complex. Hazelton Group rocks include a variety of sandstones, conglomerates and breccias as well as minor intercalated tuffs, siltstones and flow material. Granodiorite is the dominant rock of the Coast Plutonic Complex but stocks and plutons vary from quartz monzonite, quartz diorite to granite. Numerous dyke swarms range in composition from granite, quartz monzonite, granodiorite and

quartz diorite.

The Black Knight property is underlain by an assemblage of epiclastic rocks of the Hazelton Group intruded by massive granodiorite and related dykes of the Coast Plutonic Complex. The epiclastic rocks have been locally subjected to strong shearing movements and are generally altered to a chloritic foliated rock.

Mineralization appears to be related to a shear zone where a quartz vein 1.32 metres wide has been developed by limited historic underground work and open cuts. The quartz vein is mineralized with galena, sphalerite, pyrite and chalcopyrite. A grab sample of nearly

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

solid galena and sphalerite with little gangue assayed 43 per cent lead, 28 per cent zinc and 562.19 grams per tonne silver (Minister of Mines Annual Report 1906).

**BIBLIOGRAPHY** 

EM EXPL 2001-1-9

EMPR AR 1906-H67; \*1910-K61; 1916-K520 EMPR ASS RPT 13350, \*15107, 20697 EMPR EXPL 1986-C430; 1984-380 EMPR FIELDWORK 1990, pp. 235-243

EMPR MAP 8 GSC MAP 1385A GSC OF 2996

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/11 CODED BY: GSB REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1030 016

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 017

NATIONAL MINERAL INVENTORY: 10308 Lst1

PAGE:

REPORT: RGEN0100

913

NAME(S): **SWAMP POINT**, LAST LAUGH

STATUS: Past Producer REGIONS: British Columbia Open Pit MINING DIVISION: Skeena

NTS MAP: 103O08E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 28 15 N NORTHING: 6147675 LONGITUDE: 130 02 09 W ELEVATION: 0002 Metres EASTING: 434519

LOCATION ACCURACY: Within 500M

COMMENTS: Open pit, located at Swamp Point on the east shore of Portland Canal about 50 kilometres south of Stewart (CANMET Report 811, page 175).

COMMODITIES: Limestone

**MINERALS** 

SIGNIFICANT: Carbonate ASSOCIATED: Pyrite Actinolite Mica

MINERALIZATION AGE: Lower Jurassic ISOTOPIC AGE: DATING METHOD: Fossil MATERIAL DATED: Microfossils (forams)

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Sedimentary Massive Industrial Min.

TYPE: R09 Limestone

SHAPE: Tabular MODIFIER: Folded

STRIKE/DIP: 360/ DIMENSION: TREND/PLUNGE:

COMMENTS: Limestone bed; steep east dips. Age date from Grove, T. 1989 (Pers.

Comm.).

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Limestone

Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Stikine PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Wrangell METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: OUTCROP REPORT ON: N

> YEAR: 1944 CATEGORY: Assav/analysis

SAMPLE TYPE: Channel

COMMODITY **GRADE** Per cent Limestone 97.7700

COMMENTS: Taken across limestone free of impurities; grade given for CaCO3. REFERENCE: CANMET Report 811, page 175, Sample A.

CAPSULE GEOLOGY

The area is underlain by the western margin of a 14.4 by 9.6 kilometre roof pendant within the Tertiary Coast Plutonic Complex. The rocks within the pendant are commonly correlated with the Lower Jurassic Hazelton Group but have also been correlated with the Upper Triassic Kunga Group. Foraminifera from this limestone unit have indicated a Lower Jurassic age (Grove, T. (1989), Personal

Communication).

The roof pendant in this area comprises a sequence of mafic and intermediate (andesitic-dacitic) volcanics interbedded with felsic tuffs, siltstones, silty argillites and fine-grained sandstones. sequence strikes 010 to 035 degrees and dips 40 to 85 degrees southeast. The mafic volcanics have been variably foliated and chloritized to greenstone and chlorite-hornblende schist as a result

of regional greenschist metamorphism.

At Swamp Point a 60 metre thick bed of white to dark bluishgrey, medium to coarse-grained limestone strikes 360 degrees and dips steeply to the east. The bed is folded and cut by a few thin dykes. Silicious streaks containing pyrite, actinolite and mica are common throughout the limestone. A channel sample taken across limestone

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

free of the silicious bands contained 97.77 per cent CaCO3, 0.53 per cent MgCO3, 0.95 per cent SiO2, 0.19 per cent Al2O3 and 0.27 per cent Fe2O3. A second channel sample taken across limestone with the siliceous streaks contained 93.12 per cent SiO2, 0.94 per cent MgCO3, 4.06 per cent SiO2, 0.54 per cent Al2O3 and 0.92 per cent Fe2O3 (CANMET Report 811).

Limestone was produced between 1916 and 1922 from two quarries and used for flux at the Anyox copper smelter.

### **BIBLIOGRAPHY**

EMPR AR 1913-88; 1916-85,253; 1917-56,66; 1918-30,55,75,394; 1919-62; 1920-46,53,259; 1921-60,271; 1922-66,275 EMPR BULL 63 EMPR MAP 8 EMPR FIELDWORK 1990, pp. 235-243 GSC MAP 1385A
GSC MEM 175, p. 103
CANMET RPT \*811, p. 175
Sharp, R.J. (1980): The Geology, Geochemistry & Sulphur Isotopes of

the Anyox Massive Sulphide Deposits, University of Alberta M.Sc. Thesis

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 DATE REVISED: 1989/12/11 FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 1030 017

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 1030 018

NATIONAL MINERAL INVENTORY: 103P5,103O8 Cu2

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6144434 EASTING: 436263

REPORT: RGEN0100

915

NAME(S): OUTSIDER, OUTSIDER-STAR MAPLE BAY, COPPER KING, BROWN-ALASKA

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103O08E 103P05W

BC MAP:

LATITUDE: 55 26 31 N LONGITUDE: 130 00 27 W ELEVATION: 0326 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit portal, north of Maple Bay on the east shore of Portland Canal approximately 55 kilometres south of Stewart and 12.5 kilometres due

west of Anyox (Assessment Report 5550).

COMMODITIES: Copper Silica Silver Gold 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Pyrrhotite Pyrite Sphalerite

ALTERATION: Silica

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant

Industrial Min. CLASSIFICATION: Hydrothermal Epigenetic

TYPE: GO4 L01 Subvolcanic Cu-Ag-Au (As-Sb) Besshi massive sulphide Cu-Zn DIMENSION: 900 STRIKE/DIP: 010/45E x 3 Metres TRENĎ/PLUNGE:

COMMENTS: Outsider vein

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Greenstone

Chlorite Hornblende Schist

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Stikine

Wrangell

RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: OUTSIDER REPORT ON: Y

> CATEGORY: Unclassified YFAR: 1983

> QUANTITY: 181440 Tonnes

**GRADE** COMMODITY Per cent 1.5000

Copper REFERENCE: CIM Special Volume 37, page 183.

CAPSULE GEOLOGY

The area lies at the western margin of a 14.4 by 9.6 kilometre roof pendant within the Tertiary-Jurassic Coast Plutonic Complex. The rocks within the pendant are commonly correlated with the Lower-Middle Jurassic Hazelton Group but have also been correlated with the Upper Triassic-Lower Jurassic Kunga Group.

The roof pendant in this area comprises a sequence of mafic and intermediate (andesitic-dacitic) volcanics interbedded with felsic tuffs, siltstones, silty argillites and fine-grained sandstones. The sequence strikes 010 to 035 degrees and dips 40 to 85 degrees southeast. The mafic volcanics have been variably foliated and chloritized to greenstone and chlorite-hornblende schist as a result of regional greenschist metamorphism.

The Outsider-Star quartz vein system consists of two veins, both striking at about 010 degrees. The most significant of the two is the Outsider vein but the Star vein is generally considered to be its southern extension. The Outsider vein dips 45 degrees east, has been traced for about 900 metres and varies from 0.6 to 6.1 metres in width, averaging 3.0 metres. The Star vein has been traced along

strike for 680 metres and varies from less than 0.5 metres to 1.8

MINFILE NUMBER: 1030 018

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

metres in width. The Outsider vein lies along the contact between greenstone (hanging wall) and silicified argillite (footwall) and is conformable to the bedding of the host rocks.

Mineralization in the Outsider vein consists of chalcopyrite and

Mineralization in the Outsider vein consists of chalcopyrite and pyrrhotite with minor pyrite and traces of sphalerite in a gangue of fine-grained grey to white quartz. Higher grade ore lies near the wall of the vein. The Star vein consists of fine-grained white quartz with pyrrhotite and lesser chalcopyrite. Locally, up to 50 per cent of the vein consists of sulphides.

Discovered in 1896 during the Gaillard Expedition, the Outsider vein was mined initially during 1906 and 1907 and shipped ore to the Brown-Alaska smelter in Alaska. Between 1924 and 1928, 112,966 tonnes of ore was produced for silica flux and copper smelting at Anyox. A total of 125,966 tonnes grading 1.9 per cent copper were produced from the Outsider vein between 1906 and 1928. In the last two years of production the ore averaged 0.139 grams per tonne gold and 10.29 grams per tonne silver. In 1917, the Star vein produced 4845 tonnes of quartz carrying minor copper, gold and silver values (Minister of Mines Annual Report 1917).

Unclassified reserves for the Outsider property are 181,440 tonnes grading 1.5 per cent copper (CIM Special Volume 37, page 183).

#### **BIBLIOGRAPHY**

EMPR AR 1904-100,101; 1905-80; 1906-62-64; 1907-74; 1910-61; 1916-85; 1917-66; 1918-73-75; 1919-62; 1921-58,59; 1922-65; 1923-65-67; 1924-50; 1925-79; 1926-85; 1927-294; 1931-40; 1955-18; 1956-18,19 EMPR ASS RPT \*5550 EMPR BC METAL MM00782 EMPR BULL 63 EMPR FIELDWORK 1990, pp. 235-243 EMPR GEM \*1970-77-81; 1971-121; 1972-502,503; 1974-325 EMPR INDEX 3-208 EMPR MAP 8; 65 (1989) EMPR MAP 8; 65 (1989) EMPR OF 1987-15, p. 36; 1992-1; 1992-9 EMPR PF (Sargent, H. (1942): Report) EMPR MIN BULL MR 223 B.C. 301 EMR MP CORPFILE (Granby Mining Co. Ltd.; Maple Bay Copper Mines Ltd.) GSC MAP 1385A GSC MEM 32, p. 94; 175, pp. 100,101 GSC SUM RPT 1922 Part A, pp. 23-25

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1991/06/21 REVISED BY: DJA FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 1030 019

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6143783 EASTING: 436359

PAGE:

REPORT: RGEN0100

917

NAME(S): STAR

STATUS: Past Producer
REGIONS: British Columbia
NTS MAP: 103008E
BC MAP:
LATITUDE: 55 26 10 N
LONGITUDE: 130 00 21 W
ELEVATION: 0094 Metres
LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES:

**MINERALS** 

SIGNIFICANT: MINERALIZATION AGE:

DEPOSIT

CHARACTER: CLASSIFICATION:

HOST ROCK

DOMINANT HOSTROCK:

LITHOLOGY:

**GEOLOGICAL SETTING** 

TECTONIC BELT: TERRANE:

**BIBLIOGRAPHY** 

DATE CODED: 1997/04/07 DATE REVISED: // CODED BY: DA FIELD CHECK: Y REVISED BY: FIELD CHECK: N

MINFILE NUMBER: 1030 019

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 001

NATIONAL MINERAL INVENTORY: 103P13 Ag9

NAME(S): **ALICE - BEN BOLT** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: LATITUDE: 55 56 56 N

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

918

LONGITUDE: 129 53 28 W ELEVATION: 914 Metres

NORTHING: 6200750 EASTING: 444351

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on showing as described in Minister of Mines

Annual Report 1932, page 59.

COMMODITIES: Zinc Gold Silver Copper Lead

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Sphalerite Galena Arsenopyrite

Chalcopyrite

ASSOCIATED: Quartz
COMMENTS: Vein assumed to contain quartz.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DOMINANT HOSTROCK: Sedimentary

GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE Middle Jurassic Salmon River

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1932 Assav/analysis

SAMPLE TYPE: Grab

COMMODITY Silver GRADE 189.0000 Grams per tonne 4.1000 Gold Grams per tonne

Copper 0.7000 Per cent Per cent 8.7000 7inc

COMMENTS: Representative sample of vein.

REFERENCE: Minister of Mines Annual Report 1932, page 59.

**CAPSULE GEOLOGY** 

The Alice-Ben Bolt showing is located at the headwaters of the south fork of Glacier Creek (Albany Creek) 6 kilometres east-northeast of Stewart. A vein carrying polymetallic mineralization was discovered here while investigating the southern portion of

the Portland Canal fissure zone.

The showing consists of a 0.10 to 0.46 metre wide vein hosted in argillite of the Middle Jurassic Salmon River Formation (Hazelton Group). The vein occurs near the southwestern margin of an augite diorite stock. The vein is exposed in a trench for a length of 6.4 metres and is well mineralized with pyrite, pyrrhotite, sphalerite, galena, arsenopyrite and chalcopyrite. A representative sample assayed 4.1 grams per tonne gold, 189 grams per tonne silver, 0.7 per cent copper and 8.7 per cent zinc (Minister of Mines Annual

Report 1932, page 591).

BIBLIOGRAPHY

EMPR AR 1930-106; \*1932-59

EMPR BULL 58; 63
EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218
1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR MAP 8 GSC MAP 215A; 307A; 315A; 1385A

DATE CODED: 1989/06/05 DATE REVISED: 1989/12/19 CODED BY: PSF REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 001

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 002

NATIONAL MINERAL INVENTORY: 103P13 Au5

NAME(S): **MONDAY** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

920

LATITUDE: 55 48 39 N LONGITUDE: 129 56 35 W

NORTHING: 6185429 EASTING: 440898

ELEVATION: 884 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location based on description of showing in Minister of Mines

Annual Report 1926, page 86.

COMMODITIES: Lead 7inc Silver Gold

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyr COMMENTS: Sulphides occur as massive veins. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Massive CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** Bulldog Creek Pluton

ISOTOPIC AGE: 181 +/- 8 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Hornblende

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Isotopic age from GSC Open File 2996.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Boundary Ranges

COMMENTS: Hosted in the Bulldog Creek Pluton of the Coast Plutonic Complex.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1926 Assay/analysis

SAMPLE TYPE: Grab **COMMO**DITY **GRADE** 

Silver 1200.0000 Grams per tonne Gold 6.6000 Grams per tonne 50.0000 Per cent I ead

REFERENCE: Minister of Mines Annual Report 1926, page 86.

CAPSULE GEOLOGY

The Monday showing is located at the headwaters of Bulldog

Creek, 15 kilometres south-southeast of Stewart.

The showing consists of narrow veins of massive galena, sphalerite and pyrite hosted in granodiorite of the Jurassic Bulldog Creek Pluton. Samples assayed up to 6.6 grams per tonne gold, 1200 grams per tonne silver and 50 per cent lead (Minister of Mines Annual Report 1926, page 86).

**BIBLIOGRAPHY** 

EMPR AR \*1926-86; 1927-81,82; 1931-41; 1933-53 EMPR BULL 58; 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 101

GSC OF 2996

DATE CODED: 1985/07/24 CODED BY: FIELD CHECK: N REVISED BY: LDJ DATE REVISED: 1999/06/17 FIFLD CHECK: N

MINFILE NUMBER: 103P 002

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 003

NAME(S): **DEVLIN**, DAK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P11W BC MAP:

LATITUDE: 55 31 34 N

LONGITUDE: 129 26 16 W ELEVATION: 415 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location uncertain, based on report by A.J. Gaul, 1925 (Property

File).

COMMODITIES: Zinc

**MINERALS** 

SIGNIFICANT: Sphalerite COMMENTS: Occurs as bands in vein.

ASSOCIATED: Quartz
COMMENTS: Vein is assumed to contain quartz.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au
DIMENSION: 0045 x 0001 Metres
COMMENTS: Vein etrilica CLASSIFICATION: Hydrothermal

STRIKE/DIP: /60F TREND/PLUNGE:

COMMENTS: Vein strikes approximately north-south for 61 metres.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Lower Jurassic Hazelton **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

NATIONAL MINERAL INVENTORY: 103P11 Zn2

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6153426

EASTING: 472364

REPORT: RGEN0100

921

LITHOLOGY: Argillite

Quartzite

Argillaceous Quartzite Volcanic Breccia

Tuff

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane

TERRANE: Stikine

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Boundary Ranges

METAMORPHIC TYPE: Regional GRADE: Greenschist

COMMENTS: Situated at south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

Per cent

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

YEAR: 1925

COMMODITY

COMMENTS: A 0.61 metre chip sample taken across vein.

REFERENCE: Property File: Report by A.J. Gaul, 1925, page 2.

CAPSULE GEOLOGY

The Devlin showing is situated on the northwest slope of Wilauks Mountain (Mt. McGrath) about 6.0 kilometres northeast of Alice Arm. This zinc showing was explored by underground drifts and crosscuts in 1925.

The area is underlain by an assemblage of volcanics and sediments belonging to the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. In the vicinity of Wilauks Mountain this sequence lies on the western flank of the north-northwest trending Mt. McGuire anticline. These

rocks have been regionally metamorphosed up to greenschist facies.

The showing is hosted in a sequence of Hazelton Group argillites, quartzites, argillaceous quartzites, volcanic breccias and tuffs, all crosscut by dykes. The showing consists of a quartz vein, averaging 1.07 metres in width, that parallels the bedding of the host rock. It strikes approximately north-south, dips 60 degrees east and has been traced for 45 metres.

Mineralization occurs over a width of 0.61 metres and consists

MINFILE NUMBER: 103P 003

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

of bands of sphalerite with minor pyrite. A chip sample taken across the 0.61 metre width assayed 18 per cent zinc (Property File: Report by Gaul, A.J. 1925, page 2).

**BIBLIOGRAPHY** 

EMPR AR 1925-78; 1966-47,48

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

EMPR MAP 8

EMPR OF 1986-2 EMPR PF (\*Report by Gaul, A.J. 1925) GSC MAP 307A; 1385A

WWW http://www.infomine.com/index/properties/FH\_CLAIMS.html

DATE CODED: 1986/03/05 DATE REVISED: 1989/03/07 CODED BY: GD REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 003

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 004

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

923

NAME(S): OLH

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P12E BC MAP: LATITUDE: 55 32 16 N LONGITUDE:

NORTHING: 6154872 129 43 07 W EASTING: 454649

ELEVATION: 1189 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Location based on the approximate centre of the main outcrop of the

North zone, (Assessment Report 8361, Figure 3).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrite Ferrimolybdite Chalcopyrite Hematite

COMMENTS: Molybdenite associated with or in quartz veins.

Chlorite

ASSOCIATED: Quartz ALTERATION: Quartz ALTERATION TYPE: Silicific'n Chloritic

MINERALIZATION AGE: Eocene

DEPOSIT

CHARACTER: Vein CHARACTER CLASSIFICATION: Porphyry
TYPE: L05 Porphyry Mo (Low F- type) Stockwork

Hydrothermal **Epigenetic** 

STRIKE/DIP: 200/25 DIMENSION: TREND/PLUNGE:

COMMENTS: Two zones containing mineralized quartz veins commonly striking 010 to

040 degrees, dipping 27 to 54 degrees west.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Eocene Coast Plutonic Complex

LITHOLOGY: Alaskite

Quartz Monzonite **Biotite Granite** Aplite Pegmatite Granodiorite Quartz Biotite Schist

GEOLOGICAL SETTING
TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) TERRANE: Plutonic Řocks

COMMENTS: Situated in eastern margin of Coast Plutonic Complex.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis YEAR: 1980

COMMODITY **GRADE** Molybdenum 0.5040 Per cent

COMMENTS: Highest assay from seven representative grab samples.

REFERENCE: Assessment Report 8361, page 7.

CAPSULE GEOLOGY

The OLH showings are located on the west flank of Campbell Ridge, east of Hastings Arm on Observatory Inlet approximately 16.0 kilometres northwest of Alice Arm. The molybdenite showings were discovered by Noranda Exploration in 1979.

The occurrence is hosted in rocks of the Coast Plutonic Complex. Lithologies in the vicinity include medium-grained equigranular granodiorite (quartz diorite), biotite granite, alaskite (quartz

monzonite) and aplite-pegmatite.

Mineralization is developed in two zones, the North and South zones, about 2 kilometres apart. The North zone is at least 600metres wide and the South zone consists of two showings which occur over a distance of 250 metres. Mineralization comprises molybdenite, pyrite, ferrimolybdite, iron oxide with minor chalcopyrite and The mineralization occurs as fine films on fractures, as selvages along margins of veins, as disseminated flakes adjacent to

> MINFILE NUMBER: 103P 004

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

veins and as fine-grained masses in quartz veins. The molybdenite is in or associated with, two sets of quartz veins. The most common set strikes 010 to 040 degrees, dips 36 to 63 degrees west and the veins range from 2.5 to 15.3 centimetres in width. Fractures are usually only pyritic. Hydrothermal alteration of host rocks is evidenced by silicification and chloritization of biotite.

Seven grab samples of representative mineralization assayed 0.127 to 0.504 per cent molybdenum (Assessment Report 8361).

### **BIBLIOGRAPHY**

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EMPR BULL 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 1385A

DATE CODED: 1986/03/17 DATE REVISED: 1989/01/26 CODED BY: GD REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 004

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 005

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

Lead

NORTHING: 6205962 EASTING: 470876

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

925

NAME(S): MEZIADIN, DELNORTE, PORTER, BULLION, BULLDOG, DEL NORTE

STATUS: Showing

REGIONS: British Columbia NTS MAP: 103P14W

BC MAP:

LATITUDE: 55 59 53 N LONGITUDE: 129 28 01 W

ELEVATION: 770 Metres LOCATION ACCURACY: Within 500M

COMMENTS: #60 on Diagram of Portland Canal Mining District, on Del Norte Creek

(Porter Creek).

COMMODITIES: Gold Copper Zinc Silver

**MINERALS** 

SIGNIFICANT: Pyrite

Chalcopyrite

Galena

Sphalerite

ASSOCIATED: Quartz ALTERATION: Silica

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal **Epigenetic** 

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105 SHAPE: Irregular

MODIFIER: Sheared Fractured

DIMENSION: 0006 Metres STRIKE/DIP: 315/70E TREND/PLUNGE:

**FORMATION** 

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP** Jurassic Bowser Lake

Undefined Formation

LITHOLOGY: Argillite

Siltstone

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

PHYSIOGRAPHIC AREA: Boundary Ranges

INVENTORY

ORE ZONE: OPENCUT

REPORT ON: N

Per cent

Per cent

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

**GRADE** 

COMMODITY

27.4000 4.8000 1.6000

1.6000

Grams per tonne Grams per tonne

YEAR: 1939

Gold Copper Zinc

Silver

COMMENTS: Across 1.46 metres of open cut. REFERENCE: EMPR Special Report by Mandy, J.T., 1939.

**CAPSULE GEOLOGY** 

The Meziadin showing is located near the head of Del Norte Creek approximately 75 kilometres east of Stewart. The area was initially explored prior to 1913, again in 1922 and finally in 1938-1939.

The area is underlain by siltstone, greywacke, sandstone, calcarenite, argillite, conglomerate and minor limestone of the Middle Jurassic Salmon River Formation, Hazelton Group.

The showing comprises a fissured and partly silicified zone, 0.4 to 0.9 metres wide, in argillite. Along the footwall, a layer of quartz is interbanded with argillite. The quartz is locally copper stained and contains pyrite, galena and sphalerite with high values in gold and silver reported. Two other zones occur in the vicinity, 0.9 to 6.1 metres wide. These strike northwest, dip vertically and locally contain small silicified sections which contain small patches of sphalerite and chalcopyrite.

A 1.46 metre sample from one of these two other zones, assayed 4.8 grams per tonne gold, 27.4 grams per tonne silver, 1.6 per cent

> MINFILE NUMBER: 103P 005

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

copper, 1.6 per cent zinc and nil lead (Mandy, J.T. (1939) Special Report #3). This was the best assay result from the program, most samples contained only trace gold and silver.

**BIBLIOGRAPHY** 

EMPR AR 1922-77, 1939-67

EMPR BULL 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR PF (Geological Map and Assay Plan, Meziadin Group, 1939)
EMPR SPEC RPT \*Mandy, J.T.(1939)
GSC MAP 307A, 1385A
GSC MEM \*32-75, 175

GCNL #160, 1991

DATE CODED: 1985/07/24 DATE REVISED: 1989/11/28 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 005

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 006

NATIONAL MINERAL INVENTORY: 103P14 Au

PAGE:

NORTHING: 6204070

EASTING: 463479

REPORT: RGEN0100

927

NAME(S): WILLOUGHBY, WILBY, WILBY CREEK, WILLOUGHBY CREEK, BACK, DEL, GOLD MOUNTAIN, NORTH, MAIN, UPPER ICEFALL, LOWER ICEFALL, CCR, KIWI, EDGE, LEDGE,

WILLOW

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13E 103P14W UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 58 50 N LONGITUDE: 129 35 07 W

ELEVATION: 1450 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of showing on the Del claim about 21 kilometres east of

Stewart (Assessment Report 18096).

COMMODITIES: Gold Silver 7inc Lead

**MINERALS** 

Pyrrhotite SIGNIFICANT: Pyrite Sphalerite Galena Gold

Arsenopyrite ALTERATION: Dolomite Ankerite Sericite Chlorite **Pvrite** 

ALTERATION TYPE: Carbonate MINERALIZATION AGE: Sericitic Chloritic Pyrite

**DEPOSIT** 

Stockwork Disseminated Podiform

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** Replacement

TYPE: GO7 Subaqueous hot spring Ag-Au 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

MODIFIER: Faulted Sheared DIMENSION: Metres STRIKE/DIP: TREND/PLUNGE: /

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

Triassic Unnamed/Unknown Group Unnamed/Unknown Formation Unknown Unnamed/Unknown Informal

LITHOLOGY: Andesite

Andesitic Tuff

Hornblende Feldspar Porphyry

Limestone Breccia Silty Mudstone Sandstone Conglomerate Basalt Basaltic Flow

HOSTROCK COMMENTS: Rocks could belong to either the Bowser Lake Group or the Hazelton

Group.

GEOLOGICAL SETTING PHYSIOGRAPHIC AREA: Boundary Ranges TECTONIC BELT: Intermontane

TERRANE: Stikine Bowser Lake COMMENTS: Bowser Lake sedimentary overlap on the Stikine Terrane.

INVENTORY

REPORT ON: N ORF ZONF: MAIN

> YEAR: 1994 CATEGORY: Assay/analysis

> SAMPLE TYPE: Drill Core

COMMODITY GRADE

12.3000 15.6000 Silver Grams per tonne Gold Grams per tonne

COMMENTS: Over 4.2 metres. Also referred to as the Wilby zone.

REFERENCE: Assessment Report 23674.

CAPSULE GEOLOGY

The Willoughby prospect is located on a steep nunatak south of Meziadin Lake and 26 kilometres east of Stewart between the north and

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

central forks of the Willoughby Glacier. A mineralized zone carrying low grade gold and silver values was investigated in this area in 1941 and the Wilby group of claims was explored in 1945.

Mapping has shown the eastern-half of the property to be underlain by Triassic volcaniclastics while the western-half is dominated by Lower Jurassic Hazelton Group rocks. Triassic volcaniclastics are primarily composed of silty mudstone, sandstone and local conglomerate and debris flow conglomerate. At Pius Ridge, located on the south side of Willoughby Creek, Triassic basaltic flows and fine bedded epiclastic rocks host units of rhyolite tuff and heterolithic volcaniclastic rocks containing massive pyrite clasts. Hazelton Group rocks locally consist of andesitic volcaniclastics and conglomerate. At the northwest end of the Willoughby nunatak a Goldslide intrusions porphyry stock has intruded andesitic tuffs. The tuffs vary from ash to lapilli with bedding being randomly developed. Thin section work indicates that the porphyry contains minor quartz, primary biotite, apatite and rutile. Across the valley from the Willoughby nunatak, in the vicinity of the Willow zone, andesitic conglomerate is interbedded with fossiliferous A thin section study indicates that a microsyenite has limestone. intruded the area.

Variable carbonate +/- sericite +/- chlorite +/- pyrite hydrothermal alteration overprints both the stock and country rocks. Petrographic studies indicate that the altered rocks contain 20-40 per cent carbonate (dolomite and ankerite), 20-40 per cent sericite and up to 10 per cent chlorite. Silica content is low. In general, hornblende is altered to biotite and to sericite.

Structurally the area is complex with intense, closely-spaced faulting occurring throughout. Two dominant shear trends are indicated: 330 degrees that has right-lateral movement as indicated by calcite-filled tension gashes and a 040-060 degree trend.

In the vicinity of the mineralized zones bedding attitudes are highly variable. Distal to the mineralization, within crystal and ash tuffs, a north-northwesterly trending foliation with a west dip is developed that appears to be subparallel to primary bedding.

To date 11 mineralized occurrences have been located on the Willoughby property. Eight of the showings: North, Wilby (also referred to as Main), Upper Icefall, Lower Icefall, CCR, Kiwi, Edge and Ledge occur on the Willoughby nunatak, at the head of Willoughby Creek; two showings, Willow (previously referred to as Willoughby) and Back are situated across the valley to the northeast near Buffalo Ridge; and one showing, Pius, is located to the southeast at Pius Ridge. All of the zones are hosted by variable, pervasively sericite +/- carbonate +/- chlorite +/- pyrite altered rocks. Mineralization consisting of pyrite, pyrrhotite along with lesser sphalerite, galena and rare visible gold occurs in veins, stockwork and fracture fillings. In addition, pyrite and pyrrhotite occur as semimassive to massive occurrences in lenses and pods. Several of the zones appear to be intrusion related.

At the Willoughby nunatak all of the zones excluding the North zone occur within andesitic tuffs peripheral to the hornblende feldspar porphyry stock. The North zone occurs within the stock. With the exception of the North zone, the style of mineralization is similar consisting of replacement style pods and lenses of semimassive to massive pyrite and pyrrhotite and disseminated, stockwork and fracture controlled pyrite and pyrrhotite along with minor sphalerite, galena and arsenopyrite. In general the lenses are small, less than 5 metres in size, however, at the Wilby zone a sulphide lens has been traced for 65 metres with widths variable to 5 metres. At the North zone pyrite along with lesser sphalerite and minor galena occur in stockwork, as disseminations and as fracture fillings. Visible gold occurs within shear controlled veins by itself or in association with pyrite, galena or sphalerite.

At the Willow zone drilling indicates that disseminated auriferous pyrite occurs peripheral to a well mineralized, pyrite-sphalerite bearing breccia body. The Back prospect, consisting of small, up to one by five metre pods of semimassive pyrite along with minor sphalerite and galena, occurs in andesitic tuffs near the contact with limestone.

The Pius showing consists of volcaniclastic hosted, subangular blocks of massive pyrite. Individual blocks are up to 10 centimetres in size.

In 1994, Camnor Resources as part of a larger exploration program completed a 17 hole, 1753 metre drill program testing the North, Wilby, Upper Icefall and Willow zones. The North zone is a 30 by 250 metre zone of elevated geochemistry hosted by altered hornblende feldspar porphyry. Mineralization within the zone appears to be shear related. Drilling has tested a gold +/- silver bearing shoot for 40 metres along strike and for up to 50 metres downdip.

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REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### CAPSULE GEOLOGY

The shoot strikes northwesterly, appears to plunge steeply to the southeast, with the dip being moderate to the southwest. It is open along strike, down plunge and downdip. The best drill intersection averages 40.1 grams per tonne gold and 109.6 grams per tonne silver over 11.7 metres (Assessment Report 23674).

Mapping and drilling at the Wilby zone has shown a 20 by 60 metre northwest-trending zone to contain semimassive to massive pyrrhotite and pyrite pods within altered andesitic tuffs. Gold values occur within and immediately peripheral to the sulphides. The zone appears to be flat lying and is open along strike to the northwest. The best drill intercept averages 15.6 grams per tonne gold and 12.3 grams per tonne silver over 4.2 metres (Assessment Report 23674).

Drilling at the Upper Icefall zone located an extensive zone of variably altered andesitic tuffs. Mineralization consists of up to 20 per cent pyrite along with lesser sphalerite, galena and arsenopyrite. One hole tested the zone with the best intercept being a one metre sample assaying 17.8 grams per tonne gold and 44.2 grams per tonne silver (Assessment Report 23674).

Drilling at the Willow zone failed to intersect any significant intersections of interest. The zone either dies out or is at a different orientation than projected.

different orientation than projected.

Work in 1995 by Camnor Resources included 3013.5 metres of surface diamond drilling in 27 holes and 1151 core assays. Best results obtained were 386.3 grams per tonne gold and 213.5 grams per tonne silver over 2.9 metres in the North zone, and 13.3 grams per tonne gold and 63.4 grams per tonne silver over 13 metres in the Wilby zone

Wilby zone.

Camnor completed approximately 1750 metres of surface drilling in 1996 on the Kiwi, Lower Icefall, Wilby, Wilkie and Edge zones, as well as underground drilling (20 holes totalling 1697 metres) on the North and North-North zones. The underground adit on the North zone was advanced 40 metres for a total length of 90 metres. The drilling tested the zone along a strike length of 100 metres and a minimum dip length of 75 metres; widths are variable to 8 metres. Drilling on the Wilkie zone tested a 60 metre segment at down dip depths of up to 70 metres; widths are variable to 3 metres. In drill testing for the extension of the Wilby zone, a new sulphide lens consisting of pyrite and pyrrhotite was discovered and named the Northern Deep. Both the Wilby and Northern deep lenses have been traced for 150 metres along strike, with widths variable to 25 metres.

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EMPR AR 1940-52; 1945-62
EMPR ASS RPT 11422, \*18096, \*23674
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EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243
EMPR INF CIRC \*1997-1, p. 19
EMPR MAP 8
EMPR PF (\*Brown, C.E.G. (1945): Report on Wilby Creek Group; Notes by D. Alldrick and M. Mallott on talk on the Willoughby Creek Area presented at the Minerals North Conference, April 12, 1991)
GSC MAP 307A; 1385A
GSC MEM 32-76; 175
GCNL \*#190, 1989
N MINER August 15, 1994
WWW http://www.infomine.com/
Falconbridge File

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DATE REVISED: 1996/07/15 REVISED BY: GO FIELD CHECK: Y

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 007

NATIONAL MINERAL INVENTORY: 103P13 Au

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930

 $\begin{array}{ll} \text{NAME(S):} & \textbf{CAMB}, \text{ LOST MOUNTAIN, MANDY,} \\ & \text{HANDY, MIDDLE, R.H.S.} \end{array}$ 

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13E UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 56 12 N LONGITUDE: 129 43 35 W NORTHING: 6199269 EASTING: 454623

ELEVATION: 1100 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of veins on Camb 1 claim (Assessment Report

12275).

COMMODITIES: Molybdenum Gold Lead Zinc Silver

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Sphalerite Galena Chalcopyrite Arsenopyrite Greenockite Boulangerite Tetrahedrite Molybdenite

Calcite ASSOCIATED: Quartz Siderite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Massive Stockwork

CLASSIFICATION: Hydrothermal Epigenetic Porphyry

Subaqueous hot spring Ag-Au Porphyry Mo (Low F- type) 105 TYPE: G07 Polymetallic veins Ag-Pb-Zn±Au

L05

SHAPE: Tabular

MODIFIER: Sheared DIMENSION: 0800 x 0001 Metres STRIKE/DIP: 325/70S TREND/PLUNGE:

COMMENTS: Dimension and attitude of Handy vein.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic **Bowser Lake Undefined Formation** Jurassic Hazelton Undefined Formation

Jurassic-Cretaceous Coast Plutonic Complex

LITHOLOGY: Argillite

Andesitic Volcaniclastic Feldspar Porphyry Andesite Lamprophyre Dike Lamprophyre Sill Quartz Monzonite

HOSTROCK COMMENTS: Host rocks belong to either the Middle to Upper Jurassic Bowser Lake

Group or the Jurassic Hazelton Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake

INVENTORY

REPORT ON: N ORE ZONE: MANDY VEIN

> CATEGORY: Assay/analysis YEAR: 1986 SAMPLE TYPE: Bulk Sample

**GRADE** COMMODITY

Silver 9.9800 Grams per tonne 2.4220 Grams per tonne

COMMENTS: 45 tonne composite bulk sample over 126 metres.

REFERENCE: George Cross Newsletter #59, Mar. 1986.

ORE ZONE: HANDY VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1986

SAMPLE TYPE: Bulk Samplé

COMMODITY Silver

154.2600 Grams per tonne Gold 24.6800 Grams per tonne

COMMENTS: 45 tonne bulk sample over 57.9 metres. REFERENCE: George Cross Newsletter #59, Mar. 1986.

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

The Camb showings are located on a nunatak called Lost Mountain in Bromley Glacier, approximately 15 kilometres due east of Stewart. This area has been investigated periodically for molybdenum and precious metal mineralization between 1960 and 1986.

The area is underlain by argillite and andesitic volcaniclastics  $% \left( 1\right) =\left[ 1\right] =\left$ of the Middle to Upper Jurassic Bowser Lake Group (or possibly the Jurassic Hazelton Group) intruded by feldspar porphyry, andesite and lamprophyre sills and dykes. Quartz monzonite outcrops near the east edge of the nunatak.

The showings primarily comprise three quartz veins, the Handy, Mandy and Middle veins. However, the quartz monzonite to the east (on the RHS claims) is mineralized with pyrite, pyrrhotite and fracture filling and disseminated molybdenite. It has been speculated that the molybdenum bearing intrusive extends under the ice to McAdam Point (103P 220) where granodiorite containing molybdenite mineralization has been located. The Bromley Glacier is receding quite rapidly, 107 metres from 1960 to 1967, exposing more of the stock and mineralized quartz veins. The molybdenum and precious metal mineralization is considered to be closely related.

Three types of mineralization occurs in narrow but continuous quartz veins 1) high grade gold and silver veins cutting all rock types and locally associated with quartz stockworks 2) quartz veinlets with siderite and calcite occurring along fault zones forming, and extending into, wall areas of andesite dykes 3) Quartz stockworks in association with sulphide bearing yellow calcite within feldspar porphyry dykes. Quartz veins contain massive sulphides as fracture fillings and are locally banded with thin films of argillite and/or graphite. Mineralization consists of pyrite, pyrrhotite, sphalerite, galena, chalcopyrite, arsenopyrite, greenockite, boulangerite and tetrahedrite (in order of abundance). Mineralization in stockworks consists of coarse sphalerite and galena in yellow calcite as stringers and coarse blebs. The stockworks are considered to be an early mineralization phase with low gold and silver values and sulphides rarely comprising more than 5 per cent of the veins. The Mandy vein has been traced for 330 metres, is 5 to 60

centimetres wide, strikes 325 degrees and dips 70 degrees southwest. A 45 tonne composite bulk sample over 126 metres assayed 2.422 grams per tonne gold and 9.98 grams per tonne silver (George Cross Newsletter #59, Mar. 1986).

The Handy vein, 150 metres north of and parallel to the Mandy vein, has been traced for 800 metres and is 0.02 to 1.2 metres wide. A 45 tonne bulk sample over 57.9 metres assayed 24.68 grams per tonne gold and 154.26 grams per tonne silver (George Cross Newsletter #59, Mar. 1986).

The Middle vein occurs in between the Handy and Mandy veins and had lower assay values.

Similar mineralization and values occur in quartz veins of similar orientation on the RHS claims slightly to the northeast.

### **BIBLIOGRAPHY**

EMPR ASS RPT \*12275, 12718 EMPR BULL 63; 64 EMPR EXPL 1983-508; 1984-381 EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM 1973-491 EMPR MAP 8 GSC MAP 307A; 1385A GSC MEM 175 GCNL #14, 1984; #41, #59, 1986 VSW June 10, 1987

DATE CODED: 1985/07/24 DATE REVISED: 1990/01/04 FIELD CHECK: N CODED BY: GSB REVISED BY: DEJ

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 008

NATIONAL MINERAL INVENTORY:

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REPORT: RGEN0100

932

NAME(S): MOOSE-LAMB, TORBRIT, TORIC, KITSAULT LAKE

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P11W 103P 103P11W 103P12E UTM ZONE: 09 (NAD 83)

BC MAP:

NORTHING: 6171414 EASTING: 468495 LATITUDE: LONGITUDE: 129 30 04 W

ELEVATION: 680 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on adit portal (Devlin, B.D., 1987 Figure 3.1).

COMMODITIES: Silver I ead 7inc Copper

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Chalcopyrite Pyrargyrite

Argentite Tetrahedrite

COMMENTS: Sulphides laminated. ASSOCIATED: Quartz Calci Calcite Barite Hematite Jasper

Siderite Magnetite

Celestite

COMMENTS: Interlaminated with sulphides. ALTERATION: Chlorite
ALTERATION TYPE: Propylitic Quartz **Epidote** Carbonate Silicific'n Carbonate

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratiform Concordant Massive

CLASSIFICATION: Volcanogenic Exhalative TYPE: G07 Subaqueous hot spring Ag-Au G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

F04 Bedded celestite DIMENSION: 270 x 3 Metres STRIKE/DIP: 108/70N

TREND/PLUNGE: COMMENTS: The deposit, up to 3 metres wide, has been traced for 270 metres. Age

of mineralization is probably Lower Jurassic (galena lead isotopes).

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

> LITHOLOGY: Andesitic Pyroclastic Andesitic Ash Lapilli Tuff Andesitic Vitric Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1923 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY

411.0000 Grams per tonne

REFERENCE: Minister of Mines Annual Report 1923, page 60.

**CAPSULE GEOLOGY** 

The Moose-Lamb occurrence is situated 0.5 kilometres east of the Kitsault River, 23 kilometres north of Alice Arm. This deposit was extensively explored between 1955 and 1957 for silver bearing volcanogenic exhalites similar to the Torbrit mine (103P 191) to the

The area is underlain by a sequence of volcanic and sedimentary rocks belonging to the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into a doubly plunging, north-northwest trending syncline (the Kitsault River syncline) and has been regionally metamorphosed to greenschist facies.

The Moose-Lamb deposit consists of a stratiform volcanogenic silver-zinc-lead-barite exhalative horizon developed in a section of andesitic pyroclastic Hazelton Group rocks. The deposit is overlain RUN DATE: 26-Jun-2003 MINFILE MASTER REP
RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRAI

### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

by plagioclase porphyritic andesitic ash-lapilli tuff and underlain by andesitic vitric (shard) tuff that have been variably propylitized, carbonatized and silicified.

The deposit strikes 108 degrees, dips 70 degrees north and has been traced for 270 metres in a series of trenches. Exposed widths vary from 2.1 to 3.0 metres. The mineralogy is similar to the Torbrit deposit consisting of massive pyrite, sphalerite, galena, minor chalcopyrite and traces of pyrargyrite, argentite and tetrahedrite intercalated with laminations of quartz, calcite, barite, celestite, hematite, jasper, siderite and magnetite. Galena lead isotope data indicates that the mineralization is probably Lower Jurassic in age (Alldrick, D. 1989).

The mineralization is estimated to average 135 grams per tonne silver (Devlin, B.D., 1987: The Geology and Genesis of the Dolly Varden Silver Camp, page 29). Sampling has resulted in assays of up to 411 grams per tonne silver (Minister of Mines Annual Report 1923, page 60).

### **BIBLIOGRAPHY**

EMPR AR \*1923-60; 1925-76,447; 1927-87; 1948-71,73; 1955-20; 1956-20; 1957-8; 1959-9

EMPR ASS RPT 7098, 21892

EMPR BULL 63

EMPR EXPL 1978-238,239

EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

EMR MP CORPFILE (Torbrit Silver Mines Ltd.; Dolly Varden Resources)

GSC MAP 307A; 315A; 1385A

EG Vol. 54, 1959, p. 1470

Devlin, B.D., 1987: \*The Geology and Genesis of the Dolly Varden Silver Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia, M.Sc. Thesis

DATE CODED: 1986/04/02 CODED BY: GD FIELD CHECK: N
DATE REVISED: 1989/04/29 REVISED BY: PSF FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 009

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

934

NAME(S): MAUDE MCPHEE, KITSAULT, SILVER DREAM

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 41 18 N LONGITUDE: 129 31 15 W ELEVATION: 460 Metres NORTHING: 6171516 EASTING: 467256

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit as shown in Assessment Report

15371, Figure 5A.

COMMODITIES: Silver 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena

ASSOCIATED: Quartz ALTERATION: Sericite
ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal SIFICATION: Hydrothermal Epigenetic
TYPE: l05 Polymetallic veins Ag-Pb-Zn±Au
DIMENSION: 0023 x 0003 Metres

STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Vein strikes northwest, dips steeply northeast, is 23 metres long and

3 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Undefined Formation Hazelton

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

GRADE: Greenschist COMMENTS: Situated in Stewart Complex (Island Arc Assemblage).

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay/analysis YEAR: 1986

SAMPLE TYPE: Chip

COMMODITY Silver 162.0<u>0</u>00 Grams per tonne

7inc 0.1160 Per cent

COMMENTS: A 3.0 metre chip sample. REFERENCE: Assessment Report 15371, page 22.

CAPSULE GEOLOGY

The Maude McPhee showing is situated on the east bank of Evindsen Creek, 0.5 kilometres west of the Kitsault River, 23 kilometres north of Alice Arm. This showing was explored in the past by an adit and was rediscovered by Dolly Varden Minerals in

The area is underlain by a sequence of volcanic and sedimentary rocks belonging to the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into a doubly plunging, north-northwest trending syncline (the Kitsault River syncline) and has been regionally metamorphosed to greenschist facies.

The Maude McPhee showing comprises a 23 metre long, 3 metre wide vein striking north-northwest and dipping steeply northeast. The vein is hosted in sericitized Hazelton Group andesite. Mineralization consists of pyrite with minor galena and sphalerite in quartz gangue. A 3.0 metre chip sample contained 162 grams per tonne silver and 0.1160 per cent zinc, and a second 2.0 metre chip sample assayed 18.0 grams per tonne silver (Assessment Report 15371, page 22).

British Columbia, M.Sc. Thesis

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1913-80; 1916-49,77 EMPR ASS RPT 2887, \*15371 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2
EMPR OF 1986-2
EMPR PF (Mitchell, M.A. (1973) Report)
GSC MAP 307A
Devlin, B.D., 1987: Geology and Genesis of the Dolly Varden Silver
Camp Alice Arm Area, Northwestern British Columbia, University of

DATE CODED: 1986/04/21 DATE REVISED: 1989/04/23 CODED BY: DJA REVISED BY: PSF FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 010 NATIONAL MINERAL INVENTORY: 103P12 Cu7

NAME(S): RED POINT EXTENSION, V, NEW VEIN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 41 37 N LONGITUDE: 129 31 25 W ELEVATION: 601 Metres NORTHING: 6172104 EASTING: 467086

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on pyritic outcrop, Sample site T248 (Devlin, B.D.,

1987, Figure 3.1).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite ASSOCIATED: Quartz Barite

ALTERATION: Chlorite Pyrite Quartz Se

COMMENTS: Product of alteration of "Copper Belt" andesite.

Sericite

ALTERATION TYPE: Chloritic . Pyrite Silicific'n Sericitic Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated

CLASSIFICATION: Hydrothermal TYPE: I02 Intrusi Epigenetic Intrusion-related Au pyrrhotite veins G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

G07 Subaqueous hot spring Ag-Au

SHAPE: Irregular MODIFIER: Fractured

DIMENSION: STRIKE/DIP: 050/75S TREND/PLUNGE:

COMMENTS: Attitude of fractured V vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

GROUP Hazelton STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Undefined Formation

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: Situated in Stewart Complex (Island Arc Assemblage).

GRADE: Greenschist

INVENTORY

ORE ZONE: V VEIN REPORT ON: N

> YEAR: 1970 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver 2317.0000 Grams per tonne Gold 0.5100 Grams per tonne

Copper COMMENTS: A 1.2 metre chip sample. 0.0300 Per cent

REFERENCE: Assessment Report 2887, page 15.

ORE ZONE: SHEAR REPORT ON: N

> CATEGORY: YEAR: 1916 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver 27.0000 Grams per tonne 15,0000 Gold Grams per tonne 2.4800 Per cent

Copper COMMENTS: A 0.9 metre chip sample.

REFERENCE: Minister of Mines Annual Report 1916, page 81.

CAPSULE GEOLOGY

The Red Point Extension showing occurs 0.5 kilometres west of the Kitsault River, 24 kilometres north of Alice Arm. The area was initially explored for copper earlier this century and this showing is now being evaluated for precious metals.

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

The area is underlain by a sequence of volcanic and sedimentary rocks belonging to the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. sequence is folded into a doubly plunging, north-northwest trending syncline (the Kitsault River syncline) and has been regionally metamorphosed to greenschist facies.

This occurrence consists of two showings, the Red Point Extension and the V vein. The Red Point Extension lies near the south end of the "Copper Belt", a 10 kilometre long north-northwest trending gossanous body. The gossan consists of Hazelton Group plagioclase-hornblende porphyritic andesite that has been extensively pyritized with variable silicification and sericitization along its length. The Red Point Extension consists of a shear zone which strikes 135 degrees and contains a quartz vein hosted in chloritized andesite mineralized with pyrite and blebs of chalcopyrite. The shear zone averages 3.63 grams per tonne gold over a strike length of 50.3 metres and a width of 3.7 metres (The Northern Miner Nov. 3, 1986). A 0.9 metre chip sample assayed 15 grams per tonne gold, 27 grams per tonne silver and 2.48 per cent copper (Minister of Mines Annual Report 1916, page 81).

The V vein discovered in 1970, lies 288 metres southeast (bearing 116 degrees) of the Red Point Extension showing. This quartz-barite-pyrite vein has been traced for 13.7 metres and is highly fractured. It strikes 050 degrees and dips 75 degrees southeast. Disseminated galena and sphalerite occur in the vein and in the enclosing wallrock. A 1.2 metre chip sample assayed 0.51 grams per tonne gold, 2317 grams per tonne silver and 0.03 per cent copper (Assessment Report 2887, page 15).

#### RIRI IOGRAPHY

EMPR AR 1913-81; 1916-81; 1919-369; 1930-96; 1951-98,99 EMPR ASS RPT \*2887, 7098 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2 EMPR GEM 1970-81-85; 1972-507,508; 1973-489,490 EMPR PF (Dolly Varden Mines Ltd. Annual Reports 1970 to 1972; Pearson, W.N. (1986) Report)

EMR MP CORPFILE (Dolly Varden Mines Ltd.)

GSC MAP 307A; 315A; 1385A

GCNL #14,#99, 1987; #64, 1989

N MINER Nov.3, 1986

Devlin, B.D., 1987: Geology and Genesis of the Dolly Varden Silver Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia, M.Sc. Thesis

DATE CODED: 1986/03/26 DATE REVISED: 1989/04/29 FIELD CHECK: N CODED BY: REVISED BY: PSF FIFI D CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 011

NATIONAL MINERAL INVENTORY: 103P13 Au6

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

938

 $\begin{array}{ll} \text{NAME(S):} & \underline{\textbf{GLORIA}}, \text{ GLORY}, \text{ CARDOZO}, \\ \hline \text{WOOD 5} & \end{array}$ 

STATUS: Showing Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W

BC MAP:

LATITUDE: 55 50 00 N LONGITUDE: 129 59 50 W NORTHING: 6187980 EASTING: 437539

ELEVATION: 1036 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of the Number 3 (Minister of Mines

Annual Report 1927, page 81).

COMMODITIES: Lead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Chalcopyrite

Pyrite

ASSOCIATED: Quartz ALTERATION: Quartz ALTERATION TYPE: Silicific'n Pyrite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Breccia Vein nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: 105 Polym

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP FORMATION

Eocene Hyder Pluton

ISOTOPIC AGE: 47-51 +/- 2-3 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite, hornblende

**Bulldog Creek Pluton** Jurassic

ISOTOPIC AGE: 181 +/- 8 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Hornblende

LITHOLOGY: Granodiorite

Quartz Porphyritic Dike Quartz Porphyry

Isotopic ages from Alldrick, D., Open File 1986-2 and GSC OF 2996. HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Boundary Ranges

COMMENTS: Situated in the Bulldog Creek Pluton of the Coast Plutonic Complex.

CAPSULE GEOLOGY

The Gloria occurrence is located 12 kilometres south of Stewart on the south slope of a northwest trending ridge separating the headwaters of the Georgia River from Bulldog Creek. Various, sparsely mineralized, showings were explored by tunnels in this area during the 1920's with disappointing results. See Glory Extension 2 (1030 006) and Glory Extension (103P 184).

The showing comprised three types of showings hosted in granodiorite of the Jurassic Bulldog Creek Pluton. Galena,

sphalerite and pyrite are found along the walls of quartz porphyritic dykes (likely Eocene Hyder Pluton related) intruding the

granodiorite. Northwest striking, steeply dipping breccia zones, up to 7.6 metres wide, occur in silicified and pyritized granodiorite. These are mineralized with pyrite and minor sphalerite, galena and chalcopyrite. Narrow veins reported to contain sporadic sphalerite and chalcopyrite mineralization comprise the third type of showing.

**BIBLIOGRAPHY** 

EMPR AR 1922-65; 1923-68; 1924-58; 1925-79; \*1926-86; \*1927-80,81;

1928-91; 1929-92; 1930-101,191 EMPR ASS RPT 10300, 11082, 20908

EMPR BULL 58; 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1986-2 EMR MP CORPFILE (Gloria Mining Co. Ltd.) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 101 GSC OF 2996

CODED BY: GSB REVISED BY: LDJ DATE CODED: 1985/07/24 DATE REVISED: 1999/06/17

MINFILE NUMBER: 103P 011

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FIELD CHECK: N

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 103P 012

NAME(S): **SADDLE**, SAD

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 103P12W BC MAP:

LATITUDE: 55 37 18 N

LONGITUDE: 129 50 44 W ELEVATION: 1265 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location determined from westernmost shaft (Assessment Report 16299,

Figure 4).

COMMODITIES: Gold Silver Copper Lead

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Chalcopyrite Pyrrhotite COMMENTS: Occurs as massive sulphides in lenses and streaks in quartz veins.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Massive

hermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0060 x 0001 Metres STRIKE/DIP: 3 COMMENTS: Main vein has been traced for 60 metres and is up to 1.5 metres wide. STRIKE/DIP: 315/60W TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Aphanitic Andesite Welded Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Stikine PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

GRADE: Greenschist METAMORPHIC TYPE: Regional RELATIONSHIP:

COMMENTS: In a roof pendant at the eastern margin of the Coast Plutonic Complex.

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YFAR: 1983 Assav/analysis

SAMPLE TYPE: Channel COMMODITY Silver **GRADE** 152.5000 0.6170 Grams per tonne Gold Grams per tonne

Per cent Copper 0.3500 Per cent Lead 4.8500 Per cent Zinc 6.3800

COMMENTS: Across 1.0 metre of vein.

REFERENCE: Assessment Report 11076, page 61.

CAPSULE GEOLOGY

The Saddle occurrence is located about 37 kilometres southsoutheast of Stewart, about 2 kilometres west of the head of Hastings Arm. After several years of development, a few tonnes of ore containing lead, copper and silver were shipped in 1929.

The occurrence is situated near the eastern margin of a 7 by 4 kilometre roof pendant in the Tertiary Coast Plutonic Complex. This roof pendant consists of mostly massive to schistose aphanitic andesitic flows with some variably foliated welded tuffs and clastic volcanics containing metamorphic banding. The sequence has been subjected to regional greenschist metamorphism and may belong to the Jurassic Hazelton Group. Hornfelsed chloritic schists and minor ultramafics occur in the vicinity of the volcanic/intrusive contact. The composition of the surrounding intrusive varies from coarsegrained diorite to granodiorite.

The occurrence consists of two major quartz veins developed in massive aphanitic andesite which contains some inclusions of welded The main vein strikes northwest and dips about 60 degrees

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NATIONAL MINERAL INVENTORY: 103P12 Pb1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

7inc

NORTHING: 6164298

EASTING: 446751

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTEI
RUN TIME: 12:06:33 GEOLOGICAL SURV

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

southwest. It has been traced for 60 metres and is up to 1.5 metres wide. A secondary branch vein, of similar orientation, has been traced along strike for 100 metres and is up to 1.3 metres wide. A few other, less significant, branch veins also occur.

Mineralization consists of discontinuous lenses, pockets and streaks of massive sulphides up to 0.6 metres thick within the veins. The massive sulphides consist primarily of pyrite, galena, sphalerite, chalcopyrite and minor pyrrhotite.

Assays indicate erratic precious metal values occurring with base metals. A metre long channel sample taken across the width of a quartz vein assayed 0.617 grams per tonne gold, 152.5 grams per tonne silver, 0.35 per cent copper, 4.85 per cent lead and 6.38 per cent zinc (Assessment Report 11076 p. 61). Other channel samples assayed up to 220 grams per tonne gold across 0.18 metre and up to 665 grams per tonne silver over 0.30 metre (Assessment Report 11527 p.2).

During 1929, 2.72 tonnes of ore with an average grade of 1058 grams per tonne silver, 1.62 per cent copper and 52.76 per cent lead were mined. Further development was halted in 1930.

#### **BIBLIOGRAPHY**

EMPR AR 1926-77; 1927-68; 1928-77; 1929-80,431; 1930-83,359 EMPR ASS RPT \*11076, 11527, \*16299, 23952, 25540 EMPR BC METAL MM00790 EMPR BULL 63 EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243 EMPR INDEX 3-211 EMPR MAP 8 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 103 GSC OF 2996

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/01/26 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 012

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 013 NATIONAL MINERAL INVENTORY: 103P12 Pb1

NAME(S): ELKHORN, GEORGIA BAY, SAD

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 36 59 N NORTHING: 6163696 EASTING: 447899

LONGITUDE: 129 49 38 W ELEVATION: 457 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of old workings (Assessment Report, 16299, Figure 2).

COMMODITIES: Gold Silver 7inc I ead

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Galena Sphalerite COMMENTS: Sulphides and native gold occur in a silicified skarn zone. Gold

ASSOCIATED: Epidote Garnet Quartz COMMENTS: Occur in a silicified skarn zone.

ALTERATION: Epidote Garnet Quartz

ALTERATION TYPE: Skarn Silicific'n

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated

CLASSIFICATION: Skarn TYPE: K04 **Epigenetic** 

Au skarn STRIKE/DIP: 163/80W DIMENSION: TREND/PLUNGE:

COMMENTS: Attitude of silicified skarn zone.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

LITHOLOGY: Meta Andesite

Mica Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine
METAMORPHIC TYPE: Regional Bowser Lake RELATIONSHIP: Syn-mineralization GRADE: Greenschist

COMMENTS: In a roof pendant at the eastern margin of Coast Plutonic Complex.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1929

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 17.0000 Grams per tonne 5.4800 Gold Grams per tonne

COMMENTS: Sample of sulphides selected to avoid native gold. REFERENCE: Minister of Mines Annual Report 1929, page 82.

**CAPSULE GEOLOGY** 

The Elkhorn showing is located about 38 kilometres southsoutheast of Stewart, about one kilometre west of the head of Hastings Arm in Observatory Inlet. The showing southeast of the Saddle occurrence (103P 012). The showing occurs just

The occurrence is situated near the eastern margin of a 7 by 4 kilometre roof pendant within the Coast Plutonic Complex. The roof pendant consists of massive to schistose aphanitic andesite with some variably foliated tuffs and volcaniclastics containing metamorphic banding. This sequence may correlate with the Jurassic Hazelton Group. These volcanics have been subjected to regional greenschist metamorphism. Hornfelsed chloritic schists and minor ultramafics occur in the vicinity of the volcanic/intrusive contact. T surrounding intrusive consists of coarse-grained diorite to The granodiorite.

The Elkhorn showing consists of a 1 metre wide silicified skarn zone containing epidote, garnet and quartz in altered andesite and mica schist. The zone strikes 163 degrees and dips steeply to the west. Mineralization consists of fine-grained pyrite and pyrrhotite

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REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

with minor galena and sphalerite. "Spectacular finely divided gold in streaks 6 to 25 millimetres wide have been found in isolated patches", a sample of the sulphides carefully selected to avoid native gold assayed 5.48 grams per tonne gold and 17 grams per tonne silver (Minister of Mines Annual Report 1929, p. 82).

Two similar zones occur 15 and 30 metres higher in elevation

above the main zone. They parallel the main zone and are mineralized with pyrite, pyrrhotite and minor galena. A sample from the zone 30 metres above the main zone assayed 1.37 grams per tonne gold and 6.86 grams per tonne silver (Minister of Mines Annual Report 1929, page 82).

#### **BIBLIOGRAPHY**

EMPR AR \*1929-82; 1930-83; 1934-B14 EMPR ASS RPT 16299, 23952, 25540 EMPR BULL 63 EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243 GSC MAP 307A; 315A; 1385A GSC MEM 175, pp. 91-92 GSC OF 2996

DATE CODED: 1985/07/24 DATE REVISED: 1989/01/30 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 014

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6167006

EASTING: 476138

REPORT: RGEN0100

944

NAME(S): SEABEE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P11W BC MAP:

LATITUDE: 55 38 54 N LONGITUDE: 129 22 45 W ELEVATION: 1131 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centered on chip sample A4 (Map 1, Assessment Report 124).

COMMODITIES: Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena COMMENTS: As widespread fine disseminations, in shear zones and in veinlets.

ASSOCIATED: Quartz Calcite Barite

COMMENTS: As veinlets. ALTERATION: Epidote COMMENTS: In altered andesite.

ALTERATION TYPE: Epidote
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Vein

CLASSIFICATION: Hydrothermal **Epigenetic** Subvolcanic Cu-Ag-Au (As-Sb) TYPE: L03 Alkalic porphyry Cu-Au L01 STRIKE/DIP: DIMENSION: 0140 x 0043 Metres TRENĎ/PLUNGE:

COMMENTS: Gossan zones trend north to northeast.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

> LITHOLOGY: Andesite Rhyolite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the southern end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEINLETS REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1956 Assay/analysis

**GRADE** COMMODITY

Gold 0.5100 Grams per tonne

Copper 0.7000 Per cent

COMMENTS: 9.1 metre chip sample across quartz veinlets.

REFERENCE: Assessment Report 124, page 8.

CAPSULE GEOLOGY

The Seabee occurrence is situated along the southwestern shore of Kinskuch Lake, 20 kilometres north-northeast of Alice Arm. Various gossan zones were explored in the area in 1956.

The Kinskuch Lake area is underlain by volcanics and sediments of the Upper Triassic Stuhini Group and the Lower Jurassic Hazelton Group. These occur along the eastern limb of the north to northwest trending Mt. McGuire anticline and have been regionally metamorphosed

to greenschist facies.

The Seabee occurrence consists of widespread gossanous zones, more localized pyritic shear zones and veinlets containing variable quartz, calcite and barite hosted in Hazelton Group volcanics. The gossanous zones occur sporadically around the southwestern shore of Kinskuch Lake and are commonly hosted in light grey sodic rhyolite. In outcrop these zones tend to be elongate and trend north to northeast. Individual zones extend up to 140 metres and vary in width up to 43 metres. The pyritic shear zones occur more commonly in the dark green epidote altered andesite. Lenticular veins of variable

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

 ${\tt quartz},\;{\tt calcite}$  and  ${\tt barite},\;{\tt up}$  to 13 millimetres in width, are found in both volcanic types.

Mineralization in the gossan zones comprise widespread finely disseminated pyrite and minor chalcopyrite. The shear zones are more intensely pyritized and contain minor fine disseminated chalcopyrite. The quartz-calcite-barite veinlets often contain pods of pyrite with minor chalcopyrite and traces of galena. Chip and channel sampling revealed low copper values and trace gold. The best assay came from a 9.1 metre chip sample across a series of quartz veinlets containing visible pyrite and chalcopyrite which assayed 0.51 grams per tonne gold and 0.70 per cent copper (Assessment Report 124, page 8).

#### **BIBLIOGRAPHY**

EMPR AR 1966-47 EMPR ASS RPT \*124 EMPR BULL 63 EMPR EXPL 1979-260 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2 GSC MAP 1385A Gale, R.E. (1957): Geology of Kinskuch Lake Area, British Columbia, University of British Columbia, M.Sc. Thesis

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/30 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 014

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REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 015

NATIONAL MINERAL INVENTORY:

NAME(S): **MONARCH**, ILLY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

946

LATITUDE: 55 34 06 N LONGITUDE: 129 16 00 W ELEVATION: 1146 Metres NORTHING: 6158070 EASTING: 483184

LOCATION ACCURACY: Within 500M

COMMENTS: Location of pit (Assessment Report 10115, Figures 4 and 5).

COMMODITIES: Copper Lead 7inc Silver

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Chalcopyrite Pyrite COMMENTS: As veinlets, blebs and disseminations in vein. Trace gold. Tetrahedrite

Barite

ASSOCIATED: Quartz Carbonate COMMENTS: Contained in a vein within a shear zone.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal Breccia

Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Tabular MODIFIER: Faulted

DIMENSION: 0040 x 0020 Metres

STRIKE/DIP: 150/58S TREND/PLUNGE: COMMENTS: Vein is from 1.0 to 20.0 metres wide.

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Lower Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

LITHOLOGY: Andesitic Sericite Schist Rhyolitic Sericite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated at east boundary of Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> YEAR: 1968 CATEGORY: Assay/analysis SAMPLE TYPE: Drill Core

**GRADE** COMMODITY

Grams per tonne Silver 21.6000 0.4300 Copper Per cent Per cent 1.0000 Lead 1.6800 Per cent Zinc

COMMENTS: Resampling of drill core over a 19.8 metre intersection.

REFERENCE: Assessment Report 10115, page 11.

**CAPSULE GEOLOGY** 

The Monarch occurrence is located on the east bank of the Illiance River, about 17 kilometres northeast of Alice Arm. The area has been periodically explored since 1915 for copper, lead, silver and zinc.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the northnorthwest trending Mt. McGuire anticline. Thes regionally metamorphosed to greenschist facies. These rocks have been

The Monarch showing consists of a quartz-carbonate-barite vein hosted in a shear zone in andesitic to rhyolitic sericite schists. The vein strikes 150 degrees for 40 metres and dips 58 degrees southwest. The vein is terminated on its north end by a northeast trending fault and on the south end by a west striking fault which dips 50 degrees north. The vein varies in width from 1 metre on the north end to 20 metres in the central portion to 3 metres at its southern end.

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#### **CAPSULE GEOLOGY**

Mineralization consists of galena, sphalerite, chalcopyrite, pyrite and tetrahedrite as veinlets, blebs and disseminations in a gangue of quartz carbonate (ankerite or siderite), barite and brecciated wall rock. Resampling of old drill core (1968) resulted in an assay of 21.6 grams per tonne silver, 0.43 per cent copper, 1.09 per cent lead and 1.68 per cent zinc over 19.8 metres (Assessment Report 10115, page 11).

(Assessment Report 10115, page 11).

An adit was driven east for 56.7 metres in 1916 and 1918, about 33 metres below the showing, but failed to intersect the vein. Two holes drilled in 1967 are reported to have encountered only minor mineralization (Minister of Mines Annual Report 1967, page 49).

#### **BIBLIOGRAPHY**

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EMPR ASS RPT \*10115, 19459

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

EMPR PF (Map of showing and notes, 1965; Great Northwest Resources Corp. Prospectus, 1989)

EMR MP CORPFILE (Ponder Oils Ltd.)

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 73

GSC SUM RPT 1922, p. 47A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/03/14 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 015

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 016

NATIONAL MINERAL INVENTORY: 103P11 Cu2

PAGE:

NORTHING: 6168635 EASTING: 478069

TREND/PLUNGE:

REPORT: RGEN0100

948

NAME(S): BIG BULK, KINSKUCH, REINA BLANCA, GOLD STRIKE, KITS-JÄDE, MIDNIGHT BLUE

STATUS: Prospect MINING DIVISION: Skeena REGIONS: British Columbia NTS MAP: 103P11W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 39 47 N LONGITUDE: 129 20 55 W ELEVATION: 1311 Metres

LOCATION ACCURACY: Within 5 KM

COMMENTS: Location centered on collar of drill hole A1-Site A (Assessment

Report 10798, Drill Hole Plan).

COMMODITIES: Copper Gold

**MINERALS** 

**DEPOSIT** 

SIGNIFICANT: Pyrite Chalcopyrite

COMMENTS: Disseminated in volcanics and in quartz vein stockwork. ASSOCIATED: Quartz

ALTERATION: Albite

Chlorite **Epidote** Carbonate

Pvrite ALTERATION TYPE: Albitic

**Propylitic** 

Sericite

Carbonate Sericitic Pyrite

MINERALIZATION AGE: Unknown

CHARACTER: Disseminated Stockwork

CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: L03 A SHAPE: Irregular Alkalic porphyry Cu-Au 101 Subvolcanic Cu-Ag-Au (As-Sb)

MODIFIER: Faulted

DIMENSION: 0180 x 0120 Metres STRIKE/DIP:

COMMENTS: Zones are up to 180 metres long and 120 metres wide. Host rocks

strike northwest and dip east.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation

Lower Jurassic Hazelton

> LITHOLOGY: Andesitic Flow Andesite Lapilli Tuff Volcanic Breccia

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Boundary Ranges

TECTONIC BELT: Intermontane TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage)

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1965

SAMPLE TYPE: Drill Core

COMMODITY Per cent

Copper COMMENTS: Over a 16 metre length.

REFERENCE: Assessment Report 712, page 10.

CAPSULE GEOLOGY

The Big Bulk occurrence is situated on the southeast shore of Kinskuch Lake, 22 kilometres northeast of Alice Arm. The area has been explored extensively since 1938 for large tonnage, low grade

copper deposits.

The Kinskuch Lake area is underlain by volcanics and sediments of the Upper Triassic Stuhini Group and the Lower Jurassic Hazelton Group. These units are situated on the eastern limb of the north to northwest trending Mt. McGuire anticline and have been regionally metamorphosed up to greenschist facies.

The Big Bulk occurrence encompasses a number of pyritic zones in northwest striking east dipping andesitic flows, lapilli tuffs and minor volcanic breccias of the Hazelton Group. The sequence is cut

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#### CAPSULE GEOLOGY

by lamprophyre and quartz-feldspar porphyritic dykes. The pyritic zones are contained in a roughly crescent shaped 1.75 kilometre wide alteration halo centered on the southeast shore of Kinskuch Lake. The halo contains variable albite, chlorite-epidote (propylitic), carbonate and sericitic alteration.

Four chalcopyrite-bearing pyritic zones have been defined. These four zones are roughly elliptical and vary from 100 to 180 metres in length and 25 to 120 metres in width. Some of these zones are faulted at depth.

Mineralization comprises disseminated pyrite and chalcopyrite in quartz vein stockworks and in the volcanic country rock. Pyrite to chalcopyrite ratios vary from 1:2 to 10:1. Diamond drilling encountered copper values of up 1.22 per cent copper over 16 metres (Assessment Report 712 p.10). Surface chip samples have resulted in assays of up to 0.715 per cent copper, 1.75 grams per tonne gold and 0.34 grams per tonne silver over a length of 13 metres (Assessment Report 8785, page 11).

Recent work has concentrated on the Big Bulk and Midnight Blue

target areas. Work completed in 1990 outlined broad areas or anomalous gold and copper.

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EM EXPL 2001-1-9
EMPR AR 1931-39; 1938-B3; 1939-67; 1955-20,21; 1956-21; 1965-65; \*1966 EMPR ASS RPT 119, \*712, 2538, 8375, \*8785, 10798, 21915 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM 1970-90,91 EMPR MAP 8 EMPR OF 1986-2 EMPR SPEC RPT 4, 193 GSC MAP 307A; 1385A 1939 GCNL #59, 1981; #164, 1991 Gale, R.E. (1957): The Geology of Kinskuch Lake Area, British Columbia, University of British Columbia, M.Sc. Thesis

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/20 FIELD CHECK: N CODED BY: GSB REVISED BY: PSF

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 017

NATIONAL MINERAL INVENTORY: 103P14 Au

MINING DIVISION: Skeena

NORTHING: 6199182 EASTING: 477511

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REPORT: RGEN0100

950

NAME(S): WILLOUGHBY CREEK

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

NTS MAP: 103P14W BC MAP:

LATITUDE: 55 56 15 N
LONGITUDE: 129 21 36 W
ELEVATION: 375 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: #61 on Diagram of the Portland Canal Mining District (GSC Memoir 32).

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Gold MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unconsolidated CLASSIFICATION: Placer TYPE: C01 Surficial

Surficial placers

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER **FORMATION** Middle Jurassic Hazelton Salmon River

Glacial/Fluvial Gravels Tertiary

LITHOLOGY: Unconsolidated Sediment/Sedimentary

Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Bowser Lake

CAPSULE GEOLOGY

The Willoughby Creek placer showing is located approximately 40 kilometres east of Stewart. The creek was investigated, in several locations, for placer gold in the early 1900's.

Coarse gold is reported to have been found in a bar on this creek prior to 1913. A terrace on the left bank of the creek, covered with 7.6 metres of coarse gravel, was investigated by a tunnel driven part way across but no pay channel was located. The area is underlain by sediments of the Middle Jurassic

Salmon River Formation, Hazelton Group.

**BIBLIOGRAPHY** 

EMPR BULL 28 p.47; 63 EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 GSC MAP 1385A GSC MEM 32-76

FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1989/11/28 CODED BY: GSB REVISED BY: DEJ FIFLD CHECK: N

MINFILE NUMBER: 103P 017

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 018 NATIONAL MINERAL INVENTORY: 103P12 Cu7

NAME(S): KITSOL, KITSAUL, BONANZA

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 41 38 N NORTHING: 6172131 **EASTING: 467732** 

LONGITUDE: 129 30 48 W ELEVATION: 345 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of main outcrop of Kitsol vein (Devlin, B.D., 1987 fig. 3.1).

COMMODITIES: Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Marcasite Galena Sphalerite Chalcopyrite Pýrargyrite Silver

ASSOCIATED: Quartz Jasper Calcite Barite COMMENTS: Colliform banded.
ALTERATION: Chlorite Ep **Epidote** Carbonate Quartz ALTERATION TYPE: Propylitic Carbonate Silicific'n

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratiform Concordant

CLASSIFICATION: Volcanogenic Exhalative
TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn Polymetallic veins Ag-Pb-Zn±Au 105

DIMENSION: 0107 x 0091 x 0006 Metres STRIKE/DIP: TREND/PLUNGE: COMMENTS: Strikes northeast for 91 metres, dips near vertical, is 5.5 metres

wide and has been traced downdip for 107 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesitic Tuff

Andesitic Breccia

Andesite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YEAR: 1972 Assay/analysis

SAMPLE TYPE: Drill Core

COMMODITY Silver Grams per tonne

COMMENTS: A 5.5 metre drill hole intersection.

REFERENCE: Property File - Dolly Varden Mines, 1972 Annual Report.

CAPSULE GEOLOGY

The Kitsol prospect is located on the west bank of the Kitsault River, 24 kilometres north of Alice Arm. The South Musketeer (103P 019), probably an extension of the Kitsol, lies just across the river

on the east bank. The Kitsol prospect was extensively explored by Dolly Varden Mines in the early 1970's.

The area is underlain by a sequence of volcanic and sedimentary rocks of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline and has been regionally metamorphosed to greenschist facies.

The deposit comprises a stratiform volcanogenic silver-lead-zinc barite exhalite horizon hosted in Hazelton Group andesitic tuffs and breccias that have been variably propylitized, silicified and carbonatized. The horizon strikes north-northeast for 91 metres, dips near vertically, is approximately 5.5 metres wide and has been traced downdip for 107 metres.

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#### **CAPSULE GEOLOGY**

The mineralogy of this deposit is similar to that of the Torbrit (103P  $\,$  191), displaying colliform banded quartz, calcite, barite and jasper mineralized with pyrite, marcasite, galena, minor sphalerite, minor chalcopyrite and traces of pyrargyrite and native silver.

The deposit averages 340 grams per tonne silver over its 91 metre strike length on the surface (Geology, Exploration and Mining in B. C. 1973, p. 489). A 5.5 metre drill hole intersection 107 metres below the surface outcrop assayed 546.1 grams per tonne silver (Property File - Dolly Varden Mines 1972 Annual Report).

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EMPR MAP 8
EMPR OF 1986-2
EMPR PF (\*Dolly Varden Mines Ltd. Annual Reports, 1971,1972;
Mitchell, M.A. (1973) Geology Report)
EMR MP CORPFILE (Dolly Varden Mines Ltd.) GSC MAP 307A; 1385A
Devlin, B.D. (1987): Geology and Genesis of the Dolly Varden Silver
Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia M.Sc. Thesis

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/23 FIELD CHECK: N CODED BY: GSB REVISED BY: PSF

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 019 NATIONAL MINERAL INVENTORY: 103P12 Ag9

NAME(S): **SOUTH MUSKETEER**, MUSKETEER

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 41 47 N NORTHING: 6172407 LONGITUDE: 129 30 33 W EASTING: 467996

ELEVATION: 570 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on outcrop of quartz-pyrite vein (Devlin, B.D.

(1987), Figure 3.1).

COMMODITIES: Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Chalcopyrite Pyrargyrite

Argentite Tetrahedrite ASSOCIATED: Quartz Calcite Barite Hematite Jasper

Magnetite Siderite Chlorite COMMENTS: Celestite also present.

ALTERATION: Chlorite
ALTERATION TYPE: Propylitic Quartz Carbonate Epidote

Silicific'n Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Stratabound CLASSIFICATION: Volcanogenic Concordant

Exhalative Polymetallic veins Ag-Pb-Zn±Au TYPE: 105 G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

110 Vein barite

SHAPE: Tabular STRIKE/DIP: 041/62S TREND/PLUNGE:

DIMENSION: 0274 x 0259 x 0004 Metres STRIKE/DIP. COMMENTS: Strike varies from 041 to 048 degrees, dip varies from 62 degrees

southeast and 72 degrees northwest.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesitic Tuff Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1970 Assay/analysis

SAMPLE TYPE: Grab COMMODITY GRADE

822.7000 Silver Grams per tonne

COMMENTS: Assay values of surface sampling were between 0.3 to 822.7 grams

per tonne silver. REFERENCE: George Cross Newsletter #147, 1970, page 2.

**CAPSULE GEOLOGY** 

The South Musketeer occurrence lies on the east bank of the Kitsault River, 24 kilometres north of Alice Arm. The area has been explored since 1916 for its silver-lead-zinc mineralization.

The area is underlain by a sequence of volcanic and sedimentary rocks belonging to the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. sequence is folded into a doubly plunging, north-northwest trending syncline (the Kitsault River syncline) and has been regionally metamorphosed to greenschist facies.

The showing comprises a volcanogenic silver-zinc-lead barite exhalative deposit hosted in propylitic, silica and carbonate altered

andesitic tuffs of the Hazelton Group. The deposit strikes between 041 and 048 degrees and dips are PAGE:

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

variable between 62 degrees southeast and 72 degrees northwest.

metres with an average width of 3.7 metres.

The mineralogy of the South Musketeer is similar to the Torbrit (103P 191) and Moose-Lamb (103P 008) deposits. Mineralization consists of pyrite, sphalerite, galena with minor chalcopyrite and traces of pyrargyrite argentite and tetrahodrite in a capture of traces of pyrargyrite, argentite and tetrahedrite in a gangue of quartz, calcite, barite, celestite, hematite, jasper, siderite, magnetite and chlorite. Surface sampling resulted in assay values between 0.3 to 822.7 grams per tonne silver (George Cross Newsletter #147, 1970).

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EMPR OF 1986-2
EMPR PF (Mitchell, M.A. (1973) Geology Report; Dolly Varden Mines
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GSC MAP 307A; 1385A GCNL #147, 1970 W MINER Aug. 1970 Devlin, B.D. (1985): Geology and Genesis of the Dolly Varden Silver Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia, M.Sc. Thesis

DATE CODED: 1986/04/02 DATE REVISED: 1989/04/29 CODED BY: GD REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 019

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 020

NATIONAL MINERAL INVENTORY: 103P12 Au1

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REPORT: RGEN0100

955

NAME(S): **MASTODON**, MAST

STATUS: Showing REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103P12W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 37 32 N NORTHING: 6164682 LONGITUDE: 129 46 47 W EASTING: 450902

ELEVATION: 183 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location based on north adit on Mastodon 2 claim (Minister of

Mines Annual Report 1934, page B13).

COMMODITIES: Gold Silver 7inc I ead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena

ASSOCIATED: Quartz COMMENTS: Quartz occurs as erratic veins, veinlets, patches and blebs. ALTERATION: Silica

ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein **Epigenetic** 

CLASSIFICATION: Hydrothermal Replacement TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au 102 Intrusion-related Au pyrrhotite veins

COMMENTS: Siliceous replacement zone trends northwest.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Undefined Group Undefined Formation Coast Plutonic Complex Eocene

LITHOLOGY: Meta Sediment/Sedimentary

Granite Intrusive

HOSTROCK COMMENTS: Mineralized zone hosted in metasedimentary rocks within granitic

Coast Plutonic rocks.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Rocks COMMENTS: Situated at the eastern margin of the Coast Plutonic Complex.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YEAR: 1935 Assay/analysis

**GRADE** COMMODITY

Silver 3.4000 Grams per tonne Gold 11.0000 Grams per tonne

COMMENTS: Sample taken over 0.46 metre.

REFERENCE: Minister of Mines Annual Report 1934, page B13.

CAPSULE GEOLOGY

The Mastodon showing is located east of Hastings Arm approximately 19 kilometres north of Anyox on Observatory Inlet. has been evaluated in the past for gold and silver mineralization.

The showing consists of a siliceous replacement zone 0.3 to 1.8 metres wide in a 30 to 60 metre wide belt of Lower Jurassic metasedimentary rocks hosted in granitic rocks of the Coast Plutonic Complex. This zone trends northwest for 820 metres between elevations of 120 and 260 metres on the north side of Granite Creek. The zone consists of erratic veins, veinlets, patches and blebs of quartz mineralized in places with pyrite, and less frequently with sphalerite and minor galena. Mineralization is best developed in the central part of the zone at an elevation of 180 metres. Trenching and stripping revealed that this zone continues across Granite Creek to the southeast.

Precious metal assays range from trace gold and silver over 1.5 metres to 11.0 grams per tonne gold and 3.4 grams per tonne silver over 0.46 metre (Minister of Mines Annual Report 1934, page B13).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1989/01/27 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 021

NAME(S): HIDDEN CREEK, ANYOX, ANYOX MINE, NUMBER 1-8, RUDGE (L.481), REVENGE (L.482), DONALD (L.483), MCKINLEY (L.484), MANSON (L.485) ALPHA (L.486), GAMMA (L.480), NÓRTH HIDDEN CREÉK, WEST SHEAR

STATUS: Past Producer Open Pit Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05W

BC MAP:

LATITUDE: 55 26 21 N LONGITUDE: 129 49 27 W ELEVATION: 0122 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Centre of the "glory hole" pit on the Number 1 orebody, (Sharp, R.J.

(1980)).

COMMODITIES: Copper Gold Silver Cobalt Zinc

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite Sphalerite

ASSOCIATED: Quartz Chlorite Actinolité Calcite Tremolite Hornblende Biotite Sericite

COMMENTS: Gangue minerals also include epidote and albite.

ALTERATION: Chlorite
ALTERATION TYPE: Chloritic

MINERALIZATION AGE: Triassic-Jurassic

**DEPOSIT** 

CHARACTER: Stratiform Massive Stockwork CLASSIFICATION: Volcanogenic Hydrothermal **Epigenetic** 

TYPE: G05 Cyprus massive sulphide Cu (Zn)

SHAPE: Tabular

MODIFIER: Folded Faulted

DIMENSION: 500 x 400 x 76 STRIKE/DIP: TREND/PLUNGE: Metres COMMENTS: Number 1 zone (main orebody) strikes north to northeast and dips 50 to

90 degrees west. The age of mineralization is the same as the host

rock.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Upper Triassic Undefined Formation Bowser Lake

LITHOLOGY: Chert

Actinolite Chlorite Schist Chlorite Schist Basaltic Tuff Tholeiitic Pillow Basalt Chlorite Meta Basalt

HOSTROCK COMMENTS: Fossil age reported in GSC Open File 3454 (1997).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine
METAMORPHIC TYPE: Regional Wrangell RELATIONSHIP: GRADF: Greenschist

COMMENTS: Situated in a roof pendant in the Coast Plutonic Complex.

INVENTORY

ORE ZONE: ANYOX REPORT ON: Y

> CATEGORY: Indicated YEAR: 1992

QUANTITY: 24221840 Tonnes COMMODITY **GRADE** 

Silver 10.3000 Grams per tonne 0.1700 Grams per tonne Gold

1.0800 Per cent Copper COMMENTS: Indicated open pit reserves by Beacon Hill Consultants Ltd.

REFERENCE: GCNL No.21 (February 1), 1993 and Report by Taiga Consultants Ltd.

CAPSULE GEOLOGY

The Hidden Creek (Anyox) mine, near Observatory Inlet and just west of Granby Bay, was a major copper producer between 1914 and

> MINFILE NUMBER: 103P 021

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6143972 EASTING: 447857

NATIONAL MINERAL INVENTORY: 103P5 Cu4

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

1936.

The area is underlain by the western margin of a 14.4 by 9.6 kilometre roof pendant within the Tertiary-Jurassic Coast Plutonic Complex. Recent geochronology and fossil research by the Geological Survey of Canada have helped define the age of the pendant. These pendant rocks have been correlated with Lower to lower Middle Jurassic Hazelton Group rocks and overlying upper Middle to Upper Jurassic Bowser Lake Group sedimentary rocks (GSC Open File 3454). The Hazelton rocks consist of variably chloritized pillowed and massive basalt with minor mafic tuffs. The overlying Bowser Lake sediments consist of siltstone and sandstone with minor chert and limestone.

There are two observable phases of folding in the area, an initial north-northeast trending phase followed by a later east-northeast trending phase.

The Anyox deposit consists of eight distinct massive sulphide bodies, numbered 1 to 8, and a quartz vein stockwork containing disseminated sulphides. The underlying volcanics consist of tholeiitic pillow basalts and basaltic tuffs, with the frequency of tuff lenses and layers increasing upwards through the sequence. Chloritization, quartz veining and sulphide impregnation also increases upwards. A chert horizon, followed by a turbidite sequence of quartzofeldspathic silt and pelite metamorphosed to argillite, overlies the volcanics and massive sulphides.

The structure is dominated by an asymmetrical overturned anticline/syncline pair. The Number 1, 4, 5, 6, 7 and 8 orebodies occur along the volcanic/sediment contact, around the nose of the anticline which plunges north at 30 degrees. The Number 2 and 3 orebodies occur in volcanics, 30 to 100 metres west of the volcanic/sediment contact, on the west limb of a north plunging assymetrical fold. A north striking, steeply east dipping fault separates the Number 2 and 3 orebodies, which formed a single body before being displaced 90 metres vertically and 60 metres horizontally. The Number 2 and 3 orebodies strike north and dip steeply to the east and the Number 1 body strikes north to northeast and dips 50 to 90 degrees to the west. The dimensions of the massive sulphide bodies range from 500 by 400 by 76 metres for the Number 1 deposit to 150 by 100 by 21 metres for the Number 6 deposit.

Two types of massive sulphide bodies are distinguished at Anyox. The more common type, which includes the Number 1, 4, 5, 6, 7 and 8 orebodies, consists of stratiform tabular to elongate massive sulphide orebodies interbedded with cherty metasediments on the volcanic/sediment contact. Mineralization consists primarily of pyrite and lesser pyrrhotite with chalcopyrite and sphalerite occurring as fine disseminations or as massive layers and lenses within the pyrite and pyrrhotite. The sulphides form massive layers up to 75 metres thick. Gangue minerals consist of quartz, chlorite, actinolite, tremolite, calcite, biotite and sericite.

The Number 2 and 3 orebodies characterize the second type which consists of massive stratabound layers and lenses of sulphides in basaltic tuff. The tuff has been altered to chlorite or chlorite-actinolite schist. Mineralization consists of massive pyrrhotite, variable amounts of chalcopyrite and minor pyrite. The mineralization forms layers, lenses and disseminations in the tuff. Gangue minerals consist of quartz, chlorite, actinolite, hornblende, epidote and albite.

West of the Number 2 and 3 deposits, a stockwork of epigenetic quartz veins forms a low grade, unmined and poorly defined copper orebody. Mineralization consists of pyrrhotite, chalcopyrite, minor pyrite and trace sphalerite occurring as disseminations and blebs in chloritized metabasalt and quartz veins.

chloritized metabasalt and quartz veins.

Between 1914 and 1936, 21,725,524 tonnes of copper ore were produced from the Number 1 to 6 bodies. The average grade was 1.4 per cent copper, 0.17 gram per tonne gold and 9.5 grams per tonne silver.

The North Hidden Creek showing, located 300 metres north of the mine, consists of two massive sulphide intersections obtained from 1982 drilling. The intersections occur above the basalt/argillite contact in hanging wall sedimentary rock units. A 6.1-metre intersection in Hole 82-9 assayed 2.5 per cent copper, 0.5 per cent zinc, 1.7 grams per tonne gold and 99.4 grams per tonne silver (Report by Taiga Consultants Ltd., 1992).

In 1983, Wright Engineers Limited estimated remaining ore reserves at Hidden Creek to be 77 million tonnes grading 0.55 per cent copper equivalent. In the same year Cominco computerized the data and calculated a potential mineralized ore reserve, to a depth of 60 metres, of 45,360,000 tonnes grading 0.60 per cent copper, with a cutoff of 0.2 per cent copper (Report by Taiga Consultants Ltd., 1992).

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

In 1988, Glanville Management Ltd. concluded that open pit reserves present were 10.9 to 13.6 million tonnes, grading 0.70 to 0.75 per cent copper, with gold and zinc grades (Report by Taiga Consultants Ltd., 1992). This report and Assessment Report 23528 have a good summary and history of exploration in the Anyox area. In 1992, Beacon Hill Consultants Ltd. outlined an indicated open pit reserve of 24,221,840 tonnes grading 1.08 per cent copper, 0.17 gram per tonne gold and 10.3 grams per tonne silver (George Cross News Letter No. 21 (February 1), 1993 and Report by Taiga Consultants Ltd., 1992).

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 022 NATIONAL MINERAL INVENTORY: 103P5 Cu4

NAME(S): GRANBY POINT, RESERVE QUARTZ, QUARTZ POINT, QUARTZ, QUARTZ NO.1-5 L.1535-6;1679-80, QUARTZ NO. 1 FR. (L.3587)

STATUS: Past Producer Open Pit Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 24 37 N LONGITUDE: 129 47 29 W NORTHING: 6140733 EASTING: 449894

ELEVATION: 0003 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of main portal entrance (Assessment Report 14484,

Figure 5).

COMMODITIES: Gold Silica Silver Lead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Chalcopyrite Pyrr COMMENTS: These sulphides occur as disseminations and blebs in quartz veins. Pyrrhotite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Stratabound

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: I05 Polym Industrial Min.

Intrusion-related Au pyrrhotite veins 107 Silica veins

DIMENSION: 0004 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Veins, up to 4 metres thick, dip gently southeast, not exceeding

40 degrees.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Undefined Formation** Jurassic Hazelton

Upper Triassic Undefined Formation Kunga

LITHOLOGY: Argillite

HOSTROCK COMMENTS: Quartz veins are hosted in argillite of either Hazelton or Kunga

groups.

**GEOLOGICAL SETTING** 

ONIC BELT: Coast Crystalline TERRANE: Stikine TECTONIC BELT: PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Wrangell

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist

COMMENTS: Situated in a roof pendant within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/an SAMPLE TYPE: Drill Core YEAR: 1988 Assay/analysis

**COMMODITY** GRADE

Silver 200.2000 Grams per tonne Cold 2.7000 Grams per tonne

COMMENTS: A 3-metre intersection in the area of the Granby Point and Reserve

veins. REFERENCE: Property File - Fox, J.S. (1988).

**CAPSULE GEOLOGY** 

The Granby Point mines are located on the northern end of Granby Peninsula on Observatory Inlet, approximately 1.5 kilometres east of Anyox. Gold and silver bearing quartz veins were mined periodically between 1915 and 1935 as a source of silica flux. Two underground mines were developed, the Reserve Quartz mine at Granby Point on the northern tip of Granby Peninsula and the more extensive Granby Point Quartz mine 500 metres southeast of the Reserve Quartz mine along the eastern shore of the Granby Peninsula.

The Anyox region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group (Grove, T. 1986), but have also been correlated with the Upper Triassic Kunga Group sediments and Karmutsen Formation (Vancouver

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Group) volcanics (Sharp, R.J.,1980).

The volcanics consist of variably chloritized pillow and massive andesite and basalt with minor mafic tuffs. The overlying sediments consist of argillite, siltstone and sandstone with minor chert and limestone.

There are two observable phases of folding in the area, an initial north-northeast trending phase followed by a later east-northeast trending phase.

The Granby Point and Reserve Quartz mines are developed in the same vein system. Quartz veins ranging from a few centimetres to 4 metres thick are developed along bedding planes in argillite. The argillite and quartz veins dip gently to the southeast with dips averaging 20 degrees and never exceeding 40 degrees. Numerous quartz stringers extend for up to 10 metres into the hangingwall of the

Mineralization consists of pyrite, sphalerite and galena with traces of chalcopyrite and pyrrhotite. The mineralization occurs as disseminations and blebs scattered erratically through the quartz veins and more commonly along the margins. Gold is associated with pyrite and chalcopyrite and silver is associated with sphalerite.

The Granby Point mine contains a small unexploited mass of moderately sulphide-rich, potentially high grade, vein material in the southwestern part of the mine area. The mine area is mainly dry and stable. The probable extension of the vein is the Quarry vein system, 50 to 150 metres south of the mine portal.

The Reserve vein is hosted by black argillite and silstone. It is estimated that 20 to 25 per cent of the vein system remains largely in the form of pillars. The ground at the mine is unstable and underground examination difficult. A sample taken across 0.75metres assayed 699.3 grams per tonne silver and 4.97 grams per tonne gold (Property File - Fox, J.S., 1988). The probable extension of this vein, Jean's vein, was located 200 metres south of the mine portal. Surface grab samples assayed up to 1.16 grams per tonne gold

and 6.4 grams per tonne silver (Property File - Fox, J.S., 1988).

The mines periodically supplied the copper smelter at Anyox with silica flux. Between 1915 and 1938, 121,245 tonnes (production records for 1918 include some production from the Macy mine - 103P 112), with an average grade of 2.33 grams per tonne gold and 85.7grams per tonne silver, were mined (Property File - Burton, A., 1987). Mineral Policy records state that 79 kilograms of copper and 429 kilograms of lead were produced from 1936 to 1938. The adits of the Reserve Quartz mine can only be entered at low tide.

A drill hole intersection across 3.0 metres in the area of the Granby Point and Reserve veins assayed 2.7 grams per tonne gold and 200.2 grams per tonne silver ((Property File - Fox, J.S., 1988).

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FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 023 NATIONAL MINERAL INVENTORY: 103P5 Cu5

NAME(S): **BONANZA**, N.W. BONANZA, BONANZA EXTENSION

STATUS: Past Producer Open Pit Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 23 33 N NORTHING: 6138799 EASTING: 446089

LONGITUDE: 129 51 04 W ELEVATION: 0102 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location and elevation determined from main glory hole pit (Sharp,

R.J. (1980) Figure 8).

7inc COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrrhotite Pyrite Sphalerite Magnetite COMMENTS: Sulphides disseminated to massive. ASSOCIATED: Quartz Sericite Muscovite Actinolite Tremolite

Hornblende Calcite ALTERATION: Chlorite

Sericite Sericitic

ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

Massive Disseminated

CHARACTER: Stratabound CLASSIFICATION: Volcanogenic Exhalative

TYPE: G05 Cyprus massive sulphide Cu (Zn)

SHAPE: Bladed MODIFIER: Folded

Faulted DIMENSION: 805 x 61 x 12 Metres STRIKE/DIP: 010/30N TREND/PLUNGE:

COMMENTS: The ore body strikes 010 degrees, and dips 0 to 30 degrees

north.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation

Upper Triassic Vancouver Karmutsen

LITHOLOGY: Biotite Chlorite Schist

Chlorite Actinolite Schist Chlorite Muscovite Biotite Schist Quartz Biotite Actinolite Schist Basaltic Crystal Tuff Pelitic Sediment/Sedimentary

Greenstone

Tholeiitic Pillow Basalt

HOSTROCK COMMENTS: Host rocks consist of basaltic tuff and pelitic sediments altered to

schist, belonging to either the Hazelton Group or the Karmutsen Fm.

**GEOLOGICAL SETTING** 

ONIC BELT: Coast Crystalline TERRANE: Stikine PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) TECTONIC BELT:

Wrangell METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Greenschist

COMMENTS: Situated in a roof pendant within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: BONANZA REPORT ON: Y

CATEGORY: Unclassified YEAR: 1993

QUANTITY: 10620 Tonnes

COMMODITY **GRADE** 

Silver 13.7100 Grams per tonne Gold 0.1600 Grams per tonne Copper 1.7600 Per cent

COMMENTS: Compiled from original Granby and Cominco files. REFERENCE: Report by Taiga Consultants Ltd., 1992.

CAPSULE GEOLOGY

The Bonanza mine, located just west of Granby Bay on Observatory

Inlet, is a former copper, silver and gold producer.

The region is underlain by a sequence of volcanics and

sediments, which form a 10 by 15 kilometre roof pendant in the Coast

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group (Grove, T. 1986), but have also been correlated with the Upper Triassic Kunga Group sediments and Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J. (1980), M.Sc. Thesis).

The volcanics consist of massive and pillow andesitic to

The volcanics consist of massive and pillow andesitic to basaltic flows with minor mafic tuff. These have been altered and chloritized to greenstone as a result of regional greenschist metamorphism. The overlying sediments consist of argillite, siltstone, sandstone, minor limestone and chert. These rocks have been subjected to an initial north-northeast trending phase of folding followed by a later east-northeast trending phase.

The deposit is situated on the western limb of a northeast trending broad anticlinal fold (the Bonanza/Hidden Creek Anticline). The deposit forms a flattened cylindrical body 805 metres long, 61 metres wide and 9 to 12 metres thick trending 010 degrees. It lies near horizontal to the south, but gradually steepens northward toward a normal fault, dipping up to 30 degrees north. The fault strikes northwest, dips 50 degrees northeast and truncates the north end of the deposit.

The ore body consists of massive to disseminated layers and lenses of sulphides hosted in a zone of altered basaltic tuff and minor pelitic sediments. The host rocks, up to 84 metres thick, occur within a sequence of tholeiitic pillow lavas. In the sulphide rich strata, the host rocks have been variably chloritized, sericitized and saussuritized. Due to the foliated nature of the host rocks, the deposit was previously described as being hosted in a shear zone (Geological Survey of Canada Memoir 175).

Mineralization occurs as massive to disseminated crudely bedded layers of chalcopyrite, pyrite, sphalerite and quartz (up to a metre thick) and as disseminated chalcopyrite and pyrrhotite, minor pyrite and magnetite in schists. Gangue minerals consist of quartz, sericite, muscovite, actinolite, tremolite, hornblende and calcite.

Between 1928 and 1935, 656,974 tonnes of ore with an average

Between 1928 and 1935, 656,974 tonnes of ore with an average grade of 0.13 grams per tonne gold, 13.31 grams per tonne silver and 2.17 per cent copper were mined.

Remaining reserve estimates vary from 226,800 tonnes grading 1.0 per cent copper (National Mineral Inventory card 103P5 CU5) to 65,116 tonnes (Property File: Sargent, H. (1942) Report). The remaining reserves have more recently been classified as insignificant (Dr. W. J. Wolfe Comingo Ltd. Personal Communication 1989)

J. Wolfe, Cominco Ltd., Personal Communication, 1989).
Reserve statistics compiled from original Granby and Cominco files by Taiga consultants of Calgary are 10,620 tonnes grading 1.76 per cent copper, 0.16 gram per tonne gold and 13.71 grams per tonne silver (Report by Taiga Consultants Ltd., 1992). This report and Assessment Report 23582 has a good summary and history of exploration of the Anyox area.

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 024 NATIONAL MINERAL INVENTORY: 103P5 Cu1

NAME(S): REDWING, RED, RED WING

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P05W BC MAP:

LATITUDE: NORTHING: 6137560 129 53 13 W LONGITUDE: EASTING: 443803

ELEVATION: 0518 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of two closely spaced adits (Property File - Alldrick, D.

1986 Anyox Map).

Gold COMMODITIES: Copper Silver 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite Sphalerite

COMMENTS: Sulphides are disseminated to crudely banded.

ASSOCIATED: Pyrite
ALTERATION TYPE: Chloritic Pyrrhotite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Disseminated CLASSIFICATION: Volcanogenic Exhalative

TYPE: G05 DIMENSION: 15 Cyprus massive sulphide Cu (Zn) STRIKE/DIP: 173/60F TREND/PLUNGE: Metres

COMMENTS: Attitude given for zone, up to 15 metres wide, exposed in Number

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Hazelton

Upper Triassic Vancouver Karmutsen

LITHOLOGY: Chlorite Schist Biotite Schist

Pillow Andesite Volcanic Breccia Greenstone

HOSTROCK COMMENTS: Deposit hosted in chlorite to biotite schist, within andesitic pillow

flows and volcanic breccia.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine
METAMORPHIC TYPE: Regional Wrangell RELATIONSHIP: Post-mineralization GRADE: Greenschist

COMMENTS: In a roof pendant at the eastern margin of the Coast Plutonic Complex.

INVENTORY

ORE ZONE: REDWING REPORT ON: Y

> CATEGORY: Unclassified YEAR: 1966

QUANTITY: 181440 Tonnes

**GRADE** 

COMMODITY Silver 85.7100 Grams per tonne Gold 1.2000 Grams per tonne Copper 2.0000 Per cent Zinc 2.7000 Per cent

COMMENTS: Compiled from original Granby and Cominco files.

REFERENCE: Report by Taiga Consultants Ltd., 1992.

CAPSULE GEOLOGY

The Redwing deposit is located near the headwaters of Tauw Creek, 3.2 kilometres west of Granby Bay on Observatory Inlet. entrance to the Number 1 adit is located at 594 metres elevation. The property was first staked in 1909 and has been periodically investigated for copper bearing massive sulphides.

The region is underlain by a sequence of volcanics and sediments, which form a 14.4 by 9.6 kilometre roof pendant in the Coast Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group (Grove, T. 1986), but have also been

correlated with the Upper Triassic Kunga Group (Sharp, 1980)

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UTM ZONE: 09 (NAD 83)

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

sediments and Karmutsen Formation (Vancouver Group) volcanics.
The volcanics consist of massive and pillow andesitic to basaltic flows with minor mafic tuff. These have been altered and chloritized to greenstone as a result of regional greenschist metamorphism. The overlying sediments consist of argillite, siltstone, sandstone, minor limestone and chert. These rocks have been subjected to an initial north-northeast trending phase of folding followed by a later east-northeast trending phase.

folding followed by a later east-northeast trending phase.

The deposit consists of two mineralized bands within a north trending, steeply east dipping, 18 to 30 metre wide zone. The zone, traced for 61 metres along strike, occurs in altered andesitic pillow flows and volcanic breccia located 120 metres west of the volcanic/argillite contact. The zone exposed in the Number 1 adit strikes 173 degrees, dips 60 degrees east and is up to 15 metres wide. The second zone strikes north and dips steeply east.

Mineralization consists of pyrite, pyrrhotite, chalcopyrite and minor sphalerite occurring as disseminations to crude massive bands in chlorite to biotite schist. The shear is cut by two east-west trending steeply dipping lamprophyre dykes up to 2.5 metres wide.

Reserves were initially reported as 181,440 tonnes grading 2.0

Reserves were initially reported as 181,440 tonnes grading 2.0 per cent copper (Northern Miner April 6, 1967). The grade was revised to 1.84 per cent copper and includes 29.5 grams per tonne silver (Bow River Resources Ltd. Statement of Material Facts, July 11, 1971).

Reserve statistics compiled from original Granby and Cominco files are 181,440 tonnes grading 2.0 per cent copper, 2.7 per cent zinc, 1.2 grams per tonne gold and 85.71 grams per tonne silver (Report by Taiga Consultants Ltd., 1992).

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EMPR ENG INSP (Mine Plans: #61370, Oct. 1966)

EMPR EXPL 1982-372

EMPR FIELDWORK 1985, pp. 211-216; 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1971-120; 1972-503,504

EMPR MAP 8

EMPR OF 1999-2

EMPR PF (\*White, L.G. (1963) Report; Alldrick, D. (1986) Anyox Map; Taiga Consultants Ltd. (1992): Geological, Geochemical and Geophysical Report on the Anyox Property in 103P 021)

EMR MIN BULL MR 223 B.C. 302

GSC MAP 307A; 315A; 1385A

GSC MEM 32, p. 91; 175, p. 103

GCNL Mar. 27, 1967

N MINER Apr. 6, 1967

SMF Bow River Resources Ltd., July 11, 1971

Sharp, R.J. (1980): \*The Geology, Geochemistry & Sulphur Isotopes of the Anyox Massive Sulphide Deposits, University of Alberta

M.Sc. Thesis

EMPR OF 1998-10

DATE CODED: 1985/07/24 DATE REVISED: 1989/01/30 CODED BY: GSB REVISED BY: PSF

MINFILE NUMBER: 103P 024

FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 025 NATIONAL MINERAL INVENTORY: 103P5 Cu6

NAME(S): DOUBLE ED, NUMBER 1, NUMBER 2

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P05W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 24 42 N LONGITUDE: 129 53 06 W ELEVATION: 0506 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Location and elevation of centre of Number 2 zone outcrop (Sharp, R.J. (1980), Figure 5).

COMMODITIES: Copper 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Sphalerite

COMMENTS: Sulphides massive to banded to disseminated.

ASSOCIATED: Quartz
ALTERATION: Chlorite
ALTERATION TYPE: Chloritic **Biotite** Chlorite Albite Magnetite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratabound Massive Disseminated

CLASSIFICATION: Volcanogenic TYPE: G05 Cypru Exhalative

Cyprus massive sulphide Cu (Zn) SHAPE: Bladed

MODIFIER: Folded STRIKE/DIP:

DIMENSION: 0400 x 0210 x 0012 Metres TREND/PLUNGE: COMMENTS: Number 1 zone on east limb of anticline plunging 70 degrees south.

HOST ROCK
DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton **Undefined Formation** Jurassic

Upper Triassic Vancouver Karmutsen

LITHOLOGY: Chlorite Schist

**Biotite Schist** Quartzite Basaltic Tuff Chlorite Pillow Basalt

Deposit is hosted in chloritized pillow basalts and basaltic pyro-HOSTROCK COMMENTS:

clastics with minor pelitic to siliceous sediments.

**GEOLOGICAL SETTING** TECTONIC BELT: Coast Crystalline

TERRANE: Stikine Wrangell RELATIONSHIP: METAMORPHIC TYPE: GRADF: Greenschist Regional

COMMENTS: Situated in a roof pendant within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: DOUBLE ED REPORT ON: Y

> CATEGORY: Combined YFAR: 1960

> 1977666 Tonnes QUANTITY:

> COMMODITY **GRADE** Copper 1.3000 Per cent Zinc 0.6000 Per cent

COMMENTS: Includes 1,229,236 tonnes indicated and 748,430 inferred. Compiled

from original Granby and Cominco files. REFERENCE: Report by Taiga Consultants Ltd., 1992.

CAPSULE GEOLOGY

The Double Ed deposit is located 3 kilometres west of Granby Bay

on Observatory Inlet.

The region is underlain by a sequence of volcanics and sediments, which form a  $14.4~\rm by~9.6~kilometre~roof~pendant~in~the~Coast$ Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group, but have also been correlated with the Upper Triassic Kunga Group sediments and the Karmutsen Formation (Vancouver Group)

volcanics (Sharp, R.J. (1980), M.Sc. Thesis).

The volcanics consist of massive and pillow andesitic to

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

basaltic flows with minor mafic tuff. These have been altered and chloritized to greenstone as a result of regional greenschist metamorphism. The overlying sediments consist of argillite, siltstone, sandstone, minor limestone and chert. These rocks have been subjected to an initial north-northeast trending phase of folding followed by a later east-northeast trending phase.

The deposit occurs in a sequence of chloritized pillow basalts, basaltic pyroclastics and minor pelitic to siliceous sediments near a major volcanic/sediment contact. The deposit comprises two distinct ore bodies, the Number 1 and 2 bodies. The Number 1 deposit forms a tabular sheet  $400\ \mathrm{by}\ 150\ \mathrm{to}\ 210\ \mathrm{by}\ 12$  metres and is situated on the east limb of an anticline that plunges 70 degrees to the south. The Number 2 deposit occurs on the west limb of this same anticline, is more irregular in form, and extends down dip for 175 metres. The north ends of both deposits terminate against a northeast trending steeply dipping fault.

The mineralized horizon consists of volcanogenic, stratabound massive to banded to disseminated pyrite, pyrrhotite, minor chalcopyrite and sphalerite. Mineralization is hosted in basaltic tuffs and silicious to pelitic sediments that have been altered to chlorite schist and quartzite to biotite schist respectively. Gangue minerals consists of quartz and biotite, with subordinate chlorite, albite and magnetite.

The Double Ed deposits, discovered by prospecting in 1952, were tested by 6400 metres of surface drilling (25 holes) in 1953 and 1954; and by adit cross cut and 4335 metres of underground drilling (33 holes) in 1959 and 1960. The two zones combined show a drillindicated resource of 1,229,236 tonnes of 1.3 per cent copper and 0.6 per cent zinc; and a drill-inferred resource of 748,430 tonnes of 1.3 per cent copper and 0.6 per cent zinc. The zones remain open to depth with scope for further limited tonnage of similar grade (Report by Taiga Consultants Ltd., 1992). This report and Assessment Report 23528 has a good summary and history of exploration in the Anyox area.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/01/30 REVISED BY: PSF FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 026

NATIONAL MINERAL INVENTORY: 103P5 Cu9

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REPORT: RGEN0100

968

EDEN, ED, SOUTH EDEN, NAME(S):

NORTH EDEN

STATUS: Developed Prospect MINING DIVISION: Skeena

BC MAP:

REGIONS: British Columbia NTS MAP: 103P05W UTM ZONE: 09 (NAD 83)

LATITUDE: 55 28 05 N LONGITUDE: 129 53 06 W ELEVATION: 0700 Metres

LOCATION ACCURACY: Within 500M COMMENTS: This location is for the larger better exposed, South Eden zone.

The North Eden zone is a few hundred metres to the north. Some details found in this description are from unpublished data collected by B.C. Geological Survey geologist D.J Alldrick in the mid 1990s.

COMMODITIES: Copper Zinc

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Sphalerite

ASSOCIATED: Quartz

MINERALIZATION AGE:

DEPOSIT

CHARACTER: Massive Disseminated Vein Shear

CLASSIFICATION: Hydrothermal **Epigenetic** SHAPE: Tábular

COMMENTS: The Eden are parallel sulphide-bearing quartz veins.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation Middle Jurassic **Bowser Lake** Undefined Formation

DATING METHOD: Fossil MATERIAL DATED: Ammonite

LITHOLOGY: Pillow Basalt

Diorite Dike

HOSTROCK COMMENTS: Bowser Lake Group fossil date reported in Open File 3454 (1997).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine
METAMORPHIC TYPE: Regional Wrangell RELATIONSHIP: Post-mineralization GRADE: Greenschist

COMMENTS: Situated in a roof pendant within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: LOWER REPORT ON: Y

> CATEGORY: Indicated YFAR: 1954

122470 Tonnes

QUANTITY: COMMODITY **GRADE** Copper Per cent 1.3000 1.3000 Per cent

Zinc 1.30 COMMENTS: Compiled from original Granby and Cominco files.

REFERENCE: Report by Taiga Consulants Ltd., 1992.

REPORT ON: Y ORE ZONE: UPPER

> CATEGORY: YEAR: 1954 Indicated

> QUANTITY: 36287 Tonnes

COMMODITY Copper Per cent 1.9000 Zinc 2.9000 Per cent

COMMENTS: Compiled from original Granby and Cominco files. REFERENCE: Report by Taiga Consultants Ltd., 1992.

**CAPSULE GEOLOGY** 

The Eden deposit is located 2 kilometres west of the centre of Upper Dam Lake (Anyox Creek), and 7 kilometres northeast of the Anyox smelter. The Eden area was explored for copper in the early 1950's.

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex.

MINFILE NUMBER: 103P 026

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

Recent geochronology and fossil research by the Geological Survey of Canada have helped define the age of the pendant. These pendant rocks have been correlated with Lower to lower Middle Jurassic Hazelton Group rocks and overlying upper Middle to Upper Jurassic Bowser Lake Group sedimentary rocks (GSC Open File 3454). The Hazelton rocks consist of variably chloritized pillowed and massive basalt with minor mafic tuffs. The overlying Bowser Lake sediments consist of siltstone and sandstone with minor chert and limestone.

There are two observable phases of folding in the area, an initial north-northeast trending phase followed by a later east-northeast trending phase.

The Eden deposit occurs as two parallel sulphide-bearing quartz veins which occur within two major parallel shear zones which cut pillowed basalt. On average, the shears strike 005 degrees and dip 45 degrees west. Many minor quartz veinlets are buckled and disrupted by the shear zones. Pyrite, pyrrhotite and chalcopyrite with minor sphalerite occur as massive sulphides in thick laminae within the sheared rock.

The floor of the nearby creek to the west exposes a 6-metre thick dike of massive unsheared fine-grained diorite. This dike is intruded along the mineralized shear. It could post-date mineralization or it may be the cause of the sulphide and silica mineralization.

The Eden deposit, discovered by prospecting in 1952, was tested by 1277 metres of drilling in 1954. The two distinct subparallel zones, 15 metres apart, contain a drill-indicated resource of 158,757 tonnes grading 1.3 per cent copper and 1.9 per cent zinc. The lower (southwestern) quartz vein (also known as the Lower Lens or South Eden zone) is 1.5-metres thick and contains 122,470 tonnes of 1.3 per cent copper and 1.3 per cent zinc; the upper (northeastern) quartz vein (also known as the Upper Lens or North Eden zone) is 0.5-metre thick and contains 36,287 tonnes of 1.9 per cent copper and 2.9 per cent zinc (Report by Taiga Consultants Ltd., 1992). This report and Assessment Report 23528 has a good summary and history of exploration in the Anyox area.

A sample collected from existing prospecting pits on the Eden showings yielded 2.95 per cent copper, 6.5 per cent zinc, 13 grams per tonne silver, 11 parts per million lead, 15 parts per billion gold and 132 parts per million cobalt (D.J. Alldrick, B.C. Geological Survey, unpublished data, 1998).

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EMPR BULL 63
EMPR FIELDWORK 1985, pp. 211-216; 1988, pp. 233-240; 1990, pp. 235-243
EMPR MAP 8
EMPR MAP 8
EMPR PF (Alldrick, D. (1986) Anyox Map; Taiga Consultants Ltd. (1992): Geological, Geochemical and Geophysical Report on the Anyox Area in 103P 021)
EMR MIN BULL MR 223 B.C. 298
GSC MAP 307A; 1385A
GSC OF 3454
Sharp, R.J., 1980: \*The Geology, Geochemistry & Sulphur Isotopes of The Anyox Massive Sulphide Deposits, University of Alberta, M.Sc.

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1999/01/11 REVISED BY: DJA FIELD CHECK: Y

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 027

NATIONAL MINERAL INVENTORY: 103P5 SiO2

NAME(S): MAY, GOLSKEISH QUARTZ, MAY QUARTZ, BEATRICE, GOLSKEISH QUARRY

STATUS: Past Producer Open Pit Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05W

UTM ZONE: 09 (NAD 83)

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BC MAP: LATITUDE: LONGITUDE: 129 49 41 W

NORTHING: 6134732 EASTING: 447501

ELEVATION: 0033 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit entrance (Property File: Enfield Resources Annual

Report 1982, Figure 3).

COMMODITIES: Gold Silica Silver Zinc Lead

Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Tetrahedrite Pyrrhotite Silver Pyrite Arsenopyrite Galena Gold Chalcopyrite Electrum

COMMENTS: Irregularly distributed in quartz vein.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein CLASSIFICATION: Hydrothermal Industrial Min. **Epigenetic** 

105 TYPE: 101 Au-quartz veins Polymetallic veins Ag-Pb-Zn±Au

Intrusion-related Au pyrrhotite veins TREND/PLUNGE: 107 Silica veins 102 DIMENSION: 2 STRIKE/DIP: 010/55E Metres

COMMENTS: Vein, 1.8 metres wide, strikes 005 to 010 degrees, dips 52 to 55

degrees east.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Undefined Formation Jurassic Upper Triassic **Undefined Formation** Kunga

LITHOLOGY: Black Pyrite Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine METAMORPHIC TYPE: Regional Wrangell RELATIONSHIP: Syn-mineralization GRADE: Greenschist

COMMENTS: Situated in roof pendant within the Coast Plutonic Complex.

**CAPSULE GEOLOGY** 

The Golskeish Quartz mine is located on the south end of Granby Bay on Observatory Inlet about 7 kilometres south of Anyox. Between 1917 and 1929, the mine periodically supplied the copper smelter at Anyox with gold and silver bearing silica flux.

The region is underlain by a roof pendant, consisting of

volcanic and sedimentary rocks, within the Coast Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group (Grove, T. 1986), but have also been correlated with the Upper Triassic Kunga Group sediments and Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J.,1980, M.Sc. Thesis).

The volcanics consist of variably chloritized pillow and massive

andesite and basalt with minor mafic tuffs. The overlying sediments consist of argillite, siltstone and sandstone with minor chert and limestone.

The deposit consists of a  $1.8\ \text{metre}$  wide milky white quartz vein developed parallel to bedding in pyritic black argillite. The vein and enclosing host rocks strike 005 to 010 degrees and dip 52 to 55 degrees east.

Mineralization is irregularly scattered throughout the vein and consists of (in order of decreasing abundance): sphalerite, galena, pyrrhotite, pyrite, arsenopyrite, tetrahedrite, chalcopyrite, native silver, native gold and electrum. Native silver occurs in galena as rounded blebs and native gold occurs in both galena and quartz.

A total of 47,846 tonnes of ore was mined, primarily between 1918 and 1929, producing 149,109 grams of gold, 822,053 grams of silver and 1,676,477 kilograms of silica.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **BIBLIOGRAPHY**

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EMPR ASS RPT 23582

EMPR BC METAL MM00747
EMPR BULL 63
EMPR ENG INSP (Mine Plans - 60648, Jan. 1928)
EMPR FIELDWORK 1985, p. 215; 1988, pp. 233-240; 1990, pp. 235-243
EMPR INDEX 3-198
EMPR MAP 8
EMPR OF 1987-15
EMPR PF (Pell, J. (1982) Silica Prospects in the Anyox Area, British
      Columbia; Enfield Resources 1982 Annual Report; Alldrick, D. (1986) Anyox Map; Fox, J.S. (1988): First Summary of Field Work; Taiga Consultants Ltd. (1992): Geological, Geochemical and
Geophysical Report on the Anyox Area in 103P 021) GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 93
GSC SUM RPT *1922, p. 29A
GCNL #168,#186,#196, 1982
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DATE CODED: 1985/07/24 DATE REVISED: 1989/01/31 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 028

 $\begin{array}{ll} \text{NAME(S):} & \textbf{GOLD LEAF}, \text{NABOB, GOLDLEAF,} \\ \hline & \text{HONEYMOON} \end{array}$ 

STATUS: Past Producer Open Pit MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05W

BC MAP:

LATITUDE: 55 22 39 N LONGITUDE: 129 48 40 W

**ELEVATION:** Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of centre of trench, (Property File: Alldrick, D.J.

(1986) Anyox Map).

COMMODITIES: Gold Silver Zinc Lead

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Chalcopyrite Pyrrhotite

Gold

COMMENTS: Hosted within and in hangingwall and footwall of quartz vein.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Stratabound CLASSIFICATION: Hydrothermal **Epigenetic** 

Polymetallic veins Ag-Pb-Zn±Au TYPE: 102 Intrusion-related Au pyrrhotite veins 105 034/53S STRIKE/DIP: DIMENSION: 50 Metres TREND/PLUNGE:

COMMENTS: Attitude of main quartz vein which has been traced for 50 metres and

is up to 0.6 metre wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation Upper Triassic **Undefined Formation** Kunga

LITHOLOGY: Argillite

HOSTROCK COMMENTS: Quartz veins are hosted in argillite of either Hazelton or Kunga

groups.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine
METAMORPHIC TYPE: Regional Wrangell RELATIONSHIP: Syn-mineralization GRADE: Greenschist

COMMENTS: Situated in a roof pendant in the Coast Plutonic Complex.

INVENTORY

ORE ZONE: MAIN REPORT ON: N

> CATEGORY: YEAR: 1938 Assay/analysis

SAMPLE TYPE: Bulk Sample

**GRADE** COMMODITY Silver 148.4000 Grams per tonne Gold 468.6000 Grams per tonne I ead 0.1700 Per cent Zinc 0.6300 Per cent

COMMENTS: Bulk sample of 1.97 cobbed ore from main showing.

REFERENCE: Minister of Mines Annual Report 1938, page B5.

**CAPSULE GEOLOGY** 

The Gold Leaf occurrence is located on the east shore of the Granby Peninsula on Observatory Inlet. Between 1938 and 1940 this prospect was bulk sampled for precious metals hosted in quartz veins.

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group (Grove, T. 1986), but have also been correlated with the Upper Triassic Kunga Group sediments and Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J., 1980, M.Sc. Thesis).

The volcanics consist of variably chloritized pillow and massive andesite and basalt with minor mafic tuffs. The overlying sediments consist of argillite, siltstone and sandstone with minor chert and limestone.

> MINFILE NUMBER: 103P 028

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NATIONAL MINERAL INVENTORY: 103P5 Au1

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

There are two observable phases of folding in the area, an initial north-northeast trending phase followed by a later east-  $\,$ northeast trending phase.

The occurrence consists of quartz veins, a few centimetres to a metre in width, that tend to conform to the bedding of the host argillite. The main showing, located along the shoreline, consists of a 0.05 to 0.6 metre wide vein, traced for 50 metres, that strikes 034 degrees and dips 53 to 60 degrees southeast. A lamprophyre dyke, adjacent to the hangingwall side of the vein, is 0.76 metre wide and has the same attitude. A network of quartz stringers extend from the vein into the footwall.

Mineralization consists of sparse disseminations and small patches of galena, sphalerite, chalcopyrite and pyrrhotite throughout the vein. In the hanging wall and footwall small blebs of gold occur intermixed with galena, sphalerite and pyrite.

Between 1938 and 1940 seven bulk samples ranging from 0.91 to 1,968 kilograms were shipped from the main showing to a government sampling plant in Prince Rupert. The 1968 kilogram sample of cobbed ore averaged 468.6 grams per tonne gold, 148.4 grams per tonne silver, 0.17 per cent lead and 0.63 per cent zinc (Minister of Mines Annual Report 1938, page B5).

#### **BIBLIOGRAPHY**

EMPR AR \*1938-B4-B7,B36,B38; 1939-A56,A67; 1940-A52; 1941-A42; 1947-A96 EMPR BC METAL MM00744 EMPR BULL 63 EMPR FIELDWORK 1985, p. 215; 1988, pp. 233-240; 1990, pp. 235-243 EMPR INDEX 3-197 EMPR MAP 8 EMPR PF (Alldrick, D. (1986) Anyox Map; In 103P 022 - Fox, J.S. (1988): First Summary of Field Work) GSC MAP 307; 1385A Sharp, R.J., 1980: The Geology, Geochemistry & Sulphur Isotopes of The Anyox Massive Sulphide Deposits, University of Alberta, M.Sc.

DATE CODED: 1985/07/24 DATE REVISED: 1989/01/29 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 029

NATIONAL MINERAL INVENTORY: 103P6,5 Pb5

NAME(S): **ARBERARDER** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P06W 103P05E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

974

LATITUDE: 55 28 50 N

NORTHING: 6148383 EASTING: 468434

LONGITUDE: 129 29 58 W ELEVATION: 226 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of showing as described in Minister of Mines Annual Report

1916, page 64 and as shown on map.

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite COMMENTS: Occur sparsely in quartz vein.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I06 Cu±A( Epigenetic

Polymetallic veins Ag-Pb-Zn±Au 5W TREND/PLUNGE: 105 Cu±Ag quartz veins

STRIKE/DIP: 028/65W DIMENSION: COMMENTS: Attitude of vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER Jurassic Bowser Lake **Undefined Formation** 

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional Bowser Lake **RELATIONSHIP:** GRADE: Greenschist

**CAPSULE GEOLOGY** 

The Arberarder occurrence is situated 700 metres west-southwest of the approximate center of the Alice Arm townsite.

The area west and northwest of Alice Arm is underlain by Middle to Upper Jurassic Bowser Lake Group sediments. They dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest trending folds.

The Arberarder showing comprises a 0.76 metre wide quartz vein that strikes 028 degrees and dips 65 degrees west. The vein is hosted in argillite that contains pyritic bands up to 0.36 metres wide. The vein, mineralized with sparse pyrite and chalcopyrite, may be the south extension of the Independent vein (103P 013).

**BIBLIOGRAPHY** 

EMPR AR 1916-64

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2

GSC MAP 307A; 1385A

DATE CODED: 1989/03/23 CODED BY: PSF FIELD CHECK: N DATE REVISED: / / REVISED BY: FIELD CHECK:

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 030

NATIONAL MINERAL INVENTORY: 103P12 Pb5

NAME(S): **B AND C** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

975

LATITUDE: 55 33 04 N LONGITUDE: 129 31 19 W ELEVATION: 305 Metres NORTHING: 6156245 EASTING: 467071

LOCATION ACCURACY: Within 500M

COMMENTS: Location of claims as described in Minister of Mines Annual Report 1916, page 63 and as shown on Geological Survey of Canada Map 315A.

COMMODITIES: Zinc Lead

**MINERALS** 

SIGNIFICANT: Arsenopyrite Pyrrhotite Pyrite Sphalerite Galena

ASSOCIATED: Quartz Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GRO</u>UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Black Siltstone

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the southern end of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The B and C showing is situated on the north side of La Rose Creek (Granite Creek), 8.0 kilometres north-northwest of Alice Arm. The area is underlain by a sequence of volcanic and sedimentary rocks belonging to the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle to Upper Jurassic Bowser Lake Group. The sequence is folded into a north-northwest trending anticline/syncline pair and has been regionally metamorphosed to greenschist facies.

siltstone (argillite) of the Stuhini Group. The siltstone is cut by numerous dykes. Mineralization comprises sparse arsenopyrite, pyrrhotite, pyrite, sphalerite and galena in a gangue of quartz and minor calcite. This showing comprises a 0.15 metre wide quartz vein in black

**BIBLIOGRAPHY** 

EMPR AR \*1916-63

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 53

DATE CODED: 1989/03/28 CODED BY: PSF FIELD CHECK: N DATE REVISED: REVISED BY: FIELD CHECK:

MINFILE NUMBER: 103P 030

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 031

NAME(S): **BLACK BEAR** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P05W BC MAP:

LATITUDE: 55 22 57 N LONGITUDE: 129 50 40 W

ELEVATION: 0300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of centre of Lot 3338 - Black Bear claim (Minister of

Mines Annual Report 1930, page A83.

COMMODITIES: Molybdenum

Copper

**MINERALS** 

SIGNIFICANT: Molybdenite Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork Vein CLASSIFICATION: Hydrothermal TYPE: L05 Porph nermal Epigenetic Porphyry Mo (Low F- type)

COMMENTS: Vein strikes 008 degrees, dips steeply west. Stockwork generally

trends 038 degrees.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE Jurassic Hazelton

Upper Triassic Vancouver

LITHOLOGY: Hornblende Porphyritic Basalt

Massive Basalt

HOSTROCK COMMENTS: The stockwork is hosted in hornblende porphyritic basalt and the molybdenite bearing quartz vein is hosted in massive basalt.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine
METAMORPHIC TYPE: Regional

Wrangell RELATIONSHIP: Syn-mineralization

COMMENTS: Situated in a roof pendant within the Coast Plutonic Complex.

CAPSULE GEOLOGY

The Black Bear showing is located on the west side of Granby Bay on Observatory Inlet just southeast of the Bonanza mine (103P 023). The showing is hosted in a 14.4 by 9.6 kilometre roof pendant within the Coast Plutonic Complex. These rocks belong to either the

FORMATION

Karmutsen

Undefined Formation

Jurassic Hazelton Group or the Upper Triassic Kunga Group sediments and Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J., (1980), M.Sc. Thesis). The pendant consists of variably chloritized, massive and pillow, andesitic to basaltic flows with minor mafic tuffs overlain by a sequence of thin-bedded argillite, dark siltstone, sandstone and minor limestone lenses and chert.

A north-northeast trending phase of folding and a later eastnortheast trending phase of tighter folding deforms these rocks. A 200 metre wide stockwork of irregular lenticular masses, veins and stringers of quartz in hornblende prophyritic basalt contains minor chalcopyrite. The stockwork has a general strike of 038 degrees.

Two hundred metres west of the stockwork, at an elevation of 400 metres, a quartz vein strikes 008 degrees and dips steeply to the west. The vein can be traced for 152 metres and is 3 to 4 metres wide. A 2.5-centimetre wide, 0.6-metre long stringer of molybdenite occurs on the hangingwall.

**BIBLIOGRAPHY** 

EMPR AR \*1930-A83; 1931-A37

EMPR ASS RPT 23582

EMPR BULL 63

EMPR FIELDWORK 1985, p. 212; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR PF (Alldrick, D. (1986) Anyox Map; Taiga Consultants Ltd.

MINFILE NUMBER: 103P 031

PAGE:

NATIONAL MINERAL INVENTORY: 103P5 Cu10

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6137681

EASTING: 446498

IGNEOUS/METAMORPHIC/OTHER

GRADE: Greenschist

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

(1992): Geological, Geochemical and Geophysical Report on the Anyox Area in 103P 021)
GSC MAP 307A; 315A
GSC MEM 175, p. 88

DATE CODED: 1989/01/30 DATE REVISED: 1997/04/07 CODED BY: PSF REVISED BY: DA FIELD CHECK: N FIELD CHECK: Y

MINFILE NUMBER: 103P 031

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 032

NATIONAL MINERAL INVENTORY: 103P1 Cu

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6098569 EASTING: 541386

PAGE:

REPORT: RGEN0100

978

NAME(S): **BELLE VUE** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P01W BC MAP:

LATITUDE: 55 01 56 N LONGITUDE: 128 21 09 W ELEVATION: 450 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location approximate and inferred from description (Energy, Mines and Petroleum Resources Annual Report 1925 p.130).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Malachite

COMMENTS: Malachite assumed.

ASSOCIATED: Quartz ALTERATION: Malachite ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

105 Polymetallic veins Ag-Pb-Zn±Au TYPE: 106 Cu±Ag quartz veins STRIKE/DIP: 345/85W DIMENSION: 0001 Metres TREND/PLUNGE:

COMMENTS: Veins are up to 1.2 metres wide, strike 345 degrees and dip steeply

west.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic Bowser Lake Undefined Formation

LITHOLOGY: Quartzite

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Nass Depression

TERRANE: Bowser Lake Stikine

**CAPSULE GEOLOGY** 

The Belle Vue showing is located on the west side of the Skeena River, approximately  $4.8\ \mathrm{kilometres}$  northwest of Cedarvale.

The area is underlain by sediments of the Middle to Upper Jurassic Bowser Lake Group, which are intruded by Tertiary (and possibly younger) granitic Coast Plutonic Complex rocks.

A number of quartz veins, 0.3 to 1.2 metres in width, occur in quartzite. The veins strike 345 degrees and dip steeply west. A quartz vein is reported to exhibit copper staining (malachite?) over 1.2 metres. Assay results from a sample of this vein were negative.

**BIBLIOGRAPHY** 

EMPR AR \*1925-130 EMPR BULL 63; 64

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

GSC MAP 36-17; 1385A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: DEJ DATE REVISED: 1989/12/21 FIELD CHECK: N

MINFILE NUMBER: 103P 032

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 033

NATIONAL MINERAL INVENTORY: 103P1 Cu

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6101093 EASTING: 543545

PAGE:

REPORT: RGEN0100

979

NAME(S): SUNSET

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P01W BC MAP:

LATITUDE: 55 03 17 N

LONGITUDE: 128 19 06 W ELEVATION: 366 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of showing inferred from description (Energy, Mines and

Petroleum Resources Annual Report 1929 p.154).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I06 Cu±A Epigenetic

105 Polymetallic veins Ag-Pb-Zn±Au Cu±Ag quartz veins STRIKE/DIP: DIMENSION: 320/80W TREND/PLUNGE:

COMMENTS: Attitude of quartz-calcite vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Bowser Lake **FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Jurassic Undefined Formation

LITHOLOGY: Argillite

Sandstone

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Nass Depression

TERRANE: Bowser Lake

**CAPSULE GEOLOGY** 

The Sunset showing is located on the west bank of Wilson Creek approximately 4.8 kilometres west of Woodcock. The area was

investigated in 1929.

The area is underlain by sediments of the Middle to Upper Jurassic Bowser Lake Group, which are intruded by Tertiary (and possibly younger) granitic Coast Plutonic Complex rocks.

A quartz-calcite vein, striking 320 degrees and dipping 80 degrees west, containing pyrite has been exposed by an open cut. 15 centimetre stringer containing irregular patches of chalcopyrite occurs 30 metres to the southeast of the open cut.

**BIBLIOGRAPHY** 

EMPR AR \*1929-154 EMPR MAP 8 EMPR BULL 63; 64

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

GSC MAP 1385A

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/20 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 034 NATIONAL MINERAL INVENTORY: 103P1 Ag

NAME(S): MORNING STAR, STAR 9, MORNINGSTAR

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103P01E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 05 47 N NORTHING: 6105806 128 12 18 W 450 Metres LONGITUDE: EASTING: 550732

ELEVATION: 450 LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of claim uncertain, based on description (Minister of Mines

Annual Report 1927 p.129).

COMMODITIES: Gold Silver I ead 7inc Molybdenum

**MINERALS** 

SIGNIFICANT: Galena Pyrite Sphalerite Arsenopyrite Chalcopyrite

Molybdenite

COMMENTS: Tin also reported. Occur as fracture fillings and disseminations. ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork Disseminated Vein

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: 105

STRIKE/DIP: 325/70W DIMENSION: TREND/PLUNGE:

COMMENTS: Attitude of quartz seams which occur over an area of approximately 120

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Bowser Lake** Undefined Formation Jurassic-Cretaceous Coast Plutonic Complex

LITHOLOGY: Granodiorite

Argillite Sandstone Conglomerate

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

Intermontane PHYSIOGRAPHIC AREA: Nass Depression TECTONIC BELT:

TERRANE: Stikine Bowser Lake COMMENTS: Bowser Lake sedimentary overlap on the Stikinia Terrane.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1927 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY

Silver 274.2340 Grams per tonne Gold 0.6860 Grams per tonne Lead 6.0000 Per cent Per cent

Zinc 13.0000 COMMENTS: Selected sample containing galena, sphalerite, arsenopyrite and

REFERENCE: Minister of Mines Annual Report 1927, page 129.

CAPSULE GEOLOGY

The Morning Star showing is located north of the Skeena River approximately 3.5 kilometres northeast of Woodcock. The area was explored between 1927 and 1931 for lead-zinc-silver mineralization.

The area is underlain by argillite, sandstone, and conglomerate of the Middle to Upper Jurassic Bowser Lake Group intruded by a granodiorite stock of the Juro-Cretaceous Coast Plutonic Complex Mineralization extends from just beyond the contact area into the stock itself over an area of about 120 metres. An open cut at the contact exposes a number of well mineralized small quartz seams extending over a considerable width. These seams strike 325 degrees and dip  $\overline{7}0$  degrees west. Mineralization consists of galena, sphaler-

ite, pyrite, arsenopyrite, chalcopyrite and molybdenite occurring as

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

fracture fillings and disseminations.

A selected grab sample containing galena, sphalerite, arsenopyrite and pyrite assayed 0.686 grams per tonne gold, 274.234 grams per tonne silver, 6 per cent lead and 13 per cent zinc (Minister of Mines Annual Report 1927 p.129) tin has also been reported. Similar, mineralization occurs to the northwest at the Moose and Deer showings (103P 039). Due to the location uncertainty these are possibly the same showings.

**BIBLIOGRAPHY** 

EMPR AR \*1927-129, 1929-154, 1930-138, 1931-72 EMPR ASS RPT 8615, 19733, 21728

EMPR BULL 63

EMPR FIELDWORK 1979 p. 127; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1994-14 GSC MAP 1385A Placer Dome File

CODED BY: GSB REVISED BY: DEJ DATE CODED: 1985/07/24 DATE REVISED: 1989/01/04 FIELD CHECK: N

MINFILE NUMBER: 103P 034

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 035

NAME(S): **ROSALEA** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P01E

BC MAP: LATITUDE: 55 04 23 N LONGITUDE: 128 13 27 W ELEVATION: 200 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location inferred from description (Energy, Mines and Petroleum

Resources Annual Report 1929 p.155).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Pyrite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal

TYPE: 105 DIMENSION:

STRIKE/DIP: 310/80S COMMENTS: Attitude of zone hosting quartz vein which is 0.45 metres average

width.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** 

Jurassic Bowser Lake Undefined Formation

LITHOLOGY: Sandstone

HOSTROCK COMMENTS: The Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Nass Depression

COMMENTS: Bowser Lake sedimentary overlap on Stikinia Terrane.

CAPSULE GEOLOGY

The Rosalea showing is located east of Woodcock station, 270 metres north of the railway. The area was investigated in 1929.

The area is underlain by sediments of the Middle to Upper

Jurassic Bowser Lake Group, which have been intruded by Tertiary (and possibly younger) granitic Coast Plutonic rocks.

A quartz vein, hosted in sandstone, is exposed by an open cut. The sandstone strikes 030 degrees and dips 40 degrees north. The lenticular quartz vein, 0.45 metres average width, occurs along a shear or fault zone which strikes 310 degrees and dips steeply southwest. The vein is locally conformably to the bedding and is mineralized with pyrite and minor galena. A sample of the

mineralized quartz assayed no values for gold, silver or lead.

**BIBLIOGRAPHY** 

EMPR AR \*1929-155 EMPR ASS RPT 7888 EMPR BULL 63; 64

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 GSC MAP 1385A

CODED BY: GSB REVISED BY: DEJ DATE CODED: 1985/07/24 DATE REVISED: 1989/12/20

MINFILE NUMBER: 103P 035

FIELD CHECK: N

FIELD CHECK: N

PAGE:

NATIONAL MINERAL INVENTORY: 103P1 Pb

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6103196 EASTING: 549538

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 036

NATIONAL MINERAL INVENTORY: 103P1 Ag

NAME(S): **LADDIE**, TWO LADDIE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca

NTS MAP: 103P01E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

983

LATITUDE: 55 05 55 N LONGITUDE: 128 01 48 W ELEVATION: 300 Metres NORTHING: 6106195 EASTING: 561896

LOCATION ACCURACY: Within 500M

COMMENTS: Location from description in Energy, Mines and Petroleum Resources

Annual Report 1925 p.131.

COMMODITIES: Silver Lead 7inc Copper

MINERALS SIGNIFICANT: Pyrite Sphalerite Chalcopyrite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DIMENSION: STRIKE/DIP: 340/60W TREND/PLUNGE: COMMENTS: Attitude of shear zone and quartzite.

**HOST ROCK** DOMINANT HOSTROCK: Metasedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Undefined Formation

Jurassic Bowser Lake

LITHOLOGY: Quartzite

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Nass Depression

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1929 Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 17.1400 Grams per tonne

48.8000 7inc Per cent

COMMENTS: Sample type unknown.

REFERENCE: Energy, Mines and Petroleum Resources Annual Report 1929 page 155.

**CAPSULE GEOLOGY** 

The Laddie showing is located approximately 1 kilometre east of

Kitwanga, just north of the railroad tracks.

The area is underlain by Middle to Upper Jurassic Bowser Lake Group sediments. The showing consists of a sparsely mineralized shear zone hosted in quartzite. Mineralization, exposed across 0.30 to 0.46 metres, consists of sphalerite, pyrite, minor chalcopyrite and galena. The zone is conformable with the quartzite which strikes 340 degrees and dips 55 to 65 degrees west.

A sample from a 19 metre adit assayed trace gold, 17.14 grams per tonne silver and 48.8 per cent zinc (Energy, Mines and Petroleum

Resources Annual Report 1929 p.155).

**BIBLIOGRAPHY** 

EMPR AR \*1925-131, 1928-152, 1929-155

EMPR BULL 63; 64

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 GSC MAP 1385A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: DEJ DATE REVISED: 1989/12/19 FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 037

NAME(S): **DYNAMITER** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P01W BC MAP:

LATITUDE: 55 02 01 N

LONGITUDE: 128 15 14 W ELEVATION: 384 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of workings (Energy, Mines and Petroleum Resources Annual Report 1931 p.72).

Antimony

COMMODITIES: Silver

MINERALS
SIGNIFICANT: Pyrrhotite Pyrite Arsenopyrite Stibnite

ALTERATION TYPE: Oxidation MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stratiform Concordant Breccia

CLASSIFICATION: Unknown TYPE: 109 St

Stibnite veins and disseminations Polymetallic veins Ag-Pb-Zn±Au 105 STRIKE/DIP: DIMENSION: 180/45N TREND/PLUNGE:

COMMENTS: Attitude of bedding and conformable mineralization.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Bowser Lake Undefined Formation

Tertiary Coast Plutonic Complex

LITHOLOGY: Argillite

Alaskite Intrusive

Breccia

Bowser Lake Group is Middle to Upper Jurassic in age. Intrusives are HOSTROCK COMMENTS:

Tertiary or possibly younger.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Nass Depression

TERRANE: Bowser Lake

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay/analysis YEAR: 1931 SAMPLE TYPE: Grab

COMMODITY Silver 12.3000 Grams per tonne 0.5000 Per cent Antimony

COMMENTS: Sample (grab assumed) across 1.1 metres of best mineralization in

brecciated zone.

REFERENCE: Energy, Mines and Petroleum Resources Annual Report 1931 page 72.

**CAPSULE GEOLOGY** 

The Dynamiter showing is located approximately 4.8 kilometres south of Woodcock on the east side of the Skeena River. The area was

investigated in 1931.

The area is underlain by sediments of the Middle to Upper Jurassic Bowser Lake Group, which are intruded by Tertiary (and possibly younger) granitic Coast Plutonic Complex rocks.

possibly younger; grantic Coast Plutonic Complex rocks.

Mineralization occurs on the bedding planes of argillite near
alaskite tongues. Bedding strikes approximately east-west and dips
45 degrees north. Mineralization consists of pyrrhotite, arsenopyrite, pyrite and a small amount of stibnite. The workings are
located between 373 and 396 metres elevation. The shaft at 386
metres elevation exposes 2.3 metres of iron-stained argillite heavily
mineralized with arsenopyrite. A brecciated zone, 1.1 metres wide,
in the hangingwall exhibits the best mineralization. A sample from in the hangingwall exhibits the best mineralization. A sample from

this zone across the width, assayed trace gold, 12.3 grams per tonne silver and 0.5 per cent antimony (Energy, Mines and Petroleum Resources Annual Report 1931 p. 72). Similar mineralization is

exposed in an open cut 60 metres to the west.

MINFILE NUMBER: 103P 037

PAGE:

NATIONAL MINERAL INVENTORY: 103P1 Ag

MINING DIVISION: Omineca

UTM ZONE: 09 (NAD 83)

NORTHING: 6098786 EASTING: 547687

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR \*1931-72 EMPR BULL 63;64 EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 GSC MAP 1385A

CODED BY: GSB REVISED BY: DEJ DATE CODED: 1985/07/24 DATE REVISED: 1989/12/20 FIELD CHECK: N

MINFILE NUMBER: 103P 037

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 038 NATIONAL MINERAL INVENTORY: 103P1 Ag

NAME(S): WHISKEY CREEK, WHISKEY

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103P01W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 02 18 N NORTHING: 6099305 LONGITUDE: 128 15 47 W ELEVATION: 345 Metres EASTING: 547096

LOCATION ACCURACY: Within 500M

COMMENTS: Location of centre of Whiskey #2 claim (Assessment Report 12794).

COMMODITIES: Gold Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite Sphalerite Pyrrhotite Galena

Tétrahedrite Chalcopyrite ASSOCIATED: Quartz

ALTERATION: Carbonate ALTERATION TYPE: Carbonate Sericite

Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** CHARACTER: Vein Stockwork Massive

CLASSIFICATION: Hydrothermal Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au L04 Porphyry Cu ± Mo ± Au

DIMENSION: STRIKE/DIP: /20F TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Jurassic Bowser Lake Undefined Formation

LITHOLOGY: Calcareous Siltstone Siliceous Siltstone

Rhyolite Dike

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Nass Depression

TERRANE: Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1984 Assav/analvsis

SAMPLE TYPE: Channel **GRADE** 

COMMODITY Silver 150.5000 7.8000 Grams per tonne Gold Grams per tonne Per cent Copper 0.2000 Per cent Lead 1.3800 Zinc 0.6600 Per cent

COMMENTS: Sample WR-4 over 0.15 metres. REFERENCE: Assessment Report 12794.

CAPSULE GEOLOGY

The Whiskey Creek showing is located on the south bank of the

Skeena River, 4.5 kilometres northeast of Cedarvale.

The area is underlain by sediments of the Middle to Upper

Jurassic Bowser Lake Group which are intruded by Tertiary (and possibly younger) granitic Coast Plutonic Complex rocks.

The showing is hosted in variably calcareous siltstone intruded by several northeast trending rhyolite dykes. Mineralization occurs in quartz veins, in stockworks and as massive, bedded sulphides in siltstone. The host rocks have been carbonatized and sericitized in an alteration envelope up to 1.0 metre in width. Pyrrhotite and minor chalcopyrite occur in seams up to 0.10 metres thick in siliceous siltstone. Quartz stockworks, consisting of 1 to 2 millimetre wide quartz filled fractures, host fine grained pyrite, plus or minus chalcopyrite and arsenopyrite. Quartz veins contain near massive lenses of mixed sulphides comprising pyrite, arsenopyrite, sphalerite, pyrrhotite, galena, tetrahedrite and chalcopyrite (in order of abundance). The lenses occur as partially segregated

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

bands parallel to vein walls. Sulphide content can be up to 40 per cent in the veins. The veins are 0.15 metres wide, strike north and dip 20 degrees east.

A sample taken from a vein over 0.15 metres, assayed 7.8 grams per tonne gold, 150.5 grams per tonne silver, 0.20 per cent copper, 1.38 per cent lead and 0.66 per cent zinc (Assessment Report 12794 Fig. 4).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*12794

EMPR BULL 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 GSC MAP 1385A GSC MEM 212-52

DATE CODED: 1985/07/24 DATE REVISED: 1990/01/02 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 038

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 039

NATIONAL MINERAL INVENTORY: 103P1 Ag

PAGE:

NORTHING: 6105952

EASTING: 549968

REPORT: RGEN0100

988

NAME(S): MOOSE AND DEER 4, MOOSE, DEER, BOW, KIX, WEBB-WOODCOCK,

SEDAN CREEK

MINING DIVISION: Omineca

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P01E UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 05 52 N LONGITUDE: 128 13 01 W ELEVATION: 700 Metres

LOCATION ACCURACY: Within 1 KM COMMENTS: Location of sample #1625 from trench on Deer 4 claim (Assessment

Report 619).

COMMODITIES: Molybdenum 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Chalcopyrite Sphalerite Molybdenite

COMMENTS: Anomalous gold and silver values reported.

ASSOCIATED: Quartz

ALTERATION: Silica ALTERATION TYPE: Silicific'n Sericite

Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork Disseminated Vein

CLASSIFICATION: Porphyry Hydrothermal Epigenetic

Porphyry Mo (Low F- type) 105 Polymetallic veins Ag-Pb-Zn±Au

TYPE: L05 SHAPE: Tabular

MODIFIER: Faulted Sheared DIMENSION: 0450 x 0150 Metres STRIKE/DIP: TREND/PLUNGE: 045/

COMMENTS: Zone of veining occurs in area 450 by 150 metres. Individual veins

are 1 millimetre (stockwork) to 61 centimetres wide. Attitude of

stockwork veins which dip steeply north.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER **Bowser Lake** Undefined Formation

Jurassic-Cretaceous Coast Plutonic Complex

LITHOLOGY: Granitic Quartz Feldspar Porphyry

Araillite Siltstone Greywacke Conglomerate

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Nass Depression

TERRANE: Stikine Bowser Lake RELATIONSHIP: METAMORPHIC TYPE: Contact GRADE: Hornfels

COMMENTS: Bowser Lake sedimentary overlap on the Stikinia Terrane.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1964 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

**COMMODITY** Molybdenum 0.2100 Per cent

COMMENTS: Average assay value of samples (assumed grab).

REFERENCE: Assessment Report 619.

MINFILE MASTER REPORT

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

INVENTORY

ORE ZONE: TRENCH REPORT ON: N

> YEAR: 1964 CATEGORY: Assay/analysis SAMPLE TYPE: Grab

COMMODITY **GRADE** Copper 0.0500 Per cent 0.0030 Per cent Molybdenum

I ead 0.2600 COMMENTS: Sample #1625 from trench. REFERENCE: Assessment Report 619.

CAPSULE GEOLOGY

The Moose and Deer 4 showings are located approximately  $5\ \mathrm{kilo-metres}$  north-northeast of Woodcock in the Sedan Creek area. The area has been investigated for molybdenite and, more recently, precious metal mineralization from 1964 to 1980.

Per cent

The area is underlain by brown to black argillite, siltstone, greywacke and minor pebble conglomerate of the Middle to Upper Jurassic Bowser Lake Group. The sediments are intruded and hornfelsed by stocks and dykes of granitic quartz-feldspar+/-biotite porphyry of the Juro-Cretaceous Coast Plutonic Complex. Locally, these beds show tight recumbent folding with low angle thrust faults.

The granitic porphyry has been sericitized, silicified and

contains a high concentration of primarily barren quartz veining. The occurrence consists of two showings, the upper or northern and

the lower or southern, approximately 500 metres apart.

The upper showing occurs on the Deer 4 claim and consists of quartz stockworks in the porphyry and adjacent hornfelsed sediments. Mineralization is sparse and occurs in highly silicified, sheared and fractured zones where small grey quartz stringers cut milky quartz. Mineralization commonly occurs in northeast trending, steeply north dipping veins, shears or fractures from 1 millimetre to 3 centimetres wide. Intense veining is concentrated in an area of 450 by 150metres in the central part of the intrusive complex and appears to be cut off to the east by a fault. Mineralization consists of pyrite and galena and rare chalcopyrite, sphalerite and molybdenite in grey quartz gangue. A grab sample (#1625) assayed 0.26 per cent lead, 0.05 per cent copper and 0.003 per cent molybdenum (Assessment Report 619).

Mineralization at the lower showing on the Moose claims appears to be concentrated in northwest trending, vertically dipping quartz and quartz carbonate veins and stringers in granitic porphyry. veins and stringers occupy shears and are up to 0.61 metres wide. The mineralization does not extend into the hornfelsed sediments. Samples from the lower showing averaged 0.21 percent molybdenite (Assessment Report 619).

Anomalous gold and silver values have been obtained from the contact zone. The average molybdenite content for both showings is 0.014 percent. These showings could incorporate the Morning Star showing (103P 034).

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EMPR BULL 63

EMPR EXPL 1979-257

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1994-14 GSC MAP 1385A

DATE CODED: 1985/07/24 DATE REVISED: 1990/01/04 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 040

BC MAP:

NATIONAL MINERAL INVENTORY: 103P5 Cu3

MINING DIVISION: Skeena

NORTHING: 6142537

EASTING: 436992

PAGE:

REPORT: RGEN0100

990

NAME(S): **COMSTOCK**, MAPLE BAY

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P05W 103O08E

UTM ZONE: 09 (NAD 83)

LATITUDE: 55 25 30 N LONGITUDE: 129 59 44 W ELEVATION: 0457 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of "Comstock Knob" (Open File 1987-15, Figure 34B).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz **Pyrite** Chlorite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: LÓ1 DIMENSION: 0010 Subvolcanic Cu-Ag-Au (As-Sb)

Besshi massive sulphide Cu-Zn TREND/PLUNGE: G04 STRIKE/DIP: Metres COMMENTS: The vein is over 10 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Greenstone

Chlorite Hornblende Schist

HOSTROCK COMMENTS: Rocks belong to either the Hazelton Group or the Karmutsen

Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) TERRANE: Stikine Bowser Lake

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Hosted in a roof pendant within the Coast Plutonic Complex.

### CAPSULE GEOLOGY

The Comstock showing is located 730 metres northeast of Maple Bay on the east side of the Portland Canal, 55 kilometres south of Stewart. The area was explored in the early 1900's for copper.

The area of the showing is underlain by the western margin of a

14.4 by 9.6 kilometre roof pendant within the Tertiary Coast Plutonic Complex. The rocks within the pendant have been correlated with the Lower Jurassic Hazelton Group (Grove, T. 1986), but have also been correlated with the Upper Triassic Karmutsen Formation (Vancouver Group) volcanics and the Kunga Group sediments.

The roof pendant in this area comprises a sequence of mafic and intermediate (andesitic-dacitic) volcanics interbedded with felsic tuffs, siltstones, silty argillites and fine-grained sandstones. The sequence strikes 010 to 035 degrees and dips 40 to 85 degrees southeast. The mafic volcanics have been variably foliated and chloritized to greenstone and chlorite-hornblende schist as a result of regional greenschist metamorphism.

The occurrence consists of a vein, over 10 metres wide, containing granular textured milky white quartz with up to 10 per cent disseminated chalcopyrite and minor disseminated pyrite. Chlorite inclusions ("chlorite seams") occasionally occur in the vein. The vein is reported to host good gold and copper values (Energy, Mines and Petroleum Resources Annual Report 1911 p.72).

## **BIBLIOGRAPHY**

EMPR AR 1910-61; \*1911-72; 1912-105; 1913-88; 1931-40,41; 1952-76;

1957-7

EMPR ASS RPT 5550 EMPR BULL 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM \*1970-77-81

EMPR MAP 8

MINFILE NUMBER: 103P 040

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF \*1987-15, p. 36

EMPR PF (Pentland, A.G. (1969): Report; \*Pell, J. (1982): Silica
Prospects in the Anyox Area, British Columbia)

EMR MIN RES FILE BR (Maple Bay Group)

EMR MP CORPFILE (Granby Mining Co. Ltd.; Maple Bay Copper Mines Ltd.)

GSC MAP 307A; 315A; 1385A

GSC MEM 175, pp. 100,101

GSC SUM RPT 1922 Part A, pp. 23-25

DATE CODED: 1989/02/22 DATE REVISED: 1989/12/08 CODED BY: PSF REVISED BY: GO FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 040

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 041

NATIONAL MINERAL INVENTORY: 103P12 Pb6

NAME(S): **COPPER CREST** 

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: LATITUDE: 55 31 40 N

NORTHING: 6153653 EASTING: 466421

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992

LONGITUDE: 129 31 55 W ELEVATION: 873 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of centre of showing (Minister of Mines Annual Report

1916, page 56).

COMMODITIES: Silver Copper 7inc Lead

MINERALS SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Jurassic GROUP Bowser Lake FORMATION Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Sediment/Sedimentary Andesitic Pyroclastic Volcanic

HOSTROCK COMMENTS: Showing hosted in Bowser Lake Group sediments and/or Hazelton Group

andesitic pyroclastic volcanics.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional Bowser Lake RELATIONSHIP: GRADE: Greenschist

COMMENTS: Located at the south end of Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1916 SAMPLE TYPE: Grab

COMMODITY **GRADE** 

2198.0000 Silver Grams per tonne

REFERENCE: Minister of Mines Annual Report 1916, page 63.

**CAPSULE GEOLOGY** 

The Copper Crest showing occurs 1.5 kilometres north of Gwunya Creek, 6 kilometres north-northwest of Alice Arm. The area was explored in 1916 for precious and base metal mineralization.

The area is underlain by a sequence of volcanic and sedimentary rocks belonging to the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Upper to Middle Jurassic Bowser Lake Group. The sequence is folded into a north-northwest trending anticline/syncline pair and has been regionally metamorphosed to greenschist facies.

The showing appears to be hosted in Bowser Lake Group sediments and/or Hazelton Group andesitic pyroclastics. The showing is reported to consist of red stained (gossanous?) rocks that contain pyrite, chalcopyrite, sphalerite and galena. An assay of 2198 grams per tonne silver is reported to have come from this occurrence (Minister of Mines Annual Report 1916, page 3).

**BIBLIOGRAPHY** 

EMPR AR \*1916-63; 1921-345

EMPR ASS RPT 10803, 10951, 21141

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2 RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 80

DATE CODED: 1989/03/28 DATE REVISED: / /

CODED BY: PSF REVISED BY:

FIELD CHECK: N FIELD CHECK:

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MINFILE NUMBER: 103P 041

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 042

NATIONAL MINERAL INVENTORY: 103P11 Cu5

NAME(S): **DAK**, TOTAL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

994

LATITUDE: 55 32 13 N NORTHING: 6154630 **EASTING: 472582** 

LONGITUDE: 129 26 04 W ELEVATION: 168 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on trench (Minister of Mines Annual Report 1967,

page 43 and shown in Open File 1986-2).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite ALTERATION: Séricite ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown Chalcopyrite

Chlorite Albite

Albitic

Malachite Azurite

Chloritic

Oxidation

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal Epigenetic

L03 TYPE: LÓ1 Subvolcanic Cu-Ag-Au (As-Sb) Alkalic porphyry Cu-Au

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> Upper Triassic Stuhini

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Feldspar Porphyritic Flow

Augite Porphyritic Flow Siliceous Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE: Greenschist

COMMENTS: Situated at southern end of Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1971

SAMPLE TYPE: Chip COMMODITY

**GRADE** 

Per cent

0.2100 Copper

COMMENTS: A 3.0 metre chip sample on southwestern showing. Trace gold. REFERENCE: Geology, Exploration and Mining in B.C. 1971, page 124.

**CAPSULE GEOLOGY** 

The Dak occurrence is located on the south side of the Dak River 7.0 kilometres northeast of Alice Arm. The area was explored

for copper during the late 1960's and early 1970's.

The region is underlain by a sequence of volcanic and sedi-mentary rocks belonging to the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle to Upper Jurassic Bowser Lake Group. In the vicinity of Wilauks Mountain (Mt. McGrath), this sequence lies along the western flank of the north-northwest trending Mt. McGuire anticline. These rocks have undergone regional greenschist facies metamorphism.

The showing is hosted in intensely fractured Stuhini Group feldspar porphyritic flows that contain sericitized and albitized plagioclase and minor chloritized hornblende. Disseminated pyrite and minor chalcopyrite occur in these flows and local occurrences of malachite and azurite were noted in a 38 metre trench.

Southwest about 300 metres, at 300 metres elevation, trenches expose siliceous greywacke containing abundant disseminated pyrite, minor chalcopyrite and widespread malachite staining. metre chip sample assayed trace gold and 0.21 per cent copper (Geology, Exploration and Mining in British Columbia 1971, page 124).

> MINFILE NUMBER: 103P 042

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EM ASS RPT 21892 EMPR AR 1966-47,48; \*1967-43

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 223-240; 1990, pp. 235-243 EMPR GEM \*1971-123,124 EMPR MAP 8

EMPR OF 1986-2 EMPR PF (Mayfair Moly Mines - Map) GSC MAP 1385A

WWW http://www.infomine.com/index/properties/FH\_CLAIMS.html

DATE CODED: 1989/03/02 DATE REVISED: //

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FIELD CHECK: N FIELD CHECK:

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MINFILE NUMBER: 103P 042

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 043

NATIONAL MINERAL INVENTORY: 103P5 Cu3

PAGE:

NORTHING: 6142997 EASTING: 437315

REPORT: RGEN0100

996

NAME(S): <u>EAGLE - MAY QUEEN</u>, EAGLE, MAPLE BAY, <u>UNITED</u>

STATUS: Developed Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05W 103O08E

UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 55 25 45 N LONGITUDE: 129 59 26 W

ELEVATION: 0671 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of entrance to adit on Eagle vein (Minister of Mines Annual

Report 1931, page 40).

COMMODITIES: Copper Zinc

**MINERALS** 

SIGNIFICANT: Chalcopyrite Pyrrhotite Pyrite Sphalerite

COMMENTS: Sulphides occur in quartz vein and as massive lenses in vein walls. ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Massive CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: G04 106 Besshi massive sulphide Cu-Zn L01 Subvolcanic Cu-Ag-Au (As-Sb)

Cu±Ag quartz veins DIMENSION: 1000 x 0011 STRIKE/DIP: 045/80E TREND/PLUNGE: Metres

COMMENTS: Vein strikes northeast for 1000 metres, dips 80 degrees southeast and

is 1.5 to 10.7 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

Upper Triassic Vancouver Karmutsen

LITHOLOGY: Greenstone

Mafic Volcanic

HOSTROCK COMMENTS: Volcanic rocks belong to either the Hazelton Group or the Karmutsen

Formation.

**GEOLOGICAL SETTING** 

ONIC BELT: Coast Crystalline TERRANE: Stikine TECTONIC BELT: PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) Wrangell

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Located at the west end of roof pendant within Coast Plutonic Complex.

INVENTORY

ORE ZONE: EAGLE REPORT ON: Y

> CATEGORY: QUANTITY: Inferred YEAR: 1931 535189 Tonnes

**COMMO**DITY **GRADE** 

1.4000 Per cent Copper

COMMENTS: Reserves based on 1923 diamond drilling results.

REFERENCE: Geology, Exploration and Mining in British Columbia 1970, page 77.

ORE ZONE: EAGLE REPORT ON: Y

> CATEGORY: YEAR: 1931 Indicated

QUANTITY: 473506 Tonnes COMMODITY

Copper 1.7100 Per cent

COMMENTS: Probable reserves based on 1923 diamond drilling results. REFERENCE: Geology, Exploration and Mining in British Columbia 1970, page 77.

**CAPSULE GEOLOGY** 

The Eagle-May Queen quartz vein is located about 1.3 kilometres northeast of Maple Bay on the east side of the Portland Canal, 55 kilometres south of Stewart. Drilling in the 1920's established a

moderate tonnage of copper ore for this deposit.

The area is underlain by the western margin of a 14.4 by 9.6 kilometre roof pendant within the Tertiary Coast Plutonic Complex.

RUN DATE: 26-Jun-2003 **MINFILE N**RUN TIME: 12:06:33 GEOLOGIC

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

These rocks have been correlated with the Lower Jurassic Hazelton Group (Grove, T. 1986), but have also been correlated with the Upper Triassic Karmutsen Formation (Vancouver Group) volcanics and the Kunga Group sediments.

The roof pendant in this area comprises a sequence of mafic and intermediate (andesitic-dacitic) volcanics interbedded with felsic tuffs, siltstones, silty argillites and fine-grained sandstones. The sequence strikes 010 to 035 degrees and dips 40 to 85 degrees southeast. The mafic volcanics have been variably foliated and chloritized to greenstone and chlorite-hornblende schist as a result of regional greenschist metamorphism.

The Eagle-May Queen vein pinches and swells, varying in width from 1.5 to 10.7 metres, strikes northeast for about 1000 metres and dips 80 degrees southeast. The United vein, a small satellite vein about 195 metres to the northwest and adjacent to the Eagle-May Queen's vein south end, strikes northeast for 122 metres parallel to the vein. These quartz veins are hosted in greenstone that strikes northeast and dips 60 to 80 degrees southeast. These conformable relationships suggest the veins may be lenses of volcanogenic massive sulphides similar to the Anyox ore bodies.

The Eagle-May Queen vein locally contains bands of country rock and mineralization consists of chalcopyrite, minor pyrrhotite and pyrite and trace sphalerite. Rare lenses of cupriferous massive sulphides up to 1.8 metres thick occur in the walls of the vein.

sulphides up to 1.8 metres thick occur in the walls of the vein.

Based on diamond drilling in 1923, indicated reserves are estimated at 473,506 tonnes grading 1.7 per cent copper; and inferred reserves are estimated at 535,189 tonnes grading 1.4 per cent copper (Geology, Exploration and Mining in British Columbia 1970, page 77).

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EMPR BULL 63

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EMPR GEM *1970-77-81

EMPR MAP 8

EMPR OF 1987-15, p. 36

EMPR PF (*Granby Consolidated, map and section of drilling, 1923; *Sargent, H. (1942): Report; Pentland, A.G. (1969): Report; Pell, J. (1982): Silica Prospects in the Anyox Area, British Columbia)

EMR MIN BULL MR 223 B.C. 300

EMR MP CORPFILE (Granby Mining Co. Ltd.; Maple Bay Copper Mines Ltd.)

EMR RESFILE BR (Maple Bay Group)

GSC MAP 307A; 315A; 1385A

GSC MEM 175, pp. 100,101

GSC SUM RPT 1922 Part A, pp. 23-25
```

DATE CODED: 1989/02/22 CODED BY: PSF FIELD CHECK: N REVISED: 1989/12/08 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 044

NATIONAL MINERAL INVENTORY:

NAME(S): **FALCON**, HOMEBUSH, LAKEVIEW, BALMORAL, TOP NOTCH

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P11W

BC MAP:

LATITUDE: 55 33 53 N LONGITUDE: 129 16 21 W ELEVATION: 1124 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of approximate centre of surface trace of vein (Assessment

Report 10115, Figure 4).

COMMODITIES: Silver 7inc I ead

**MINERALS** 

SIGNIFICANT: Sphalerite

Galena

Tetrahedrite

Carbonate Barite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

Siderite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym

Disseminated Epigenetic

Polymetallic veins Ag-Pb-Zn±Au

DIMENSION:

STRIKE/DIP: 012/80E COMMENTS: Shear zones strike 012 degrees for up to 30 metres and dip steeply

east.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** Hazelton Lower Jurassic

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6157670 EASTING: 482814

REPORT: RGEN0100

998

LITHOLOGY: Tuff

Conglomerate Siltstone

Argillaceous Sandstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

GRADE: Greenschist

METAMORPHIC TYPE: Regional **RELATIONSHIP:** COMMENTS: Situated at eastern margin of Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

Assay/analysis

YFAR: 1918

CATEGORY: Assay SAMPLE TYPE: Grab

**GRADE** 

Silver

COMMODITY

Lead

226.0000 Grams per tonne 6.5000 Per cent

COMMENTS: From quartz vein along dyke.

REFERENCE: Minister of Mines Annual Report 1918, page 72.

CAPSULE GEOLOGY

The Falcon occurrence is located just west of the Illiance River headwaters, about 16.5 kilometres northeast of Alice Arm. The various showings which comprise this occurrence have been prospected since 1918 for lead, zinc and silver.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the northnorthwest trending Mt. McGuire anticline. These rocks have been

regionally metamorphosed up to greenschist facies.

The Falcon occurrence comprises various showings hosted in a sequence of interbedded conglomerates, argillaceous sandstones, siltstones and tuffs. Three parallel shear zones hosted in tuff have been traced for up to 30 metres between 1189 and 1219 metres elevation. The zones are 0.6 to 1.5 metres wide, strike 012 degrees and dip steeply east. These zones contain sphalerite, galena and tetrahedrite in a brecciated quartz-carbonate gangue.

South of the shear zones, at 1105 metres elevation, irregular quartz-barite-siderite veins are locally mineralized with blebs of

> MINFILE NUMBER: 103P 044

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

tetrahedrite. Nearby, at a similar elevation, a quartz vein is reported to assay 226 grams per tonne silver and 6.5 per cent lead (Energy, Mines and Petroleum Resources Annual Report 1918, page 72). The vein is developed adjacent to a 6 metre wide dyke and strikes 130 degrees.

These showings are probably situated along the continuation of a north trending regional shear structure that hosts the Illy occurrence (103P 141) to the south.

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CODED BY: PSF REVISED BY: FIELD CHECK: N DATE CODED: 1989/03/15 DATE REVISED: / /

MINFILE NUMBER: 103P 044

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 045

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 6136962 EASTING: 449834

REPORT: RGEN0100

1000

NAME(S): **GOLDKEISH** 

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05W BC MAP:

UTM ZONE: 09 (NAD 83)

LATITUDE: 55 22 35 N LONGITUDE: 129 47 30 W ELEVATION: 0010 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of portal entrance (Assessment Report 18127, Figure 3).

COMMODITIES: Gold Silver Silica 7inc Lead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena

COMMENTS: Developed as lenses and stringers along margins of vein.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Stratabound

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au Industrial Min. 102 Intrusion-related Au pyrrhotite veins

I07 Silica veins

DIMENSION: 0180 x 0002 STRIKE/DIP: Metres 025/60E TREND/PLUNGE:

COMMENTS: The vein, 180 metres long and up to 1.8 metres wide, is developed

parallel to bedding.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Undefined Formation Jurassic Upper Triassic Kunga Undefined Formation

> LITHOLOGY: Argillite Siltstone

Sandstone

Coarse Grained Sandstone

HOSTROCK COMMENTS: Quartz vein developed within turbidite sequence.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Bowser Lake METAMORPHIC TYPE: Regional Wrangell RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in roof pendant at eastern margin of Coast Plutonic Complex.

INVENTORY

ORE ZONE: UNDERGROUND WORKINGS REPORT ON: N

> YEAR: 1988 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver 16.6000 Grams per tonne 6.6100 Grams per tonne

Gold COMMENTS: Chip sample over a width of 1.5 metres.

REFERENCE: Assessment Report 18127.

CAPSULE GEOLOGY

The Goldkeish occurrence is located on the west side of Bocking Peninsula, about 4.5 kilometres south of Anyox on Observatory Inlet. The Goldkeish vein produced silica flux for the copper smelter at Anyox between 1914 and 1935. This occurrence is not to be confused with the Golskeish Quartz mine (103P 027) which is located about

3 kilometres to the southwest on Granby Peninsula.

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group (Grove, T. 1986), but have also been correlated with the Upper Triassic Kunga Group sediments and Karmutsen Formation (Vancouver

Group) volcanics (Sharp, R.J.,1980, M.Sc. Thesis).

The volcanics consist of variably chloritized pillow and massive andesite and basalt with minor mafic tuffs. The overlying sediments consist of argillite, siltstone and sandstone with minor chert and

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

limestone.

The Goldkeish vein occurs within a turbidite sequence of medium to coarse-grained sandstone with subordinate siltstone and minor argillite. The vein is hosted entirely in a siltstone/ argillite unit that strikes between 20 and 30 degrees and dips 50 to 60 degrees east. The vein is parallel to bedding, which is common to veins in the Anyox area, striking 025 degrees and dipping 60 degrees east. The vein varies from 1.2 to 1.8 metres in width over a known strike length of 180 metres. A graphitic shear zone in the argillite forms the footwall of the quartz vein.

The vein exhibits marginal banding or ribbon texture, similar to other stratabound quartz veins in the area. Lenses and stringers of pyrite, sphalerite and less frequently galena, are developed in the

margins, parallel to the vein.

Chip sampling of the underground workings resulted in low and generally erratic gold and silver values, assaying up to 6.61 grams per tonne gold and 16.6 grams per tonne silver over a 1.5 metre width (Assessment Report 18127). Gold is suspected to be carried in the galena.

The Goldkeish vein is reported to have produced approximately 45,000 tonnes of quartz between 1928 and 1935 (Assessment Report 18127) from 255 metres of underground workings. This tonnage is similar to that reported for the Golskeish Quartz mine, indicating that production figures for these two mines have been confused or combined.

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DATE CODED: 1989/01/31 DATE REVISED: 1997/04/07 CODED BY: PSF REVISED BY: DA FIELD CHECK: N FIFLD CHECK: Y

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 046

NATIONAL MINERAL INVENTORY:

NAME(S): **GROUNDHOG**, GROUND HOG

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 103P05W BC MAP: LATITUDE: 55 21 57 N

LONGITUDE: 129 49 38 W ELEVATION: 0107 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of trench (Property File: Alldrick, D.J. (1986) Anyox

Map).

COMMODITIES: Gold

Silver

I ead

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite

Pyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: 105 Polym

hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au Metres

Intrusion-related Au pyrrhotite veins 102 STRIKE/DIP: 040/57S

TREND/PLUNGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6135814

**EASTING: 447567** 

PAGE:

REPORT: RGEN0100

1002

DIMENSION: 15 COMMENTS: The vein has been traced for 15 metres and is up to 2.4 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Jurassic

Hazelton Kunga

**FORMATION** Undefined Formation

Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

Upper Triassic

LITHOLOGY: Argillite Siltstone

Lamprophyre Dike

x 2

HOSTROCK COMMENTS: Quartz vein hosted in argillite of either Hazelton or Kunga Groups.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

Wrangell

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Bowser Lake
METAMORPHIC TYPE: Regional

RELATIONSHIP: Syn-mineralization

GRADE: Greenschist

COMMENTS: Situated in a roof pendant within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

**GRADE** 

YEAR: 1913

COMMODITY Silver

82,3000

Grams per tonne

Gold

4.8000

Grams per tonne

COMMENTS: Sample taken across quartz vein over 2.4 metres. REFERENCE: Minister of Mines Annual Report 1913, page K84.

**CAPSULE GEOLOGY** 

The Groundhog vein is located on the west shore of Granby Peninsula on Observatory Inlet about 6 kilometres south of Anyox. The location is reported to be 107 metres above the high water mark on the south side near the head of Granby Bay.

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex. These rocks are commonly correlated with the Jurassic Hazelton Group, but have also been correlated with the Upper Triassic Kunga Group sediments and Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J.,1980).

The volcanics consist of variably chloritized pillow and massive andesite and basalt with minor mafic tuffs. The overlying sediments consist of argillite, siltstone and sandstone with minor chert and limestone.

There are two observable phases of folding in the area, an initial north-northeast trending phase followed by a later east-northeast trending phase.

The Groundhog occurrence consists of a 2 to 2.4 metre wide

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

quartz vein hosted in argillite. The vein has been traced for 100 metres, strikes 040 degrees and dips 57 degrees southeast. A lamprophyre dyke of similar orientation occurs within a few metres of the hangingwall of the vein. A streak of galena, sphalerite and pyrite, 25 to 40 centimetres wide, occurs in the footwall. This mineralization is reported to assay 5.48 grams per tonne gold, 17.65 grams per tonne silver and 32.5 per cent lead, and a sample across the width of the vein over 2.4 metres contained 4.8 grams per tonne gold and 82.3 grams per tonne silver (Energy, Mines and Petroleum Resources Annual Report 1913, page 84).

Currently, a 100 metre long, 4 metre wide open cut is developed

along the vein as a result of work that was unreported or included with the nearby Golskeish Quartz vein (103P 027) (Alldrick, D.-Personal Communication, Jan. 1989).

### **BIBLIOGRAPHY**

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EMPR PF (\*Alldrick, D. (1986) Anyox Map; In 103P 022 - Fox, J.S. (1988): First Summary Report of Field Work)
GSC MAP 307A; 1385A
GSC MEM 175, p. 93

DATE CODED: 1989/01/29 DATE REVISED: 1989/12/30 CODED BY: PSF REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 046

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 047 NATIONAL MINERAL INVENTORY: 103P11 Ag3

NAME(S): **LEFT OVER** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 35 22 N NORTHING: 6160423 LONGITUDE: 129 16 47 W ELEVATION: 933 Metres EASTING: 482370

LOCATION ACCURACY: Within 500M

COMMENTS: Location of chip sample C-24 (Assessment Report 8904, Figures 3

and 4).

COMMODITIES: Silver Lead Copper 7inc Mercury Gold

**MINERALS** 

SIGNIFICANT: Pyrite Galena Chalcopyrite

COMMENTS: Bands and disseminations.

ASSOCIATED: Quartz

Pyrite

ALTERATION: Quartz
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown Pyrite

**DEPOSIT** 

CHARACTER: Disseminated Massive CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

STRIKE/DIP: 030/52S DIMENSION: 0150 x 0006 Metres TREND/PLUNGE:

COMMENTS: Rhyolite bed strikes 020 to 040 degrees, dips 45 to 60 degrees southeast, extends 150 metres and varies from 4 to 6 metres wide.

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Rhyolite

Andesitic Breccia

HOSTROCK COMMENTS: Host rock consists of a brecciated to massive rhyolite bed in

andesitic breccias.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Located at eastern margin of Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/ar SAMPLE TYPE: Channel YEAR: 1981 Assay/analysis

**COMMODITY GRADE** Silver 119.0000 Grams per tonne Gold 0.0300 Grams per tonne Copper 0.2600 Per cent Mercury 0.0030 Per cent Lead 0.2000 Per cent Zinc 0.2000 Per cent

COMMENTS: A 5.0 metre channel sample across a pyrite rich zone.

REFERENCE: Assessment Report 8904, page 4.

CAPSULE GEOLOGY

The Left Over occurrence is located at the headwaters of the south fork of the Tchitin River on its south bank, about 17.75kilometres northeast of Alice Arm. This showing was initially

prospected in 1916 and re-discovered in 1980.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the northnorthwest trending Mt. McGuire anticline. These rocks have been regionally metamorphosed to greenschist facies.

The occurrence consists of a 4 to 6 metre wide rhyolite bed hosted in maroon and green andesitic breccias. The rhyolite bed has PAGE:

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

been traced for 150 metres, strikes 020 to 040 degrees and dips 45 to 60 degrees southeast. The brecciated to massive rhyolite bed has been silicified and pyritized.

Mineralization consists of massive bands of pyrite and disseminations and blebs of pyrite, galena and minor chalcopyrite. The showing was previously described as a 1.5 metre wide quartz vein containing bands and lenses of galena, chalcopyrite, sphalerite and pyrite (Minister of Mines Annual Report 1916). A 5 metre channel sample across a pyrite rich zone assayed 119 grams per tonne silver, 0.20 per cent lead, 0.26 per cent copper, 0.20 per cent zinc, 0.003 per cent mercury and 0.03 grams per tonne gold (Assessment Report 8904, page 4).

### **BIBLIOGRAPHY**

EM EXPL 2001-1-9 EMPR AR 1916-74,75 EMPR ASS RPT \*8904, \*9823 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2; 1999-2; 1999-14 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 70

DATE CODED: 1989/03/15 DATE REVISED: / /

CODED BY: PSF REVISED BY:

FIELD CHECK: N FIELD CHECK:

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 048

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6142100 EASTING: 437302

REPORT: RGEN0100

1006

NAME(S): **PRINCESS**, MAPLE BAY, LIZZIE, ANACONDA, THISTLE, GERTIE

STATUS: Developed Prospect

REGIONS: British Columbia NTS MAP: 103P05W 103O08E

BC MAP:

LATITUDE: 55 25 16 N LONGITUDE: 129 59 26 W ELEVATION: 0695 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit entrance on Princess vein (Assessment Report

5550, Map 4).

COMMODITIES: Copper

Gold

Silver

G04

**MINERALS** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

Pyrrhotite Pyrite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: L01 Subvo

Breccia Epigenetic

Subvolcanic Cu-Ag-Au (As-Sb)

DIMENSION: 0914 x 0002 Metres STRIKE/DIP: COMMENTS: Princess vein strikes northeast for 914 metres, dips steeply east and

is over 2.4 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE

<u>GROUP</u> Lower Jurassic Hazelton Upper Triassic

Vancouver

**FORMATION** 

Undefined Formation

Karmutsen

LITHOLOGY: Felsic Tuff

Greenstone Volcanic Argillite Siltstone

HOSTROCK COMMENTS:

The Princess vein is hosted in felsic tuff and the Thistle vein is hosted in greenstone of either the Hazelton Group or Karmutsen Fm.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Stikine

Wrangell

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Besshi massive sulphide Cu-Zn

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

METAMORPHIC TYPE: Regional

RELATIONSHIP:

GRADE: Greenschist

COMMENTS: At the west end of a roof pendant within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: ANACONDA

REPORT ON: Y

CATEGORY: Inferred QUANTITY:

YFAR: 1942

COMMODITY

29400 Tonnes

Per cent

Copper

**GRADE** 

REFERENCE: Property File - Sargent, H. 1942, page 4.

CAPSULE GEOLOGY

The Maple Bay occurrence is located just east of Maple Bay on the east shore of the Portland Canal, 55 kilometres south of Stewart and

12.5 kilometres west of Anyox.

The area is underlain by the western margin of a 14.4 by 9.6 kilometre roof pendant within the Tertiary Coast Plutonic Complex. These rocks have been correlated with the Lower Jurassic Hazelton Group (Grove, T. 1986), but have also been correlated with the Upper Triassic Karmutsen Formation (Vancouver Group) volcanics and the

Kunga Group sediments.

The roof pendant in this area comprises a sequence of mafic and intermediate (andesitic-dacitic) volcanics interbedded with felsic tuffs, siltstones, silty argillites and fine-grained sandstones. sequence strikes 010 to 035 degrees and dips 40 to 85 degrees southeast. The mafic volcanics have been variably foliated and chloritized to greenstone and chlorite-hornblende schist as a result

> MINFILE NUMBER: 103P 048

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

of regional greenschist metamorphism.

The occurrence comprises five northeast trending quartz veins. The most important is the Princess vein, which strikes northeast and dips steeply to the southeast. The vein varies in width from less than 0.5 metres to over 2.4 metres and is hosted in a massive to slightly banded fine-grained felsic tuff. The vein comprises fine-grained milky white quartz and is mineralized with chalcopyrite, minor pyrrhotite and pyrite. Sulphides locally comprise up to 40 per cent of the vein (Pell, J. 1982). Locally, the vein becomes a quartz-chalcopyrite breccia. Assays of all samples from surface trenches average 2.06 per cent copper over an average width of 2.3 metres and a sample vein assayed 3.10 per cent copper over 2.4 metres in a drift (Assessment Report 5550 p.5).

Another quartz vein, varying from 1.2 to 3.7 metres in width, is

Another quartz vein, varying from 1.2 to 3.7 metres in width, is located 400 metres to the northeast. This vein strikes northeast for 411 metres on the Princess Alice claim (L.498). It contains chalcopyrite mineralization and is likely an extension of the Princess vein.

The Gertie vein lies 207 metres along strike of the Princess vein to the southwest, and continues southwest for about 305 metres. This vein is also likely an extension of the Princess vein.

The Lizzie vein, which parallels the Gertie vein, occurs  $340\,$  metres to the southeast.

The Anaconda vein lies 120 metres northwest of, and is parallel to, the southern end of the Princess vein. It consists of quartz with chalcopyrite, pyrrhotite and pyrite. Inferred reserves are estimated at 29,400 tonnes grading 2.04 per cent copper with traces of gold and silver over an average width of 2.4 metres (Property File - Sargent, H. 1942 page 4).

The Thistle vein occurs about 256 metres to the northwest of the Anaconda vein. It strikes 017 degrees for 180 metres, dips steeply to the west and is up to 7.6 metres wide. The vein is hosted in greenstone and consists of fine-grained milky white quartz with minor disseminated chalcopyrite and a few chlorite stringers. The vein is estimated to average 3.3 per cent copper over a length of 183 metres and an average width of 4.0 metres (Assessment Report 5550).

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EMPR ASS RPT *5550

EMPR BULL 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1968-59; *1970-77-81

EMPR MAP 8

EMPR OF 87-15, p. 36

EMPR PF (*Sargent, H. (1942): Report; Pentland, A.G. (1969): Report; Pell, J. (1982): Silica Prospects in the Anyox Area, British Columbia)

EMR MIN RES BR FILE (Maple Bay Group)

EMR MP CORPFILE (Granby Mining Co. Ltd.; Maple Bay copper Mines Ltd.)

GSC MAP 307A; 315A; 1385A

GSC MEM 175, pp. 100,101

GSC SUM RPT 1922 Part A, pp. 23-25
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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 049

NATIONAL MINERAL INVENTORY: 103P13 Cu1

MINING DIVISION: Skeena

NORTHING: 6205986

EASTING: 438960

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1008

NAME(S): PRINCE JOHN NO. 3 (L.4389)

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 59 43 N

LONGITUDE: 129 58 43 W ELEVATION: 677 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of the portal to the western (upper) adit (Bulletin 58, Figure 3 - Sheet B).

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Pyrrhotite

ASSOCIATED: Quartz ALTERATION: Chlorite ALTERATION TYPE: Chloritic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated Vein CLASSIFICATION: Hydrothermal **Epigenetic** 

Intrusion-related Au pyrrhotite veins TREND/PLUNGE: TYPE: LÓ1 DIMENSION: 0012 Subvolcanic Cu-Ag-Au (As-Sb) Metres 102 STRIKE/DIP:

COMMENTS: Main zone of mineralization, 12 metres wide, strikes northwest.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Unuk River

LITHOLOGY: Schistose Greenstone

Schistose Argillite Schistose Slate Pyroclastic Granodiorite Dike

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of Stewart Complex (Island Arc Assemblage).

INVENTORY

REPORT ON: N ORE ZONE: ADIT

> CATEGORY: YEAR: 1922 Assay/analysis SAMPLE TYPE: Chip

COMMODITY Gold

1.6600 Grams per tonne 2.0000 Per cent

Copper COMMENTS: Across 12 metres width of zone. Gold assay equivalent for

combined gold and silver.

REFERENCE: Minister of Mines Annual Report 1922, page 76.

CAPSULE GEOLOGY

The Prince John prospect is situated 1 kilometre west of the Bear River, 6 kilometres north-northeast of Stewart. This zone of low grade copper mineralization was explored between 1914 and 1923.

The mineralization is developed in Lower Jurassic Unuk River Formation (Hazelton Group) schistose greenstone and argillite (slate). These rocks, including the overlying sandstone and siltstone to the southwest, strike northwest and dip approximately

60 degrees southwest.

The mineralized zone, 12 metres wide, is adjacent to and parallels the footwall of a granodiorite dyke. The dyke is 14 metres wide, strikes northwest and dips steeply west. Mineralization consists of pyrite and chalcopyrite disseminations and lenticular stringers. These stringers parallel schistosity, which strikes north and dips steeply west.

Chip sampling across this zone in the upper adit averaged 2 per

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## CAPSULE GEOLOGY

cent copper and 1.66 grams per tonne gold equivalent for combined gold and silver (Minister of Mines Annual Report 1918 page 76). The second adit, 45 metres below the upper adit, encountered a 1.2 metre wide vein. Samples from this vein assayed 13 grams per tonne gold equivalent for combined gold, silver and copper (Minister of Mines Annual Report 1922, page 76).

A thin-bedded pyroclastic bed, lying 50 metres south of the upper adit, is mineralized with chalcopyrite. The bed is cut by a northeast striking fault which displays dextral strike slip movement. A grab sample taken from this area assayed 0.45 grams per tonne gold, 5.14 grams per tonne silver and 2.18 per cent copper (Assessment Report 11175 page 12)

Report 11175, page 12).

At lower elevations to the east, a 1.8 metre wide quartz vein is mineralized with pyrrhotite and chalcopyrite. The vein strikes northwest and is hosted in argillite (slate). A sample of heavily mineralized quartz assayed 9.54 grams per tonne gold (Minister of Mines Annual Report 1919, page 65).

#### **BIBLIOGRAPHY**

EMPR AR 1914-155; 1915-72; 1916-86; 1917-66,67,84; \*1918-76,77; 1919-64,65; 1922-70; \*1923-76,77

EMPR ASS RPT 11175

EMPR BULL \*58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-93; 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1970-75,76

EMPR MAP 8

EMR MP CORPFILE (The Prince John Mining Company Ltd.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM \*159, pp. 21,32; 175, pp. 137,138

DATE CODED: 1989/05/19 CODED BY: PSF FIELD CHECK: N
DATE REVISED: 1990/01/02 REVISED BY: PSF FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 050 NATIONAL MINERAL INVENTORY: 103P13 Ag1

 $\begin{array}{ll} \text{NAME(S):} & \underbrace{\textbf{GOLD CLIFF}}_{\text{TRITES, BAYVIEW}}, \text{UNITED EMPIRE, LUCILLE-THOMPSON,} \\ \end{array}$ 

STATUS: Past Producer Open Pit Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 58 21 N LONGITUDE: 129 59 24 W NORTHING: 6203461 EASTING: 438213

ELEVATION: 903 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of portal to main adit (Assessment Report 12620, Figure 6).

COMMODITIES: Silver 7inc I ead Gold

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Galena Sphalerite Arsenopyrite

Tetrahedrite Pyrargyrite

COMMENTS: Stringers, disseminations, blebs and lenses. ASSOCIATED: Quartz Calcite

Quartz

ALTERATION: Pyrite
ALTERATION TYPE: Pyrite
MINERALIZATION AGE: Eocene Silicific'n

ISOTOPIC AGE: DATING METHOD: Lead/Lead MATERIAL DATED: Galena

**DEPOSIT** 

CHARACTER: Vein Disseminated Massive

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: I05 P SHAPE: Irregular Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Fractured Sheared DIMENSION: 0550 x 0240 x 0002 Metres STRIKE/DIP: 140/70S TREND/PLUNGE:

COMMENTS: Approximate attitude of shear zone.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton **Unuk River** 

LITHOLOGY: Hornfels Argillite

Tuff

Volcanic Breccia Andesitic Flow Limestone

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Boundary Ranges

TECTONIC BELT: Intermontane
TERRANE: Stikine
METAMORPHIC TYPE: Contact RELATIONSHIP: Svn-mineralization GRADE: Hornfels

COMMENTS: In western margin of Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1934

SAMPLE TYPE: Chip

COMMODITY **GRADE** Silver 2280.0000 Grams per tonne Gold 3.4000 Grams per tonne Lead 11.0000 Per cent 9.0000 Per cent

Zinc COMMENTS: A 2.4 metre chip sample.

REFERENCE: Property File: (Guernsey, T.W. 1934, page 16).

CAPSULE GEOLOGY

The Gold Cliff occurrence is located 3.5 kilometres due north of Stewart on the east slope of Mount Dolly. Several shipments of high grade silver ore were made from this occurrence between 1925 and 1936.

A mineralized shear zone is developed in Lower Jurassic Unuk River Formation (Hazelton Group) sedimentary and volcanic rocks just north of the contact with Eocene granodiorite of the Hyder Pluton. The Unuk River Formation in this area consists of hornfelsed argillites and tuff with minor volcanic breccias, andesitic flows and

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## CAPSULE GEOLOGY

limestone.

Mineralization is contained in a 550 metre long shear zone known as the Trites zone (Lucille-Thompson vein). The zone trends approximately 140 degrees, with individual strikes varying from 128 to 173 degrees and dipping 45 to 85 degrees southwest. It extends downdip for a vertical distance of 240 metres and varies in width from less than 0.3 metres to 2.4 metres. The southeast end of the shear zone terminates within granodiorite just south of the contact with the Hyder Pluton.

Mineralization consists of pyrite, pyrrhotite, galena and sphalerite with minor arsenopyrite, tetrahedrite and pyrargyrite. Mineralization occurs as stringers, disseminations, blebs and massive lenses up to 0.76 metres wide. Mineralization infrequently occurs in a gangue of quartz with minor calcite and adjacent wall rock has been pyritized and variably silicified. The mineralization is better developed where shearing and fracturing is more intense.

A 2.4 metre chip sample assayed 3.4 grams per tonne gold, 2280 grams per tonne silver, 11.0 per cent lead and 9.0 per cent zinc

(Property File: Guernsey, T.W., 1934, page 16).

Between 1925 and 1936, 163 tonnes of hand sorted ore was mined from the Trites zone. This tonnage averaged 2.10 grams per tonne gold, 1136.7 grams per tonne silver, 7.35 per cent lead and 5.78 per cent zinc.

#### **BIBLIOGRAPHY**

EMPR AR 1920-54; 1923-78; 1924-71,366; 1925-94,99,100; 1927-87,88; 1928-98; 1929-95,505,506; 1930-105; \*1933-53,54; \*1934-B18,B19; 1935-B28; 1936-B59; 1963-1

EMPR ASS RPT 2386, \*12620

EMPR BULL 10, p. 53; 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1970-76; 1971-126

EMPR MAP 8

EMPR PF (Starr, C.C. (1929): Report of an Examination of the Gold Cliff Group, 10 p.; workings on and near property, 1929; \*Guernsey, T.W. (1934) Geology Report; Mandy, J.T. (1934) Maps and cross-sections of surface and underground workings)

EMR MIN RES FILE MR-Ag 301.00 B.C., Silver Producing Mines in British Columbia, June 1930, pp. 66,68

EMR MP CORPFILE (Pacific Mines; Petroleum & Development Co. Ltd.; Bayview Mining Co. Ltd.; United Empire Gold & Silver Mining Co. Ltd.; Athena Mines Ltd.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 159, pp. 38,39; 1975, pp. 149,150

GCNL #177, 1983; #119,#131,#142, 1984

DATE CODED: 1985/07/24 CODED BY: GSB
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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 051

NATIONAL MINERAL INVENTORY: 103P13 Ag1

NAME(S): **BAYVIEW**, FRANKLIN

STATUS: Past Producer REGIONS: British Columbia

Open Pit MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

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1012

LATITUDE: 55 58 18 N LONGITUDE: 129 59 52 W ELEVATION: 1250 Metres NORTHING: 6203376 EASTING: 437726

TREND/PLUNGE:

LOCATION ACCURACY: Within 500M

COMMENTS: Location of sample 5008320 in lower Bayview showings (Assessment

Report 12620, Figure 5).

COMMODITIES: Silver Gold 7inc I ead

**MINERALS** 

SIGNIFICANT: Pyrrhotite Galena Sphalerite Pyrite Tetrahedrite

ASSOCIATED: Quartz MINERALIZATION AGE: Eocene

ISOTOPIC AGE: DATING METHOD: Lead/Lead MATERIAL DATED: Galena

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Massive Disseminated Stockwork

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0120 STRIKE/DIP: 030/65W Metres

COMMENTS: Southern Bayview vein is up to 0.6 metres wide and has been traced

along strike for 120 metres.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Unuk River

LITHOLOGY: Hornfels Argillite

Hornfels Siltstone Schist Granodiorite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Hornfels

COMMENTS: At the western margin of Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1983 Assay/analysis

COMMODITY **GRADE** 

Silver 8679.7000 Grams per tonne Gold Grams per tonne 2.0000 20.3000 Lead Per cent Zinc 20.2000 Per cent

COMMENTS: A 0.61 metre chip sample from No.4 Zone.

REFERENCE: Assessment Report 12620, page 7.

CAPSULE GEOLOGY

The Bayview occurrence is situated on the east slope of Mount Dolly, 3.5 kilometres north of Stewart. In 1983 and 1984, high grade ore was trenched from silver-lead-zinc veins, first explored in 1919.

Various mineralized zones occur in Lower Jurassic schist and
hornfelsed argillite/siltstone of the Unuk River Formation (Hazelton Group) in the vicinity of Eocene granodiorite of the Hyder Pluton. The Number 4 zone consists of a 1.2 metre wide vein which strikes northeast and dips 20 degrees southeast. The vein contains 0.6 metres of massive galena, sphalerite and tetrahedrite in the hangingwall and 0.6 metres of quartz with disseminated sulphides in the footwall. A 0.61 metre chip sample across the vein assayed 2 grams per tonne gold, 8679.7 grams per tonne silver, 20.3 per cent lead and 20.2 per cent zinc (Assessment Report 12620, page 7). The Number 3 zone is located about 100 metres south of the

Number 4 zone and 150 metres north of the granodiorite. This shear

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## CAPSULE GEOLOGY

zone contains long lenses of quartz mineralized with pyrite, pyrrhotite, galena and sphalerite. These lenses are up to 1.8 metres wide and the zone, hosted in schist, has a strike of 150 degrees. A stockwork of sulphide stringers also occurs in the vicinity.

The lower Bayview showings, 300 metres east of the number 4 zone, consist of two quartz-sulphide veins. The southernmost vein lies along the contact between a large granodiorite dyke on the east and hornfelsed argillite to the west. The vein strikes 030 degrees for 120 metres, dips 65 degrees west and is up to 0.6 metres wide. It contains lenses of pyrrhotite, sphalerite, galena and tetrahedrite in a gangue of quartz. A 0.91 chip sample across the vein assayed 42.30 grams per tonne gold and 1273 grams per tonne silver (Assessment Report 12620, page 8). A second vein 120 metres to the north assayed 15.96 grams per tonne gold and 2268 grams per tonne silver over a narrow width (Assessment Report 12620, page 8).

The removal of high grade ore by Bayview Mining in 1983 and by Norcon Exploration in 1984 produced 21 tonnes with an average grade of 1.27 grams per tonne gold, 5848.3 grams per tonne silver, 16.99 per cent lead and 16.53 per cent zinc from the Number 4 zone.

#### **BIBLIOGRAPHY**

EMPR AR 1906-67; 1919-64; \*1920-54; 1922-69,70; 1923-78; 1924-366; 1925-99,100; 1927-87; 1928-97,98; 1929-95; 1963-11

EMPR ASS RPT \*12620

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR PF (Quinstar Oil Corp., Prospectus 1978)

EMR MIN RES FILE MR-AG 301.00 B.C., Silver Producing Mines in British Columbia, June 1930, pp. 66,68

EMR MP CORPFILE (Bayview Mining Co. Ltd.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 159, pp. 38,39; 175, p. 106

GCNL #177, 1983; #119,#131,#142,#175, 1984

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/24 REVISED BY: PSF FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 052 NATIONAL MINERAL INVENTORY: 103P13 Ag4

NAME(S): DUNWELL, SUNBEAM, BEN HUR

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia UTM ZONE: 09 (NAD 83)

NTS MAP: 103P13W 104A04W BC MAP:

LATITUDE: 55 59 49 N LONGITUDE: 129 55 16 W ELEVATION: 435 Metres NORTHING: 6206122 EASTING: 442549

LOCATION ACCURACY: Within 500M

COMMENTS: Location of portal to the Number 3 (Assessment Report 16622,

Map 2).

COMMODITIES: Zinc Gold Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Tetrahedrite Chalcopyrite

Silver Argentite COMMENTS: Lenses, disseminations and stringers.

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Massive Breccia

thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal

TYPE: 105 SHAPE: Bladed

MODIFIER: Faulted

DIMENSION: 0150 x 0030 x 0001 Metres STRIKE/DIP: /46W TREND/PLUNGE:

COMMENTS: Dimensions given for ore shoot within Dunwell vein which strikes 0

degrees and dips 42 to 50 degrees.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Hazelton Salmon River

LITHOLOGY: Argillite

Siltstone Greywacke Lamprophyre Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of Stewart Complex (Island Arc Assemblage).

INVENTORY

REPORT ON: N ORE ZONE: VEIN

> CATEGORY: Assay/analysis SAMPLE TYPE: Chip YEAR: 1933

**COMMODITY GRADE** 

Silver 4456.0000 Grams per tonne Gold 6.9000 Grams per tonne Lead 6.6000 Per cent

Zinc 5.0000 Per cent COMMENTS: A 1.14 metre chip sample across ore shoot in Dunwell vein.

REFERENCE: Minister of Mines Annual Report 1933, page 58.

CAPSULE GEOLOGY

The Dunwell mine is located 7.5 kilometres northeast of Stewart

on the north side of Glacier Creek.

The deposit consists of a series of quartz and quartz-breccia veins hosted in thin bedded argillite, siltstone and greywacke of the Middle Jurassic Salmon River Formation (Hazelton Group). Andesitic tuffs of the underlying Lower Jurassic Unuk River Formation outcrop

to the east of the veins.

The veins are developed in the Portland Canal Fissure Zone. This zone of faulting and shearing trends north, dips steeply west and hosts a vein system that extends southward for 6.5 kilometres from the Victoria/Dandy occurrence (104A 067) on the north, through the Dunwell mine across Glacier Creek to the Ben Bolt occurrence

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## CAPSULE GEOLOGY

(103P 080).

The deposit consists primarily of two veins, the Sunbeam (number 8) vein to the north and the Dunwell (number 23) vein to the south, with a number of other less important veins. The veins are developed en echelon adjacent to a major north striking, west dipping fault zone (West fault). The veins are commonly situated along one or both sides of parallel lamprophyre dykes which are up to 0.6 metres wide.

sides of parallel lamprophyre dykes which are up to 0.6 metres wide.

The Sunbeam vein strikes 000 to 010 degrees and dips 40 to 60 degrees west. It varies from 1 to 1.8 metres in width, with a definite strike length of 315 metres and possibly up to 588 metres. The Sunbeam vein likely continues northward through the Victoria/Danby occurrence (104A 067) as the Main Reef vein.

The Dunwell (north-south) vein strikes 000 degrees and dips 42 to 50 degrees west. The vein extends along strike for 240 metres and downdip for at least 240 metres, varying in width from 0.3 to 2.1 metres.

Mineralization consists of lenses, disseminations and stringers of pyrite, galena, sphalerite and tetrahedrite with minor chalcopyrite, native silver and argentite in a gangue of quartz and minor calcite. Locally, the Dunwell vein contains up to 75 per cent sulphides. The mineralization is more intense where the veins are intersected by fractures of the West fault zone. High grade mineralization is contained within one ore shoot in the Dunwell vein. This ore shoot strikes for 30 metres, extends downdip for 150 metres and averages at least 1.2 metres in width. A chip sample across 1.14 metres assayed 6.9 grams per tonne gold, 4456 grams per tonne silver, 6.6 per cent lead and 5 per cent zinc (Minister of Mines Annual Report 1933, page 58).

Report 1933, page 58).

Between 1926 and 1937, 45657 tonnes were produced averaging 6.63 grams per tonne gold, 223.91 grams per tonne silver, 1.83 per cent lead, 4.01 per cent zinc and 0.056 per cent copper.

## **BIBLIOGRAPHY**

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EMPR AR 1907-73; 1909-63; 1914-157,158; 1920-58; 1921-66; 1922-72; 1923-71,72; 1924-62-64,366; 1925-90,91,447; 1926-89-91,363; 1927-96,97,392; 1928-100,101,426; 1932-58; *1933-54-59,303; *1934-B19-B22; 1935-B26,G48; 1936-B57; *1937-B6-B12; 1938-B25; 1940-52; 1951-75; 1964-22; 1965-51; 1966-41

EMPR ASS RPT 16622

EMPR BULL 58, pp. 129-131; 63

EMPR ENG INSP (Mine Plans #60499-500, Nov. 1925; #60501, Jul. 1924)

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR PF (Clippings, Maps of Underground Workings, 1925,1933)

EMR MP CORPFILE (Dunwell Mines Ltd.; Stewart Mining & Development Ltd.; Silver Arrow Explorations Ltd.; Silver Princess Resources Inc.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 32, p. 42; *159, pp. 49-53,54-56; 175, pp. 112,113,147

CANMET IR 241, pp. 3-6

GCNL #94, 1986; #41,#52, 1989

WWW http://www.infomine.com/
EMPR OF 1998-10
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MINFILE NUMBER: 103P 052

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 053 NATIONAL MINERAL INVENTORY: 103P13 Ag4

NAME(S): **BEN ALI (L.4283)**, DUNWELL, BEN ALI NO. 2 (L.4470)

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W 104A04W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 59 58 N NORTHING: 6206413 LONGITUDE: 129 56 09 W EASTING: 441634

ELEVATION: 183 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of lower tunnel-No.4 level (Assessment Report 7706, Figure 2).

COMMODITIES: Gold Silver 7inc Copper Lead

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Chalcopyrite

ASSOCIATED: Quartz
ALTERATION: Chlorite
ALTERATION TYPE: Propylitic **Epidote** Quartz Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 105 Po SHAPE: Tabular MODIFIER: Fractured Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0107 x 0076 x 0001 Metres COMMENTS: Vein dips 65 to 88 degrees southwest. STRIKE/DIP: 140/75S TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Unuk River Eocene Coast Plutonic Complex

ISOTOPIC AGE: 47-51 +/- 2-3 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite/hornblende

LITHOLOGY: Porphyritic Quartz Monzonite Epiclastic Volcanic

Small stock of quartz monzonite related to the Hyder Pluton of the HOSTROCK COMMENTS:

Coast Plutonic Complex intrudes Unuk River volcanics.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1987

SAMPLE TYPE: Chip COMMODITY GRADE

25.0000 Grams per tonne Gold 7.8800 Grams per tonne

COMMENTS: Across 5.0 metres.

REFERENCE: Assessment Report 16633, page 20.

**CAPSULE GEOLOGY** 

The Ben Ali mine is situated on the east side of the Bear River,  $7.5~\rm{kil}$  ometres north-northeast of Stewart. A precious metal bearing quartz vein was periodically mined, on a small scale, between 1932 and 1941.

The deposit is hosted in a small stock of medium-grained porphyritic quartz monzonite, probably related to the Eocene Hyder Pluton to the southwest. The stock intrudes epiclastic volcanics and lithic tuffs of the Lower Jurassic Unuk River Formation (Hazelton These are overlain, to the east, by argillaceous black siltstone of the Middle Jurassic Salmon River Formation.

The deposit consists of a lenticular quartz-breccia vein,

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## CAPSULE GEOLOGY

between 0.15 and 0.60 metres wide, developed in a shear zone which is up to 1.0 metre wide. The vein strikes 140 degrees for at least 107 metres, possibly up to 300 metres, dips 65 to 88 degrees southwest and extends downdip for at least 76 metres. A narrow vertical cross vein extends northwestward from the main vein, striking 050 degrees. Mineralization consists of pyrite and minor galena, sphalerite

and chalcopyrite. The mineralization is more intense where the vein is cut by northeast striking fractures. A 5 metre chip sample along the length of the vein assayed 7.88 grams per tonne gold and 25.0 grams per tonne silver (Assessment Report 16633, page 20). The gold and silver values are higher near the wall rocks, which show minor silicification and propylitic alteration.

Approximately 4500 tonnes averaging 21.6 grams per tonne gold were mined between 1932 and 1941 (Assessment Report 7706, page 1).

## **BIBLIOGRAPHY**

EMPR AR 1924-366; 1927-96; 1928-100,101,426; 1932-58; 1933-54,56,58, 59,303; 1934-B20-B22; 1935-B26,648; 1937-B12; 1940-41,52; 1941-41 EMPR ASS RPT \*7706, \*16633 EMPR BULL 58; 63 EMPR EXPL 1979-261 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR PF (Mandy, J.T. (1933) Plan and Cross-sections of Underground Workings; \*Rose Spit Resources Inc. Prospectus, 1989)

EMR MP CORPFILE (Dunwell Mines Ltd.; Stewart Mining and Development Ltd.)

GSC MAP 215A; 307A; 315A; 1385A

CODED BY: PSF REVISED BY: DEJ DATE CODED: 1989/05/29 DATE REVISED: 1989/11/15 FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 053

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 054

NATIONAL MINERAL INVENTORY: 103P12 Ag4,5

PAGE:

NORTHING: 6205416

**EASTING: 442227** 

REPORT: RGEN0100

1018

NAME(S): **GEORGE E**, GLACIER CREEK, STEWART, LITTLE WONDER, LULU, O.K. FRACTION,

PORTER WONDER

STATUS: Past Producer REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13W UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 59 26 N LONGITUDE: 129 55 34 W

ELEVATION: 290 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on the portal of the main adit on the Lulu claim,

Lot 926 (Minister of Mines Annual Report 1937, page B13).

COMMODITIES: Gold Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena COMMENTS: Disseminated to massive. Sphalerite Argentite Silver

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated Massive

hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: 105 Polym

DIMENSION: 0700 x 0009 STRIKE/DIP: 165/77W Metres TREND/PLUNGE:

COMMENTS: Attitude and dimension of Number 3 vein.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

TRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Salmon River Hazelton

LITHOLOGY: Argillite Siltstone

Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1934 Assay/analysis

**COMMODITY GRADE** Silver 583.0000 Grams per tonne Gold 17.0000 Grams per tonne

28,0000 Lead Per cent Zinc 5.0000 Per cent

COMMENTS: A 1.5 metre chip sample from the Number 4 vein. REFERENCE: Minister of Mines Annual Report 1934, page 20.

CAPSULE GEOLOGY

The George E occurrence is located on the north bank of Glacier Creek, 7 kilometres northeast of Stewart. A number of veins have been explored in this area since 1908 for base and precious metal mineralization.

This occurrence is hosted in thinly bedded argillite, siltstone and greywacke of the Middle Jurassic Salmon River Formation (Hazelton Group). Andesitic tuffs of the underlying Lower Jurassic Unuk River Formation outcrop to the east. These units dip 30 to 60 degrees west

on the west limb of a broad, open, north trending anticline.

The veins are developed in the Portland Canal Fissure Zone. This zone of faulting and shearing trends north, dips steeply west and hosts a vein system that extends southward for 6.5 kilometres from the Victoria/Dandy occurrence (104A 067) on the north, through the Dunwell mine across Glacier Creek to the Ben Bolt occurrence (103P 080).

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## CAPSULE GEOLOGY

RUN DATE: 26-Jun-2003

RUN TIME: 12:06:33

The George E occurrence is comprised of 9 subparallel quartz-breccia veins developed en echelon. The veins occur adjacent to and between, two parallel north striking, steeply west dipping faults which are 300 metres apart. Significant mineralization is confined to four of these veins, designated from west to east; number 4, number 1 (First/West), number 2 (Centre/Main) and the number 3 (Green/East). The veins are spaced 15 to 40 metres apart, strike north to northwest and dip between 30 and 90 degrees west. They are sometimes associated with dykes that form the hangingwall or footwall of the vein. The number 1, 2 and 4 veins vary from 0.2 to 1.8 metres in width and have been traced along strike for between 165 metres  $\frac{1}{2}$ (number 4) and 300 metres (number 1 and 2). The number 3 vein varies from 0.1 to 9 metres in width and has been traced for 700 metres.

Mineralization generally consists of disseminated to massive pyrite, galena and sphalerite with a trace of argentite and native silver in a gangue of quartz and minor calcite. A representative sample from a well mineralized lens, 4.6 metres long and 0.05 to 0.46 metres wide, in the number 3 vein assayed 63.1 grams per tonne gold, 137 grams per tonne silver, 5 per cent lead and 6 per cent zinc (Minister of Mines Annual Report 1935, page B23). A 1.5 metre chip sample from the number 4 vein assayed 17 grams per tonne gold, 583 sample from the number 4 vein assayed 17 grams per tonne gold, 583 grams per tonne silver, trace copper, 28 per cent lead and 5 per cent zinc (Minister of Mines Annual Report 1934, page 20). A 1.25 metre chip sample from the number 1 vein assayed 15.8 grams per tonne gold, 411 grams per tonne silver, trace copper, 7.4 per cent lead and 0.2 per cent zinc (Minister of Mines Annual Report 1937, page B12).

In 1937, 12 tons of high grade ore was mined from the number 1 vein with an average grade of 13 grams per tonne gold, 3250 grams per tonne silver and 23.3 per cent lead.

## **BIBLIOGRAPHY**

EMPR AR 1907-73; 1908-55; 1909-63-65; \*1910-63,64,75-77; 1911-74; 1912-108; 1914-158,160; 1924-62; 1925-90; 1933-58; \*1934-B20; 1935-B23; \*1937-B11-B16 EMPR BULL 58, pp. 129,130; 63 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMR MP CORPFILE (Dunwell Mines Ltd.; Glacier Creek Mining Co. Ltd.; Stewart Mining & Development Co. Ltd.) GSC MAP 207A; 307A; 315A; 1385A GSC MEM \*32, pp. 39-42; \*159, pp. 49-53,56,57; 175, pp. 117-119,127, GSC SUM RPT 1910, pp. 76,77

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/31 CODED BY: GSB FIELD CHECK: N REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 055

NATIONAL MINERAL INVENTORY:

NAME(S): <u>HANSA</u>, ANGELO

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P13W BC MAP: LATITUDE: 55 59 06 N

NORTHING: 6204773 EASTING: 444039

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REPORT: RGEN0100

1020

LONGITUDE: 129 53 49 W ELEVATION: 457 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centered on showing at the north fork of Glacier Creek

(Minister of Mines Annual Report 1948, page 71).

COMMODITIES: Silver Gold 7inc Lead

**MINERALS** 

SIGNIFICANT: Sulphide

COMMENTS: Sulphides not specified.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: 105 Polym

thermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0100 x 0001 Metres STRIKE/COMMENTS: The vein strikes northeast, dips vertically, has been traced for STRIKE/DIP: TREND/PLUNGE:

100 metres and is 0.6 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Hazelton Salmon River

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Hansa occurrence is located on the north fork of Glacier Creek, 7.5 kilometres northeast of Stewart. One shipment of high grade ore was made from this occurrence in 1948.

The occurrence consists of a 0.6 metre wide, northeast striking, vertically dipping, quartz vein. The vein lies within a fault zone hosted in argillite of the Middle Jurassic Salmon River Formation (Hazelton Group). The vein has been traced for 100 metres and contains sparse sulphides over most of its width. Along one wall the vein is heavily mineralized with sulphides over a width of between 0.05 and 0.10 metres.

A 4.5 tonne shipment of sorted ore from the vein averaged 5.28 grams per tonne gold, 6883 grams per tonne silver, 10.5 per cent lead and 9.31 per cent zinc (Minister of Mines Annual Report 1948, page 71).

**BIBLIOGRAPHY** 

EMPR AR \*1948-71 EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

GSC MAP 215A; 307A; 1385A

DATE CODED: 1989/06/04 DATE REVISED: 1990/01/11 CODED BY: PSF REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 055

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 056

NATIONAL MINERAL INVENTORY:

NAME(S): **NORTHERN BELLE** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

1021

LATITUDE: 55 59 47 N

NORTHING: 6206032 EASTING: 444714

LONGITUDE: 129 53 11 W ELEVATION: 968 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centered on showing (Geological Survey of Canada Memoir 32,

page 43).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia Massive

CLASSIFICATION: Hydrothermal TYPE: L01 Subvo Epigenetic Cu±Ag quartz veins 106

Subvolcanic Cu-Ag-Au (As-Sb) x 0002 Metres DIMENSION: 0015 x 0002 STRIKE/DIP: 270/40S TREND/PLUNGE:

COMMENTS: The vein strikes west, dips 40 degrees south, has been traced for

15 metres and is 1.5 to 1.8 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** GROUP IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Hazelton Salmon River

LITHOLOGY: Argillite Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Northern Belle occurrence is located west of the north fork

of Glacier Creek, 9 kilometres northeast of Stewart.

The occurrence consists of a 1.5 to 1.8 metre wide gossanous quartz-breccia vein hosted in argillite (slate) of the Middle Jurassic Salmon River Formation (Hazelton Group). The vein, traced for 15 metres, strikes west and dips 40 degrees south. Mineralization consists of pyrite and massive lenses, up to 5 centimetres in

diameter, of chalcopyrite.

**BIBLIOGRAPHY** 

EMPR AR 1905-80

EMPR BULL 58; 63
EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

GSC MAP 215A; 307A; 1385A GSC MEM 32, pp. 43,44 GSC SUM RPT 1910, p. 78

DATE CODED: 1989/06/05

CODED BY: PSF REVISED BY: FIELD CHECK: N DATE REVISED: / / FIFI D CHECK:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 057

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

REPORT: RGEN0100

1022

NAME(S): OLGA

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 58 42 N

NORTHING: 6204059 LONGITUDE: 129 55 48 W ELEVATION: 533 Metres EASTING: 441966

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on outcrop of the number 1 vein (Property File:

Gaul, A.J. (1925), page 1).

COMMODITIES: Zinc Silver Lead Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite

COMMENTS: Host minerals not specified.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Epigenetic Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: Veins strike north, dip west.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Salmon River

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1925 Assay/analysis SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Silver 343.5000 Grams per tonne

7 1460 Per cent 7inc

COMMENTS: A 1.2 metre chip sample across No.1 vein. Silver assay equivalent

for gold, silver and lead.

REFERENCE: Minister of Mines Annual Report 1925, page 84.

**CAPSULE GEOLOGY** 

The Olga showing is located on the south side of Glacier Creek, 6 kilometres northeast of Stewart. These veins were discovered in

1925 from prospecting in the Portland Canal Fissure Zone.

The occurrence is comprised of two veins in argillite (slate) of the Middle Jurassic Salmon River Formation (Hazelton Group). The veins are developed in the Portland Canal Fissure Zone. This zone of faulting and shearing trends north, dips steeply west and hosts a vein system that extends southward for 6.5 kilometres. As with other veins in the zone the number 1 and number 2 veins strike north and dip west.

The number 1 vein is reported to be well mineralized, a selected grab sample assayed trace gold and 510.87 grams per tonne silver (Property File: Gaul, A.J. (1925) Report). A 1.2 metre chip sample across the vein assayed 7.146 per cent zinc and 343.5 grams per tonne silver equivalent for combined gold, silver and lead (Minister of Mines Annual Report 1925, page 84). The number 2 vein contains only sparse positive in a granue of greats. sparse pyrite in a gangue of quartz.

**BIBLIOGRAPHY** 

EMPR AR 1906-80; 1924-60,61; \*1925-84

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL 58; 63 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8
EMPR PF (\*Gaul, A.J. (1925) Report)
EMR MP CORPFILE (Cassiar Consolidated Mines Ltd.)

GSC MAP 215A; 315A; 1385A

DATE CODED: 1989/05/30 DATE REVISED: / /

CODED BY: PSF REVISED BY:

FIELD CHECK: N

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1023

MINFILE NUMBER: 103P 057

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 058

NATIONAL MINERAL INVENTORY: 103P13 Ag6

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6204833 EASTING: 441838

REPORT: RGEN0100

1024

NAME(S): **PORTLAND CANAL TUNNELS**, PHOENIX SILVER, LUCKY BOY, MELBA, MOSQUITO, RICHARD

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W

BC MAP:

LATITUDE: LONGITUDE: 129 55 56 W

ELEVATION: 97 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on the intersection of the Melba (Number 12) vein in the main tunnel (Geological Survey of Canada Memoir 159, Figure

12).

COMMODITIES: Gold Silver Copper 7inc I ead

**MINERALS** 

SIGNIFICANT: Pyrite Galena COMMENTS: Massive to disseminated. Sphalerite Chalcopyrite

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Breccia Massive Disseminated

thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: 105 Polym

STRIKE/DIP: 007/45W DIMENSION: 0130 x 0060 Metres TREND/PLUNGE:

COMMENTS: Attitude and dimensions of Lucky Boy vein.

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Salmon River Hazelton

LITHOLOGY: Argillite Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1914

SAMPLE TYPE: Chip <u>GRA</u>DE COMMODITY

Silver 200,0000 Grams per tonne Gold 3.8000 Grams per tonne

COMMENTS: A 0.25 metre chip sample across massive sulphide stringer in

Mosquito vein.

REFERENCE: Minister of Mines Annual Report 1914, page 160.

CAPSULE GEOLOGY

The Portland Canal Tunnels occurrence is located along the south side of Glacier Creek, 6.5 kilometres northeast of Stewart. A 1.10 kilometre long tunnel was extended eastward into the Portland Canal Fissure Zone, between 1912 and 1914, in an attempt to discover veins at depth within the zone.

The tunnel intersected 9 veins in argillite (slate) of the Middle Jurassic Salmon River Formation (Hazelton Group). The Portland Canal Fissure Zone is a zone of faulting and shearing which trends north, dips steeply west and hosts a vein system that extends southward for 6.5 kilometres from the Victoria/Dandy occurrence (104A 067) on the north, through the Dunwell mine across Glacier Creek to the Ben Bolt occurrence (103P 080).

Four of the nine breccia-veins discovered in the tunnel are of significance, from west to east these are: the Lucky Boy, Melba, Richard and Mosquito (Green) veins. The veins are spaced between 76 and 210 metres apart and strike approximately north and dip west. The Lucky Boy vein strikes at 007 degrees and dips 45 degrees west.

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## CAPSULE GEOLOGY

The veins vary from 12 (Melba) to 30 metres (Lucky Boy) in width. The veins have been traced along strike for up to 160 metres (Lucky Boy and Melba) and are commonly associated with dykes.

Mineralization consists of pyrite, galena, and minor sphalerite and chalcopyrite. Mineralization occurs as disseminations, massive stringers and bands up to  $0.6\ \text{metres}$  wide in a gangue of quartz and minor calcite. A 0.25 metre chip sample across a massive stringer in the Mosquito vein assayed 3.8 grams per tonne gold and 200 grams per tonne silver (Minister of Mines Annual Report 1914, page 160), and locally, up to 2 per cent copper (Minister of Mines Annual Report 1914, page 155). Significant lead and zinc values were also reported.

## **BIBLIOGRAPHY**

EMPR AR 1912-103,104,109; \*1913-90-92; \*1914-155,158-160,512; 1924-60,61; 1925-84; 1954-82; 1955-17 EMPR BULL 58, pp. 147,148; 63 EMPR ENG INSP (Mine Plans - #61302, 1920) EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR PF (Elmendorf, J. (1915) Report; Gaul, A.J. (1925) Report) EMR MP CORPFILE (Portland Canal Tunnels Ltd.; Cassiar Consolidated Mines Ltd.; Portal Mining Company Ltd.; Silver Princess Resources Inc.) GSC MAP 215A; 307A; 315A; 1385A GSC MEM \*159, pp. 48-53,57,58; 175, pp. 135,136 GCNL #190, 1979; #170, 1980; #49, 1982; #63, 1984

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/30 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 058

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 059 NATIONAL MINERAL INVENTORY: 103P13 Ag12

NAME(S): LAKEVIEW, CABIN, CAMPBELL

STATUS: Past Producer REGIONS: British Columbia Open Pit Underground MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 59 29 N LONGITUDE: 129 53 53 W

NORTHING: 6205485 EASTING: 443979

ELEVATION: 686 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on site of sample No. 4 (Assessment Report 16526,

Figure 2).

COMMODITIES: Zinc Lead Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Tetrahedrite

COMMENTS: Massive to disseminated.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

Massive Disseminated

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym hermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0093 x 0001 STRIKE/DIP: 108/68S Metres TREND/PLUNGE:

COMMENTS: Attitude and dimensions of Cabin vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Hazelton Salmon River

LITHOLOGY: Argillite Siltstone

Lamprophyre Dike

**GEOLOGICAL SETTING** TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1937

SAMPLE TYPE: Chip

GRADE 1289.0000 COMMODITY Silver Grams per tonne Gold 1.3700 Grams per tonne 0.8000 Copper Per cent Per cent 8.5000 Lead

10.5000 Per cent Zinc

COMMENTS: Composite chip sample 13.7 metres long and 0.114 metres wide. REFERENCE: Minister of Mines Annual Report 1937, page B20.

**CAPSULE GEOLOGY** 

The Lakeview occurrence is located just east of Maude Gulch,  $8\,$  kilometres northeast of Stewart. Various veins have been explored

for base and precious metals in this area since 1906.

This area is underlain by argillite and siltstone of the Middle Jurassic Salmon River Formation (Hazelton Group). These sediments lie on the west limb of an open anticline which trends north. A small augite diorite stock intrudes the sediments to the south.

The occurrence consists of a number of veins and shear zones of

which two, the Cabin and the Campbell veins, are the most significant. The Cabin vein, 0.6 to 1.5 metres in width, strikes 108 degrees for 93 metres and dips 68 degrees southwest, within sheared wallrock. Mineralization consists of massive to disseminated pyrite, galena and sphalerite in a quartz gangue. An 18 metre long, 0.013 to 0.208 metre wide, band of massive galena and sphalerite is developed along the hangingwall. A composite chip sample from this band over a length of 13.7 metres and an average width of 0.114 metres assayed

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RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## CAPSULE GEOLOGY

1.37 grams per tonne gold, 1289 grams per tonne silver, 0.8 per cent copper, 8.5 per cent lead and 10.5 per cent zinc (Minister of Mines Annual Report 1937, page B20).

The Campbell vein, 55 metres southeast of the Cabin vein, strikes 123 to 137 degrees for 98 metres adjacent to a parallel lamprophyre dyke and dips 40 to 50 degrees southwest. The vein, 0.36to 1.2 metres wide, is mineralized with sparse galena, sphalerite, pyrite and trace tetrahedrite in a quartz gangue. This may be the southeastern extension of the Cabin vein.

A 2.4 to 3.0 metre wide shear zone just east of the Campbell vein contains quartz lenses and stringers mineralized with galena, sphalerite, pyrite and tetrahedrite.

Between 1913 and 1936, 60 tonnes were mined from surface and underground workings with an average grade of 4.7 grams per tonne gold, 2734 grams per tonne silver and 11.5 per cent lead.

## **BIBLIOGRAPHY**

EMPR AR 1906-66; 1907-73; 1908-56; 1909-63; 1912-109; 1913-90; 1914-156; 1915-73; 1916-86; 1917-67,85; 1918-78; 1919-69; 1920-58; 1921-66; 1922-72,73; 1923-74; \*1924-64-66; 1925-88-90,447; 1928-101; \*1934-B22,B23; 1936-B59; \*1937-B16-B20 EMPR ASS RPT 14657, \*16526 EMPR BULL 58; 63 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMR MP CORPFILE (Copper Town Mines Ltd.)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM 32, p. 44; 159, pp. 42,43; 175, pp. 126,127

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 DATE REVISED: 1989/05/30

MINFILE NUMBER: 103P 059

PAGE:

FIELD CHECK: N FIELD CHECK: N

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 060 NATIONAL MINERAL INVENTORY: 103P13 Ag3

NAME(S): NABOB, GALENA, SILVER BOW

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 59 32 N NORTHING: 6205568 LONGITUDE: 129 53 10 W ELEVATION: 838 Metres EASTING: 444725

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on prospect adjacent to Maude Gulch (Geological

Survey of Canada Map 215A).

COMMODITIES: Copper Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 010/75W DIMENSION: TREND/PLUNGE:

COMMENTS: Attitude of quartz-breccia vein.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

**FORMATION** GROUP Hazelton IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Middle Jurassic Salmon River

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At western margin of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Nabob showing is located on the north fork of Glacier Creek, 9 kilometres northeast of Stewart. Several showings were explored in

this area between 1910 and 1923.

A 0.3 metre wide quartz-breccia vein, striking 010 degrees and dipping 75 degrees west, is hosted in argillite of the Middle Jurassic Salmon River Formation (Hazelton Group). It contains a small amount of pyrite and chalcopyrite.

Another vein in the vicinity, also hosted in argillite, is up to

0.15 metres wide and is mineralized with galena and sphalerite.

**BIBLIOGRAPHY** 

EMPR AR 1919-70; 1923-75; \*1929-506,507

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

GSC MAP \*215A; 307A; 315A; 1385A

GSC MEM 32, p. 43 GSC SUM RPT 1910, p. 78

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: PSF DATE REVISED: 1989/04/30 FIELD CHECK: N

MINFILE NUMBER: 103P 060

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 061

NAME(S): RAF COPPER, RAF

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P13W BC MAP:

LATITUDE: 55 59 31 N LONGITUDE: 129 51 58 W ELEVATION: 1274 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on trench (Assessment Report 343, Map 1).

COMMODITIES: Copper

Silver

Gold

**MINERALS** 

SIGNIFICANT: Chalcopyrite COMMENTS: Massive to disseminated. ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Vein Disseminated

CLASSIFICATION: Hydrothermal Epigenetic TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb) COMMENTS: Shear zones strike northwest, dip east.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Middle Jurassic Hazelton

Salmon River

LITHOLOGY: Argillite

Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP:

GRADE: Greenschist COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**FORMATION** 

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

YEAR: 1960

GRADE

COMMODITY Silver

48.0000 Grams per tonne 3.7700 Per cent

Copper

COMMENTS: A 3.7 metre chip sample. REFERENCE: Assessment Report 343, Map 1.

**CAPSULE GEOLOGY** 

The Raf Copper showing is located on the north fork of Glacier Creek,  $9.5~{\rm kilometres}$  northeast of Stewart. The region is underlain by north striking, west dipping, argillite of the Middle Jurassic Salmon River Formation (Hazelton Group). The argillite is frequencut by narrow felsic and augite porphyritic dykes. The argillite is frequently

The showing consists of a zone of massive chalcopyrite pods and various shear zones. The pods parallel the bedding of the enclosing argillite and the shear zones strike northwest and dip east. The shear zones contain quartz calcite veinlets with disseminated chalcopyrite. A 3.7 metre chip sample assayed trace gold, 48 grams per tonne silver and 3.77 per cent copper (Assessment Report 343, Map 1).

**BIBLIOGRAPHY** 

EMPR AR 1965-51

EMPR ASS RPT \*343, 344

EMPR BULL 58, p. 151; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MP CORPFILE (Cassiar Consolidated Mines Ltd.)

MINFILE NUMBER: 103P 061

PAGE:

NATIONAL MINERAL INVENTORY: 103P13 Ag3

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6205522

EASTING: 445972

IGNEOUS/METAMORPHIC/OTHER

PHYSIOGRAPHIC AREA: Boundary Ranges

REPORT: RGEN0100

 RUN DATE:
 26-Jun-2003
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 12:06:33
 GEOLOGICA

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 215A; 307A; 315A; 1385A

DATE CODED: 1989/05/30 CODED BY: PSF FIELD CHECK: N DATE REVISED: // REVISED BY: FIELD CHECK:

MINFILE NUMBER: 103P 061

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 062

NATIONAL MINERAL INVENTORY: 103P13 Ag3

PAGE:

REPORT: RGEN0100

1031

NAME(S): RUTH & FRANCIS, RAF, COPPER KING, SILVER BOW, MAIN, CROSS

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 59 22 N LONGITUDE: 129 52 28 W ELEVATION: 1052 Metres LOCATION ACCUMENCY: Within 500M NORTHING: 6205250 EASTING: 445449

COMMENTS: Location centered on the portal of the upper tunnel (Assessment

Report 343, Map 1).

COMMODITIES: Zinc Silver Lead Antimony Gold

**MINERALS** 

SIGNIFICANT: Pyrite Boulangerite Chalcopyrite Sphalerite Jamesonite

Tétrahedrite Galena COMMENTS: Massive to disseminated. Calcite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Breccia Massive

CLASSIFICATION: Hydrothermal Epigenetic TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au 109 Stibnite veins and disseminations

STRIKE/DIP: DIMENSION: 0046 x 0002 025/90 Metres TREND/PLUNGE:

COMMENTS: Main vein strikes 10 to 40 degrees for 46 metres and is 0.6 to 2.1

metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Hazelton Salmon River

> LITHOLOGY: Argillite Siltstone

Greywacke Porphyritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1918 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver 1083.0000 Grams per tonne Gold 0.6600 Grams per tonne Lead 15,0000 Per cent Antimony 8.3000 Per cent Per cent

Zinc 18.0000 F COMMENTS: Chip sample along 1.98 metre long massive sulphide zone.

REFERENCE: Minister of Mines Annual Report 1918, page 77.

CAPSULE GEOLOGY

The Ruth & Francis occurrence is located along the north fork of Glacier Creek, 9 kilometres northeast of Stewart. A vein containing antimony bearing massive sulphides has been explored in this area since 1906.

The occurrence is hosted in north striking, west dipping argillite, siltstone and greywacke of the Middle Jurassic Salmon River Formation (Hazelton Group). These sediments are intruded by

numerous felsic and augite porphyritic dykes. The mineralization is confined to several veins and a shear zone. The Main vein is a quartz-breccia vein hosted in argillite

which occurs on the west side of a vertical fault that strikes 030 degrees. The vein strikes 010 to 040 degrees for at least 46 metres, RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## CAPSULE GEOLOGY

dips vertically and is 0.6 to 2.1 metres wide. Mineralization consists of massive to disseminated pyrite, sphalerite, jamesonite, boulangerite and minor chalcopyrite, tetrahedrite and galena. A chip sample along a 1.98 metre long, 0.6 metre wide zone of massive sulphides assayed 0.66 grams per tonne gold, 1083 grams per tonne silver, 15 per cent lead, 18 per cent zinc and 8.3 per cent antimony

(Minister of Mines Annual Report 1918, page 77).

The Cross vein strikes 120 degrees, dips 72 degrees south and intersects the Main vein. This quartz breccia vein is 1.2 metres wide and is developed along the south side of an adjacent, parallel dyke. Anomalous copper and gold assays are reported from this vein

(Minister of Mines Annual Report 1914, page 156).

A shear zone, 100 metres long and 1.2 to 3 metres wide, lies 300 metres east of the two veins. The zone contains chalcopyrite in a gangue of quartz and calcite.

## **BIBLIOGRAPHY**

EMPR AR 1906-67; 1908-56; 1912-108; \*1914-156; 1915-73,74; 1917-85; \*1918-77,78; 1919-70; 1921-66; 1922-72; 1923-74; 1924-68; 1926-92, 93; 1927-88,89; 1934-B24; 1935-B26; 1947-90,91; 1961-116; 1965-51 EMPR ASS RPT 343, 344 EMPR BULL 58, p. 151; 63 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMR MP CORPFILE (Cassiar Consolidated Mines Ltd.)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM \*159, pp. 43,44; 175, pp. 111,145 Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/30 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 062

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 063

NATIONAL MINERAL INVENTORY: 103P13 Ag3

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6204946 EASTING: 445046

TREND/PLUNGE:

PAGE:

REPORT: RGEN0100

1033

NAME(S): SILVER BOW-STEWART, SILVER BOW

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P13W BC MAP:

LATITUDE: 55 59 12 N LONGITUDE: 129 52 51 W ELEVATION: 896 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on principal showing (Geological Survey of Canada Summary Report 1910, page 78).

COMMODITIES: Zinc I ead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Tetrahedrite

COMMENTS: Sulphides as lenses and disseminations.

ASSOCIATED: Quartz
ALTERATION: Quartz
ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive Disseminated CLASSIFICATION: Hydrothermal TYPE: I05 Polym Epigenetic Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

MODIFIER: Fractured DIMENSION: 0213 x 0005 Metres STRIKE/DIP:

COMMENTS: Mineralized dyke strikes northeast for 213 metres and is up to 4.6

metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Middle Jurassic GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Salmon River

LITHOLOGY: Mafic Dike

Greenstone Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Silver Bow-Stewart showing is located on the north fork of Glacier Creek, 8.5 kilometres northeast of Stewart. The area is underlain by argillite of the Middle Jurassic Salmon River Formation (Hazelton Group) which has been intruded by a number of mafic

(greenstone) dykes.

Mineralization is contained in a fractured and silicified mafic dyke. The dyke is up to 4.6 metres wide and strikes northeast for 213 metres along the creek. Mineralization consists of small lenses and disseminations of pyrite and minor sphalerite, galena and tetra-

hedrite.

**BIBLIOGRAPHY** 

EMPR AR 1904-100; 1905-80; 1906-67; 1927-88; 1965-51

EMPR ASS RPT 14657, 16526

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,

218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MP CORPFILE (Cassiar Consolidated Mines Ltd.)

GSC MAP 215A; 307A; 315A; 1385A GSC MEM 32, p. 43; 175, p. 146 GSC SUM RPT \*1910, p. 78

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/30 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 063

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 064

NATIONAL MINERAL INVENTORY: 103P13 Ag13

NAME(S): MIMICO

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1034

LATITUDE: 55 58 51 N

NORTHING: 6204315 EASTING: 443599

LONGITUDE: 129 54 14 W ELEVATION: 335 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of eastern adit (Geological Survey of

Canada Map 215A).

COMMODITIES: Lead Silver 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Massive CLASSIFICATION: Hydrothermal

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DIMENSION: STRIKE/DIP: 020/60W TREND/PLUNGE: COMMENTS: Attitude of vein, 0.10 to 0.30 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

GROUP Hazelton **FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Salmon River

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

**RELATIONSHIP:** METAMORPHIC TYPE: Regional GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1922 Assav/analysis

SAMPLE TYPE: Grab

GRADE

COMMODITY Silver 5345.0000 Grams per tonne

87.2000 Per cent I ead

COMMENTS: From selected grab samples containing mainly galena. REFERENCE: Minister of Mines Annual Report 1922, page 75.

**CAPSULE GEOLOGY** 

The Mimico showing is located on the south fork of Glacier Creek, 7 kilometres northeast of Stewart. A vein was explored here

by trenching and tunnelling in 1922 and 1923.

The showing is comprised of a 0.10 to 0.30 metre wide quartz vein striking 020 degrees and dipping 60 degrees west. The vein is hosted in argillite of the Middle Jurassic Salmon River Formation (Hazelton Group). Locally, the vein contains massive pyrite, galena and sphalerite up to 0.30 metres. Grab samples of the purest galena have assayed up to 5345 grams per tonne silver and 87.2 per cent lead

(Minister of Mines Annual Report 1922, page 75).

**BIBLIOGRAPHY** 

EMPR AR \*1922-75; 1923-73,74; 1925-84

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MP CORPFILE (Mimico Mines Ltd.) GSC MAP \*215A; 307A; 315A; 1385A

MINFILE NUMBER: 103P 064

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 175, p. 131

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/31 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 064

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 065 NATIONAL MINERAL INVENTORY: 103P13 Cu2

NAME(S): **SUNSHINE**, IDA

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 58 50 N NORTHING: 6204258 LONGITUDE: 129 52 18 W ELEVATION: 1050 Metres EASTING: 445610

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit on Sunshine No.1 claim-Lot 4500 (Assessment Report 15305, Figure 3).

COMMODITIES: Gold Copper Silver 7inc Lead

Pyrite Sphalerite Galena Tetrahedrite

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Massive CLASSIFICATION: Hydrothermal TYPE: I05 Polym SIFICATION: Hydrothermal Epigenetic
TYPE: l05 Polymetallic veins Ag-Pb-Zn±Au
DIMENSION: 0213 x 0137 x 0002 Metres

STRIKE/DIP: 027/55W TREND/PLUNGE:

COMMENTS: Vein strikes 20 to 34 degrees and dips 50 to 60 degrees west.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE GROUP Hazelton IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Salmon River

LITHOLOGY: Argillite

Feldspar Porphyritic Dike

Limestone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1986 Assay/analysis

> SAMPLE TYPE: Chip

COMMODITY Silver **GRADE** 47.6000 Grams per tonne

Gold 5.1400 Grams per tonne

Copper 1.9300 Per cent

COMMENTS: A 0.95 metre chip sample across vein. REFERENCE: Assessment Report 15305, page 14.

CAPSULE GEOLOGY

The Sunshine occurrence is located on the middle fork of Glacier Creek, 8.5 kilometres northeast of Stewart. A massive sulphide bearing vein has been explored in this area for copper and precious metals since 1918.

The occurrence is hosted in argillite with minor interbedded limestone of the Middle Jurassic Salmon River Formation (Hazelton Group). In the immediate vicinity, these sediments are cut by felsic feldspar porphyritic dykes and to the southwest are intruded by an augite diorite stock.

The prospect consists of a 0.9 to 2.4 metre wide quartz-carbonate vein which strikes 020 to 034 degrees and dips 50 to 60  $\,$ degrees west. The vein occurs within a shear zone along the southeast side of a parallel feldspar porphyritic dyke. The vein has been traced along surface for up to 213 metres and downdip for a vertical distance of 137 metres. Mineralization consists of pods, up to 0.2 metres thick, of massive chalcopyrite and pyrite. A 0.95 metre chip sample across the vein assayed 5.14 grams per tonne gold, 47.6 grams per tonne silver and 1.93 per cent copper (Assessment Report 15305, page 14).

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## **CAPSULE GEOLOGY**

Two narrow quartz veins mineralized with sphalerite, galena and tetrahedrite occur just south of the first vein. From these, 2tonnes of high grade ore were produced in 1922, averaging 13,181 grams per tonne silver.

## **BIBLIOGRAPHY**

EMPR AR 1918-78; \*1919-70,71; 1921-66; 1922-73,74; \*1923-74; \*1925-85,86; 1935-B28,B29 EMPR ASS RPT 10046, \*15305 EMPR BULL 58; 63 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR PF (Morocco Explorations Inc. Prospectus, 1988)
EMR MP CORPFILE (Granby Mining Co. Ltd.; Sunshine Morning Star Mining Co. Ltd.)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM 159, pp. 34,35; 175, pp. 147,148

FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1989/06/03 CODED BY: GSB REVISED BY: PSF

MINFILE NUMBER: 103P 065

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MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 066

NATIONAL MINERAL INVENTORY: 103P13 Cu2

MINING DIVISION: Skeena

NORTHING: 6204774

EASTING: 446413

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REPORT: RGEN0100

1038

NAME(S): MORNING STAR COPPER, MORNING STAR, SUNSHINE

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 59 07 N LONGITUDE: 129 51 32 W ELEVATION: 1280 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location determined from plot of claim on "Salmon & Bear River Sections" map (Minister of Mines Annual Report 1925, page 80).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal TYPE: L01 Subvo **Epigenetic** 

Subvolcanic Cu-Ag-Au (As-Sb) x 0002 Metres DIMENSION: 0210 x 0002 STRIKE/DIP: 040/40S TREND/PLUNGE:

COMMENTS: The vein has been traced for 210 metres and is up to 1.8 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Salmon River

LITHOLOGY: Argillite Slate

Dioritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADF: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Morning Star Copper showing is located near the headwaters of the north fork of Glacier Creek, 9.5 kilometres northeast of Stewart. A vein was periodically investigated in this area for

copper between 1919 and 1923.

The showing consists of a 1.8 metre wide quartz-calcite vein, striking 040 degrees and dipping 40 degrees southeast, hosted in argillite (slate) of the Middle Jurassic Salmon River Formation (Hazelton Group). The vein has been traced along surface for approximately 210 metres and a parallel diorite dyke forms the hangingwall. The vein contains abundant pyrite and chalcopyrite on the hangingwall side for a width of 0.6 metres and the remaining 1.2 metres on the footwall side is only sparsely pyritized.

**BIBLIOGRAPHY** 

EMPR AR 1919-70; 1923-75; \*1925-80

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,

218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MP CORPFILE (Granby Mining Co. Ltd.; Sunshine Morning Star Mining

Co. Ltd.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 175, p. 132

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/31 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 066

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 067

NATIONAL MINERAL INVENTORY: 103P13 Ag7

MINING DIVISION: Skeena

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REPORT: RGEN0100

1039

NAME(S): BLACK BEAR - STEWART, BLACK BEAR

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

NTS MAP: 103P13W BC MAP:

LATITUDE: 55 58 52 N NORTHING: 6204351 LONGITUDE: 129 54 34 W EASTING: 443253

**ELEVATION:** Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on showings (Minister of Mines Annual Report 1924,

page 61).

COMMODITIES: Silver Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 130/50S DIMENSION: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Hazelton Salmon River

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

GRADE

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1924 Assay/analysis

COMMODITY

Silver 2060.0000 Grams per tonne

COMMENTS: Selected grab sample containing the best galena and sphalerite

mineralization.

REFERENCE: Minister of Mines Annual Report 1924, page 61.

**CAPSULE GEOLOGY** 

The Black Bear-Stewart showing is located on the southwest side of Glacier Creek, 7 kilometres northeast of Stewart. A 3 quartz-breccia vein was investigated in this area in 1924. A 3 metre wide

The vein, striking 130 degrees and dipping 50 degrees south, is hosted in argillite of the Middle Jurassic Salmon River Formation (Hazelton Group). The quartz matrix is mineralized with pyrite, galena and minor sphalerite. Selected grab samples containing the best galena and sphalerite mineralization, assayed up to 2060 grams per tonne silver (Minister of Mines Annual Report 1924, page 61).

**BIBLIOGRAPHY** 

EMPR AR \*1924-61 EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 175, p. 109

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/30 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 068

NATIONAL MINERAL INVENTORY: 103P13 Ag7

PAGE:

REPORT: RGEN0100

1040

NAME(S): **PORTLAND CANAL**, LITTLE JOE, GIPSY, LUCKY 7, LUCKY SEVEN

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 58 23 N LONGITUDE: 129 54 50 W NORTHING: 6203458 EASTING: 442964

ELEVATION: 823 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on the portal of the number 3 (A9) tunnel

(Assessment Report 2525, Maps 1 and 3).

COMMODITIES: Zinc Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Chalcopyrite Tetrahedrite Galena

Arsenopyrite Argentite COMMENTS: Sulphides as massive lenses.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Breccia Massive

CLASSIFICATION: Hydrothermal TYPE: I05 Polym **Epigenetic** 

Polymetallic veins Ag-Pb-Zn±Au SHAPE: Tabular

MODIFIER: Faulted DIMENSION: 73 x

x 49 x 1 Metres STRIKE/DIP: 155/30W TREND/PLUNGE:

COMMENTS: Dimensions given for previously mined ore shoot.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Hazelton Salmon River

LITHOLOGY: Argillite

Siltstone

Limestone

Hornblende Diorite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: PORTLAND CANAL REPORT ON: Y

> Unclassified YEAR: 1973

CATEGORY: QUANTITY: 11160 Tonnes

**COMMODITY GRADE** 

Silver 208.8000 Grams per tonne Gold 2 2300 Grams per tonne Lead 1.5800 Per cent 1.8700 Per cent Zinc

Reserves contained in a 58 metre long, 37 metre deep, 1.6 metre wide COMMENTS:

block.

REFERENCE: Assessment Report 4935, pages 1,8,9.

**CAPSULE GEOLOGY** 

The Portland Canal mine is located 3 kilometres south of Glacier Creek, 6 kilometres northeast of Stewart. The mine was briefly in operation between 1911 and 1912.

The deposit is hosted in thin-bedded argillite, siltstone and limestone of the Middle Jurassic Salmon River Formation (Hazelton Group). These sediments strike 160 degrees, dip 20 to 90 degrees west and are intruded to the southeast by an augite diorite stock. The deposit is developed in the Portland Canal Fissure Zone. This zone of faulting and shearing trends north, dips steeply west and hosts a vein system that extends southward for 6.5 kilometres from the Victoria/Dandy occurrence (104A 067) on the north, through RUN DATE: 26-Jun-2003 **MINFILE**RUN TIME: 12:06:33 GF01 06

# MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## CAPSULE GEOLOGY

the Dunwell mine across Glacier Creek to the Ben Bolt occurrence  $(103P\ 080)$ .

The deposit consists of a quartz-breccia vein striking 155 degrees and dipping 30 degrees west in argillite. The vein, up to 10 metres wide with an average width of 2.4 metres, has been traced along strike for 600 metres. The vein is cut by several vertical shear zones which strike 169 degrees. Several parallel hornblende diorite dykes closely follow the vein.

Mineralization consists of lenses of massive pyrite, tetrahed-rite, galena, sphalerite and minor chalcopyrite, arsenopyrite and argentite. The mineralization is concentrated in two flat lying pod shaped ore shoots from 0.6 to 3.0 metres wide (average 1.5 metres in width). The shoots extend along strike for up to 49 metres and down dip for up to 73 metres.

Drilling in 1973 defined a reserve of 11,160 tonnes grading 2.23 grams per tonne gold, 208.8 grams per tonne silver, 1.58 per cent lead and 1.87 per cent zinc over a strike length of 58 metres, dip length of 37 metres and an average width of 1.6 metres (Assessment Report 4935, pages 1,8,9).

A branch vein (the Gipsy vein) on the north end of the main vein, strikes 050 to 074 degrees for 60 metres and dips 60 to 70 degrees southeast. The vein varies from a few centimetres to a metre in width and is adjacent to a parallel feldspar porphyritic dyke. Mineralization consists of pyrite, galena, sphalerite and minor arsenopyrite and chalcopyrite. A 0.91 metre chip sample across this vein assayed 41.1 grams per tonne gold, 185 grams per tonne silver and 5 per cent lead (Minister of Mines Annual Report 1909, page 61).

Production from the Portland Canal mine totalled 8164 tonnes of ore with an average grade of 2.33 grams per tonne gold, 98.55 grams per tonne silver and 1.56 per cent lead.

#### **BIBLIOGRAPHY**

```
EMPR AR 1906-64,65; 1907-73; 1908-55; *1909-59-61; 1910-63,*71-75; 1911-74; 1912-104; 1924-61; 1925-84; 1935-B4; 1955-17; 1967-36; 1968-53,54

EMPR ASS RPT *2525, 3083, *4935

EMPR BULL 58, pp. 147,148; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1969-57,58; 1971-126; 1972-509,510; 1973-490,491

EMPR MAP 8

EMPR PF (Elmendorf, W.J. (1907,1908) Reports; Arscott, D. (1971) Report; Starbird Mines Ltd. Prospectus, 1971)

EMR MIN BULL MR 223 B.C. 314

EMR MP CORPFILE (Portland Canal Mining Co. Ltd.; Portal Mining Co. Ltd.; Cassiar Consolidated Mines Ltd.; Starbird Mines Ltd.; Silver Princess Resources Inc.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM *32, pp. 31-36; 159, pp. 48-53; 175, p. 136

GSC SUM RPT *1910, pp. 71-76

GCNL #190, 1979; #170, 1980; #49, 1982; #63, 1984

EMPR OF 1998-10
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/06/03 REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 069

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1042

 $\label{eq:NAME} \mbox{NAME(S): } \underline{\mbox{MOBILE}}, \mbox{ARGENTINE, KENNETH,} \\ \mbox{GIBSON}$ 

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 57 59 N LONGITUDE: 129 53 59 W NORTHING: 6202704 EASTING: 443838

ELEVATION: 1189 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of Number 4 adit (Assessment Report

745, Map 2).

COMMODITIES: Zinc Silver Lead Copper Gold

Antimony

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Argentite Tetrahedrite

Proustite Stibnite Gold Silvěr

ASSOCIATED: Quartz Carbonate

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Breccia Disseminated

CLASSIFICATION: Hydrothermal Epigenetic TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0580 x 0006 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Shear zones and quartz-breccia veins strike north-northeast, dip

steeply, extend for up to 580 metres and are up to 6.1 metres

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Hazelton Salmon River

> LITHOLOGY: Argillite Siltstone

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> CATEGORY: YEAR: 1929 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver 363,0000 Grams per tonne

4.2000 Zinc Per cent

COMMENTS: A 0.91 metre chip sample. Trace gold and lead. REFERENCE: Minister of Mines Annual Report 1929, page 95.

**CAPSULE GEOLOGY** 

The Mobile occurrence is located just west of the south fork of Glacier Creek, 5.5 kilometres northeast of Stewart. Several shipments of high grade ore were made from this prospect between 1930

and 1949.

The occurrence is hosted in well bedded argillite and siltstone of the Middle Jurassic Salmon River Formation (Hazelton Group). These are intruded to the east by a Tertiary(?) augite diorite stock. The underlying greenstone of the Unuk River Formation outcrops to the west. These sediments strike 160 degrees and dip 50 degrees south-

west.

The Mobile occurrence is comprised of a series of steeply dipping north-northeast striking shear zones and quartz-breccia veins. These are up to 6.1 metres wide, extend for up to 580 metres in length and contain quartz-carbonate lenses, up to 0.6 metres wide.

Mineralization consists of galena, sphalerite and pyrite with minor argentite, tetrahedrite, stibnite, proustite and rare native

> MINFILE NUMBER: 103P 069

RUN DATE: 26-Jun-2003 MINFILE MASTER
RUN TIME: 12:06:33 GEOLOGICAL SURVI

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## CAPSULE GEOLOGY

gold and silver. The mineralization occurs within the quartz-carbonate lenses and is disseminated discontinuously throughout the shear zones and breccia veins. A 0.91 metre chip sample across a shear zone assayed trace gold, 363 grams per tonne silver, trace lead and 4.2 per cent zinc (Ministry of Mines Annual Report 1929, page 95). A selected grab sample assayed 1.37 grams per tonne gold, 3805 grams per tonne silver, 19 per cent lead and 12 per cent zinc (Ministry of Mines Annual Report 1931, page 42).

grams per tonne silver, 19 per cent lead and 12 per cent zinc (Ministry of Mines Annual Report 1931, page 42).

Production for 1930 and 1949 totalled 12 tonnes with an average grade of 2.7 grams per tonne gold, 8247 grams per tonne silver, 8.0 per cent lead, 9.6 per cent zinc and 0.3 per cent copper.

## **BIBLIOGRAPHY**

EM EXPL 2001-1-9
EMPR AR 1919-65; 1920-54,44; \*1921-64,65; 1922-69; 1923-71-73;
 1927-90,91; 1929-95; 1930-105,106; 1931-42; 1932-58; 1933-53;
 1934-B24; \*1949-41; 1965-51; 1966-40
EMPR ASS RPT 745, 1010, 14331, 16157
EMPR BULL 58, p. 136; 63
EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,
 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243
EMPR MAP 8
EMR MP CORPFILE (Mobile Mine, Kenneth Group, Anglo United Development Corp. Ltd.)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM 175, p. 131

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N ATE REVISED: 1989/06/06 REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 070

NATIONAL MINERAL INVENTORY: 103P13 Ag9

PAGE:

EASTING: 443926

REPORT: RGEN0100

1044

NAME(S): AJAX - REX, BEN BOLT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83) LATITUDE: 55 58 00 N NORTHING: 6202734

LONGITUDE: 129 53 54 W ELEVATION: 678 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on Ajax claim (Lot 770), as shown on Map 103P/13.

COMMODITIES: Zinc. I ead

**MINERALS** 

SIGNIFICANT: Pyrite ALTERATION TYPE: Oxidation Sphalerite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Discordant

CLASSIFICATION: Hydrothermal Epigenetic

Subvolcanic Cu-Ag-Au (As-Sb) TREND/PLUNGE: TYPE: 105 DIMENSION: 0008 Polymetallic veins Ag-Pb-Zn±Au Metres L01 STRIKE/DIP:

COMMENTS: Fracture zone strikes west, dips north.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION** GROUP IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Hazelton Salmon River

Tertiary Coast Plutonic Complex

LITHOLOGY: Augite Diorite Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
COMMENTS: Situated at the western margin of the Stewart Complex.

**CAPSULE GEOLOGY** 

The Ajax-Rex showing is located just east of the south fork of

Glacier Creek, 6.5 kilometres northeast of Stewart.

The showing consists of a 7.6 metre wide gossanous fracture zone in the northwestern margin of a Tertiary(?) augite diorite stock. The stock intrudes argillite of the Middle Jurassic Salmon River Formation (Hazelton Group). The zone strikes west, dips north and contains abundant pyrite, sphalerite and minor galena in a 1.5 to 1.8 metre wide section near the hangingwall.

**BIBLIOGRAPHY** 

EMPR AR 1907-73; 1910-64; 1911-74; 1912-324

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MP CORPFILE (Cassiar Consolidated Mines Ltd.; Silver Princess

Resources Inc.)
GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 32, p. 45; 175, p. 104 GSC SUM RPT 1910, p. 79

GCNL #190, 1979

DATE CODED: 1985/07/24 DATE REVISED: 1989/06/05 CODED BY: GSB FIELD CHECK: N REVISED BY: PSF FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 071

NATIONAL MINERAL INVENTORY: 103P13 Ag8

NAME(S): <u>ALBANY</u>, HALLIE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: LATITUDE: 55 58 26 N

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1045

LONGITUDE: 129 54 00 W ELEVATION: 488 Metres

NORTHING: 6203539 EASTING: 443832

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on adit on east bank of Albany Creek (Geological

Survey of Canada Memoir 175, pages 46,47).

COMMODITIES: Zinc Gold I ead Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena

COMMENTS: Locally massive. ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

Breccia Massive

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 144/50W TREND/PLUNGE:

COMMENTS: Approximate attitude of 0.15 to 0.30 metre wide quartz-breccia

vein.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Hazelton Salmon River

LITHOLOGY: Argillite

Augite Diorite Intrusive

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1926 SAMPLE TYPE: Grab

**GRADE** 

COMMODITY Silver 343.0000 Grams per tonne Gold 6.6300 Grams per tonne Lead 17.0000 Per cent Per cent Zinc 4.0000

COMMENTS: From 0.15 to 0.3 metre wide quartz-breccia vein. REFERENCE: Minister of Mines Annual Report 1926, page 92.

CAPSULE GEOLOGY

The Albany showing is located on the south fork of Glacier Creek (Albany Creek), 7 kilometres northeast of Stewart. Several veins were investigated for polymetallic mineralization between 1909 and 1925.

The occurrence consists of two veins hosted in argillite of the Middle Jurassic Salmon River Formation (Hazelton Group) adjacent to the northwest margin of a Tertiary(?) augite diorite stock.

A 0.15 to 0.30 metre wide quartz-breccia vein striking 144 degrees and dipping 50 degrees southwest occurs just east of the creek. The vein contains massive pyrite and minor galena and sphalerite over a width of up to  $0.30~{\rm metres}$ . A selected grab sample from the vein assayed  $6.63~{\rm grams}$  per tonne gold,  $343~{\rm grams}$  per tonne silver, 17 per cent lead and 4 per cent zinc (Minister of Mines

Annual Report 1926, page 92).
A 1.5 to 2.4 metre wide vuggy quartz-breccia vein, striking 159 degrees and dipping between 10 degrees east and 50 degrees west, outcrops along the east bank of the creek to the northwest. The vein is RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

mineralized with abundant, locally massive pyrite, sphalerite and galena. A few selected samples assayed up to trace gold, 247 grams per tonne silver, 24 per cent lead and 34 per cent zinc (Minister of Mines Annual Report 1926, page 92).

**BIBLIOGRAPHY** 

EMPR AR 1909-62; 1925-84; \*1926-92; 1927-89 EMPR BULL 58; 63
EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 GSC MAP 215A; 307A; 315A; 1385A GSC MEM 159, pp. 40,47; \*175, pp. 104,105,120

DATE CODED: 1985/07/24 DATE REVISED: 1989/06/03 FIELD CHECK: N CODED BY: GSB REVISED BY: PSF

MINFILE NUMBER: 103P 071

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 072

NATIONAL MINERAL INVENTORY:

NAME(S): **SWAN**, AJAX

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

1047

NTS MAP: 103P13W BC MAP: LATITUDE: 55 57 39 N LONGITUDE: 129 57 31 W ELEVATION: 107 Metres

NORTHING: 6202135 EASTING: 440154

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on showing (Geology, Exploration and Mining in British Columbia 1969, page 58, Figure 9).

COMMODITIES: Zinc

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrrhotite

ASSOCIATED: Garnet Epidote Diopside Epidote Diopside

ALTERATION: Garnet
ALTERATION TYPE: Skarn
MINERALIZATION AGE: Eocene

ISOTOPIC AGE: 47-51 (+/- 2-3) Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Skarn TYPE: K02 Pb

Pb-Zn skarn

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Unuk River

LITHOLOGY: Meta Sediment/Sedimentary

Biotite Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE:

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Swan showing is located on the east side of the Bear River,

6 kilometres north-northeast of Stewart.

The showing comprises a skarn zone developed in metasediments of the Lower Jurassic Unuk River Formation (Hazelton Group) just northwest of the contact with biotite quartz monzonite of the Hyder Pluton. The skarn zone contains sphalerite and pyrrhotite in a

gangue of garnet, epidote and diopside.

**BIBLIOGRAPHY** 

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM \*1969-58

EMPR MAP 8

GSC MAP 215A; 307A; 1385A

DATE CODED: 1989/06/04 CODED BY: PSF REVISED BY: FIELD CHECK: N FIELD CHECK: DATE REVISED: / /

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 073

NATIONAL MINERAL INVENTORY: 103P13 Ag16

Copper

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6203216

**EASTING: 444885** 

NAME(S): COLUMBIA - EVENING SUN, SILVER KING, RUSH - COLUMBIA

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103P13W BC MAP:

LATITUDE: 55 58 16 N LONGITUDE: 129 52 59 W ELEVATION: 760 Metres

LOCATION ACCURACY: Within 500M

COMMODITIES: Lead

COMMENTS: Location centered on portal of westernmost adit on Evening Sun claim

Silver

claim-Lot 1517 (Assessment Report 15305, Figure 3).

Antimony

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite

Pyrite

Arsenopyrite

Tetrahedrite

7inc

PAGE:

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1048

Stibnite

Gold

ASSOCIATED: Quartz

Siderite

ALTERATION: Chlorite
ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia

CLASSIFICATION: Hydrothermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

SHAPE: Bladed

DIMENSION: 0480 x 0225 x 0001 Metres STRIKE/DIP: 065/85S

COMMENTS: Vein, 0.30 to 1.5 metres wide, dips 85 degrees southeast.

Tertiary

HOST ROCK DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP

**FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

Coast Plutonic Complex

PHYSIOGRAPHIC AREA: Boundary Ranges

LITHOLOGY: Augite Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

Stikine

COMMENTS: Situated at the western margin of the Stewart Complex.

INVENTORY

ORE ZONE: COLUMBIA-EVENING SUN

REPORT ON: Y

CATEGORY:

Inferred

118000 Tonnes

YEAR: 1988

QUANTITY: COMMODITY

**GRADE** 120.0000

Grams per tonne

Silver Gold I ead

0.6900

Grams per tonne Per cent

3.0000 COMMENTS: Reserves contained within a block with dimensions of 360 by 137

by 1.0 metres.

REFERENCE: Property File - Prospectus, Morocco Explorations, 1988, page 18.

**CAPSULE GEOLOGY** 

The Columbia-Evening Sun occurrence is located on the middle fork of Glacier Creek, 7.5 kilometres northeast of Stewart. A few tonnes of high grade ore were produced between 1910 and 1913 from this occurrence.

The occurrence is hosted in a 3 kilometre long, 2 kilometre wide augite diorite stock that intrudes argillite and siltstones of the

Middle Jurassic Salmon River Formation (Hazelton Group).

The occurrence consists of a 0.3 to 1.5 metre wide quartzsiderite-breccia vein striking 065 degrees for 480 metres and dipping 85 to 90 degrees southeast. The vein occurs within a shear zone, up to 2 metres wide, in chloritized diorite and has been traced downdip The vein occurs within a shear zone, up for a vertical distance of 225 metres. The vein is associated with a parallel, fine grained, altered dyke over portions of its strike length.

Mineralization consists of galena, sphalerite, pyrite and minor arsenopyrite, tetrahedrite and stibnite. The mineralization occurs

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

as veinlets and discrete bands, up to 5 millimetres thick, locally concentrated to form higher grade ore shoots within the vein. The vein contains inferred reserves of 118,000 tonnes grading 0.69 grams per tonne gold, 120 grams per tonne silver and 3 per cent lead over a strike length of 360 metres, a dip extent of 137 metres and an average width of 1 metre (Property File - Morocco Explorations, Prospectus 1988 p.18). Ore shoots within the vein average 2.4 grams per tonne gold, 1131 grams per tonne silver and 20 per cent lead (Property File - Prospectus, Morocco Explorations, 1988, page 18).

A parallel quartz vein, up to 0.15 metres wide, occurs 24 metres to the southeast and contains minor sphalerite and galena. A 0.15 metre chip sample assayed 3.4 grams per tonne gold, 24 grams per tonne silver and 0.004 per cent lead (Assessment Report 15305, page 11).

Two shipments of hand sorted ore totalling ten tonnes averaged 3.1 grams per tonne gold, 7847 grams per tonne silver, 18.06 per cent lead and 6.1 per cent copper.

#### **BIBLIOGRAPHY**

EMPR AR 1905-80; 1906-66; 1907-73; 1908-56; 1909-62,63; \*1910-63; 1912-108; 1913-89; 1919-71,72; 1920-59; 1921-65; 1922-74,75; 1923-74; 1925-85; 1926-91; 1927-89; 1928-98; 1935-B28,B29 EMPR ASS RPT \*10046, \*15305 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR PF (\*Morocco Explorations Ltd. Prospectus, 1988) EMR MP CORPFILE (Rush-Columbia Mines Ltd.; L & L Consolidated Mines Ltd.) GSC MAP 215A; 307A; 315A; 1385A GSC MEM 32, pp. 44,45; 159, pp. 44-46; 175, pp. 110,146 GSC SUM RPT 1910, p. 79 EMPR OF 1998-10

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N ATE REVISED: 1989/06/04 REVISED BY: PSF FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 074

NATIONAL MINERAL INVENTORY: 103P12 Cu3

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6178049

EASTING: 462178

REPORT: RGEN0100

1050

NAME(S): LUCKY STRIKE NORTH, LUCKY STRIKE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 44 48 N

LONGITUDE: 129 36 09 W ELEVATION: 1400 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on showing (Minister of Mines Annual Report 1965,

page 66).

COMMODITIES: Copper Lead 7inc

**MINERALS** 

SIGNIFICANT: Chalcopyrite Galena Sphalerite Pyrite

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

<u>GRO</u>UP IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** 

Upper Triassic Stuhini Undefined Formation Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Argillite

Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Lucky Strike North showing is located 1.25 kilometres north of the west fork of the Kitsault River,  $30.5\ \mathrm{kilometres}$  north-

northwest of Alice Arm.

A shear zone contains quartz-calcite stringers mineralized with chalcopyrite, galena, sphalerite and pyrite. This zone is developed in Upper Triassic Stuhini Group(?) argillites near the contact with overlying plagicalse-hornblende porphyritic andesite, informally known as the Copper Belt, of the Lower Jurassic Hazelton Group.

A 3.7 metre wide zone of brecciated Copper Belt andesite east of the shear zone contains at its center, a 0.3 metre wide calcite vein mineralized with chalcopyrite.

**BIBLIOGRAPHY** 

EMPR AR 1922-57,58; 1926-82; \*1965-66 EMPR ASS RPT 8166, 9076, 16034, 18657 EMPR EXPL 1980-409,410; 1987-C364

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243 EMPR MAP 8 EMPR OF 1986-2

EMPR PF (Cambria Resources Ltd. Prospectus, 1987)

GSC MAP 307A; 1385A

DATE CODED: 1989/05/12 CODED BY: PSF FIELD CHECK: N DATE REVISED: / / REVISED BY: FIELD CHECK:

MINFILE NUMBER: 103P 074

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 075

NATIONAL MINERAL INVENTORY: 103P13 Ag22

NAME(S): MAGEE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1051

LATITUDE: 55 55 34 N

NORTHING: 6198250 EASTING: 441628

LONGITUDE: 129 56 03 W ELEVATION: 1875 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on Trench #3 (Assessment Report 8650, Figure 3).

COMMODITIES: Copper Silver

**MINERALS** 

SIGNIFICANT: Tetrahedrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 128/18N TREND/PLUNGE:

COMMENTS: Attitude of vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Unuk River

LITHOLOGY: Dacitic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1980 Assay/analysis

> SAMPLE TYPE: Grab

**GRADE** COMMODITY Silver 2.5800 Grams per tonne 0.4600 Per cent

Copper COMMENTS: Sample of stained quartz. Trace lead. REFERENCE: Assessment Report 8650, page 9.

**CAPSULE GEOLOGY** 

The Magee showing, located 4 kilometres east-southeast of Stewart, was discovered in 1980. It consists of a 0.3 metre wide tetrahedrite-quartz vein striking 128 degrees and dipping 18 degrees northeast. The vein is hosted in dacitic tuff of the Lower Jurassic Unuk River Formation (Hazelton Group). A sample assayed 2.58 grams per tonne silver, 0.46 per cent copper and trace lead (Assessment

Report 8650, page 9).

**BIBLIOGRAPHY** 

EMPR ASS RPT 8403, \*8650

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

GSC MAP 215A; 307A; 315A; 1385A

DATE CODED: 1989/05/14 CODED BY: PSF REVISED BY: FIELD CHECK: N DATE REVISED: / / FIFI D CHECK:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 076 NATIONAL MINERAL INVENTORY: 103P13 Ag15

NAME(S): <u>L & L</u>, KATHERINE

STATUS: Past Producer REGIONS: British Columbia Open Pit Underground MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 58 30 N

NORTHING: 6203640 LONGITUDE: 129 52 16 W ELEVATION: 1100 Metres EASTING: 445636

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of southern most adit on L & L Number

1 claim-Lot 4526 (Assessment Report 15305, Figure 3).

COMMODITIES: Zinc Lead Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite Arsenopyrite Galena Tetrahedrite

Pyrrhotite Pyrrhotite Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

Breccia

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Epigenetic Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Bladed MODIFIER: Faulted

TREND/PLUNGE: DIMENSION: 0350 x 0120 x 0001 Metres STRIKE/DIP: 156/73S

COMMENTS: Vein is 0.60 to 1.5 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

**FORMATION** TRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Hazelton Salmon River

Tertiary Coast Plutonic Complex

LITHOLOGY: Augite Diorite

Feldspar Porphyritic Dike

Argillite

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine COMMENTS: Situated at the western margin of the Stewart Complex.

INVENTORY

ORE ZONE: L & L-MAIN VEIN REPORT ON: Y

> CATEGORY: QUANTITY: YEAR: 1988 Inferred

18000 Tonnes **GRADE** COMMODITY

31.0000 0.2700 Silver Grams per tonne Gold Grams per tonne 0.3600 Lead Per cent

Zinc 2.1000 Per cent COMMENTS: Reserves within a block with dimensions of 180 by 120 by 0.6 metres. Potential for 118,000 tonnes from southeastern extension. REFERENCE: Property File - Prospectus, Morocco Explorations, 1988, page 18.

ORE ZONE: L & L-HIGHGRADE ORE REPORT ON: Y

CATEGORY: YEAR: 1981 Combined QUANTITY: 327 Tonnes

**GRADE** COMMODITY

Silver 2057.0000 Grams per tonne

COMMENTS: Indicated and inferred reserves within a block with dimensions of 36

by 36 by 0.3 metres. REFERENCE: Assessment Report 10046, page 12.

CAPSULE GEOLOGY

The L & L occurrence is located on the middle fork of Glacier Creek, south of the Black Hills Glacier and 8.5 kilometres northeast Several shipments of high grade ore were made, between of Stewart. 1913 and 1927, from this occurrence.

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GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

#### CAPSULE GEOLOGY

The occurrence consists of several veins hosted in a 3 kilometre long by 2 kilometre wide Tertiary(?) augite diorite stock that intrudes argillite of the Middle Jurassic Salmon River Formation (Hazelton Group).

The most extensive mineralization occurs in a 0.60 to 1.5 metre wide quartz-breccia vein. The vein strikes 156 degrees for 350 metres and dips 73 degrees southwest, extending downdip for at least 120 metres. The vein is developed adjacent to a subparallel feldspar porphyritic dyke. Faulting has caused 1.0 to 2.0 metre displacements of the vein.

Mineralization consists of sphalerite, pyrite, arsenopyrite and minor galena, tetrahedrite, pyrrhotite and chalcopyrite. The mineralization is confined largely to a 0.3 to 0.8 metre wide, 36 metre long and 36 metre deep ore shoot on the hangingwall of the vein. This ore shoot contains 63.5 tonnes of indicated (proven) reserves and an additional 172.4 tonnes of inferred (possible) reserves for a total of 326.6 tonnes over a 0.3 metre width, averaging 2057 grams per tonne silver (Assessment Report 10046, page 12). The entire vein contains inferred (possible) reserves of 18,000 tonnes within a 180 metre long, 120 metre deep, 0.6 metre wide block grading 0.27 grams per tonne gold, 31 grams per tonne silver, 2.1 per cent zinc and 0.36 per cent lead (Property File - Morocco Explorations Prospectus 1988, p. 18). A potential for 118,000 tonnes of similar grade is contained in the southeastern extension of the vein (Property File - Prospectus, Morocco Explorations, 1988, page 18).

A parallel 2 metre wide shear zone, sixty metres to the southwest, contains a quartz vein up to 0.3 metres wide mineralized with pyrite, sphalerite, and some arsenopyrite. A selected grab sample assayed 0.87 grams per tonne gold, 30.2 grams per tonne silver, 0.36 per cent lead and 2.18 per cent zinc (Assessment Report 15305, p. 13).

Between 1913 and 1925, 63 tonnes of sorted ore were mined, with an average grade of 3.1 grams per tonne gold, 6292 grams per tonne silver and 13.7 per cent lead, 15.6 per cent zinc and 0.01 per cent copper.

### **BIBLIOGRAPHY**

EMPR AR 1910-63; 1913-89; 1919-71; 1921-66; \*1922-74; 1923-73; \*1924-66-68; 1925-85,447; 1926-91; 1927-89; 1928-98; 1934-B24; 1935-B28,B29 EMPR ASS RPT \*10046, \*15305 EMPR BULL 58; 63 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR PF (\*Morocco Explorations Inc. Prospectus, 1988) GSC MAP 215A; 307A; 315A; 1385A GSC MEM 32, p. 45; 159, pp. 34,35; 175, pp. 124,125,144 EMPR OF 1998-10

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 077

NATIONAL MINERAL INVENTORY: 103P12 Cu3

NAME(S): RAMBLER, LUCKY STRIKE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1054

LATITUDE: 55 43 55 N LONGITUDE: 129 34 47 W ELEVATION: 1021 Metres

NORTHING: 6176399 EASTING: 463594

LOCATION ACCURACY: Within 500M

COMMENTS: Location based on description of claim and showing (Minister of Mines Annual Report 1922, page 57).

COMMODITIES: Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite ASSOCIATED: Quartz Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Vein Disseminated

CLASSIFICATION: Hydrothermal TYPE: I02 Intrus Epigenetic 105 Polymetallic veins Ag-Pb-Zn±Au Intrusion-related Au pyrrhotite veins DIMENSION: 0180 x 0005 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Breccia vein strikes 000 degrees (north), is 4.9 metres wide and

extends for 180 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Argillite Siltstone

Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1922 SAMPLE TYPE: Grab

**GRADE** 

COMMODITY Gold 8.3000 Grams per tonne Copper 8.0000 Per cent

COMMENTS: Highest values for grab samples. REFERENCE: Minister of Mines Annual Report 1922, page 57.

CAPSULE GEOLOGY

The Rambler showing is located 0.75 kilometres north of the west fork of the Kitsault River, 28.5 kilometres north-northwest of Alice Arm.

The showing occurs in a sequence of plagioclase-hornblende porphyritic andesite and minor interbedded black siltstone/argillite of the Lower Jurassic Hazelton Group.

The mineralization is hosted in a north striking, 4.9 metre wide quartz-calcite breccia vein in argillite. The vein, extending for 180 metres, consists of brecciated argillite fragments cemented with quartz and calcite which contains abundant disseminated pyrite and chalcopyrite. Grab samples assayed up to 8 per cent copper, and between 3.3 and 8.3 grams per tonne gold (Minister of Mines Annual Report 1922, page 57).

BIBLIOGRAPHY

EM EXPL 2001-1-9

EMPR AR \*1922-57; 1926-82; 1929-87 EMPR ASS RPT 8166, 9076, 16034, 18657 EMPR EXPL 1980-409,410; 1987-C364

> MINFILE NUMBER: 103P 077

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

235-243 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (\*Cambria Resources Ltd. Prospectus, 1987) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 71

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 078

NATIONAL MINERAL INVENTORY: 103P13 Ag

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

1056

NAME(S): WINDSOR, BLACK BEAR, LAURA, RAVEN, LAST CHANCE, GOLD BLUFF

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W

BC MAP:

LATITUDE: 55 57 29 N LONGITUDE: 129 45 46 W NORTHING: 6201674 EASTING: 452376

ELEVATION: 1130 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Approximate location of main showing on Lot 5398 (NTS Map 103P13).

COMMODITIES: Gold 7inc Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Vein CLASSIFICATION: Hydrothermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

TYPE: 105 F SHAPE: Irregular

MODIFIER: Fractured Sheared DIMENSION: 0005 Metres STRIKE/DIP: 330/40W TREND/PLUNGE:

COMMENTS: Dimension and attitude of main showing.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GRO**UP **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic

Hazelton Salmon River

LITHOLOGY: Argillite Diorite Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Bowser Lake Plutonic Rocks

INVENTORY

ORE ZONE: OPENCUT REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1924 SAMPLE TYPE: Grab

COMMODITY Gold 18.2000 Grams per tonne

COMMENTS: Sample from open cut across 1.5 metres. Quoted as \$12 per ton gold.

REFERENCE: Energy, Mines and Petroleum Resources Annual Report 1924 page 68.

**CAPSULE GEOLOGY** 

The Windsor showing is located west of Bromley glacier approximately 16 kilometres east of Stewart. The area was investigated initially in the early 1900's and has been sporadically explored up to 1974.

The area is underlain by argillite of the Middle Jurassic Salmon River Formation (Hazelton Group) intruded by a number of large diorite dykes. The argillite strikes approximately north-south and

diorite dykes. The argillite scrines approximatel, and dips 40 degrees west.

The showing comprises crushed and silicified zones up to 6 metres wide which have approximately the same attitude as the host argillites. The main showing consists of 4.6 metres of quartz and silicified argillites mineralized with locally abundant pyrite, galena and sphalerite. Patches and lenses of galena and sphalerite contain high silver and low gold values. The main showing strikes 330 degrees and dips 40 degrees west. A number of smaller showings also occur in the vicinity.

The main zone has been investigated through several open cuts and a 23 metre crosscut tunnel. One cut gave gold values of 18.2 grams per tonne across 1.5 metres Energy, Mines and Petroleum Resources Annual Report 1924 p. 68)

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1905-81, 1916-520, 1911-74, \*1924-68, 1930-107 EMPR BULL 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1974-326 EMPR MAP 8

EMPR PF (George Cross Newsletter, date unknown c.1974) EMR CORPFILE (Tournigan Mining Explorations Limited)
GSC MAP 193A, 215A, 315A, 1385A
GSC MEM \*32-55, 175-109

WWW http://www.infomine.com/

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/14 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 078

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 079

NATIONAL MINERAL INVENTORY: 103P1 Mo1

PAGE:

REPORT: RGEN0100

1058

NAME(S): MOGUL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Omineca

NTS MAP: 103P01W BC MAP: UTM ZONE: 09 (NAD 83)

NORTHING: 6098338 EASTING: 546236 LATITUDE: 55 01 47 N

LONGITUDE: 128 16 36 W ELEVATION: 305 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of approximate centre of claims (Assessment Report 4248).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown

TYPE: L05 Porphyry Mo (Low F- type)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Tertiary Coast Plutonic Complex

LITHOLOGY: Granite

HOSTROCK COMMENTS: Coast Plutonic Complex rocks are Tertiary and possibly younger in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Nass Depression

TERRANE: Stikine Bowser Lake

**CAPSULE GEOLOGY** 

The Mogul showing is located on the south bank of the Skeena River approximately 3.2 kilometres northeast of Cedarvale. The area is underlain by sediments of the Middle to Upper Jurassic Bowser Lake Group which has been intruded by Tertiary

(and possibly younger) granitic rocks of the Coast Plutonic Complex.

Minor molybdenite is reported to occur in fractures of granitic

rocks. No other information is available.

**BIBLIOGRAPHY** 

EMPR ASS RPT 2873, 4248 EMPR BULL 63; 64

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM \*1971-119, 1973-488

EMPR MAP 8 GSC MAP 1385A

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/21 CODED BY: GSB FIELD CHECK: N REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 079

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 080

NATIONAL MINERAL INVENTORY: 103P13 Ag9

NAME(S): **BEN BOLT**, JUMBO

STATUS: Prospect REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1059

LATITUDE: 55 57 17 N LONGITUDE: 129 53 46 W ELEVATION: 671 Metres NORTHING: 6201403 **EASTING: 444047** 

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of easternmost adit (Geological Survey

of Canada Map 215A).

COMMODITIES: Lead 7inc Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Chalcopyrite Pyrrhotite

Arsenopyrite ASSOCIATED: Quartz ALTERATION: Quartz ALTERATION TYPE: Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Breccia

CLASSIFICATION: Hydrothermal Epigenetic TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0032 x 0015 x 0003 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Dimensions given for ore shoot within a northwest striking 22 to 30

degrees southwest dipping vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Hazelton Salmon River

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: ORE SHOOT REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1913

SAMPLE TYPE: Chip

COMMODITY GRADE Silver 193,0000 Grams per tonne 2,4000 Gold Grams per tonne

0.9000 Per cent Copper 15.0100 Per cent Lead Zinc 3.1600 Per cent

COMMENTS: A 4.3 metre chip sample across ore shoot.

REFERENCE: Geological Survey of Canada Memoir 32, page 38.

CAPSULE GEOLOGY

The Ben Bolt occurrence is located near the headwaters of the South fork of Glacier Creek, 6 kilometres east-northeast of Stewart. The vein, carrying polymetallic mineralization, was periodically investigated between 1906 and 1955.

The mineralized quartz breecia zone is hosted in argillite of

the Middle Jurassic Salmon River Formation (Hazelton Group) near the southwest margin of a Tertiary(?) augite diorite stock. The argillite strikes northwest and dips gently southwest.

The occurrence is situated at the south end of the Portland I Fissure Zone. This zone of faulting and shearing trends north, Canal Fissure Zone. dips steeply west and hosts a vein system that extends from the Victoria/Dandy occurrence (104A 067) on the north, through the Dunwell mine (103P 052) across Glacier Creek to this occurrence.

The occurrence consists of a 2.4 to 30 metre wide quartz-breccia The zone contains distinct quartz veins and lenses up to 1.8

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#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

metres width and outcropping along a length of 600 metres. The vein strikes northwest and dips 22 to 30 degrees southwest. A few subparallel silicified porphyritic diorite dykes are associated with the vein.

Mineralization consists of disseminated pyrite, galena, sphalerite and minor chalcopyrite, pyrrhotite and arsenopyrite in a gangue of quartz and silicified argillite fragments. An intensely mineralized zone forms a 32 metre long ore shoot varying from a few centimetres to at least 3 metres in width and extending downdip for 15 metres. A 4.3 metre chip sample across the ore shoot assayed 2.4 grams per tonne gold, 193 grams per tonne silver, 15.01 per cent lead, 0.9 per cent copper and 3.16 per cent zinc (Geological Survey of Canada Memoir 32, page 38).

### **BIBLIOGRAPHY**

EMPR AR 1906-65,66; 1907-73; 1909-62; 1910-64; 1911-74; 1912-324; 1913-90; 1914-157; 1929-96,97; 1930-106; 1932-59; 1955-17 EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MIN BR FILE MR-AG-301.00, p. 90, Jun. 1930

EMR MP CORPFILE (Cassiar Consolidated Mines Ltd.; Silver Princess Resources Inc.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM \*32, pp. 36-38; 159, pp. 47,48; 175, pp. 107,108

GSC SUM RPT 1910, p. 76

GCNL #190, 1979

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/06/05 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 080

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 081

NATIONAL MINERAL INVENTORY: 103P13 Ag8,9

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6202246

EASTING: 443382

PAGE:

REPORT: RGEN0100

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NAME(S): CHICAGO, COOK & DOBSONS

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P13W BC MAP:

LATITUDE: 55 57 44 N LONGITUDE: 129 54 25 W ELEVATION: 732 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on showing on west side of Albany Creek

(Geological Survey of Canada Map 215A).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Pyrite Galena

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

IT
CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Breccia hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** 

Middle Jurassic Hazelton **FORMATION** Salmon River IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane
TERRANE: Stikine
METAMORPHIC TYPE: Regional PHYSIOGRAPHIC AREA: Boundary Ranges

**RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Chicago showing is located on the west bank of the south

fork of Glacier Creek, 6 kilometres northeast of Stewart.

The showing consists of a 2.4 to 7.6 metre wide quartz breccia

vein hosted in Middle Jurassic Salmon River Formation (Hazelton Group) argillite/slate. The vein is situated west of a Tertiary(?) augite diorite stock, within the Portland Canal Fissure Zone. The

vein is mineralized with abundant pyrite and minor galena.

**BIBLIOGRAPHY** 

EMPR AR 1906-63,65; 1908-56; 1909-61,62; 1911-74; 1912-324; 1929-97

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

GSC MAP \*215A; 307A; 315A; 1385A GSC MEM 32, pp. 37,38; 175, p. 110 GSC SUM PRT 1910, p. 76

DATE CODED: 1985/07/24 CODED BY: GSB DATE REVISED: 1989/06/04 REVISED BY: PSF

FIELD CHECK: N

FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 082

NATIONAL MINERAL INVENTORY:

NAME(S): SILVER CROWN, LUCKY STRIKE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 44 42 N LONGITUDE: 129 35 51 W

ELEVATION: 1331 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on site of grab sample 8978D (Assessment Report

16034, Figure 5).

Gold

COMMODITIES: Silver

Stibnite

Galena

I ead

7inc

Antimony

PAGE:

REPORT: RGEN0100

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**MINERALS** 

SIGNIFICANT: Tetrahedrite

Pyrite

Chalcopyrite

Arsenopyrite

Sphalerite

COMMENTS: As stringers in vein and shear zone. ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

**Epigenetic** 

TYPE: 102

Intrusion-related Au pyrrhotite veins COMMENTS: Shear zones and veins strike 070 degrees, dip steeply north. 105

Polymetallic veins Ag-Pb-Zn±Au

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6177861

EASTING: 462490

**HOST ROCK** 

Lower Jurassic

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE

**GROUP** Hazelton

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

Black Siltstone Black Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

**RELATIONSHIP:** 

METAMORPHIC TYPE: Regional

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

PHYSIOGRAPHIC AREA: Boundary Ranges

GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY: SAMPLE TYPE: Grab

1930, page 100).

Assay/analysis

YEAR: 1930

COMMODITY Silver

Gold

7241.1400 15.4000

Grams per tonne Grams per tonne

COMMENTS: Sample from quartz vein. REFERENCE: Assessment Report 16034, page 16.

CAPSULE GEOLOGY

The Silver Crown showing is located 1 kilometre northeast of the Kitsault River, 30.5 kilometres north-northwest of Alice Arm. This showing is hosted in altered plagioclase-hornblende

porphyritic andesite, with minor interbedded black siltstone/argillite, informally known as the Copper Belt, of the Lower Jurassic Hazelton Group. The showing consists of 0.3 to 0.6 metre wide shear zones and quartz veins striking 070 degrees and dipping steeply north. These contain stringers, 5 centimetres thick, of stibnite, arsenopyrite, tetrahedrite, galena, pyrite, sphalerite and chalcopyrite. A grab sample of a quartz vein assayed 15.4 grams per tonne gold and 7241.14 grams per tonne silver (Assessment Report 16034, page 16). A grab sample of selected galena ore from a shear zone assayed 19.9 grams per tonne gold, 1370 grams per tonne silver, 15.1 per cent lead and 3.0 per cent zinc (Minister of Mines Annual Report

**BIBLIOGRAPHY** 

EMPR AR 1922-58; 1926-82; \*1930-99,100; 1931-38; 1951-88; 1965-66

EMPR ASS RPT 8166, 9076, \*16034, 18657

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL 63
EMPR EXPL 1976-166,167; 1980-409,410; 1987-C364
EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8
EMPR OF 1986-2
EMPR PF (Cambria Resources Ltd. Prospectus, 1987)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 71

DATE CODED: 1989/05/12 DATE REVISED: //

CODED BY: PSF REVISED BY:

FIELD CHECK: N FIELD CHECK:

PAGE:

REPORT: RGEN0100

1063

MINFILE NUMBER: 103P 082

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Copper

MINFILE NUMBER: 103P 083

NATIONAL MINERAL INVENTORY: 103P12,13 Cu2

NAME(S): SILVER TIP-GOLD REEF, SILVER TIP, GOLD REEF

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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LATITUDE: 55 45 19 N NORTHING: 6179004 EASTING: 462588

LONGITUDE: 129 35 46 W ELEVATION: 1300 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on showing (Minister of Mines Annual Report 1927,

page 78).

COMMODITIES: Zinc Silver

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena COMMENTS: Occur sparsely in silicified zone.

ASSOCIATED: Quartz ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPF: 105

COMMENTS: Silicified zone strikes southeast, dips 65 degrees southwest.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation Lower Jurassic

LITHOLOGY: Volcanic Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1934 CATEGORY: Assay/analysis

> SAMPLE TYPE: Chip

COMMODITY Silver **GRADE** 123.0000 0.5000 Grams per tonne

Copper Per cent Per cent Zinc 4.5000

COMMENTS: Across unknown length of best mineralization, trace gold. REFERENCE: Minister of Mines Annual Report 1934, page B15.

CAPSULE GEOLOGY

The Silver Tip-Gold Reef occurrence is located 2 kilometres east of Homestake Creek, 31.5 kilometres north-northwest of Alice Arm.

A silicified zone, explored by tunnelling in 1927, occurs in A SILICILIEU ZOME, EXPLOYED DY CUMNELLING IN 1927, OCCURS IN Lower Jurassic Hazelton Group volcanic breccia. The zone, striking southeast and dipping 65 degrees southwest, contains sparse pyrite, sphalerite and galena. A chip sample of unknown length across the best mineralization assayed trace gold, 123 grams per tonne silver, 0.5 per cent copper and 4.5 per cent zinc (Minister of Mines Annual Report 1934, page R15)

Report 1934, page B15).

**BIBLIOGRAPHY** 

EMPR AR \*1927-78; \*1934-B15

EMPR ASS RPT 16034, 18657

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243 EMPR MAP 8 EMPR OF 1986-2

> MINFILE NUMBER: 103P 083

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 307A; 1385A

DATE CODED: 1989/05/11 CODED BY: PSF FIELD CHECK: N REVISED BY: FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 083

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 103P 084

NATIONAL MINERAL INVENTORY: 103P13 Ag10

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6200734

EASTING: 445582

TREND/PLUNGE:

PAGE:

REPORT: RGEN0100

1066

NAME(S): BLACK HILL, EXCELSIOR & EAGLE

STATUS: Past Producer

REGIONS: British Columbia

NTS MAP: 103P13W

BC MAP: LATITUDE: 55 56 56 N

LONGITUDE: 129 52 17 W ELEVATION: 1295 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit on Nellie W No. 1 claim-Lot 5244 (Assessment Report 10006).

COMMODITIES: Silver 7inc I ead Gold Copper

Open Pit

**MINERALS** 

SIGNIFICANT: Sphalerite Jamesonite Galena Tetrahedrite Stibnite

Chalcopyrite

Calcite Siderite **Barite** 

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Massive

Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0012 STRIKE/DIP: Metres 020/57N

COMMENTS: Attitude of shear zone enclosing quartz vein 12.5 metres long and 0.80

metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Salmon River Hazelton

Coast Plutonic Complex Tertiary

LITHOLOGY: Argillite

Augite Diorite

HOSTROCK COMMENTS: Veins hosted in Tertiary stock and adjacent sediments.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1929 Assay/analysis

GRADE COMMODITY

2955.0000 Silver Grams per tonne Gold 1.3700 Grams per tonne 9.8000 I ead Per cent

Zinc 6.8000 Per cent COMMENTS: Composite chip sample over an average width of 0.20 metres for

a length of 9 metres.

REFERENCE: Minister of Mines Annual Report 1929, page 96.

**CAPSULE GEOLOGY** 

The Black Hill occurrence is located near the headwaters of the south fork of Glacier Creek, 7.5 kilometres east-northeast of Stewart. A few shipments of high grade ore were made from this occurrence in 1930, 1935 and 1983.

The occurrence consists of various veins hosted in augite diorite and argillite. These occur on the southeastern margin of a Tertiary(?) stock of the Coast Plutonic Complex that intrudes argillite, greywacke and limestone of the Middle Jurassic Salmon River Formation.

A set of steeply dipping, west striking, quartz veins, from 0.15 to 0.20 metres wide, contain sparse galena, sphalerite, tetrahedrite and rare chalcopyrite. A second set of north striking, steeply

dipping veins, up 0.3 metres wide, are well mineralized with sphalerite, tetrahedrite, galena and jamesonite.

RUN DATE: 26-Jun-2003 MINFILE MASTER
RUN TIME: 12:06:33 GEOLOGICAL SURVEY

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Significant mineralization is confined to several of the north striking veins. A 1.8 metre wide shear zone striking 020 degrees and dipping 50 to 85 degrees northwest contains a vein along its margin. This vein contains locally massive sphalerite, jamesonite, stibnite, galena and tetrahedrite in a gangue of quartz, calcite, siderite and barite. The vein forms an ore shoot which averages 0.3 metres in width over a length of 12.5 metres. Veinlets containing similar massive sulphides occur throughout the rest of the shear zone. A 0.40 metre chip sample across the ore shoot assayed 3.4 grams per tonne gold, 3839 grams per tonne silver, 11.5 per cent lead and 4 per cent zinc (Minister of Mines Annual Report 1929, page 96).

An adjacent shear zone, 30 metres to the west, strikes 030 degrees and dips 65 degrees west. It contains, along the footwall, a 0.10 to 0.40 metre wide vein of massive sphalerite, tetrahedrite, galena and jamesonite. A composite chip sample over a length of 9 metres and an average width of 0.20 metres assayed 1.37 grams per tonne gold, 2955 grams per tonne silver, 9.8 per cent lead and 6.8 per cent zinc (Minister of Mines Annual Report 1929, page 96).

Sorted ore totalling 53 tonnes were produced in 1930, 1935 and 1983 with an average grade of 1.17 grams per tonne gold, 5658 grams

1983 with an average grade of 1.17 grams per tonne gold, 5658 grams per tonne silver, 16.1 per cent lead, 2.92 per cent zinc and 0.41 per cent copper.

#### **BIBLIOGRAPHY**

EMPR AR 1908-56; \*1919-72; 1920-59; 1921-65; 1922-75; 1923-74; 1928-99,100; \*1929-96; 1930-439; 1934-B24; 1935-A24 EMPR ASS RPT \*10006, 12578 EMPR BULL 58; 63 EMPR ENG INSP (Mine Plans: #61421, Apr., 1973) EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM 1972-510,580 EMPR MAP 8 EMPR PF (Lehto Resources Ltd. Prospectus, 1974; Chisholm, E.O. (1973) Report) EMR MIN FILE MR-AG-301.00, pp. 91-94, Jun. 1930 EMR MP CORFFILE (Black Hill Mining Co. Ltd.) GSC MAP 215A; 307A; 315A; 1385A GSC MEM 32, pp. 45,46; 175, pp. 109,114 GSC SUM RPT 1910, pp. 79,80

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/06/03 REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 085

NATIONAL MINERAL INVENTORY: 103P13 Cu3,4, Mo1

NAME(S): MOLLY B (L.4498), ORAL M, GOLD AXE, COPPER CLIFF, MOLLY, WILD WEASEL

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 103P13W Open Pit Underground MINING DIVISION: Skeena

Scheelite

Calcite

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1068

BC MAP:

LATITUDE: LONGITUDE: 129 58 19 W NORTHING: 6199457 EASTING: 439284

**ELEVATION: 9** Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit on the east side of the Bear

River (Minister of Mines Bulletin 58, Figure 3, Sheet A).

COMMODITIES: Gold 7inc

Silver Copper Molybdenum Tungsten

TREND/PLUNGE:

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite Molybdenite Sphalerite

ASSOCIATED: Garnet **Epidote** Quartz Diopside ALTERATION: Garnet RATION TYPE: Skarn Diopside Quartz **Epidote** Silicific'n

ALTERATION TYPE: MINERALIZATION AGE: Eocene

ISOTOPIC AGE: 47-51 (+/- 2-3) Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

**DEPOSIT** 

CHARACTER: Stratabound Vein Disseminated Massive **Epigenetic** CLASSIFICATION: Skarn Hydrothermal TYPE: K04 K05 W skarn

Au skarn K07 Mo skarn

DIMENSION: 0195 x 0005 Metres STRIKE/DIP: 125/60S

COMMENTS: Attitude of precious metal bearing zone traced for 195 metres and up

to 5.2 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton **Unuk River** Focene Hyder Pluton

LITHOLOGY: Limy Siltstone

Siltstone Araillite Limestone Tuff Quartzite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1937 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver **GRADE** 10.3000 Grams per tonne Grams per tonne Gold 3.4000 0.8000 Copper Per cent

COMMENTS: Composite chip sample 14.0 metres long, 2.7 metres average width.

REFERENCE: Minister of Mines Annual Report 1937, page B5.

CAPSULE GEOLOGY

The Molly B occurrence is located on the east bank of the Bear River, 0.5 kilometre east of the main runway of the Stewart Airport. Various siliceous skarn zones have been explored in this area since 1910. The Molly B was located in 1935 and in 1936, Premier Mining Co. drilled 7 holes. In 1939, the Stewart Canal Mining Co. took over and produced until 1941. Minor development and drilling took place

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

in 1947 and 1948.

The occurrence consists of at least two skarn zones, developed in hornfelsed and variably schistose argillites, tuffs, quartzites and minor limestone of the Lower Jurassic Unuk River Formation. These beds, intruded to the south and north by Eocene granodiorite of the Hyder Pluton, generally strike 125 degrees and dip between 60 and 90 degrees southwest. A few granitic dykes crosscut the sequence.

A skarn-altered limy siltstone bed within thin-bedded siltstone,

Ā skarn-altered limy silīstone bed within thin-bedded siltstone, striking 120 degrees and dipping 65 to 75 degrees southwest, has been traced southeast from the east bank of the Bear River for 30 metres. The limy beds vary in thickness between a few centimetres and 3 metres, averaging between 1 and 1.8 metres. Mineralization consists of scheelite and disseminated molybdenite, pyrite, chalcopyrite, pyrrhotite and sphalerite in a gangue of diopside, garnet, epidote and minor calcite. A 163 kilogram sample of hand sorted ore averaged 4.2 per cent molybdenum, 1.5 per cent tungstic oxide (WO3) (1.2 per cent tungsten) and 0.4 per cent zinc (Bulletin 10, page 55). A 1.68 metre channel sample across the skarn zone assayed 0.37 per cent tungstic oxide (0.29 per cent tungsten) and 0.17 per cent molybdenite (Bulletin 10, page 55).

South of the scheelite-molybdenite skarn, approximately 300

South of the scheelite-molybdenite skarn, approximately 300 metres, a zone of silicification and skarn alteration occurs in argillite. This zone, containing bands of epidote and garnet, parallels bedding, has been traced for 195 metres and varies from 1 to 5.2 metres in width. It contains stringers, bands and lenses of quartz with disseminations, stringers, blebs and massive patches of pyrrhotite, chalcopyrite, pyrite and trace sphalerite. The mineralization becomes more intense where the zone is cut by narrow shears and cross fractures which strike 026 to 031 degrees and dip 45 to 90 degrees northwest. A composite chip sample over a length of 14.0 metres and an average width of 2.7 metres assayed 3.4 grams per tonne gold, 10.3 grams per tonne silver and 0.8 per cent copper (Minister of Mines Annual Report 1937, page B5).

Between 1940 and 1941, 290 tonnes were mined from the precious metal bearing zone with an average grade of 2.36 grams per tonne gold, 12.01 grams per tonne silver and 0.716 per cent copper.

L.E.H. Ventures Ltd. optioned the property in 1999.

### **BIBLIOGRAPHY**

EMPR AR 1910-61; 1915-73; 1917-85; 1918-76; 1930-104; 1936-B57; \*1937-B4-B7; 1938-B25; 1940-52; 1941-54; 1942-31; 1946-79; 1947-88,89; 1948-71; 1951-76

EMPR ASS RPT 14745, 19445

EMPR BULL 9, p. 91; \*10, pp. 54-56; \*58, pp. 137-139; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1991-17

EMPR PF (\*Mathews, W.H. (1942-43) Geology Reports; Maps of Adits 1942,1946; \*White, W.H. (1946) Report)

EMR MP CORPFILE (Stewart Canal Gold Mines Ltd.; Premier Gold Mining Co. Ltd.; Annual Reports 1936-1938)

GSC MAP 215A; 307A; 315A; 1385A

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 175, pp. 111,132

CANMET RPT IR 592, p. 43, 1925; 961, 1941

GCNL #37(Feb.23), 1999

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/05/23 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 085

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 086

NATIONAL MINERAL INVENTORY:

NAME(S): RED MOUNTAIN, MARC, BRAD, HROTHGAR WRATH, JACK,

MOS2, WOTAN, AV,

S.F., JW

STATUS: Developed Prospect

REGIONS: British Columbia

NTS MAP: BC MAP: 103P13E

LATITUDE: 55 58 04 N LONGITUDE: 129 41 47 W

ELEVATION: 1950 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Marc zone, just south of the summit of Red Mountain approximately 18.5 kilometres east of Stewart (Assessment Report 20133).

COMMODITIES: Gold

Silver

Zinc

Underground

Copper

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6202712

EASTING: 456532

REPORT: RGEN0100

1070

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite **Tetrahedrite**  Pyrrhotite Gold

Arsenopyrite Electrum

Chalcopyrite

COMMENTS: Mineralogy not known.

ASSOCIATED: Quartz

ALTERATION: Sericite

Pyrite Chlorite

Quartz

Alunite

Silicific'n

Shear

Lead

Jarosite
ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

Massive

Pyrite

Hydrothermal Subvolcanic Cu-Ag-Au (As-Sb) x 100 x 12 Metres

Stockwork

STRIKE/DIP:

Chloritic

CLASSIFICATION: Epigenetic
TYPE: L01 Subvolcanic Cu
DIMENSION: 350 x 100 x 12 COMMENTS: Marc zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE

Jurassic Middle Jurassic

**GROUP** 

Hazelton

**FORMATION Unuk River** 

IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

TREND/PLUNGE:

LITHOLOGY: Intrusive Breccia

Andesitic Pyroclastic Hornblende Plagioclase Porphyry Argillite Tuffaceous Sediment/Sedimentary Dacitic Ash Tuff

Dacitic Lapilli Tuff Dacitic Crystal Tuff

HOSTROCK COMMENTS:

Informally named Goldslide Intrusion.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine

PHYSIOGRAPHIC AREA: Boundary Ranges

INVENTORY

ORE ZONE: RED MOUNTAIN

REPORT ON: Y

CATEGORY: QUANTITY:

Inferred

12009300 Tonnes

YEAR: 1998

COMMODITY

**GRADE** 

Grams per tonne

Gold COMMENTS: A higher-grade core totals 700,000 tonnes grading 12 grams per

tonne gold.

REFERENCE: Wheaton River Minerals Ltd., Press Release, December 21, 1999.

MINFILE NUMBER: 103P 086

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

INVENTORY

ORE ZONE: RED MOUNTAIN

REPORT ON: Y

CATEGORY: Indicated QUANTITY: 1921680 Tonnes YEAR: 1997

COMMODITY Silver

**GRADE** 

38.1000 Grams per tonne 9.8000

Gold COMMENTS: Royal Oak Mines Inc. estimate in 1997. Silver grade is included

Grams per tonne

based on previous figures.

REFERENCE: Information Circular 1998-1, pages 16, 19.

#### **CAPSULE GEOLOGY**

The Red Mountain property is situated at the western margin of a broad, north-northwest trending volcano-plutonic belt composed of the Upper Triassic Stuhini Group and the Lower-Middle Jurassic Hazelton This belt has been termed the "Stewart Complex" by Grove (1986) and forms part of the Stikinia Terrane. To the west the Stewart Complex is bordered by the Tertiary-Jurassic Coast Plutonic Complex. Sedimentary rocks of the Jurassic-Lower Cretaceous Bowser Lake Group overlay the complex in the east.

Red Mountain, an extensive gossan located between Bromley Glacier and Cambria Icefield, is underlain by pyroclastic and sedimentary rocks of the Hazelton Group (Unuk River and Salmon River formations) which have been intruded by Middle Jurassic as well as Early Tertiary stocks and dyke swarms. The younger intrusive

The portion of the Coast Plutonic Complex.

The portion of the property located east of Bromley Glacier is underlain by Lower Jurassic Unuk Formation clastic sediments, volcanic breccias, crystal and lithic tuffs, limestones and cherts. Rocks of the Lower-Middle Jurassic Salmon River Formation, a sequence of fine to coarse-grained clastic sediments, limestones, rhyolites, and crystal and lithic tuffs, are exposed west of Bromley Glacier.

Stratified rocks occupy the ridges and the southern and northern

slopes at Red Mountain and consist of intermediate pyroclastic rocks (finely banded, waterlain ash and dust tuffs, coarse ash tuff, lapilli tuff, volcanic agglomerate and crystal tuff), finely banded, partly carbonaceous argillites and tuffaceous sediments, and cherts. The strata generally strike northwest and dip steeply towards the southwest, but strike and dip can locally be highly variable, which appears to be the result of doming by the hornblende-feldspar porphyry (Goldslide Intrusion) and satellite intrusions.

A hypabyssal, hornblende-plagioclase porphyritic granodiorite to diorite intrusion (Goldslide Intrusion) occupies the cirque as well as the western and eastern slopes of Red Mountain. A wide contact zone occurs between the volcano-sedimentary package and the intrusion. This zone is strongly brecciated and contains argillite and/or pyroclastic rock fragments within an intrusive matrix. Quartz stockwork is locally developed within the border phase of this intrusion. Weak to intense silicification, sericitization and propylitization are associated with these quartz stockwork zones. An extensive zone of pyritization and sericitization surrounds the Goldslide Intrusion and is responsible for the gossanous appearance of Red Mountain. Grove (1986) assumes a Middle Jurassic age for this intrusion and correlates it with the Texas Creek Plutonic Suite (Assessment Report 20971).

A granodioritic to quartz monzonitic intrusion (Erin stock) is exposed at the southern tip of Red Mountain and appears to continue south under Bromley Glacier onto Lost Mountain. The stock and associated aplitic dykes intrude a sequence of thinly bedded argillites, calcareous sediments and intermediate pyroclastics. sediments have been extensively skarnified and hornfelsed. The stock itself is cut by a number of fine-grained basaltic dykes. An Early Tertiary age has been indicated for this intrusion (Grove, 1986) which may be part of the Alice Arm or Hyder Intrusion stocks.

Several sets of dykes cut the sediments and pyroclastic rocks and comprise potassium feldspar porphyry, microdiorite and lamprophyre.

The rocks of the Unuk River Formation underlying Red Mountain occupy the eastern limb of the north-northwest trending Bromley Syncline, the axis of which passes immediately west of the property. Subsequent deformation is mainly characterized by simple displacement along strike-slip faults and reactivation of older faults. At Red Mountain, there are two main conjugate sets of fault and fracture zones, north-northeast and north-northwest, and east-northeast and east-southeast. All of these structural trends are associated with alteration and sulphide mineralization. Subhorizontal to shallow dipping structures occur in the eastern half of Red Mountain.

Red Mountain is characterized by an extensive gossan, covering

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

about 12 square kilometres, which has attracted exploration activities for porphyry molybdenum-type targets in the 1960's. The molybdenite mineralization is controlled by northerly trending fractures along the northern and southern contacts of the Erin stock (see McAdam Point, 103P 220 and Goldslide Creek, 103P 221).

Several gold showings were discovered in 1989 at Red Mountain, all of which are spatially related to the contact of the Goldslide Intrusion with the surrounding sedimentary and pyroclastic rocks. The mineralization is structurally controlled and occurs in the intrusion as well as in the surrounding pyroclastics and interbedded sediments (Assessment Report 20133).

The Marc zone represents the most significant gold occurrence encountered and is located south of Red Mountain summit. Drilling has defined a well-mineralized zone up to several tens of metres in thickness along a strike length of 350 metres and a downdip extension of 100 metres. The mineralization is exposed at the base of a vertical cliff and extends at surface for about 30 metres along strike with a width varying from 3 to 20 metres.

The Marc zone is a transitional-type gold deposit with some skarn-type affinities and is associated with the contact between the Goldslide Intrusion (hornblende-plagioclase porphyry) and adjacent interbedded sedimentary and andesitic pyroclastic rocks of the Unuk River Formation. The Marc zone mineralization consists of a number of discrete lenses which are closely associated with the brecciated contact (intrusive breccias) between a sequence of interbedded argillites, tuffaceous sediments and intermediate pyroclastic rocks (dacitic ash, lapilli and crystal tuffs) and the hornblende-plagioclase porphyritic intrusion. The morphologies of the mineralized lenses are controlled by these zones of (intrusive) brecciation, strong fracturing, and, to a minor extent, shearing along the intrusive contact.

Hydrothermal alteration consists of strong to pervasive sericitization, moderate to strong pyritization, moderate chloritization, and moderate silicification. Moderate to strong potassic alteration as well as albitization occur locally.

The Marc zone mineralization typically consists of densely disseminated to semimassive pyrite replacement (up to 30 per cent) within a dark grey to black matrix and/or pyrite stringers and veinlets. Varying amounts of pyrrhotite and minor chalcopyrite, arsenopyrite, galena and tetrahedrite are associated with the pyrite. High gold values are usually associated with the semimassive, coarse-grained pyrite aggregates but also occur within a stockwork of pyrite stringers and veinlets. Specks of visible gold were noted only in one instance within a small quartz vein (Assessment Report 20971). Native gold as observed in polished thin sections occurs as sporadically distributed threads, interstitial pockets and partial networks within pyrite as well as moulded on to the periphery of pyrite fragments within the gangue and altered wallrock. Lead, silver, gold, antimony and bismuth tellurides are associated with or contain native gold and electrum. Dark reddish brown sphalerite occurs peripheral to the gold mineralization, with zinc values being commonly inversely correlated with gold values. The most significant drill intersections in the Marc zone was a core interval of 55.5 metres grading 12.08 grams per tonne gold and 53.91 grams per tonne silver (Assessment Report 20971).

Small quartz veinlets carrying up to 5 per cent galena and light yellow, honey-coloured sphalerite crosscut the Marc zone mineralization and represent a younger phase of mineralization.

Numerous post-mineralization faults and fractures with variable orientations transect the Marc zone sequence with offsets less than 40 metres.

A silver-rich sphalerite zone with associated anomalous gold, copper and lead was intersected in holes drilled up to 200 metres vertically above the Marc zone style mineralization. Values obtained range up to 0.58 grams per tonne gold, 69.22 grams per tonne silver, 5.6 per cent zinc, 0.47 per cent lead and 0.06 per cent copper over 9 metres of core length. This sphalerite zone appears to be related to the Marc zone mineralization by zonation (Assessment Report 20971).

A recent drill program tested a new structural interpretation of the Marc zone and its northwest extension, the AV zone. The new preliminary reserve estimate is 2,539,880 tonnes grading 12.68 grams per tonne gold and 38.1 grams per tonne silver. The new resource was calculated using a 3.10 grams per tonne gold cutoff and a minimum thickness of 3 metres. Preliminary metallurgical test work indicates acceptable recoveries (Northern Miner - February 22, 1993).

In 1996, Royal Oak Mines Inc. conducted surface and underground drilling as well as driving a 300-metre underground extension. A new zone of mineralization, the S.F., located at depth to the northwest of the previously known zones is reported. The drilling showed that

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the JW Zone was truncated to the north by faulting or folding. However, drilling intersected Red Mountain type mineralization closer to the valley floor within the SF Zone 300 feet below and 300 feet due north of the JW Zone. The existing reserve is 2.77 million tonnes assaying 8.98 grams per tonne gold and containing 25 million grams of gold (Royal Oak Mines Inc., Annual Report 1996). They also estimate a resource of 1,921,680 tonnes grading 9.8 grams per tonne

gold (Information Circular 1998-1, pages 16, 19).

North American Metals, owned by Wheaton River Minerals Ltd.

agreed to buy the property in December 1999. Mineralized material at Red Mountain as published in Royal Oak's 1998 annual report totals 12,009,300 tonnes grading 2.54 grams per tonne gold. A technical evaluation completed by Wheaton River indicates that a higher-grade core of the deposit could be economically extracted, mining about 700,000 tonnes grading 12 grams gold per tonne, and recovering about 7,776,000 grams. A geostatistical evaluation carried out by Wheaton River indicates that no further drilling may be necessary for ore reserve estimation of the higher-grade core. Diamond drilling on the property has totalled 127,000 metres and 2,000 metres of underground workings have been excavated, including a 1,000-metre production-sized decline.

Seabridge Resources acquired Red Mountain in the early part of 2002 (Northern Miner, June 9, 2002).

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DATE CODED: 1989/11/28 CODED BY: DEJ FIELD CHECK: N DATE REVISED: 1991/12/30 REVISED BY: GO

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 087

NATIONAL MINERAL INVENTORY: 103P13 Ag17

NAME(S): GOLD ORE, EAGLE, BIG BELL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

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1074

LATITUDE: 55 55 38 N LONGITUDE: 129 57 26 W ELEVATION: 975 Metres

NORTHING: 6198394 EASTING: 440189

ELEVATION: 975 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on showing (Minister of Mines Annual Report 1925,

page 80).

COMMODITIES: Silver Lead Gold

**MINERALS** 

SIGNIFICANT: Pyrrhotite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au COMMENTS: Two parallel veins strike west.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER
Lower Jurassic Unuk River

LITHOLOGY: Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**INVENTORY** 

ORE ZONE: VEIN REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1925

SAMPLE TYPE: Chip

COMMODITY
Silver
Gold
Grams per tonne
Gold
Grams per tonne

Lead 1.6100 Per cent

COMMENTS: A 1.37 metre chip sample across south vein. REFERENCE: Minister of Mines Annual Report 1925, page 83.

**CAPSULE GEOLOGY** 

The Gold Ore showing is located on the west slope of Mount Rainey just north of the Silverado occurrence (103P 088), 2.5 kilometres southeast of Stewart.

The showing consists of two parallel west striking quartz veins, about 120 metres apart, hosted in greenstone of the Lower Jurassic Unuk River Formation. The south vein contains sparse patches and disseminations of pyrrhotite and traces of galena, and the 2.7 metre wide north vein contains sparse pyrrhotite. A sample of pyrrhotite with minor calons from the gouth vein against 0.66 grams are to not appropriate.

with minor galena from the south vein assayed 0.66 grams per tonne gold and 1354 grams per tonne silver and a 1.37 metre chip sample across the south vein assayed 0.33 grams per tonne gold, 168 grams per tonne silver and 1.61 per cent lead (Minister of Mines Annual Report 1925, page 83).

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/22 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 087

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 088 NATIONAL MINERAL INVENTORY: 103P13 Ag20

NAME(S): SILVERADO

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 55 24 N LONGITUDE: 129 57 13 W ELEVATION: 1051 Metres NORTHING: 6197958 EASTING: 440409

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of the Zero Level (Minister of Mines

Bulletin 58, Figure 53).

COMMODITIES: Silver I ead 7inc Gold Copper Cadmium Tungsten

**MINERALS** 

SIGNIFICANT: Galena Tetrahedrite Sphalerite Pyrite Chalcopyrite

Pyrargyrite Argentite Silver Scheelite ASSOCIATED: Quartz

Pyrite **Epidote** 

ALTERATION: Quartz
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown Pyrite **Epidote** 

**DEPOSIT** 

CHARACTER: Vein Massive nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal

TYPE: 105 112 W veins

SHAPE: Bladed DIMENSION: 490 x 300 x 5 STRIKE/DIP: 130/70S

Metres TREND/PLUNGE: COMMENTS: Dimensions for No. 3 shear zone. Zones strike 130 degrees and dip

between 63 and 76 degrees south.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Lower Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Unuk River

LITHOLOGY: Andesitic Tuffaceous Breccia

Volcanic Breccia Conglomerate Sandstone Crystal Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1946

SAMPLE TYPE: Chip

COMMODITY **GRADE** Silver 2866.0000 Grams per tonne Gold 0.6900 Grams per tonne Cadmium 0.0900 Per cent

Copper 0.2000 Per cent 8.9000 Per cent Lead Zinc 6.3000 Per cent

COMMENTS: A 0.381 chip sample across Number 1 shear zone. REFERENCE: Minister of Mines Annual Report 1946, page 78.

CAPSULE GEOLOGY

The Silverado occurrence is located on the northwest slope of Mount Rainey, 3 kilometres southeast of Stewart. Several shipments of high grade ore were made from this occurrence, discovered in 1920, between 1921 and 1932.

The occurrence is hosted in volcanic breccias, conglomerates, sandstones and crystal tuffs of the Lower Jurassic Unuk River Formation. These are intruded, to the west, by Eocene granodiorite of the Hyder Pluton and are unconformably overlain, to the east, by

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#### CAPSULE GEOLOGY

clastic sediments of the Middle Jurassic Salmon River Formation. Four major subparallel shear zones are developed in northwest striking, gently east dipping andesitic tuff breccias. The tuff breccias are cut by a few northwest striking, steeply west dipping porphyritic granodiorite and lamprophyre dykes. The shear zones, generally striking 130 degrees and dipping between 63 and 76 degrees southwest, vary in width from a few centimetres to  $4.6\ \mathrm{metres}$ . Zones have been traced vertically for up to 300 metres (number 3 zone), along surface for between 100 metres (number 4 zone) and 490 metres (number 3 zone) and southeastward up to the terminus of the Silverado Glacier. These zones may extend underneath the glacier through Mount Rainey for 2 kilometres southeastward, to the Prosperity and Porter Idaho mine (103P 089). The numbers 1, 2 and 3 shear zones may correlate with the Blind, Prosperity and D veins, respectively, of the mine.

Mineralization occurs as discontinuous quartz lenses, up to 1.8 metres wide and 60 metres long, hosted within shear zones. The lenses contain massive galena, sphalerite, and pyrite with minor chalcopyrite, tetrahedrite, pyrargyrite, argentite and native silver. The wall rocks are variably silicified and weakly pyritized and epidotized. A 0.381 metre chip sample from the number 1 shear zone assayed 0.69 grams per tonne gold, 2866 grams per tonne silver, 8.9 per cent lead, 6.3 per cent zinc, 0.20 per cent copper and 0.09 percent cadmium, a second 0.102 metre chip sample across the same shear zone assayed trace gold, 7870.7 grams per tonne silver, 29.8 per cent lead, 12.8 per cent zinc, 0.47 per cent copper and 0.14 per cent cadmium (Minister of Mines Annual Report 1946, page 78).

Various quartz veins occur in this vicinity. These are gently

Various quartz veins occur in this vicinity. These are gent dipping, up to 2 metres wide and mineralized with abundant tetrahedrite and pyrite. The veins have averaged 4285 grams per tonne silver, samples of pure tetrahedrite have assayed up to 34,000 grams per tonne silver (Minister of Mines Annual Report 1927, page 86).

Tungsten is reported to occur in quartz veins to the west on the

lower slopes of Mount Rainey. The veins, 1 to 1.8 metres wide, occin a shear zone up to 1.8 metres wide. A chip sample across 0.189 metres, assayed 0.22 per cent tungstic oxide (WO3) (0.17 per cent tungsten) (Bulletin 10, page 56).

Between 1921 and 1932, 167.8 tonnes of sorted high grade ore were produced. A 12.7 tonne shipment in 1927 averaged 3,400 grams per tenne silver against the produced as a service of sorted with miner and asserted as a service of sorted as a service o

per tonne silver equivalent for silver combined with minor gold and lead values (Minister of Mines Annual Report 1927, page 86)

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DATE CODED: 1985/07/24 DATE REVISED: 1989/05/23

CODED BY: GSB REVISED BY: PSF

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 089 NATIONAL MINERAL INVENTORY: 103P13 Ag21

NAME(S): **PORTER-IDAHO**, PROSPERITY-PORTER IDAHO, PORTER IDAHO, PROSPERITY, IDAHO, BIG FOUR

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 54 06 N LONGITUDE: 129 55 35 W ELEVATION: 1287 Metres NORTHING: 6195523 EASTING: 442077

LOCATION ACCURACY: Within 500M

COMMENTS: The portal of the I tunnel, on the south slope of Mount Rainy, 5.5

kilometres southeast of Stewart (Assessment Report 11007).

COMMODITIES: Silver 7inc Lead Gold Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite Tetrahedrite Chalcopyrite Pyrrhotite Argentite Pyrargyrite Polybasite Silver

COMMENTS: Also arsenopyrite and trace electrum. ASSOCIATED: Quartz Ankerite Carbonate Pyrolusite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Shear Disseminated Massive

CLASSIFICATION: Hydrothermal **Epigenetic** Polymetallic veins Ag-Pb-Zn±Au G07 Subaqueous hot spring Ag-Au

TYPE: I05 SHAPE: Bladed

MODIFIER: Faulted TREND/PLUNGE:

DIMENSION: 1000 x 425 x 13 STRIKE/DIP: 170/55W Metres COMMENTS: D vein shear zone strikes between 160 and 180 degrees and dips between

45 and 65 degrees west.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton **Betty Creek** 

LITHOLOGY: Dacitic Crystal Tuff Dacitic Welded Tuff Andesitic Lapilli Tuff Conglomerate Andesitic Ash Tuff

Dacitic Ash Tuff Andesitic Tuffaceous Breccia Dacitic Tuffaceous Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: PORTER IDAHO REPORT ON: Y

> CATEGORY: YEAR: 1991 Indicated

> QUANTITY: 826400 Tonnes

COMMODITY **GRADE** 668.5000 Silver Grams per tonne Lead 5.0000 Per cent

COMMENTS: Underground geological reserves.

Zinc

REFERENCE: D. Alldrick, PhD Thesis, UBC, 1991.

CAPSULE GEOLOGY

The Prosperity and Porter Idaho mines are located on the south slope of Mount Rainey,  $5.5~{\rm kilometres}$  southeast of Stewart. These two mines were in operation between 1922 and 1950. The deposit is hosted in andesitic to felsic volcanics of the Lower-Middle Jurassic Betty Creek Formation (Hazelton Group), which are intruded to the west and north by Eocene granodiorite of the Hyder pluton.

5.0000

Per cent

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#### **CAPSULE GEOLOGY**

overlain to the east by clastic sediments of the Salmon River Formation (Hazelton Group).

Mineralization is contained within dacitic crystal to welded tuffs with minor andesitic lapilli tuff and dacitic waterlain tuff within a thick sequence of epiclastic conglomerate, andesitic and dacitic ash tuff, lapilli tuff, crystal tuff, welded tuff and tuff breccia.

The Prosperity and Porter Idaho deposit comprises 6 major subparallel shear zones, spaced roughly 150 to 175 metres apart, striking 160 to 180 degrees and dipping 45 to 65 degrees west. These occur in volcanics that strike 020 to 040 degrees, and dip steeply west. The shear zones have been traced on surface for between 200 metres (Prosperity West vein) and 1000 metres (D vein) and downdip for a vertical distance of up to 425 metres (D vein). Widths vary from between 2 and 13 metres. The shear zones terminate to the south against the Big Rig fault which strikes approximately 084 degrees and dips 50 degrees north. In the vicinity of the fault, the shears are dragged westward with reduced dips of 40 degrees. The shear zones show some minor lateral displacement by other west striking faults and are cut by several lamprophyre dykes.

The shear zones contain discontinuous, well-mineralized lenses and shoots up to 13 metres wide, 250 metres long and at least 200 metres downdip. High-grade mineralization occurs as individual sinuous massive sulphide veins usually between 0.2 and 0.6 metres wide and sometimes coalescing into veins up to 2 metres wide. The veins typically follow the footwall and hanging wall of the shear zones within sheared, altered and mineralized wallrock. Mineralization consists of galena, sphalerite, pyrite, tetrahedrite and minor chalcopyrite, pyrrhotite, argentite, pyrargyrite, polybasite, native silver, arsenopyrite and trace electrum. Adjacent to the veins, disseminations, blebs and veinlets of quartz, ankeritic carbonate, manganese oxide and similar sulphides occur in variably silicified country rock for up to 5 to 6 metres outward from the veins.

In 1989, underground geological reserves were 826,400 tonnes grading 668.5 grams per tonne silver, 5 per cent lead and 5 per cent zinc (D. Alldrick, PhD Thesis, UBC, 1991).

zinc (D. Alldrick, PhD Thesis, UBC, 1991).

Between 1922 and 1950, 27,268 tonnes of ore were periodically mined from the underground workings of the Prosperity and Porter Idaho mines. The production came from the D, Prosperity and Blind veins, and averaged 0.986 grams per tonne gold, 2692.1 grams per tonne silver, 5.08 per cent lead, 3,853 per cent zinc and 0.101 per cent copper.

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      88; 1927-84,85,393; 1928-94,95; 1929-92,93,434; *1930-102-104,361, 362; 1931-41; 1932-57; 1933-53; 1946-74; 1947-89,90; 1948-70;
      1950-78; 1952-77; 1955-17; 1963-11; 1964-22,23; 1965-50,51; 1966-
1950-78; 1952-77; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1955-17; 1957-178; 1957-178; 1981-208; 1982-379

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      Co. Ltd.; Prosperity Mine Syndicate Ltd.; Big Four Silver Mines
      Ltd.; Pacific Cassiar Ltd.; Teck Corporation)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM *159, pp. 59-65; 175, pp. 138-140
CMH 1988-1989, p. 355
CMJ Dec. 1985
      IL #83,#187, 1975; #8,#65,#77, 1976; #170,#233,#250, 1980; #35,
#170,#187,#221,#229, 1981; #37,#49,#131, 1982; #14,#123,#131,
#236,#238, 1983; *#63,#245, 1984; #31,#55,*#150,#217, 1985;
GCNL #83, #187,
#153(Aug.10), 1989

N MINER Aug.14, 1975; Mar.5, Apr.9, Jul.16, Oct.1, Nov.12, Dec.10, 1981;

Apr.15, May 20, Dec,15, 1983; Feb.2, Jul.19, Dec.27, 1984; Jan.17,24,
      Feb.21, Jul.25, Aug.15, 29, 1985; Apr.7, Aug.25, 1986
N MINER MAG Feb., 1986
Alldrick, D.J. (1991): Geology and Ore Deposits of the Stewart Mining Camp, B.C.; PhD Thesis, UBC
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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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**BIBLIOGRAPHY** 

EMPR OF 1998-10

DATE CODED: 1985/07/24 CODED BY: GSB
DATE REVISED: 1989/05/22 REVISED BY: PSF

MINFILE NUMBER: 103P 089

PAGE:

FIELD CHECK: N

REPORT: RGEN0100

#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 090 NATIONAL MINERAL INVENTORY: 103P13 Ag22

NAME(S): MELVIN, MAGEE

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia
NTS MAP: 103P13W
UTM ZONE: 09 (NAD 83)
BC MAP:

DNGITUDE: 55 54 42 N NORTHING: 6196636

DNGITUDE: 129 55 34 W EASTING: 442110

LONGITUDE: 129 55 34 W ELEVATION: 1646 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit (Assessment Report 8650,

Figure 3).

COMMODITIES: Silver Zinc Lead Gold

MINERALS

SIGNIFICANT: Galena Sphalerite Pyrite Chalcopyrite Silver

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia

CLASSIFICATION: Hydrothermal
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au G07 Subaqueous hot spring Ag-Au

COMMENTS: Shear zone strikes 160 degrees, dips steeply west.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Unuk River

LITHOLOGY: Plagioclase Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**INVENTORY** 

ORE ZONE: ADIT REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1928

SAMPLE TYPE: Chip

COMMODITY
Silver
Gold
Gold
Grams per tonne
Gold
Grams per tonne

Lead 0.1500 Per cent Zinc 0.4600 Per cent

COMMENTS: A 1.0 metre chip sample.

REFERENCE: Assessment Report 8650, page 10.

CAPSULE GEOLOGY

The Melvin occurrence is located just northeast of the Prosperity and Porter Idaho mines (103P 089), 5 kilometres southeast of Stewart. Prospecting adjacent to the mine in 1928 revealed several narrow shear zones carrying high silver values.

narrow shear zones carrying high silver values.

The occurrence consists of a shear zone striking 160 degrees and dipping steeply west, hosted in plagioclase porphyritic andesite of the Lower Jurassic Unuk River Formation. The zone contains blocks of andesite in a white quartz matrix. A 0.1 to 0.66 metre wide sulphiderich zone along the footwall of the shear zone contains abundant coarsely crystalline galena and sphalerite, some pyrite, chalcopyrite and trace native silver. A 1.0 metre chip sample taken from the adit assayed 0.031 grams per tonne gold, 72.15 grams per tonne silver, 0.15 per cent lead and 0.46 per cent zinc (Assessment Report 8650, page 10).

A second 0.3 metre wide shear zone, in the same vicinity, contains a 0.15 metre wide sulphidic lens. A 0.10 metre chip sample across the lens assayed 24,000 grams per tonne silver (Minister of Mines Annual Report 1928, page 25).

Mines Annual Report 1928, page 25).

In 1929, four tonnes of ore were mined from the main zone with an average grade of 6642 grams per tonne silver.

PAGE:

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RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1926-88; \*1928-95,96; \*1929-93,434,501
EMPR ASS RPT 8403, \*8650
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EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217,
218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243
EMPR MAP 8
EMPR MAP 8

EMR MP CORPFILE (Melvin Mining Co. Ltd.) GSC MAP 215A; 307A; 315A; 1385A GSC MEM 175, p. 131

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/14 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 090

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 091 NATIONAL MINERAL INVENTORY: 103P12 Cu4

NAME(S): VANGUARD GOLD, VANGUARD, CAUFIELD BLOCK

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 44 26 N NORTHING: 6177353 LONGITUDE: 129 34 23 W EASTING: 464021

ELEVATION: 968 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on sample site D-002 (Assessment Report 16034,

Figure 5).

COMMODITIES: Gold Silver Copper 7inc Lead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite

COMMENTS: Within silicified zones in andesite. ASSOCIATED: Quartz ALTERATION: Quartz ALTERATION TYPE: Silicific'n Carbonate Sericite

Pyrite Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Disseminated Massive Vein

CLASSIFICATION: Hydrothermal TYPE: I02 Intrus Epigenetic Intrusion-related Au pyrrhotite veins 105 Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: Silicified zones strike northwest.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Undefined Formation Lower Jurassic

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1951

Assay/analysis SAMPLE TYPE: Chip

**GRADE** 

COMMODITY Silver 48 0000 Grams per tonne

Gold 95,6000 Grams per tonne

COMMENTS: A 1.93 metre long chip sample.

REFERENCE: Minister of Mines Annual Report 1951, page 90.

**CAPSULE GEOLOGY** 

The Vanquard Gold showing is located 1 kilometre southwest of Homestake Creek in the upper Kitsault Valley, 29.5 kilometres north-northwest of Alice Arm. High grade gold mineralization was discovered here in about 1928 and has been explored, by trenching and

tunnelling, up to 1951.

This showing, as with the Vanguard copper prospect (103P 210) 1.15 kilometres to the southeast, is located at the northern extent of a 10 kilometre long northwest trending body of gossanous plagio-clase-hornblende porphyritic andesite of the Lower Jurassic Hazelton Group. The andesite, informally known as the Copper Belt, has been extensively pyritized and variably silicified and sericitized along its length.

A poorly defined west-northwest trending zone of silicification and fracturing in the andesite contains disseminated pyrite, chalcopyrite and traces of galena and sphalerite in a gangue of quartz and carbonate. A 1.93 metre chip sample assayed 95.6 grams per tonne gold and 48.0 grams per tonne silver (Minister of Mines Annual Report 1951, page 90).

A second exposure, 100 metres to the east, contains quartz, pyrite, chalcopyrite, and minor galena over a 1.8 metre width in PAGE:

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#### **CAPSULE GEOLOGY**

altered andesite dipping steeply southwest. A 1.93 metre chip sample assayed 2.06 grams per tonne gold, 10.3 grams per tonne silver and 2.1 per cent copper (Minister of Mines Annual Report 1951, page 90).

A third zone, at least 24 metres wide, is exposed a further 60 metres to the east. This zone contains lenses of sphalerite, galena and chalcopyrite. The lenses, up to 2 centimetres thick, occur in grants voinlots within alightly charged purities and called quartz veinlets within slightly sheared pyritic andesite.

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EMPR PF (Carter, N.C. (1969) Maps of Adits and Trenches; \*Sevensma, P.H. (1973) Reports; Lisle, T.F. (1981) Report; Cambria Resources Prospectus, 1987) EMR MP CORPFILE (Caufield Resources Ltd.)
GSC MAP 307A; 1385A
CGNL #166, 1980; #99, 1989

DATE CODED: 1989/05/10 DATE REVISED: 1989/05/10

CODED BY: PSF REVISED BY: PSF

FIELD CHECK: N FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 092

NATIONAL MINERAL INVENTORY: 103P13 Ag18

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

1085

NAME(S): SILVER HILL, SILVER SLIPPER, COAST SILVER

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

LATITUDE: 55 53 41 N NORTHING: 6194786 LONGITUDE: 129 58 03 W ELEVATION: 1250 Metres EASTING: 439496

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on adit (Minister of Mines Annual Report 1925,

page 80).

COMMODITIES: Gold Silver Copper 7inc Lead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Chalcopyrite Magnetite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 102 105 Polymetallic veins Ag-Pb-Zn±Au Intrusion-related Au pyrrhotite veins DIMENSION: STRIKE/DIP: 087/85S TREND/PLUNGE:

COMMENTS: Attitude of quartz-sulphide vein.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

FORMATION GROUP Hazelton IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Lower Jurassic Unuk River

Focene Coast Plutonic Complex

ISOTOPIC AGE: 47-51 +/- 2-3 Ma DATING METHOD: Potassium/Argon

LITHOLOGY: Greenstone

Granodiorite

HOSTROCK COMMENTS: Isotopic age from Alldrick, D., Open File 1986-2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Plutonic Rocks

Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated at the contact between the Stewart Complex & the Hyder Pluton

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YFAR: 1925 Assay/analysis SAMPLE TYPE: Chip

**GRADE** COMMODITY

Silver 1080.0000 Grams per tonne Gold 58.9000 Grams per tonne

COMMENTS: A 0.152 metre chip sample from quartz-sulphide vein.

REFERENCE: Property File (McDougall, B.W. 1925).

CAPSULE GEOLOGY

The Silver Hill occurrence is located on the west slope of Mount Rainey, 5 kilometres southeast of Stewart. Various showings were investigated in this area in the 1920's.

The occurrence consists of a number of quartz veins varying from a few centimetres to 6 metres in width hosted in granodiorite of the Hyder Pluton to the west and greenstone of the Lower Jurassic Unuk River Formation to the east.

One vein occurs in a 0.3 metre wide shear zone, along its footwall, and is mineralized with magnetite, chalcopyrite and pyrite. The vein varies from 1.5 to 6 metres in width, strikes 130 degrees and dips 79 degrees southeast. A 0.3 metre chip sample across the shear assayed 3.1 grams per tonne gold, 103 grams per tonne silver and 0.5 per cent copper (Property File - McDougall, 1925).

A 0.15 to 0.20 metre wide quartz sulphide vein occurs to the north. It strikes 087 degrees for at least 30 metres and dips 85 degrees south. A 0.152 metre chip sample assayed 58.9 grams per tonne gold and 1080 grams per tonne silver (Property File

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**CAPSULE GEOLOGY** 

McDougall, 1925).

Various other quartz veins containing pyrite, sphalerite and galena assayed up to 14.60 grams per tonne gold and 240 grams per tonne silver (Minister of Mines Annual Report 1925, page 80).

**BIBLIOGRAPHY** 

EMPR AR \*1925-80; 1928-96

EMPR BULL 58; 63

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR PF (\*McDougall, B.W. (1925) Report)

EMR MP CORPFILE (Silver Slipper Mining Co. Ltd.)

GSC MAP 215A; 507A; 5185A

GSC MEM 175, p. 110

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/14 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 092

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 093

NATIONAL MINERAL INVENTORY: 103P12,13 Cu2

NAME(S): FOX - GOLD REEF, FOX, GOLD REEF, CAMBRIA

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P12E

BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1087

LATITUDE: LONGITUDE: 129 35 06 W NORTHING: 6177978 EASTING: 463276

ELEVATION: 1200 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on trench Number 1 (Assessment Report 16034,

Figure 5).

COMMODITIES: Gold Silver Copper Lead Zinc

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Chalcopyrite Galena Flectrum

Barite

Tétrahedrite ASSOCIATED: Quartz Calcite

Sericite Sericitic

ALTERATION: Quartz
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

Polymetallic veins Ag-Pb-Zn±Au TYPE: 102 Intrusion-related Au pyrrhotite veins 105 DIMENSION: STRIKE/DIP: 080/68N TREND/PLUNGE:

COMMENTS: Attitude of vein in Number 1 trench.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

> LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite Argillite

Siltstone

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1988 CATEGORY: Assav/analysis SAMPLE TYPE: Channel

COMMODITY Silver 10.0000 Grams per tonne 21.5000 Gold Grams per tonne

COMMENTS: A 1.0 metre sample across vein and wallrock. REFERENCE: Property File (Prospectus: Cambria Resources, 1988, page 14).

CAPSULE GEOLOGY

The Fox-Gold Reef occurrence is located 1.5 kilometres southwest of Homestake Creek, 30.5 kilometres north-northwest of Alice Arm. The occurrence is hosted in a hydrothermally altered unit of plagioclase-hornblende porphyritic andesite and minor interbedded black siltstone/argillite, informally called the Copper Belt, of the

Lower Jurassic Hazelton Group.

The occurrence is comprised of several veins exposed in two trenches. The number 1 trench exposes a 0.35 metre wide vein striking 080 degrees and dipping 68 degrees north. The vein contains pyrite, minor chalcopyrite and trace galena, sphalerite and electrum in a gangue of quartz and pods of calcite. The vein is hosted in a silicified and sericitized porphyritic andesite. A 1 metre channel sample from the trench taken across a section of vein and wallrock assayed 21.5 grams per tonne gold and 10 grams per tonne silver (Property File - Cambria Resources Prospectus, page 14).

The number 2 trench, 230 metres to the southeast, exposes a 0.30

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#### **CAPSULE GEOLOGY**

metre wide vein striking 115 degrees and dipping 32 degrees south in relatively unaltered porphyritic andesite. The vein is mineralized with pyrite, chalcopyrite, galena and sphalerite in a gangue of quartz, calcite and minor barite. A 1.50 metre channel sample across the vein and wall rock assayed 2.33 grams per tonne gold and 1.8 grams per tonne silver (Property File - Cambria Resources Prospectus, page 14).

An adit 100 metres north of the number 1 trench has exposed a quartz vein containing minor galena, pyrite and trace tetrahedrite.

### **BIBLIOGRAPHY**

EMPR AR 1918-65; 1920-50; 1922-58; 1923-57; 1925-75,76; 1927-78; 1934-B15 EMPR ASS RPT 16034, 18657 EMPR EXPL 1987-C364 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR MAP o EMPR OF 1986-2 EMPR PF (\*Cambria Resources Ltd. Prospectus, 1987; Cambria Resources, V.S.E. Filing Statement, 1988) EMR MP CORPFILE (Kitsault River Mining & Development Co. Ltd.) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 65

DATE CODED: 1989/05/11 DATE REVISED: 1989/05/11

CODED BY: PSF REVISED BY: PSF

FIELD CHECK: N FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 094 NATIONAL MINERAL INVENTORY: 103P13 Cu5

NAME(S): RED REEF, PRINCEMONT

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 55 29 N NORTHING: 6198128 LONGITUDE: 129 58 17 W EASTING: 439300

ELEVATION: 381 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit (Minister of Mines Bulletin 58,

Figure 3, Sheet A).

COMMODITIES: Copper Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite Galena Sphalerite

Bornite COMMENTS: Sulphides as massive patches, lenses, stringers, blebs and

disseminations.

ASSOCIATED: Quartz Garnet **Epidote** Diopside **Biotite** ALTERATION: Quartz RATION TYPE: Skarn **Biotite** Garnet Epidote Diopside

ALTERATION TYPE: MINERALIZATION AGE: Eocene

ISOTOPIC AGE: 47-51 (+/- 2-3) Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite

**DEPOSIT** 

CHARACTER: Stratiform Massive Disseminated Vein CLASSIFICATION: Skarn Hydrothermal **Epigenetic** 

TYPE: K01 Cu skarn

DIMENSION: STRIKE/DIP: 123/74S TREND/PLUNGE:

COMMENTS: Bedded rocks containing skarn zones strike between 116 and 130 degrees and dip 70 to 78 degrees south.

HOST ROCK

DOMINANT HOSTROCK: Metasedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP FORMATION** 

Lower Jurassic Hazelton **Unuk River** Eocene Hyder Pluton

LITHOLOGY: Argillite

Tuff Limestone Granodiorite

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Boundary Ranges

TECTONIC BELT: Intermontane TERRANE: Stikine METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE:

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: ADIT REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis YEAR: 1974

**GRADE** 

COMMODITY 3.0000 Per cent

COMMENTS: Highest assay from chip samples taken from adit.

REFERENCE: Property File (S.V. Ramani, 1974, page 5).

CAPSULE GEOLOGY

The Red Reef showing is located on the northwest slope of Mount Rainey, 2 kilometres southeast of Stewart. Various showings have

been investigated in this area since 1910.

The occurrence is hosted in argillite and tuff with minor intercalated recrystallized limestone of the Lower Jurassic Unuk River Formation adjacent to Eocene granodiorite of the Hyder Pluton. The bedded units strike 116 to 130 degrees, dip 70 to 78 degrees southwest and are locally folded and cut by granitic pegmatite and lamprophyre dykes.

The showing consists of siliceous skarn zones up to 3 metres wide, developed parallel to the bedding of the enclosing rocks. The zones contain massive patches, blebs, disseminations and stringers of

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

pyrrhotite, pyrite, minor chalcopyrite and bornite in a gangue of quartz, garnet, epidote, diopside and biotite. These zones are often cut by northwest and northeast striking lenses, veins and stringers of quartz and massive pyrrhotite, pyrite, galena and sphalerite with disseminated chalcopyrite. Chip sampling in an adit resulted in copper assays of between 0.62 and 3 per cent (Property File - Ramani, S.V. 1974, page 5). Chip sampling along a skarn zone over a length of 15 metres and a width of 2.4 metres assayed trace gold and silver (Property File - Mandy, J.T. 1937, page 6).

### **BIBLIOGRAPHY**

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EMPR ASS RPT 14341

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1973-490

EMPR MAP 8

EMPR PF (\*Mandy, J.T. (1937) Reports; \*Ramani, S.W., (1974) Report; Secretariat Resources Incorporated, Prospectus 1975)

EMR MP CORPFILE (Princemont Explorations Ltd.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 175, p. 140

GCNL #73, 1975

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/05/22 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 094

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 095

NATIONAL MINERAL INVENTORY: 103P13 Ag19

PAGE:

UTM ZONE: 09 (NAD 83)

EASTING: 440336

REPORT: RGEN0100

1091

NAME(S): SILVER BELL-STEWART, SILVER BELL

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

NORTHING: 6196474

LATITUDE: 55 54 36 N LONGITUDE: 129 57 16 W ELEVATION: 1372 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on claims (Minister of Mines Annual Report

1925, page 80).

COMMODITIES: Silver I ead 7inc

**MINERALS** 

SIGNIFICANT: Galena Sphale COMMENTS: Stringers and lenses. Sphalerite Pyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: I05 Polym

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Unuk River

LITHOLOGY: Greenstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1925 Assay/analysis

SAMPLE TYPE: Grab COMMODITY

**GRADE** 141.0000 Grams per tonne Silver

REFERENCE: Minister of Mines Annual Report 1925, page 80.

CAPSULE GEOLOGY

The Silver Bell-Stewart occurrence is located on the west slope

of Mount Rainey, 4 kilometres southeast of Stewart.

The showing consists of a series of shear zones, up to 1.2 metres wide, in greenstone of the Lower Jurassic Unuk River Formation. The shear zones contain stringers and lenses of galena, sphalerite and pyrite. A grab sample assayed 141 grams per tonne

silver (Minister of Mines Annual Report 1925, page 80).

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EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MP CORPFILE (Silver Bell Mining Co. Ltd.) GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 175, p. 145

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/14 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 095

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 096

NATIONAL MINERAL INVENTORY: 103P13 Au2

PAGE:

REPORT: RGEN0100

1092

NAME(S): WIRE GOLD, RAINBOW, GOLD KNIFE, GOLD DROP-GOLD BOULDER, HEAT, LRJ

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W UTM ZONE: 09 (NAD 83)

BC MAP:

NORTHING: 6192347 EASTING: 439201 LATITUDE: LONGITUDE: 129 58 18 W ELEVATION: 305 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on the portal of the northernmost tunnel

(Assessment Report 28, Map 1).

COMMODITIES: Gold Silver Lead

**MINERALS** 

SIGNIFICANT: Pyrite Galena Arsenopyrite Gold

COMMENTS: Massive sulphides in vein.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Massive CLASSIFICATION: Hydrothermal Epigenetic Intrusion-related Au pyrrhotite veins

TYPE: 102 Intr DIMENSION: 1370 x 2 STRIKE/DIP: 059/67N TREND/PLUNGE: Metres

COMMENTS: Vein strikes 054 to 065 degrees, dips 65 to 70 degrees northwest.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex ISOTOPIC AGE: 47-51 +/- 2-3 Ma

DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite, hornblende

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Isotopic age from Alldrick, D., Open File 1986-2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Plutonic Rocks

COMMENTS: Situated in the Hyder Pluton, within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1988 Assay/analysis

CATEGORY: Assay SAMPLE TYPE: Grab

**GRADE** COMMODITY

Silver 9.9000 Grams per tonne Gold 15.3000 Grams per tonne

COMMENTS: Highest assay values.

REFERENCE: Assessment Řeport 13402, page 14.

CAPSULE GEOLOGY

The Wire Gold showing is located 3 kilometres east of the Portland Canal, 7.5 kilometres south-southeast of Stewart. The Wi Gold showing is one of 3 showings comprising the Rainbow property, The Wire the other two are the Fraser (103P 097) and the North Fork (103P 098) showings.

The showing consists of a 0.3 to 2.0 metre wide quartz vein, striking 054 to 065 degrees and dipping 65 to 70 degrees northwest. The vein is hosted in granodiorite of the Eocene Hyder Pluton of the Coast Plutonic Complex and extends along surface for approximately 1370 metres. Mineralization consists of massive pyrite with minor galena, arsenopyrite and visible gold.

Grab samples of the vein have assayed up to 15.3 grams per tonne gold and 9.9 grams per tonne silver (Assessment Report 13402, page 14).

**BIBLIOGRAPHY** 

EMPR AR \*1912-105; \*1924-59; 1925-81; 1926-87; 1928-93

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR ASS RPT 1028, \*13402, 17627, 20042, 22270 EMPR BULL 58; 63 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMR MP CORPFILE (Sterling Silver-Lead Mines Ltd.; Marmot Consolidated Mines Ltd.)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM 175, pp. 128,151
GSC OF 2996
GCNL #150, 1985; #168, 1991

DATE CODED: 1985/07/24 DATE REVISED: 1999/06/17 CODED BY: GSB REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 096

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 097

NATIONAL MINERAL INVENTORY: 103P13 Ag24

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NAME(S): **FRASER**, HEAT, CRAWFORD, DWYRE, RAINBOW

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 53 00 N LONGITUDE: 129 55 50 W NORTHING: 6193486 EASTING: 441790

ELEVATION: 1160 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of upper tunnel (Assessment Report 8969,

Figure 3).

COMMODITIES: Gold Zinc Silver Copper Lead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Tetrahedrite Pyrrhotite Galena

COMMENTS: Sulphides as massive veins. ASSOCIATED: Quartz

Pyrite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown Pyrite

**DEPOSIT** 

CHARACTER: Vein Massive CLASSIFICATION: Hydrothermal Epigenetic

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

SHAPE: Tabular

COMMENTS: Shear zones strike 90 to 120 degrees, dip steeply.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Unuk River

LITHOLOGY: Sandstone

Slate

Argillite

Volcanic Conglomerate Tuff

Limestone Andesitic Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1919 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver 41.0000 Grams per tonne Gold 1.4000 Grams per tonne Copper 0.1300 Per cent Lead 0.4400 Per cent

3.3600 Per cent COMMENTS: A 2.0 metre chip sample below portal of lower adit.

REFERENCE: Assessment Report 8969, Figure 4.

CAPSULE GEOLOGY

The Fraser showing is located on the south side of Kate Ryan Creek, 7 kilometres southeast of Stewart. Various gossanous zones have been explored in the area for base and precious metals since 1919. The Fraser showing is one of 3 showings on the Rainbow property, the other 2 are the Wire Gold (103P 096) and the North Fork (103P 098) showings.

The showing is comprised of a number of tabular, pyritic and siliceous zones up to 20 metres long and a few metres wide. These are developed along shear zones that parallel a steeply dipping

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

cleavage trending 090 to 120 degrees. The shear zones occur in a folded sequence of tuffs, sandstone, slate, and argillite with minor volcanic conglomerate, limestone and andesitic flows of the Lower Jurassic Unuk River Formation. These are intruded by northwest trending dykes 1 to 2 metres wide. Some of the pyritic zones are cored by 1 to 10 centimetre wide veins of massive pyrite and pyrrhotite and minor galena, sphalerite and trace tetrahedrite. A 2-metre chip sample 6 metres below the portal of the lower adit assayed 0.13 per cent copper, 0.44 per cent lead, 3.36 per cent zinc, 41 grams per tonne silver and 1.4 grams per tonne gold (Assessment Report 8969, Figure 4).

### **BIBLIOGRAPHY**

EMPR AR 1919-63; 1921-62; 1923-70; 1925-81; 1926-87; 1928-93
EMPR ASS RPT \*8969, 17627, 20042
EMPR BULL 58; 63
EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243
EMPR MAP 8
EMR MP CORPFILE (Sterling Silver-Lead Mines Ltd.; Marmot Consolidated Mines Ltd.; Marmot Lead & Zinc Mines Ltd.)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM 175, pp. 115,128,129
GCNL #168, 1991
WWW http://www.infomine.com/

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/14 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 097

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 098

NATIONAL MINERAL INVENTORY: 103P13 Ag24

NAME(S): NORTH FORK, NORTH FORK BASIN, FRASER, HEAT, RAINBOW, STERLING SILVER

STATUS: Developed Prospect Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W

BC MAP:

UTM ZONE: 09 (NAD 83) NORTHING: 6193260 EASTING: 442499

PAGE:

REPORT: RGEN0100

1096

LATITUDE: 55 52 53 N LONGITUDE: 129 55 09 W

ELEVATION: 1311 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of the upper Sterling Silver adit

(Geological Survey of Canada Map 215A).

COMMODITIES: Silver Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Tetrahedrite Galena

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Epigenetic

Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 360/45W TREND/PLUNGE: COMMENTS: Attitude of 1.0 metre wide vein in shear zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Unuk River

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The North Fork occurrence is located on the south side of Kate Ryan Creek, 8 kilometres southeast of Stewart. Several small shipments of high grade ore were made from this location between 1919 and 1924.

The occurrence is comprised of two veins which are developed in north to northwest striking, steeply west dipping argillite of the Lower Jurassic Unuk River Formation.

The first vein, situated in a shear zone, is 1 metre wide, strikes north and dips 45 degrees west. The second vein is 0.3 metres wide, strikes west, dips 60 degrees north and is offset by a fault. Mineralization consists of pyrite, galena, sphalerite and tetrahedrite in a gangue of quartz.

Two shipments of sorted ore from the first vein totalling 9 tonnes averaged 3872 grams per tonne silver, 14.4 per cent lead and 4.4 per cent zinc (Minister of Mines Annual Report 1919, pages 63, 64 and 1924, page 59).

**BIBLIOGRAPHY** 

EMPR AR 1916-85; \*1919-63,64; 1921-62; 1922-68; 1923-70; \*1924-59

EMPR ASS RPT 8969, 17627, 20042

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MP CORPFILE (Sterling Silver-Lead Mines Ltd.; Marmot Consolidated

Mines Ltd.)

GSC MAP 215A; 307A; 315A; 1385A GSC MEM \*159, p. 66; 175, p. 133

GCNL #168, 1991

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/14 REVISED BY: PSF FIELD CHECK: N RUN DATE: 26-Jun-2003 MINFILE MAST
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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 099

NATIONAL MINERAL INVENTORY: 103P13 Cu6

NAME(S): **DOMINION**, STAR

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: LATITUDE: 55 53 35 N

NORTHING: 6194544 EASTING: 443663

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REPORT: RGEN0100

1097

LONGITUDE: 129 54 03 W ELEVATION: 1143 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit (Geological Survey of Canada

Map 215A).

COMMODITIES: Copper Lead Zinc

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER
Lower Jurassic Hazelton Unuk River

LITHOLOGY: Schistose Tuff

Schistose Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Dominion showing is located 7.5 kilometres southeast of Stewart, above the Kate Ryan Glacier. An adit, driven between 1927 and 1929, attempted to intersect veins that outcrop in the cliffs above it.

above it.

The showing consists of a few lenticular quartz veinlets containing pyrite, chalcopyrite, sphalerite and galena. These are hosted in north west striking, moderately northeast dipping, schistose tuffs and flows of the Lower Jurassic Unuk River Formation.

**BIBLIOGRAPHY** 

EMPR AR 1925-82; 1927-84; 1934-B24

EMPR ASS RPT 17627 EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1972-509

EMPR MAP 8

GSC MAP 215A; 307A; 315A; 1385A GSC MEM \*159, p. 65; 175, p. 112

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/14 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 099

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 100

NATIONAL MINERAL INVENTORY: 103P13 Au1

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1098

NAME(S): GOLD DROP, BI-METALLIC, STIMULATOR, GOLD BOULDER, MYSTERY, PAN HANDLE,

MIDAS, GOLD PAN, GOLD WEDGE,

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 51 56 N NORTHING: 6191546 EASTING: 438964

LONGITUDE: 129 58 31 W ELEVATION: 411 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on the vein exposure in the Gold Drop tunnel

(Assessment Report 28, Map 1).

COMMODITIES: Gold Lead Copper 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Sphalerite Galena Chalcopyrite

Gold ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Breccia

CLASSIFICATION: Hydrothermal nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DIMENSION: STRIKE/DIP: 090/55W TREND/PLUNGE:

COMMENTS: Mystery vein strikes 010 to 170 degrees and dips 35 to 75 degrees

west.

HOST ROCK DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP **FORMATION** 

Eocene Coast Plutonic Complex

ISOTOPIC AGE: 47-51 +/- 2-3 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite, hornblende

LITHOLOGY: Orthoclase Porphyritic Granodiorite

**GEOLOGICAL SETTING** 

ONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks TECTONIC BELT: PHYSIOGRAPHIC AREA: Boundary Ranges

COMMENTS: Situated in the Hyder Pluton within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: STOCKPILE REPORT ON: N

> CATEGORY: YEAR: 1946

Assay/analysis

SAMPLE TYPE: Bulk Sample **GRADE** COMMODITY

Silver 147.0000 Grams per tonne Gold 80.2000 Grams per tonne Copper 0.2000 Per cent Lead 2.0000 Per cent Zinc 0.2000 Per cent

COMMENTS: A 4.414 tonne bulk sample of sorted ore from Midas vein.

REFERENCE: Minister of Mines Annual Report 1946, page 84.

CAPSULE GEOLOGY

The Gold Drop occurrence is located on the south side of the Marmot River,  $3.5~\mbox{kilometres}$  east of the Portland Canal and 8

kilometres south-southeast of Stewart.

A number of quartz veins and lenses, hosted in shear zones occur in orthoclase porphyritic granodiorite of the Eocene Hyder Pluton in the Coast Plutonic Complex. The shear zones and granodiorite are intruded by a few northeast and northwest striking, steeply dipping lamprophyre dykes. Two sets of veins generally strike 000 to 023 degrees and 050 to 070 degrees. Individual, well-defined veins vary up to 1.2 metres in width, and shear zones with poorly defined degrees and 050 to 070 degrees. silicified walls containing numerous quartz veins and lenses are up to 6 metres in width. Mineralization generally consists of pyrite,

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#### CAPSULE GEOLOGY

pyrrhotite, galena, sphalerite, chalcopyrite and free gold in a gangue of brecciated quartz.

Several of the more important veins contain significant precious metal values. The Midas (Gold Pan) vein is up to 0.76 metres wide, strikes 008 to 050 degrees for at least 100 metres and dips 30 degrees west to 76 degrees east. A 4.414 tonne sample of sorted ore assayed 80.2 grams per tonne gold, 147 grams per tonne silver, 0.2 per cent copper, 2.0 per cent lead and 0.2 per cent zinc (Minister of Mines Annual Report 1946, page 84).

The Mystery (Pan Handle) vein strikes northward 010 to 170 degrees for 137 metres and dips 35 to 75 degrees west. The vein varies from a single solid quartz vein to a shear zone, up to 1.5 metres wide, of crushed quartz lenses and brecciated granodiorite. A 0.15 metre channel sample assayed 8.26 grams per tonne gold and 276 grams per tonne silver (Minister of Mines Annual Report 1929, page 93).

Production in 1936 totalled 1 tonne of ore with an average grade of 187 grams per tonne gold, 218 grams per tonne silver, 0.3 per cent copper and 0.5 per cent lead.

#### **BIBLIOGRAPHY**

EMPR AR 1928-96; \*1929-93,94; 1930-104; 1933-53; 1938-B25; 1939-56-58,66; 1940-41,43,52; 1945-62; \*1946-82-85; 1950-78,79 EMPR ASS RPT \*28, 9311, 13402, 16905 EMPR BC METAL MM00716 EMPR BULL 58; 63 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR INDEX 3-197 EMPR MAP 8 EMPR PF (Doyle, M.L. (1946) Letter) EMR MP CORPFILE (Gold Drop Mines Ltd.) GSC MAP 215A; 307A; 315A; 1385A GSC MEM 175, p. 108 GSC OF 2996 GCNL #150, 1985 W MINER Nov., 1948 WWW http://www.infomine.com/

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N ATE REVISED: 1989/05/13 REVISED BY: PSF FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 101

NATIONAL MINERAL INVENTORY: 103P13 Au3

NAME(S): **PATRICIA**, PAT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1100

LATITUDE: 55 51 39 N LONGITUDE: 129 55 42 W

NORTHING: 6190981 EASTING: 441895

ELEVATION: 823 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on the lowest of two trenches on Patricia Creek

(Assessment Report 13177, Figure 4).

COMMODITIES: Gold 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Galena Pyrite Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

Intrusion-related Au pyrrhotite veins 102 STRIKE/DIP: 013/90 TREND/PLUNGE:

DIMENSION: COMMENTS: Attitude of quartz vein in granodiorite.

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE <u>FORMATION</u> IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Unuk River Middle Jurassic Hazelton Salmon River

Eocene Coast Plutonic Complex

ISOTOPIC AGE: 47-51 +/- 2-3 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite/hornblende

LITHOLOGY: Granodiorite

Argillite Andesitic Tuff Greenstone

HOSTROCK COMMENTS: Granodiorite of the Hyder Pluton. Isotopic age from Alldrick, D.,

Open File 1986-2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Boundary Ranges Stikine

TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Along contact between the Stewart Complex & the Coast Plutonic Complex

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YFAR: 1921 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

COMMODITY GRADE

133.0000 Gold Grams per tonne

COMMENTS: Highest assay from sample of quartz vein containing galena and

pyřite in granódiorite.

REFERENCE: Minister of Mines Annual Report 1921, page 61.

CAPSULE GEOLOGY

The Patricia occurrence is located just north of the Marmot River,  $6.5~\mathrm{kilometres}$  east of the Portland Canal and  $9.5~\mathrm{kilometres}$ southeast of Stewart. The occurrence consists of several showings developed in granodiorite of the Eocene Hyder Pluton (Coast Plutonic Complex) and argillite and tuff of the Salmon River and Unuk River formations (Hazelton Group)

A quartz vein, up to 0.3 metres wide in the granodiorite, has been followed by a tunnel for 34 metres. The vein, which pinches out 23 metres from the portal, strikes 013 degrees and dips vertically. It is mineralized with sphalerite, galena and pyrite for up to 9.0 metres from the portal. Samples of quartz containing galena and metres from the portal. pyrite assayed up to 133 grams per tonne gold (Minister of Mines

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Annual Report 1921, page 61).

A 9.0 metre wide granodiorite dyke intrudes argillite of the Salmon River Formation and andesitic tuff (greenstone) of the Unuk River Formation to the north. The dyke, locally parallel to the main granodiorite contact, strikes 093 degrees and dips 61 degrees north. Quartz veinlets containing pyrite with minor chalcopyrite and galena are developed in the argillite and tuff along the flanks of the dyke. Samples from these veinlets have assayed up to 6.63 grams per tonne gold equivalent (Minister of Mines Annual Report 1922, page 67).

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EMPR AR \*1921-60,61; \*1922-66,67; 1923-69; 1925-82; 1928-92,93,434 EMPR ASS RPT 13177, 23105 EMPR BULL 58; 63 EMPR EXPL 1984-381 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240 EMPR MAP 8 EMR MP CORPFILE (Marmot Consolidated Mines Ltd.)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM 159, p. 66; 175, pp. 128,129,135 GSC OF 2996

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 103P 102

NATIONAL MINERAL INVENTORY: 103P13 Ag25

TREND/PLUNGE:

PAGE:

REPORT: RGEN0100

1102

NAME(S): MARMOT METALS, HORSESHOE, MONTANA (L.4974)

STATUS: Showing MINING DIVISION: Skeena REGIONS: British Columbia

NTS MAP: 103P13W UTM ZONE: 09 (NAD 83) BC MAP:

LATTTUDE: 55 50 55 N NORTHING: 6189591 .ONGITUDE: 129 53 32 W EASTING: 444138

LONGITUDE: 129 53 32 W ELEVATION: 1151 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit-sample site 13864 (Assessment

Report 11943, Map 2).

COMMODITIES: Zinc Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Pyrrhotite COMMENTS: Sulphides as stringers and disseminations in silicified zones.

ASSOCIATED: Quartz
ALTERATION: Quartz
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Stockwork
CLASSIFICATION: Hydrothermal Epigenetic

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular

MODIFIER: Faulted
DIMENSION: 0125 x 0005 Metres STRIKE/DIP:

COMMENTS: Silicified zone strikes northwest, for 125 metres and is 2 to 8 metres

wide

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Unuk River

LITHOLOGY: Limestone

GEOLOGICAL SETTING

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1983

SAMPLE TYPE: Chip

COMMODITY
Silver
23.9100 Grams per tonne

| Gold | 0.0600 | Grams per tonne | Zinc | 2.6000 | Per cent |

COMMENTS: Average assay from 18 chip samples across silicified zone.

REFERENCE: Assessment Report 11943, page 16, Map 2.

**CAPSULE GEOLOGY** 

The Marmot Metals showing is located just west of the Marmot

Glacier, 12.0 kilometres southeast of Stewart.

The showing consists of silicified zones containing stringers and disseminations of pyrite, sphalerite and minor galena and pyrrhotite. The zones occur in a limestone bed of the Lower Jurassic Unuk River Formation (Hazelton Group). The limestone unit has been segmented into four blocks, each roughly 100 metres wide, by three north trending steeply dipping faults. The zones are confined

largely to the westernmost block.

A 2 to 8 metre wide zone strikes northwest for 125 metres and occurs within 30 metres of the eastern edge of this limestone block. The average assay from eighteen chip samples across the zone was 0.06 grams per tonne gold, 23.91 grams per tonne silver and 2.60 per cent zinc (Assessment Report 11943, page 16, Map 2). Various other silicified zones, not as extensive, up to 4.0 metres wide also occur

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

in the westernmost limestone block.

**BIBLIOGRAPHY** 

EMPR AR 1919-63; 1920-53; 1921-61; 1922-67; 1923-70; 1925-81,82; \*1926-88; \*1927-82,394; 1928-93 EMPR ASS RPT 8538, \*11943, 23105

EMPR BULL 58; 63

EMPR EXPL 1983-510

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR MAP 8

EMPR PF (Bruggy, G.W., Geology Map, Marmot Metals Ltd.; Mondana Ventures Inc. Prospectus Oct. 1989)

EMR MP CORPFILE (Marmot Metals Mining Co. Ltd.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM \*159, pp. 66,67; 175, pp. 129,130

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/13 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 102

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 103

NATIONAL MINERAL INVENTORY: 103P13 Pb1

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6188536

**EASTING: 444385** 

REPORT: RGEN0100

1104

NAME(S): MARMOT ENGINEER, ENGINEER

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

LATITUDE: 55 50 21 N

LONGITUDE: 129 53 17 W ELEVATION: 759 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on adit (Geological Survey of Canada Map 215A).

COMMODITIES: Zinc. I ead Copper

**MINERALS** 

Sphalerite Galena Chalcopyrite Stibnite

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal thermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au
Metres TYPE: 105

DIMENSION: 0002 STRIKE/DIP: 147/72N TREND/PLUNGE:

COMMENTS: Quartz-breccia vein, 1.8 to 2.4 metres wide, strikes 144 to 150

degrees and dips 65 to 80 degrees north.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Hazelton Salmon River

Focene Hyder Pluton

LITHOLOGY: Hornfels Argillite Granodiorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Marmot Engineer showing is located near the headwaters of the south fork of the Marmot River, 12.5 kilometres southeast of Stewart. The area is underlain by argillite, siltstone and sandstone of the Middle Jurassic Salmon River Formation (Hazelton Group) and

the northeast flank of the Hyder Pluton.

The occurrence consists of two main showings which occur in hornfelsed argillite just northeast of the granodiorite contact. approximately 759 metres elevation, a 1.8 to 2.4 metre wide quartz-breccia vein strikes 144 to 150 degrees and dips 65 to 80 degrees northeast. The vein is mineralized with pyrite, sparse

chalcopyrite and trace stibnite.

South of the vein, at 945 metres elevation, various shear zones contain sparse lenses of quartz and calcite mineralized with sphalerite, galena and pyrite. One lense strikes  $120\ \text{degrees}$  and dips shallowly to the south.

**BIBLIOGRAPHY** 

EM ASS RPT 23105

EMPR AR \*1921-61; 1922-67; 1923-69; 1925-82; \*1927-82,83; 1928-94;

\*1930-104; 1931-42; 1932-57; 1933-53; 1934-B24

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MP CORPFILE (Marmot River Mines Ltd.)

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 175, p. 129

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/14 REVISED BY: PSF FIELD CHECK: N

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

7inc

MINFILE NUMBER: 103P 104

NAME(S): WASHINGTON

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P13W BC MAP:

LATITUDE: 55 50 00 N LONGITUDE: 129 52 50 W ELEVATION: 1158 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit (Geological Survey of Canada

Map 215A).

COMMODITIES: Silver Lead

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite

COMMENTS: Possibly tetrahedrite present.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia

CLASSIFICATION: Hydrothermal TYPE: I05 Polym thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Faulted DIMENSION:

STRIKE/DIP: 360/90 COMMENTS: General attitude of four subparallel shear zones.

TREND/PLUNGE:

PAGE:

NATIONAL MINERAL INVENTORY: 103P13 Pb2

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6187881 **EASTING: 444846** 

REPORT: RGEN0100

1105

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton **Unuk River** 

LITHOLOGY: Volcanic Breccia

Lithic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Contact **RELATIONSHIP:** GRADE: Hornfels

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Washington showing is located near the headwaters of the south fork of the Marmot River,  $14\ \mathrm{kilometres}$  southeast of Stewart. The region is underlain by hornfelsed sediments and volcanics of the Middle Jurassic Salmon River and Lower Jurassic Unuk River formations. These are intruded to the southwest by granodiorite of the Eocene Hyder Pluton.

The showing comprises four north striking, vertically dipping, subparallel, shear zones 15 to 30 metres apart. These zones, up to 1.8 metres wide, occur in volcanic breccia and lithic tuff of the Unuk River Formation. The zones terminate against a northeast striking fault to the south. An adit, 120 metres long, driven 30 metres below the lowest exposed shear zone failed to intersect any of the shear zones, indicating that they may be cut off by faulting at shallow depths. The zones are mineralized with pyrite, galena, sphalerite and possibly tetrahedrite. Samples of high grade silver sphalerite and possibly tetrahedrite. Samples of high grade silver ore have been obtained from here (Minister of Mines Annual Report 1926, page 88).

**BIBLIOGRAPHY** 

EMPR AR 1921-62; 1922-67; 1923-69; 1925-82; 1926-88; \*1927-83,394

EMPR ASS RPT 16652, 23105

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR PF (Corning Resources Ltd. Prospectus, 1988) GSC MAP 215A; 307A; 315A; 1385A GSC MEM \*159, pp. 67,68; 175, p. 151

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/13 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 104

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 105

NATIONAL MINERAL INVENTORY: 103P13 Au4

NAME(S): HIGH GRADE, FICKLIN - HARNER, HARNER

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1106

LATITUDE: 55 49 17 N LONGITUDE: 129 52 16 W ELEVATION: 1524 Metres

NORTHING: 6186544 EASTING: 445421

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit on Lot 5068 (Assessment Report

Silver

16652, Figure 4).

COMMODITIES: Gold

Copper Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Galena Chalcopyrite Sphalerite Arsenopyrite

COMMENTS: Sulphides as massive lenses, stringers and disseminations.

Carbonate

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

Breccia Massive Disseminated

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 1000 x 0001 Metres STRIKE/DIF COMMENTS: The lower vein, up to 1.0 metre wide, strikes 085 to 089 degrees STRIKE/DIP: 087/47N TREND/PLUNGE:

for 1000 metres and dips 45 to 50 degrees north.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Unuk River

LITHOLOGY: Volcanic Breccia

Lithic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1926

SAMPLE TYPE: Grab **GRADE** 

COMMODITY Silver 123.0000 Grams per tonne Gold 86.2000 Grams per tonne

COMMENTS: Sample of quartz with disseminated pyrite from lower vein. REFERENCE: Minister of Mines Annual Report 1926, page 89.

CAPSULE GEOLOGY

The High Grade occurrence is located near the headwaters of the south fork of the Marmot River, 15 kilometres southeast of Stewart. Various gold bearing quartz veins were extensively explored by trenching and tunnelling in this area during the late 1920's.

The occurrence consists of three veins developed in volcanic

breccia and lithic tuff of the Lower Jurassic Unuk River Formation (Hazelton Group) just east of the Eocene Hyder Pluton.

The upper vein strikes 119 to 134 degrees for at least 150 metres, dips 45 to 55 degrees northeast and is 0.6 to 2.7 metres wide. Mineralization consists of stringers and massive lenses of pyrite, galena and arsenopyrite in a quartz-carbonate gangue. A grab sample assayed 7.56 grams per tonne gold (Assessment Report 16652,

page 11). The middle vein, 150 metres southwest of the upper vein, strikes 125 degrees for 100 metres, dips 45 degrees northeast and is up to 2.1 metres wide. The quartz vein is mineralized with pyrite, minor chalcopyrite, sphalerite and trace galena.

The lower vein, 300 metres south of the upper vein, strikes 085 to 089 degrees for 1000 metres, dips 45 to 50 degrees north and is up RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

to 1.0 metre wide. It contains brecciated and silicified wallrock with numerous lenses and veinlets of quartz with pyrite and minor chalcopyrite. A sample of quartz with disseminated pyrite assayed 86.2 grams per tonne gold and 123.0 grams per tonne silver (Minister of Mines Annual Report 1926, page 89).

### **BIBLIOGRAPHY**

EMPR AR \*1926-88,89; \*1927-83,84,394; 1928-94; 1929-434,506 EMPR ASS RPT \*16652, 24128, 23105 EMPR BULL 58; 63 EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR PF (Corning Resources Ltd. Prospectus, 1988) EMR MP CORPFILE (Marmot River Gold Mines Ltd.) GSC MAP 215A; 307A; 315A; 1385A GSC MEM 159, p. 68; 175, p. 120 Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/14 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 105

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 106

NATIONAL MINERAL INVENTORY: 103P12,13 Cu2

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6178570 EASTING: 462758

PAGE:

REPORT: RGEN0100

1108

NAME(S): MATILDA, GOLD REEF

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P13E BC MAP:

LATITUDE: 55 45 05 N LONGITUDE: 129 35 36 W ELEVATION: 1302 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of grab sample number 38 (Assessment Report 16034, Fig. 5).

COMMODITIES: Zinc. I ead Silver

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Pyrite Galena Cárbonate ALTERATION: Pyrite Quartz Sericite

ALTERATION TYPE: Pyrite Silicific'n Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

Vein Disseminated

CHARACTER: Podiform
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

Intrusion-related Au pyrrhotite veins TREND/PLUNGE: 102 STRIKE/DIP: 315/65 Metres

DIMENSION: 0002 COMMENTS: Quartz lens, 2.4 metres thick, strikes west-northwest, dips 65 degrees

north.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Undefined Formation Lower Jurassic

LITHOLOGY: Plagioclase Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: LENS REPORT ON: N

> YFAR: 1951 CATEGORY: Assay/analysis

> SAMPLE TYPE: Chip

COMMODITY Silver **GRADE** 34.0000 Grams per tonne 3.9000 Per cent I ead

Per cent 7inc 12.8000

COMMENTS: A 0.76 metre chip sample from centre of quartz lens, trace gold. REFERENCE: Minister of Mines Annual Report 1951, page 87.

CAPSULE GEOLOGY

The Matilda showing is located about 1.5 kilometres southwest of Homestake Creek, 31 kilometres north-northwest of Alice Arm. The showing was explored by trenching and tunnelling between 1918 and 1934.

The showing is situated at the western margin of a 10 kilometre long northwest trending body of plagioclase-hornblende porphyritic andesite. The Lower Jurassic Hazelton Group andesite, informally called the Copper Belt, is extensively pyritized with variable silicification and sericitization.

The showing comprises a 6 metre wide west-northwest trending zone containing numerous carbonate stringers, disseminated pyrite, blebs of sphalerite and minor galena. A 2.4 metre thick quartz lens of similar strike and dipping 65 degrees north occurs 30 metres east of this zone. The centre of the lens is well mineralized with sphalerite and galena, which becomes sparse at the margins of the lens. A 0.76 metre chip sample of the centre of the lens assayed trace gold, 34 grams per tonne silver, 3.9 per cent lead and 12.8 per cent zinc (Minister of Mines Annual Report 1951, page 87).

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1918-65; 1920-50; 1921-50; 1922-58; 1923-57; 1925-75; 1926-83; 1927-78; 1930-99; 1934-B15; \*1951-86,87 EMPR ASS RPT \*16034, 18657, 23105 EMPR BULL 63 EMPR EXPL 1987-C364 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR MAP 0 EMPR OF 1986-2 EMR MP CORPFILE (Kitsault River Mining & Development Co. Ltd.) GSC MAP 307A; 315A; 1385A GSC MEM 175, pp. 71,72

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 DATE REVISED: 1989/05/10 FIELD CHECK: N

MINFILE NUMBER: 103P 106

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 107 NATIONAL MINERAL INVENTORY: 103P13 Au4

NAME(S): PRINCE GEORGE, NEW STRIKE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 50 05 N NORTHING: 6188042 EASTING: 444309

LONGITUDE: 129 53 21 W ELEVATION: 1097 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on New Strike claim-Lot 4751 (National Topographic

System Map 103P/13).

COMMODITIES: Gold Silver Copper Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite

COMMENTS: Sulphides massive to disseminated in vein.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Massive Disseminated

Epigenetic

Intrusion-related Au pyrrhotite veins 5N TREND/PLUNGE: Polymetallic veins Ag-Pb-Zn±Au 102

STRIKE/DIP: 059/65N DIMENSION: COMMENTS: Attitude of vein up to 1.2 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Eocene Coast Plutonic Complex

ISOTOPIC AGE: 47-51 +/- 2-3 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite/hornblende

LITHOLOGY: Granodiorite

HOSTROCK COMMENTS: Isotopic age from Alldrick, D., Open File 1986-2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Boundary Ranges

COMMENTS: Situated in the Hyder Pluton within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1921

SAMPLE TYPE: Grab **GRADE** 

COMMODITY 411.0000 Silver Grams per tonne Gold 66.3000 Grams per tonne

COMMENTS: Highest assay from samples of heavily mineralized quartz.

REFERENCE: Minister of Mines Annual Report 1921, page 62.

CAPSULE GEOLOGY

The Prince George showing is located near the headwaters of the south fork of the Marmot River, 13.5 kilometres southeast of Stewart. The showing consists of a quartz vein, up to 1.2 metres wide, striking 059 degrees and dipping 65 degrees northwest. The vein is hosted in granodiorite of the Eocene Hyder Pluton, just southwest of the contact with argillite, siltstone and sandstone of the Middle Jurassic Salmon River Formation. The vein contains massive to disseminated pyrite and minor chalcopyrite, galena and sphalerite. Samples of heavily mineralized quartz have assayed up to 66.3 grams per tonne gold and 411 grams per tonne silver (Minister of Mines

Annual Report 1921, page 62).

**BIBLIOGRAPHY** 

EMPR AR \*1921-61,62; 1922-67; 1928-519

EMPR ASS RPT 16652, 23105

EMPR BULL 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR MAP 8
EMPR PF (Corning Resources Ltd. Prospectus 1988)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM 175, p. 137

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/13 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 107

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REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

REPORT: RGEN0100 ENERGY AND MINERALS DIVISION

NATIONAL MINERAL INVENTORY: 103P12 Pb2

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6170994

EASTING: 456196

MINFILE NUMBER: 103P 108

NAME(S): VIMY RIDGE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 40 58 N

LONGITUDE: 129 41 48 W ELEVATION: 579 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location centered on showings (Geological Survey of Canada Map

COMMODITIES: Lead

7inc

Copper

SIGNIFICANT: Galena

Sphalerite

Pyrite

Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au
DIMENSION: 0030 x 0002 Metres

STRIKE/DIP: COMMENTS: The vein is 0.6 to 1.8 metres wide and has been traced for 30 metres.

Breccia

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Hazelton

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

PAGE:

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LITHOLOGY: Andesite

Quartz Diorite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine
METAMORPHIC TYPE: Regional

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Boundary Ranges GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Vimy Ridge showing is located about 9.0 kilometres northeast of Hastings Arm on the north side of O'Neil Creek (Kshwan River). The showing was investigated in 1922 for its polymetallic mineralization.

The region is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group and the Lower Jurassic Hazelton Group that is intruded by the Coast Plutonic Complex to the west. These rocks have been regionally metamorphosed to greenschist facies.

The showing consists of a quartz breccia vein hosted in Hazelton Group andesite(?). It is 0.6 to 1.8 metres wide and has been traced for at least 30 metres. The vein is heavily mineralized with galena, sphalerite, pyrite and chalcopyrite in a gangue of quartz containing andesite and quartz diorite breccia fragments.

**BIBLIOGRAPHY** 

EMPR AR \*1922-53

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 103

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/31

CODED BY: GSB REVISED BY: PSF

FIELD CHECK: N

MINFILE NUMBER: 103P 108

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 109

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

REPORT: RGEN0100

1113

NAME(S): **CARPENTERS** 

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

NTS MAP: 103P12E BC MAP: LATITUDE: 55 41 10 N NORTHING: 6171340 LONGITUDE: 129 39 20 W ELEVATION: 762 Metres EASTING: 458784

LOCATION ACCURACY: Within 5 KM

COMMENTS: Based on location of claims (Geological Survey of Canada Map 315A).

Exact location uncertain.

COMMODITIES: Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb) 102 Intrusion-related Au pyrrhotite veins COMMENTS: Three parallel veins strike 148 degrees.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE GROUP Stuhini IGNEOUS/METAMORPHIC/OTHER Upper Triassic Undefined Formation

LITHOLOGY: Black Argillite Black Siltstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Carpenters showing is located on the southeast side of O'Neil Creek (Kshwan River), 12 kilometres northeast of Hastings Arm. The area was initially prospected in 1922 and an unsuccessful attempt was made to relocate this showing in 1982 and 1983.

The region is underlain by volcanics and sediments of the Upper Triassic Stuhini Group and the Lower Jurassic Hazelton Group which are intruded by the Coast Plutonic Complex rocks to the west. These rocks have been regionally metamorphosed to greenschist facies.

The showing consists of 3 parallel quartz veins, striking 148 degrees hosted in Stuhini Group black argillite and siltstone. The veins are mineralized with pyrite and minor chalcopyrite. A cross vein striking diagonally to the other veins is reported to contain The free gold.

**BIBLIOGRAPHY** 

EMPR AR 1922-52,53

EMPR ASS RPT 10296, 11081, \*12122

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 91

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/31 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 109

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 110 NATIONAL MINERAL INVENTORY: 103P5 Ni1

NAME(S): SEA OTTER, HAYWIRE, ANYOX EXTENSION

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P05E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 25 27 N NORTHING: 6142208 LONGITUDE: 129 41 10 W EASTING: 456575

ELEVATION: 0040 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Based on location of showing on grid-at Line 0, 1 South (Assessment Report 13059, Figure 3).

COMMODITIES: Nickel Silver Copper Cobalt Gold

**Platinum** 

**MINERALS** 

SIGNIFICANT: Pyrrhotite Pyrite Chalcopyrite Pentlandite COMMENTS: Massive and disseminated in gabbro sill and gossan, cobalt minerals

associated. ASSOCIATED: Limonite ALTERATION: Limonite
ALTERATION TYPE: Oxidation

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Massive Disseminated CLASSIFICATION: Unknown

TYPE: M02 Tholeitic intrusion-hosted Ni-Cu COMMENTS: Massive sulphide lens, 0.3 metres wide, strikes west-northwest, dips

50 degrees north.

HOST ROCK DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation Upper Triassic Undefined Formation Kunga

LITHOLOGY: Limonite Gossan

Olivine Gabbroic Sill Argillite Graphitic Argillite Siltstone

Argillaceous Sandstone

HOSTROCK COMMENTS: The host rocks belong to either the Hazelton Group or the Kunga Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) TERRANE: Stikine Bowser Lake

METAMORPHIC TYPE: RELATIONSHIP: GRADF: Greenschist Regional

COMMENTS: Situated in Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: LENS REPORT ON: N

> YEAR: 1965 CATEGORY: Assay/analysis

> SAMPLE TYPE: Channel

**COMMODITY GRADE** 

10.3000 Silver Grams per tonne Cobalt 0.1800 Per cent 1.6600 Per cent Copper Nickel 1.1100 Per cent

COMMENTS: Sample across 0.30 metre wide sulphide lens, trace gold, platinum,

lead and zinc. REFERENCE: Minister of Mines Annual Report 1965, page 61.

CAPSULE GEOLOGY

The Sea Otter showing is located about 2.0 kilometres north of Davies Point at the entrance of Alice Arm on Observatory Inlet, about  $\frac{1}{2}$ 7.5 kilometres east of Anyox. It was first discovered in 1916, and has been evaluated periodically since then.

The area of the showing is underlain by the eastern margin of a

14.4 by 9.6 kilometre roof pendant within the Coast Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group,

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

(Grove, T. 1986), but have also been correlated with the Upper Triassic Kunga Group sediments and the Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J., 1980, M.Sc. Thesis).

The pendant consists of mafic massive and pillowed flows with minor mafic tuffs and overlying argillite, siltstone, sandstone and minor limestone and chert. The sequence has undergone regional greenschist grade metamorphism and has been deformed by two northeast trending phases of folding.

The country rock consists of a folded sequence of thin-bedded argillite, graphitic argillite, siltstone and argillaceous sandstone, locally altered to mica schists. South of the showing, approximately 45 metres, an outcrop of argillite and greywacke strikes 140 degrees and has a vertical dip.

Trenching has exposed a 0.3 metre wide lens of massive pyrrhotite with blebs and stringers of chalcopyrite, minor pyrite and pentlandite. The lens is overlain by a 2.0 metre thick gossan zone of limonite containing nodules of massive pyrrhotite, chalcopyrite, pentlandite and associated cobalt minerals. The sulphide lens and gossan zone are underlain by a medium to coarse-grained olivine The sill contains disseminated blebs of pyrrhotite gabbro sill. rimmed with chalcopyrite 6.0 centimetres in diameter. The massive sulphide lens strikes west-northwest and dips 50 degrees to the north and the sill has a similar orientation.

A sample across the massive sulphide lens assayed trace gold, A sample across the massive sulphide lens assayed trace gold, 10.3 grams per tonne silver, trace platinum, 1.66 per cent copper, trace lead and zinc, 1.11 per cent nickel and 0.18 per cent cobalt (Minister of Mines Annual Report 1965, page 61). A composite chip sample along a 9.0 metre trench assayed trace gold, 10.3 grams per tonne silver, 0.13 per cent nickel, 0.27 per cent copper and 0.01 per cent cobalt (Geology, Exploration and Mining in British Columbia 1969, page 68).

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DATE CODED: 1985/07/24 DATE REVISED: 1989/01/31 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Gold

MINFILE NUMBER: 103P 111 NATIONAL MINERAL INVENTORY: 103P5 Mo1

NAME(S): TIDEWATER, MAYFLOWER, ROSS

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia

NTS MAP: 103P05E BC MAP:

LATITUDE: 55 28 05 N

LONGITUDE: 129 32 50 W ELEVATION: 0330 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Determined from location of the Number 2 adit (Assessment Report

8589, Figure 3).

COMMODITIES: Molybdenum

Silver Copper Tungsten

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrrhotite Pyrite Galena Sphalerite Tetrahedrite Chalcopyrite Ruby Silver Scheelite

ASSOCIATED: Quartz Sericite Clay Hematite

ALTERATION: Quartz
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown Argillic Sericitic

**DEPOSIT** 

Stockwork Disseminated

CHARACTER: Vein
CLASSIFICATION: Porphyry
TYPE: L05 Porphyry Mo (Low F- type)
Metres
Metres Hydrothermal **Epigenetic** 105

Polymetallic veins Ag-Pb-Zn±Au STRIKE/DIP: TREND/PLUNGE:

COMMENTS: System of quartz veins and lenses, up to 20 metres wide, strikes for 280 metres northeast and dips steeply to the northwest.

HOST ROCK DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP FORMATION** 

Jurassic Bowser Lake **Undefined Formation** Tertiary Alice Arm Intrusion

LITHOLOGY: Quartz Porphyritic Quartz Monzonite

Araillite Siltstone

Fine Grained Sandstone

Greywacke

Tuff

HOSTROCK COMMENTS: The Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine Bowser Lake

METAMORPHIC TYPE: RELATIONSHIP: Syn-mineralization GRADE: Hornfels Contact

COMMENTS: Within Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: TIDEWATER REPORT ON: Y

> Indicated CATEGORY: YFAR: 1987

9071000 Tonnes QUANTITY:

**GRADE** COMMODITY Per cent Molybdenum 0.0600

COMMENTS: Grade given was 0.1 per cent MoS2; conversion to Mo using a factor of

REFERENCE: Property File - Prospectus, Richmark Resources Ltd., December 21, 1987.

CAPSULE GEOLOGY

The Tidewater deposit is located on the north side of Alice Arm Inlet, about 3.0 kilometres east of Alice Arm. The deposit produced  $\ensuremath{\mathsf{A}}$ a limited amount of ore in 1916 and 1931 containing high grade molyb-

denite from quartz veins.

The mineralization in this deposit resulted from the intrusion of a small quartz monzonite stock into a sequence of argillite, siltstone, fine-grained sandstone, minor greywacke and tuff of the Middle to Upper Jurassic Bowser Lake Group. These rocks, striking west to northwest and dipping steeply to the north and south, have been metamorphosed to biotite hornfels from a few metres to 450

PAGE:

UTM ZONE: 09 (NAD 83)

7inc

NORTHING: 6147014

EASTING: 465404

Lead

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

metres outward from the stock.

The stock is an irregularly shaped 400 by 250 metre northeast trending quartz feldspar porphyritic quartz monzonite intrusive, typical of other Tertiary Alice Arm intrusions. The stock and veins are cut by northeast trending felsic and granodioritic dykes. Silicification, sericitization and argillic alteration occurs in the stock and along quartz vein margins.

High grade molybdenite mineralization is hosted in a system of quartz stringers, veins and lenses individually a few centimetres to 4.6 metres wide. The system, up to 20 metres wide, occurs on the southern contact of the stock and extends southwestward for a strike length of 280 metres, where it deteriorates into quartz stringers. The quartz veins and lenses strike northeast and dip steeply to the northwest. Molybdenite is irregularly distributed as 1 to 2 millimetre thick concordant bands or sheets and as disseminations, to a lesser extent, in the quartz, with minor pyrite. The pyrite content increases northward towards the stock.

Low grade mineralization occurs, more widespread, as thin bands and disseminations of molybdenite within a quartz vein stockwork in the stock, in adjacent hornfelsed sediments, in the stock itself and as coatings along fractures. Molybdenite occurs with pyrite and minor scheelite, galena and sphalerite. A sample assayed of 0.0605 per cent molybdenum (0.101 per cent molybdenite) over 34 metres in hornfelsed sediments (Assessment Report 8589, page 6).

The deposit contains indicated reserves of 9,071,000 tonnes grading 0.06 per cent molybdenum (0.1 per cent molybdenite using a factor of 1.6681) based on drilling results (Property File - Richmark Resources Ltd., December 21, 1987).

The Tidewater deposit has recently been re-evaluated for gold

The Tidewater deposit has recently been re-evaluated for gold and silver mineralization in polymetallic quartz veins and quartz breccias, not related to the quartz-molybdenite veins. These occur in the quartz monzonite stock and adjacent hornfelsed sediments associated with hematitic, argillic and sericitic alteration. Quartz veins, up to 4 centimetres wide, contain selvages and disseminations of molybdenite, pyrite, pyrrhotite and minor galena, sphalerite, tetrahedrite, chalcopyrite and ruby silver. Samples assayed between 0.31 to 0.96 grams per tonne gold and 269.4 to 884.1 grams per tonne silver over 0.61 to 0.91 metres (Assessment Report 17842, pp. 9,10). Re-sampling of pulps and core from drilling in 1979 and 1980 resulted in gold assays of 3.55 grams per tonne over 2 metres from a fault zone and 7.90 grams per tonne over 2 metres in a sequence of carbonate veins in hornfelsed sediments adjacent to the stock (Richmark Resources Prospectus, 1987, page 6).

The Tidewater deposit produced a limited quantity of ore in 1916 and 1931 from underground workings in the high grade quartz-molybdenite vein system. In 1916, 347.5 tonnes of ore was shipped with a reported grade of 0.959 per cent molybdenum (1.60 per cent molybdenite)(Bulletin 9, page 65). In addition, 40.8 tonnes of tailings were shipped that averaged 0.911 per cent molybdenum (1.52 per cent molybdenite)(Bulletin 9, page 65). In 1931, 1.22 tonnes of ore were shipped (Bulletin 9, page 66).

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 112 NATIONAL MINERAL INVENTORY: 103P5 Sia4

NAME(S): MACY, MACEY, QUARTZ

STATUS: Past Producer REGIONS: British Columbia Open Pit Underground MINING DIVISION: Skeena

NTS MAP: 103P05E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 26 18 N LONGITUDE: 129 30 13 W ELEVATION: 0122 Metres

LOCATION ACCURACY: Within 500M COMMENTS: Location centered on mine workings (Open File 1986-2).

COMMODITIES: Silica

**MINERALS** 

SIGNIFICANT: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal TYPE: I07 Silica v Industrial Min. Epigenetic

Silica veins

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Bowser Lake Jurassic Undefined Formation

LITHOLOGY: Sediment/Sedimentary

Shale Siltstone Greywacke

HOSTROCK COMMENTS: The Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake METAMORPHIC TYPE: Contact RELATIONSHIP: COMMENTS: Situated in Bowser Lake foredeep clastic sediments on Stikinia Terrane GRADE: Hornfels

**CAPSULE GEOLOGY** 

The Macy mine is located on the south side of the Alice Arm of Observatory Inlet, about 5.0 kilometres south of the Alice Arm townsite. The mine, in the past, produced silica flux for the copper smelter at Anyox.

The deposit is hosted in a sequence of Middle to Upper Jurassic Bowser Lake Group sediments. These rocks have been regionally metamorphosed to greenschist facies and contact metamorphosed to biotite hornfels to the west along the contact with the Tertiary

Coast Plutonic Complex.

The Macy mine is developed in biotite hornfelsed shale, siltstone and wacke. Large bodies of barren quartz were mined here from open cuts in 1916 and 1917 and from underground workings in 1918 and 1920 for silica flux. Si with Granby Point (103P 022). Silica production for 1918 is included

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 113 NATIONAL MINERAL INVENTORY: 103P6 Mo2

NAME(S): ROUNDY CREEK, SUNSHINE CREEK

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 24 49 N NORTHING: 6140929 LONGITUDE: 129 29 32 W EASTING: 468838

ELEVATION: 320 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Portal of the 1050 adit, approximately 6 kilometres south of Alice Arm (Geology, Exploration and Mining in British Columbia 1971).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite

ASSOCIATED: Quartz Chlorite ALTERATION: Sericite
ALTERATION TYPE: Potassic **Biotite** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER. DISSERIES CLASSIFICATION: Porphyry Flydiol. CLASSIFICATION: Porphyry Mo (Low F- type) CHARACTER: Disseminated Stockwork Vein Hydrothermal **Epigenetic** 

TYPE: L05 F SHAPE: Irregular MODIFIER: Faulted Fractured

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Hazelton Undefined Formation

Alice Arm Intrusion Eocene

ISOTOPIC AGE: 53.5 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Porphyritic Quartz Monzonite

Biotite Quartz Monzonite Alaskite Lamprophyre Dike Araillite Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine METAMORPHIC TYPE: Contact PHYSIOGRAPHIC AREA: Boundary Ranges Bowser Lake

RELATIONSHIP: GRADE: Hornfels

COMMENTS: Intrusion within Bowser Lake foredeep clastic wedge.

INVENTORY

ORE ZONE: ROUNDY CREEK REPORT ON: Y

> CATEGORY: Indicated YEAR: 1971

7000000 Tonnes QUANTITY: COMMODITY **GRADE** 

Molybdenum 0.0600 Per cent COMMENTS: Grade given was 0.11 per cent MoS2; conversion to Mo using a factor of

1.6681. REFERENCE: CIM Special Volume 15 (1976), page 467.

ORE ZONE: HIGH-GRADE REPORT ON: Y

> YEAR: 1970 CATEGORY: Indicated

QUANTITY: 35000 Tonnes

COMMODITY **GRADE** Molybdenum 0.4000 Per cent

COMMENTS: of 1.6681. REFERENCE: CIM Special Volume 15 (1976), page 467.

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103P 113

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### INVENTORY

ORE ZONE: SUNSHINE CREEK

REPORT ON: Y

CATEGORY: Indicated YEAR: 1971 QUANTITY: 1350000 Tonnes

COMMODITY
Molybdenum

GRADE 0.2000 Per cent

COMMENTS: of 1.6681.

REFERENCE: CIM Special Volume 15 (1976), page 467.

#### **CAPSULE GEOLOGY**

The Roundy Creek deposit is located about 6.0 kilometres south of Alice Arm. This deposit has been extensively explored in the past for its molybdenum mineralization, resulting in the definition of several zones containing moderate reserves.

The deposit consists of a small elongate sheet-like Eocene quartz monzonite stock of the Alice Arm Intrusion that intrudes a folded sequence of Middle-Upper Jurassic Bowser Lake Group argillite and greywacke. The enclosing sediments have been metamorphosed to biotite hornfels for about 200 metres outward from the stock. These rocks are all cut by narrow, northeast striking, steeply dipping hornblende and biotite lamprophyre dykes.

The stock is made up of a core of leucocratic "quartz eye" porphyritic quartz monzonite that grades outwards into a shell of biotite quartz monzonite. It is cut by irregular masses and dykes of alaskite and is segmented by several northwest striking faults along, and adjacent to, Roundy Creek. A potassic alteration zone of abundant sericite and biotite-coated fractures are developed in the stock. This zone occurs within and marginal to higher grade molybdenite mineralization.

The stock hosts three lense like zones of molybdenite mineralization. An eastern zone contains uniform grades of molybdenite which occurs as selvages in numerous randomly orientated quartz veinlets and as fracture infillings.

quartz veinlets and as fracture infillings.

Along and south of Sunshine Creek, a tributary of Roundy Creek, alaskite hosts bands and rosettes of molybdenite in the central and southern portions of the stock. The bands are 1 to 2 centimetres wide and the uniformly distributed rosettes are 1.0 centimetre in diameter.

In addition, molybdenite occurs in randomly orientated fractures with chlorite, and in closely-spaced 0.5 to 1.0-centimetre wide quartz veinlets in alaskite and "quartz eye" porphyritic quartz monzonite.

Indicated reserves at Roundy Creek are 7.0 million tonnes grading 0.06 per cent molybdenum (grade given was 0.11 per cent MoS2); indicated reserves at Sunshine Creek are 1.35 million tonnes grading 0.20 per cent molybdenum (grade given was 0.347 per cent MoS2); indicated reserves at High-Grade are 35,000 tonnes grading 0.40 per cent molybdenum (grade given was 0.668 per cent MoS2); conversion to Mo for all zones using a factor of 1.6681 (CIM Special Volume 15 (1976), page 467).

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

7inc

MINFILE NUMBER: 103P 114

NATIONAL MINERAL INVENTORY: 103P6 Mo3

Lead

NAME(S): MOHAWK, GUS, LIME

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP:

UTM ZONE: 09 (NAD 83)

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Molybdenum

1121

LATITUDE: 55 25 45 N LONGITUDE: 129 28 08 W ELEVATION: 655 Metres NORTHING: 6142650 EASTING: 470327

LOCATION ACCURACY: Within 500M

COMMODITIES: Silver

COMMENTS: Location of main shaft (Minister of Mines Annual Report 1916,

page 68).

Gold

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite Ruby Silver Galena Arsenopyrite

Molybdenite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Concordant

Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Irregular MODIFIER: Faulted

STRIKE/DIP: DIMENSION: 0240 Metres 108/80N TREND/PLUNGE:

COMMENTS: Vein dips from 75 to 80 degrees north, strikes 108 degrees for 240

metres and is 0.30 to 0.61 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

**Bowser Lake** Undefined Formation Jurassic

LITHOLOGY: Argillite

HOSTROCK COMMENTS: The Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

Bowser Lake METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated in Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1916 Assay/analysis

**GRADE** COMMODITY

9999.0000 Silver Grams per tonne

COMMENTS: Ore material graded 10,300 grams per tonne silver. Sample of ore

reportedly mined before 1911.

REFERENCE: Minister of Mines Annual Report 1916, page 69.

CAPSULE GEOLOGY

The Mohawk occurrence is located 6.0 kilometres south-southeast of Alice Arm on the northwest flank of Mohawk Mountain.

The region is underlain by Middle to Lower Jurassic Bowser Lake

Group argillite, shale, siltstone, greywacke and conglomerate. Thes have been intruded by Lower Tertiary granodiorite and diorite of the Coast Plutonic Complex. The sediments have been folded and contact These metamorphosed to biotite hornfels.

The occurrence consists of a quartz vein, 0.30 to 0.61 metres wide, which strikes 108 degrees for 240 metres and dips 75 to 80 degrees north. The vein, faulted and displaced 6.1 metres where it crosses Mohawk Creek (Orange Creek), is developed concordantly in argillite.

The vein contains milky white quartz mineralized with black sphalerite, minor pyrite and traces of ruby silver, galena and arsenopyrite. The vein is reported to carry good gold and silver values (Minister of Mines Annual Report 1911, page 65). A small A small high grade ore shoot is reported to have been mined from a 1.8 metre long

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### **CAPSULE GEOLOGY**

tunnel and a 1.8 metre shaft just east of the fault on the creek. The ore material had an average grade of 10,300 grams per tonne silver (Minister of Mines Annual Report 1916, page 69). Previous to 1911, small scale underground mining of high grade ore is reported and the vein was periodically explored for gold and silver between 1911 and 1930. During the mid 1960's and early 1970's the area was examined for molybdenum. A vein carrying molybdenite is reported to occur at a lower elevation.

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 115

NATIONAL MINERAL INVENTORY: 103P6 Pb7

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1123

NAME(S): **KEYSTONE**, SUNSET, MORLEY'S, SILVER BOW-MCC

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P06W UTM ZONE: 09 (NAD 83)

BC MAP:

NORTHING: 6140645 EASTING: 469663 LATITUDE: LONGITUDE: 129 28 45 W

ELEVATION: 783 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of entrance to upper adit (Property File - Marshall Creek

Copper Co., Plate 1).

COMMODITIES: Gold Zinc Silver Lead Copper

Cadmium

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Pyrrhotite Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au x 15 Metres CLASSIFICATION: Hydrothermal

TYPE: 105 DIMENSION: 200 STRIKE/DIP: 032/50W TREND/PLUNGE: x 15

COMMENTS: Attitude of shear zone which has been traced for 200 metres and is

15 metres wide.

DOMINANT HOSTROCK: Sedimentary

STRATION... Middle Jurassic STRATIGRAPHIC AGE GROUP Spatsizi **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Eocene Coast Plutonic Complex

ISOTOPIC AGE: 51.5 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Argillite Granite

Granodiorite Quartz Diorite

HOSTROCK COMMENTS: Shear zone occurs along contact between granite and argillite.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Boundary Ranges Plutonic Rocks

TECTONIC BELT: Coast Crystalline TERRANE: Bowser Lake METAMORPHIC TYPE: Regional RELATIONSHIP: Svn-mineralization GRADE: Hornfels

COMMENTS: Along contact of Coast Plutonic Complex and Spatsizi Group sediments.

INVENTORY

ORE ZONE: ADIT REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1965

SAMPLE TYPE: Grab

COMMODITY GRADE 116.0000 Grams per tonne Gold 13.0000 Grams per tonne Cadmium 0.0600 Per cent 6.8000 Lead Per cent Zinc 4.9000 Per cent

COMMENTS: Grab sample from upper adit.

REFERENCE: Property File (Marshall Creek Copper Co. 1965 Annual Rpt. page 5).

CAPSULE GEOLOGY

The Keystone occurrence is located about 8.0 kilometres south of Alice Arm in the valley of Roundy Creek. The area has been explored numerous times between 1916 and 1968 for base and precious metals.

The region is underlain by Middle Jurassic Spatsizi Group argillite, shale, siltstone, greywacke and conglomerate. These are intruded by Lower Tertiary granodiorite and diorite of the Coast Plutonic Complex. These sediments have been folded and contact

metamorphosed to biotite hornfels.

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## GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION**

#### CAPSULE GEOLOGY

Quartz veins are found along or near the contact of a 30 to 90 metre wide granitic spur that extends northeastward into the argillite. The veins are localized along a shear zone developed along the eastern edge of the spur, with the intrusive forming the footwall The shear zone extends into and parallels the argillite, dipping 45 to 60 degrees west, which lies on the western flank of a gentle north-northwest trending anticline. The shear zone strikes 032 degrees, dips 50 degrees west, is up to 15 metres wide and locally extends into the intrusive body. The zone can be traced for 200 metres along Snow Creek, a tributary of Roundy Creek, where it contains sporadic variably sulphidic quartz veins.

The veins are lenticular in nature and from 5 to 46 centimetres in diameter. A quartz vein, exposed in a 14.6 metre long adit along the shear zone, strikes 178 degrees and dips 50 degrees west. This vein is 25 to 30 centimetres wide and is enclosed in sheared granite. A 36 centimetre quartz vein developed in sheared argillite and granite is exposed in a trench just above the adit. In a 213 metre long north trending adit (the Bowyer Tunnel), 69 metres below the upper adit, the shear zone is encountered at about 122 metres from the entrance, where quartz diorite contacts the argillite.

Mineralization in the veins generally consists of galena, sphalerite, pyrite and pyrrhotite in a gangue of quartz with minor carbonate. The vein exposed in the upper adit contains fine-grained galena, sphalerite, pyrrhotite and pyrite. A grab sample from the adit assayed 13.0 grams per tonne gold, 116.0 grams per tonne silver, 4.9 per cent zinc, 6.8 per cent lead and 0.06 per cent cadmium (Property File - Marshall Creek Copper Company Ltd. 1965 Annual Report, page 5).

#### **BIBLIOGRAPHY**

EMPR AR 1916-68,69; 1921-48; 1922-53; 1923-54; 1924-51; 1925-73; 1926-77,78; 1927-69,70; \*1930-87-89; 1964-24-30; \*1966-49,50; 1968-65 EMPR ASS RPT 18075, 20570 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (Marshall Creek Copper Co. Annual Report and Maps, 1965) EMR MP CORPFILE (Keystone Mining Co. Ltd.; Marshall Creek Copper Co.) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 81

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/02/26 REVISED BY: PSF FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 116 NATIONAL MINERAL INVENTORY: 103P6 Pb6

NAME(S): BASIN (L.3190), SILVER BOW

STATUS: Showing MINING DIVISION: Skeena REGIONS: British Columbia

NTS MAP: 103P06W UTM ZONE: 09 (NAD 83) BC MAP:

BC MAP:

LATITUDE: 55 23 31 N

LONGITUDE: 129 28 25 W

ELEVATION: 1143 Metres

NORTHING: 6138510

EASTING: 470000

ELEVATION: 1143 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location based on approximate centre of surface trace of vein

(Property File - Marshall Creek Copper Co. Plate 2, 1967).

COMMODITIES: Silver Gold Lead Zinc Copper

Cadmium MINERALS

SIGNIFICANT: Pyrrhotite Galena Sphalerite COMMENTS: As masses, blebs and disseminations. ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 040/75E TREND/PLUNGE:

COMMENTS: Vein strikes for 53 metres and varies in width from 0.20 to 0.76

metres

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Argillite Shale

Siltstone Greywacke Conglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake
METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Situated in Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: VEIN REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1966

SAMPLE TYPE: Chip COMMODITY GRADE

 Silver
 620.0000
 Grams per tonne

 Gold
 6.1700
 Grams per tonne

 Copper
 0.8000
 Per cent

 Lead
 19.7600
 Per cent

 Zinc
 6.0000
 Per cent

COMMENTS: A 0.61 metre chip sample taken across south end of vein.

REFERENCE: Minister of Mines Annual Report 1966, page 50.

**CAPSULE GEOLOGY** 

The Basin showing is located about 10 kilometres due south of Alice Arm near the headwaters of the southwestern tributary of Lime Creek. It should be noted that the Basin claim (Lot 3190), on which the showing occurs, is not correctly located on claim sheet maps and National Topographic System maps. The area underwent limited exploration in 1916 and the mid 1960's for base and precious metals.

The region is underlain by Middle Jurassic Spatsizi Group

The region is underlain by Middle Jurassic Spatsizi Group argillite, shale, siltstone, greywacke and conglomerate. These are intruded by Lower Tertiary granodiorite and diorite of the Coast Plutonic Complex. The sediments have been folded and contact

metamorphosed to biotite hornfels.

The showing consists of a 0.20 to 0.76 metre wide quartz vein

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

that strikes 040 degrees for 53 metres and dips 75 degrees east. The vein follows a shear zone, developed in sediments, near the granodiorite. Mineralization consists of masses and blebs of pyrrhotite which contain smaller blebs and disseminations of galena and sphalerite, all in a quartz gangue. A 0.61 metre chip sample taken across the south end of the vein assayed 6.17 grams per tonne gold, 620 grams per tonne silver, 0.8 per cent copper, 19.76 per cent lead and 6.0 per cent zinc (Minister of Mines Annual Report 1966, page 50).

### **BIBLIOGRAPHY**

EM ASS RPT 20570 EMPR AR 1916-68; 1964-24-30; \*1966-50; 1968-65 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR MAP 8

EMPR OF 1986-2

EMPR PF (Marshall Creek Copper Co. Ltd. Annual Report, 1965; \*Geology

Map by Marshall Creek, 1967)

EMR MP CORPFILE (Marshall Creek Copper Co. Ltd.)

GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 82

DATE CODED: 1985/07/24 DATE REVISED: 1989/02/26 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 116

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 117

NATIONAL MINERAL INVENTORY: 103P6 Pb6

NAME(S): VERONA, SILVER BOW,MCC

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P06W BC MAP: LATITUDE: 55 23 47 N

NORTHING: 6139005

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LONGITUDE: 129 28 27 W

EASTING: 469968

ELEVATION: 966 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location based on approximate centre of the surface trace of the vein system (Property File - Marshall Creek Copper Co., Plate 2).

COMMODITIES: Gold Silver 7inc

Copper

Lead Cadmium

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Sphalerite COMMENTS: Occur as near massive sulphides in quartz vein.
ASSOCIATED: Quartz Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Massive CLASSIFICATION: Hydrothermal nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

DIMENSION: STRIKE/DIP: 020/53W TREND/PLUNGE:

COMMENTS: Vein system strikes 020 degrees for 50 metres, dips 53 degrees west.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Spatsizi Undefined Formation

LITHOLOGY: Augite Plagioclase Porphyritic Andesite

Argillite

HOSTROCK COMMENTS: Veins occur as inclusions in andesitic sill.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Contact Bowser Lake **RELATIONSHIP:** GRADE: Hornfels

COMMENTS: Situated in Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1965 SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver

283.0000 Grams per tonne 5.8000 Gold Grams per tonne 0.3000 Per cent Cadmium 8.1000 Per cent Lead Zinc 10.3000 Per cent

COMMENTS: A 0.61 metre chip sample at north end of vein system. REFERENCE: Marshall Creek Copper Co. 1965 Annual Report, page 6.

CAPSULE GEOLOGY

The Verona occurrence is located about 9.5 kilometres due south of Alice Arm. The area was prospected for base and precious metals in the early 1920's and mid 1960's.

The region is underlain by Middle Jurassic Spatsizi Group argillite, shale, siltstone, greywacke and conglomerate. The sediments are intruded by Lower Tertiary granodiorite and diorite of the Coast Plutonic Complex and have been folded and contact metamorphosed up to biotite hornfels.

The showing comprises a system of quartz-carbonate-baritesulphide veins which follow shear zones that are developed parallel to bedding in north-northeast striking, west dipping argillite. The veins are cut by porphyritic mafic sills that also follow the shear zones and all are displaced by northwest trending faults. The vein system strikes 020 degrees for 50 metres and dips 53 degrees west. Primarily, the veins occur as inclusions of variable width and length

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

in a 1.8 to 4.6 metre wide augite, -plagioclase-olivine porphyritic andesitic sill. On the north end of the sill, a 0.23 to 0.71 metre wide quartz vein, containing near massive pyrite, pyrrhotite, sphalerite and galena, is exposed for 6.1 metres. A 0.61 metre chip sample taken across the north end of the vein system, likely across the vein with near massive sulphides, assayed 5.8 grams per tonne gold, 283 grams per tonne silver, 10.3 per cent zinc, 8.1 per cent lead and 0.3 per cent cadmium (Property File - Marshall Creek Copper Co. Ltd. Annual Report 1965, page 6).

Co. Ltd. Annual Report 1965, page 6).

West of this location, variably sulphidic quartz veins are reported to occur in the hangingwall and footwall of a 0.3 metre wide lamprophyre sill. Mineralization is also reported adjacent to a west striking shear zone, over a width of 0.76 metres, near the south end of this sill.

### **BIBLIOGRAPHY**

EMPR AR 1921-48; 1922-54; 1923-54; 1964-24-30; \*1966-50; 1968-65
EMPR BULL 63
EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243
EMPR MAP 8
EMPR OF 1986-2
EMPR PF (\*Marshall Creek Copper Annual Report 1965; Geological Maps by Marshall Creek, 1967)
EMR MP CORPFILE (Marshall Creek Copper Co. Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 85

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/02/26 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 117

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 118

NATIONAL MINERAL INVENTORY: 103P6 Pb6

NAME(S): SILVER BOW, SILVER BOW, MCC

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P06W BC MAP:

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

LATITUDE: 55 23 42 N LONGITUDE: 129 27 37 W ELEVATION: 1059 Metres

NORTHING: 6138844 EASTING: 470847

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LOCATION ACCURACY: Within 500M

COMMENTS: Location based on approximate centre of Silver Bow claim (Lot 3189)-

(Property File - Marshall Creek Copper Co., Plate 2, 1967).

COMMODITIES: Silver

SIGNIFICANT: Unknown ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork Vein CLASSIFICATION: Hydrothermal TYPE: 105 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Middle Jurassic

**FORMATION** Spatsizi Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges Bowser Lake

TERRANE: Stikine
METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Situated in Bowser Lake foredeep clastic wedge on Stikinia Terrane.

**CAPSULE GEOLOGY** 

The Silver Bow occurrence is located approximately 11.0 kilometres south of Alice Arm on a tributary of Lime Creek. It should be noted that the Silver Bow claim (Lot 3189) is not accurately located on claim sheet maps and National Topographic System maps.

The region is underlain by Coast Plutonic rocks intruding Middle Jurassic Spatsizi Group argillite, shale, siltstone, greywacke and conglomerate. These sediments have been folded and contact

metamorphosed to biotite hornfels.

The showing consists of quartz stringers developed in folded schistose argillite. A stringer of high grade material containing silver has been reported from this locality (Minister of Mines Annual Report 1916, page 68).

**BIBLIOGRAPHY** 

EM ASS RPT 20570 EMPR AR \*1916-68; 1964-24-30; 1966-49,50; 1968-65

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

EMPR PF (\*Marshall Creek Copper, Geology Map 1967) GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 77

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: PSF DATE REVISED: 1989/02/26 FIELD CHECK: N

MINFILE NUMBER: 103P 118

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 119

NATIONAL MINERAL INVENTORY: 103P6 Au1

NAME(S): LAST CHANCE, TMS

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P06W BC MAP:

MINING DIVISION: Skeena

LATITUDE: 55 24 27 N

NORTHING: 6140224 EASTING: 472597

UTM ZONE: 09 (NAD 83)

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LONGITUDE: 129 25 58 W ELEVATION: 860 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on tunnel (Minister of Mines Annual Report 1916,

page 68).

COMMODITIES: Gold Silver I ead

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au COMMENTS: Vein 1.2 to 1.5 metres wide, trends northeast.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Spatsizi Middle Jurassic Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake METAMORPHIC TYPE: Contact **RELATIONSHIP:** GRADE: Hornfels COMMENTS: Situated in Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: TUNNEL REPORT ON: N

CATEGORY: YEAR: 1916

Assav/analysis SAMPLE TYPE: Grab **GRADE** 

COMMODITY Silver 480.0000 Grams per tonne 48.0000 Gold Grams per tonne I ead 20.0000 Per cent

COMMENTS: Selected grab sample from 6.1 metre tunnel. REFERENCE: Minister of Mines Annual Report 1916, page 68.

CAPSULE GEOLOGY

The Last Chance showing is located approximately 9.0 kilometres southwest of Alice Arm on a tributary of the southwest branch of Lime Creek.

The region is underlain by Coast Plutonic rocks intruding Middle Jurassic Spatsizi Group argillite, shale, siltstone, greywacke and These sediments have been folded and contact metaconglomerate. morphosed to biotite hornfels.

The showing consists of a northeast trending 1.2 to 1.5 metre wide quartz vein developed in sheared argillite. The vein is mineralized with galena, sphalerite and pyrite. A selected grab sample from a 6.1 metre long tunnel assayed 48 grams per tonne gold, 480 grams per tonne silver and 20 per cent lead (Minister of Mines Annual Report 1916, page 68).

**BIBLIOGRAPHY** 

EMPR AR \*1916-68; 1964-24-30

EMPR BULL 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 175, p. 69

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/02/27 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 119

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 120

NATIONAL MINERAL INVENTORY: 103P6 Mo1

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NORTHING: 6141827

EASTING: 473451

REPORT: RGEN0100

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NAME(S): KITSAULT, CLARY CREEK, B.C. MOLYBDENUM, ALICE, LIME CREEK, LYNX,

CARIBOO

STATUS: Past Producer REGIONS: British Columbia Open Pit MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP:

UTM ZONE: 09 (NAD 83)

55 25 19 N LONGITUDE: 129 25 10 W ELEVATION: 542 Metre: LOCATION ACCURACY: Within 500M Metres

LATITUDE:

COMMENTS: Open pit, approximately 6 kilometres southeast of the head of Alice

Arm of Observatory Inlet (Assessment Report 10443).

COMMODITIES: Molybdenum Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Molybdenite Sphalerite Fluorite Pyrite Scheelite Galena Chalcopyrite Tétrahedrite Pyrrhotite Neyite ASSOCIATED: Quartz K-Feldspar Sericite Clay Gypsúm

ALTERATION: K-Feldspar ALTERATION TYPE: Potassic Clay Sericite Sericitic Argillic

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stockwork Disseminated CLASSIFICATION: Porphyry Hydrothermal **Epigenetic** 

Porphyry Mo (Low F- type) 105 Polymetallic veins Ag-Pb-Zn±Au

TYPE: L05 SHAPE: Regular

MODIFIER: Faulted Fractured DIMENSION: 700 x 560 x 180 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Mineralization is in a 700 by 560 metre annular zone, 30 to 180 metres

wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Jurassic Bowser Lake Undefined Formation

Eocene Alice Arm Intrusion

ISOTOPIC AGE: 52.6 Ma

DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Porphyritic Quartz Monzonite

Granodiorite Quartz Diorite Alaskite Siltstone Greywacke

HOSTROCK COMMENTS: Isotopic age from Open File 1986-2.

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake METAMORPHIC TYPE: Contact RELATIONSHIP COMMENTS: Stock intrudes Bowser Lake foredeep clastic wedge. RELATIONSHIP: GRADE: Hornfels

INVENTORY

ORE ZONE: KITSAULT REPORT ON: Y

> CATEGORY: Combined YFAR: 1985

QUANTITY: 104316500 Tonnes COMMODITY

Molybdenum 0.1100 Per cent

COMMENTS: Proven, probable reserves taking into account 1981-82 production.

Grade given was 0.186% MoS2; conversion to Mo using a factor of 1.6681.

REFERENCE: Amax Inc., 10-K Report, December 31, 1985.

CAPSULE GEOLOGY

The Kitsault mine is located approximately 8.0 kilometres south of Alice Arm on the southeast fork of Lime Creek. The mine was a major producer of molybdenum between 1967 and 1972 and considerable reserves of molybdenum remained in place when mining operations

> MINFILE NUMBER: 103P 120

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

ceased. Stockpiled ore was processed in 1981-82.

The deposit is developed in the Eocene Lime Creek stock of the Alice Arm Intrusion. The stock consists of an ellipsoidal, north trending 1000 by 600 metre body of quartz monzonite to quartz diorite, with a 500 by 300 metre eastern appendage of quartz diorite. The stock intrudes Middle-Upper Jurassic Bowser Lake Group siltstones and greywackes, which are contact metamorphosed to biotite hornfels, 500 to 1000 metres outward from the stock. These rocks are all intruded by 1 to 10-metre wide lamprophyre dykes

The main body is differentiated into a core of porphyritic quartz monzonite that grades outward through granodiorite to quartz diorite on the east and west sides of the stock. It is cut by dykes and irregular masses of fine-grained alaskite.

Potassic alteration, consisting of secondary potassium feldspar, rims mineralized quartz veinlets and replaces plagioclase in the rock Plagioclase has also been subjected to sericitic and argillic alteration, especially near northeast striking faults and

Molybdenite mineralization is contained in a 700 metre (east-west) by 560 metre (north-south) ellipsoidal annular zone in the north half of the main body of the stock. It varies in width from 30 to 180 metres and the zone roughly follows the north, east and west margins of the stock. The zone is developed around a 300 by 350 metre core of largely barren quartz monzonite.

Mineralization consists of molybdenite along fractures and along margins of closely-spaced, randomly oriented, 0.3 to 0.6-centimetre wide quartz veinlets that form a stockwork. They are cut by later quartz veins, up to 1 metre wide, containing pyrite, galena, sphalerite, neyite, scheelite, chalcopyrite, tetrahedrite, pyrrhotite, fluorite and gypsum. Disseminated molybdenite occurs only in the alaskite. Higher grade mineralization is found in zones of more intense fracturing and faulting, especially in the northwest contact area.

Between 1967 and 1972, a total of 9,329,669 tonnes grading 0.112 per cent molybdenum were mined. During 1981 and 1982, 4,069,548tonnes of stockpiled ore grading 0.076 per cent molybdenum were milled.

Combined (proven, probable) reserves are 104,316,500 tonnes grading 0.11 per cent molybdenum; grade given was 0.186 per cent MoS2; conversion to Mo using a factor of 1.6681 (Amax Inc., 10-K Report, December 31, 1985).

### **BIBLIOGRAPHY**

```
EMPR AR 1916-66; 1921-47,48; 1929-82; 1930-86; 1959-10; 1960-10; 1961-10; 1963-12; *1964-24-39; 1965-62; 1966-49; 1967-47,48;
      1968-A54,63
EMPR ASS RPT 7034, 7170, 8797, *10443, 11239
EMPR BULL 63; *64, pp. 93-96
EMPR ENG INSP (Mine Plans: #61413-61418, 1972)
EMPR EXPL 1978-E238
EMPR FIELDWORK 1985, pp. 219-224; 1988, 233-240; 1990, pp. 235-243
EMPR GEM 1969-69; 1970-94,95; 1971-121,122; 1972-504-506; 1973-489;
1974-326
EMPR MAP 8; 65, 1989
EMPR MINING 1981-1985
EMPR OF 1986-2; 1991-15 pp. 37-39; 1992-1; 1992-3; 1998-8-F, pp. 1-60 EMPR PF (*Woodcock, J.R., Carter, N.C. (1976 ) Paper 46; Various
    Press Clippings; Monthly Reports - District Geologist, Jul. 1974)
EMR MIN BULL MR 223 B.C. 305
EMR MP CORPFILE 1976, pp. 48,63-80,64-50
EMR MP RESFILE (Lime Creek)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 71
GSC SUM RPT 1922 Part A, p. 32
GSC SUM RPI 1922 Fait A, p. 32

CIM Spec. Vol. *15, pp. 468-475

GCNL #69, 1970; #67, 1976; #1, 1979; #88, 1980; #88, 1981; #239, 1981

N MINER Mar. 6,*May 8, 1980; Mar. 6, 1995

W MINER Feb. 1979, pp. 14-19; Mar. 1980, pp. 13-16
WWW http://www.infomine.com/index/properties/KITSAULT.html
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DATE CODED: 1985/07/24 DATE REVISED: 1989/02/02 FIELD CHECK: N CODED BY: GSB REVISED BY: PSF

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 121

NATIONAL MINERAL INVENTORY: 103P6 Cu1

NAME(S): **BEVERLEY** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

TREND/PLUNGE:

NTS MAP: 103P06W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

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LATITUDE: 55 27 53 N LONGITUDE: 129 27 07 W ELEVATION: 229 Metres

NORTHING: 6146600 EASTING: 471425

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of open cut (Minister of Mines Annual Report 1923,

page 54).

COMMODITIES: Copper 7inc

SIGNIFICANT: Chalcopyrite Pyrite Sphalerite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

107 Silica veins

DIMENSION: STRIKE/DIP: 115/50S COMMENTS: Bull quartz veins strike 115 degrees, dip 30 to 50 degrees south.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Spatsizi **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Undefined Formation

LITHOLOGY: Sandstone Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake GRADE: Greenschist METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

COMMENTS: Within the Bowser Lake foredeep clastic wedge on Stikinia Terrane.

CAPSULE GEOLOGY

The Beverley occurrence is located approximately 3.0 kilometres southeast of Alice Arm.

The area is underlain by Middle Jurassic Spatsizi Group shale, siltstone, argillite, sandstone and conglomerate. These rocks have been variably folded and metamorphosed to greenschist facies.

The showing consists of a shear zone, which cuts sandstone and

argillite, that contains quartz veinlets mineralized with chalco-

pyrite, pyrite and sphalerite.

pyrite, pyrite and sphalerite.

In addition, a number of bull quartz veins crosscut a dioritic dyke reported to occur in this vicinity on the same claim group. These veins strike 115 degrees and dip 30 to 50 degrees south and one vein, exposed in a tunnel, is 0.30 to 0.46 metres wide. The veins lack sulphide mineralization and are referred to as being barren, however, free gold was reported to have come from them (Minister of Mines Annual Report 1923, p. 54).

**BIBLIOGRAPHY** 

EMPR AR \*1923-54; 1931-40; 1964-25

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 54

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/07 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 122

NAME(S): **UTOPIA**, LYON

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P05E BC MAP:

LATITUDE: 55 29 09 N

LONGITUDE: 129 31 01 W ELEVATION: 0457 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on lower adit (Minister of Mines Annual Report

1924, page 53).

COMMODITIES: Silver

Gold

7inc

Lead

NATIONAL MINERAL INVENTORY: 103P5 Ag1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6148978

EASTING: 467333

**MINERALS** 

SIGNIFICANT: Pyrite

ASSOCIATED: Quartz

Galena

Sphalerite

Tetrahedrite

**DEPOSIT** 

CHARACTER: Vein

MINERALIZATION AGE: Unknown

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: 105

DIMENSION:

COMMENTS: Attitude of 2.4 metre wide aplite dyke hosting quartz veinlets.

TREND/PLUNGE:

PAGE:

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HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Middle Jurassic

GROUP Spatsizi

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Argillite

Aplite Dike

HOSTROCK COMMENTS: Mineralized quartz veinlets hosted in an aplite dyke that intrudes

argillite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

**Bowser Lake** 

PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Greenschist

INVENTORY

ORE ZONE: DUMP

REPORT ON: N

CATEGORY: SAMPLE TYPE: Grab

Assay/analysis

COMMENTS: Situated in Bowser Lake sedimentary overlap on Stikinia Terrane.

YEAR: 1929

COMMODITY Silver

GRADE 2074.0000

Grams per tonne

Gold

2.1000

Grams per tonne

STRIKE/DIP: 148/45S

COMMENTS: Selected grab sample from adit dump. REFERENCE: Minister of Mines Annual Report 1929, page 84.

CAPSULE GEOLOGY

The Utopia occurrence is located on Falls Creek 2.0 kilometres west-northwest of Alice  $\mbox{\sc Arm}\,.$ 

The area is underlain by Middle Jurassic Spatsizi Group sediments. The sediments dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest trending folds.

The showing consists of a 2.4 metre wide aplite dyke, striking 148 degrees and dipping 45 degrees southwest, that intrudes argillite. The dyke contains quartz veinlets mineralized with

pyrite, galena, sphalerite and tetrahedrite. A selected grab sample from an adit dump assayed 2.1 grams per tonne gold and 2074 grams per tonne silver (Minister of Mines Annual Report 1929, p. 84).

**BIBLIOGRAPHY** 

EMPR AR 1922-56; \*1924-53; \*1929-84

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 84 Chevron File

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/22 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 122

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 123

NATIONAL MINERAL INVENTORY: 103P5 Pb1

NAME(S): BILLY BARTON

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P06W 103P05E 103P11W 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

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LATITUDE: 55 29 56 N

NORTHING: 6150423 EASTING: 468414

LONGITUDE: 129 30 00 W ELEVATION: 488 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Based on location of claim group (Minister of Mines Annual Report

1929, page 84).

COMMODITIES: Zinc I ead Silver Gold

**MINERALS** 

SIGNIFICANT: Galena

Sphalerite Pyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Tabular MODIFIER: Folded

COMMENTS: Quartz veins follow bedding and jointing of argillite.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Spatsizi **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional Bowser Lake RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in Bowser Lake sedimentary overlap on Stikinia Terrane.

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: YEAR: 1929 Assay/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 48.0000 Grams per tonne I ead 1.0000 Per cent Per cent 3.0000 7inc

COMMENTS: Selected grab sample of sorted ore from adit dump, trace gold.

REFERENCE: Minister of Mines Annual Report 1929, page 84.

**CAPSULE GEOLOGY** 

The Billy Barton showing is located on the east slope of Esperanza Mountain about  $1.75~{\rm kilometres}$  north-northwest of Alice Arm.

The area is underlain by Middle Jurassic Spatsizi Group sediments. The sediments dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest trending folds.

The showing consists of a series of irregular lenticular quartz veins, 0.025 to 0.30 metres wide, which are exposed in a tunnel 27 metres long. The veins, hosted in argillite, parallel bedding and jointing. The veins contain sparse galena, sphalerite and pyrite. A selected grab sample from an adit dump containing sorted ore assayed trace gold, 48 grams per tonne silver, 1.0 per cent lead and 3.0 per cent zinc (Minister of Mines Annual Report 1929, p. 84).

BIBLIOGRAPHY

EMPR AR \*1929-84

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 54

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/22 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 123

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 124

NATIONAL MINERAL INVENTORY: 103P6 Ag5

NAME(S): CARIBOU FRACTION

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP: LATITUDE: 55 28 36 N

UTM ZONE: 09 (NAD 83) NORTHING: 6147947

PAGE:

REPORT: RGEN0100

1139

LONGITUDE: 129 29 33 W Metres **ELEVATION:** 

EASTING: 468870

LOCATION ACCURACY: Within 500M

COMMENTS: Based on location of claims (Minister of Mines Annual Report 1916,

page 64).

COMMODITIES: Silver

**MINERALS** 

SIGNIFICANT: Unknown ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au
COMMENTS: Quartz vein up to 0.30 metre wide, dips 60 degrees southeast.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE GROUP Spatsizi IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges Bowser Lake

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in Bowser Lake sedimentary overlap on Stikinia Terrane.

CAPSULE GEOLOGY

The Caribou Fraction showing is located on the shore of the Alice Arm of Observatory Inlet, 600 metres southwest of Alice Arm.
The area is underlain by Middle Jurassic Spatsizi Group

sediments. They dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest trending

folds.

The showing consists of a quartz vein, up to 0.30 metres wide, which dips 60 degrees southeast and is hosted in argillite. It appears barren of mineralization, however, it has been reported to contain very small shoots of silver ore (Geological Survey of Canada Memoir 175, p. 57).

**BIBLIOGRAPHY** 

EMPR AR \*1916-64 EMPR ASS RPT 8689

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2

GSC MAP 207A; 315A; 1385A

GSC MEM \*175, p. 57

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/22 CODED BY: FIELD CHECK: N REVISED BY: PSF FIFLD CHECK: N

MINFILE NUMBER: 103P 124

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 103P 125

NAME(S): WOLF, ARCADIA

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 103P06W BC MAP:

LATITUDE: 55 29 09 N

LONGITUDE: 129 29 28 W ELEVATION: 34 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Based on location of mine workings (Geological Survey of Canada

Summary Report 1928, page 31A).

COMMODITIES: Silver Gold 7inc Lead

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Galena Tetrahedrite

Ruby Silver Silver

COMMENTS: As disseminations, lenses and bands in veins.
ASSOCIATED: Quartz Ankerite Calcite
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant Breccia

CLASSIFICATION: Hydrothermal

SIFICATION: Hydrothermal Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au
DIMENSION: 0067 x 0021 x 0001 Metres
COMMENTS: Central voin atribos 240 x 400 STRIKE/DIP: 018/20W TREND/PLUNGE:

COMMENTS: Central vein strikes 018 to 160 degrees.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Spatsizi Undefined Formation

LITHOLOGY: Argillite

Argillaceous Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional Bowser Lake RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in Bowser Lake sedimentary overlap on Stikinia Terrane.

**CAPSULE GEOLOGY** 

The Wolf mine is located 400 metres north-northwest of the centre of Alice Arm on Lot 3821. Three small shipments of high grade ore were made from this property in 1925, 1927 and 1953.

The area is underlain by Middle Jurassic Spatsizi Group sediments. The sediments dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest

trending folds.

The Wolf deposit consists of three quartz veins, up to a metre wide but commonly about 0.3 metres wide, in argillite and argillation of the codiments striking north and dipping 20 wide put commonly about 0.3 metres wide, in argillite and argillaceous quartzites. The sediments, striking north and dipping 20 degrees west, are cut by numerous steeply dipping lamprophyre and diorite dykes which trend 030 to 040 degrees. The veins follow the bedding along which shearing and fracturing has taken place, as indicated by gouged or schistose argillite along the margins of the veins and by the incorporation of brecciated argillite fragments in the wider portions of the veins. the wider portions of the veins. The Central (main) vein, 0.05 to 0.6 metres wide, strikes north at 018 to 160 degrees and dips 20 degrees west. This vein has been traced along strike underground for 67 metres and down dip for 21 metres. Two other veins have been traced along surface for at least 30 metres. Mineralization consists of disseminations, lenses and bands of pyrite, chalcopyrite, sphalerite, galena, tetrahedrite, ruby silver and native silver. The erite, galena, tetrahedrite, ruby silver and native silver. The lenses and bands are up to 0.36 metres thick in a gangue of white quartz, minor ankerite, calcite and barite. In the Central vein these sulphide bands are usually found along the footwall of the

A total of 45 tonnes of hand sorted ore was shipped with an average grade of 5.5 grams per tonne gold, 3419.9 grams per tonne silver, 0.24 per cent copper, 1.74 per cent lead and 2.19 per cent

MINFILE NUMBER: 103P 125

PAGE:

NATIONAL MINERAL INVENTORY: 103P6 Ag4

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6148966

EASTING: 468965

REPORT: RGEN0100

Copper

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1916-64; 1925-74; 1926-79; \*1927-70; \*1928-79,80; 1929-84,85; 1930-93; 1938-B26; 1953-90; 1965-63

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; EMPR MAP 8
EMPR OF 1986-2
EMR MP CORPFILE (Sileurian Chieftain Mining Co. Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 86
GSC SUM RPT \*1928, pp. 31A,32A

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/22 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 125

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 126

NATIONAL MINERAL INVENTORY: 103P6 Ag3

PAGE:

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1142

NAME(S): **ESPERANZA**, BLACK BEAR, ROUNDY, ALDERBARAB, ALDEBARAN

STATUS: Past Producer Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P06W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 29 37 N LONGITUDE: 129 29 28 W NORTHING: 6149832 EASTING: 468971

ELEVATION: 160 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of adit Number 4 (Assessment Report

10154, Geology Map).

COMMODITIES: Silver Gold Lead Copper Zinc

**MINERALS** 

SIGNIFICANT: Sphalerite Galena Ruby Silver Pyrite Pyrrhotite

Chalcopyrite Arsenopyrite Freibergite Argentite Silver Scheelité

COMMENTS: As disseminations and massive bands in vein; scheelite found in

erratic patches.
ASSOCIATED: Quartz (

Calcite Siderite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 105 SHAPE: Tabular Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Folded

DIMENSION: 168 x 98 x 1 Metres STRIKE/DIP:

COMMENTS: Main vein anticlinal in form. Anticline plunges 10 to 15 degrees

south.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Spatsizi Undefined Formation

LITHOLOGY: Argillaceous Siltstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: In Bowser Lake sedimentary overlap on Stikinia Terrane.

CAPSULE GEOLOGY

The Esperanza mine is located 1.25 kilometres north of Alice Arm. The mine produced high grade silver ore with associated gold, copper and lead between 1911 and 1948.

The area is underlain by Middle Jurassic Spatsizi Group sediments. The sediments dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest trending folds.

The deposit comprises numerous quartz veins hosted in thinly bedded argillaceous siltstones. The sediments strike northwest and dip 20 to 50 degrees to the west and mafic dykes cut both the veins and the sediments.

The main vein, and the shear zone enclosing it, appears to be folded into an anticline that plunges 10 to 15 degrees south (exposed in the number 3 and 4 adits). This results in the vein being arcuatin plan view, with the east limb striking 040 degrees and dipping 35This results in the vein being arcuate to 40 degrees southeast and the west limb striking 140 degrees and dipping 35 degrees southwest. The enclosing sediments are not similarly folded, indicating that the vein and shear zone were initially formed in an anticlinal manner. The vein, generally 0.076 and 0.91 metres wide, locally attains widths up to 1.8 metres. has been traced downdip from the number 1 adit southward to the number 4 adit for a distance of 168 metres. An east-west strike length of 97.5 metres is exposed in the number 4 adit, which follows the vein in an arcuate manner. The vein contains brecciated siltstone fragments and bands of siltstone up to 0.3 metres thick in places.

TREND/PLUNGE: 180/10

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Mineralization consists of sphalerite, galena, ruby silver, pyrite, pyrrhotite, chalcopyrite, arsenopyrite, freibergite, argentite and native silver in a gangue of quartz, calcite and siderite. These minerals commonly occur as disseminations throughout the vein and locally form bands of massive sulphides along the hangingwall of the vein. Scheelite is found in erratic patches.

Various other, more irregular, bedding parallel veins of similar

mineralogy occur in the vicinity.

The Esperanza mine produced high grade hand sorted silver ore sporadically between 1911 and 1948. In total, 4662 tonnes of ore with an average grade of 1.77 grams per tonne gold, 983.9 grams per tonne silver, 0.028 per cent copper and 0.14 per cent lead were

#### **BIBLIOGRAPHY**

```
EMPR AR 1904-101; 1905-81; 1911-65,70,71; 1916-60-62; 1917-447; 1918-56; 1919-50; 1920-47; 1921-48; 1922-55,56; 1923-55,56; 1924-53; 1925-74; 1926-79; 1927-78; *1928-80-84; *1929-83; 1930-93; 1931-37,38; 1933-47,48; 1934-B14; 1935-B29; 1936-B59; 1937-B42; 1941-41; 1945-62; *1947-92-94; 1948-76; 1965-63; 1968-59 EMPR ASS RPT 5794, 6219, *9045, *10154
EMPR BC METAL MM00731, MM00811
EMPR BULL 10, p. 57; 63
EMPR EXPL 1976-166
EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 223-240; 1990, pp. 235-243 EMPR GEM *1969-64-67
EMPR INDEX 3-195
EMPR MAP 8
EMPR OF 1986-2
EMPR PF (Various Letters, Reports by Resident Engineer, 1925;
  *Mathews, W.H. (1942) Report; *Brown, R.A. (1981) Drill Hole
     Sections, Various Maps of underground workings, Field notes)
EMR MP CORPFILE (Esperanza Mines Ltd.; Silurian Chieftain Mining Co.
    Ltd.; Lori Explorations Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 32, pp. 92,93; 175, pp. 62-65
GSC SUM RPT 1922, pp. 31A,32A,46A,47A; *1928, pp. 32A-37A
EMPR OF 1998-10
```

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/23 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

PAGE:

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 127

NAME(S): **ACADIA** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P06W 103P05E BC MAP:

LATITUDE: 55 29 37 N

LONGITUDE: 129 29 56 W ELEVATION: 427 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location determined from description in Minister of Mines Annual

Report 1929, page 84. Location somewhat uncertain.

COMMODITIES: Zinc

Nickel

Silver

Gold

Chalcopyrite

Copper

NATIONAL MINERAL INVENTORY: 103P6 Ag3

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6149835

EASTING: 468480

Lead

PAGE:

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**MINERALS** 

SIGNIFICANT: Pyrrhotite

Sphalerite Galena

COMMENTS: Massive to banded to disseminated in quartz veins.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

Polymetallic veins Ag-Pb-Zn±Au TYPE: 105 DIMENSION:

STRIKE/DIP: 120/50N COMMENTS: Attitude of quartz vein. Vein dips 50 degrees northeast.

TREND/PLUNGE:

HOST ROCK

Middle Jurassic

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

**GROUP** 

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

METAMORPHIC TYPE: Regional

TERRANE: Stikine Bowser Lake

**RELATIONSHIP:** 

GRADE: Greenschist

PHYSIOGRAPHIC AREA: Boundary Ranges

COMMENTS: Situated in Bowser Lake sedimentary overlap on Stikinia Terrane.

INVENTORY

ORE ZONE: DUMP

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Grab Assay/analysis

COMMODITY

**GRADE** 61.7000

Silver

Grams per tonne Per cent

YFAR: 1929

3.9000 7inc COMMENTS: Selected grab samples from dump of trench, trace gold, copper,

lead and nickel.

REFERENCE: Minister of Mines Annual Report 1929, page 84.

CAPSULE GEOLOGY

The Acadia showing is located on the eastern slope of Esperanza Mountain in the vicinity of the Esperanza Mine (103P 126), jūst

northwest of Alice Arm.

The area is underlain by Middle Jurassic Spatsizi Group sediments. The sediments dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest

trending folds.

The showing consists of a 1.5 metre wide quartz vein, hosted in argillite, that strikes 120 degrees and dips 50 degrees northeast. Mineralization occurs as massive pyrrhotite, containing chalcopyrite and blebs of galena, throughout the vein and as a 0.15 metre thick band of sphalerite, pyrite and galena along the hangingwall of the vein. A selected grab sample from the dump of a trench assayed trace gold, 61.7 grams per tonne silver, trace copper, trace lead, 3.9 per cent zinc and trace nickel (Minister of Mines Annual Report 1929, page 84).

**BIBLIOGRAPHY** 

EMPR AR \*1929-84

MINFILE NUMBER: 103P 127 RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR FIELDWORK 1903, pp. 219-224, 1905, EMPR MAP 8
EMPR OF 1986-2
EMR MP CORPFILE (Esperanza Mines Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 52

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/23 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 127

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 128

NATIONAL MINERAL INVENTORY: 103P6,5,11,12 Ag2

MINING DIVISION: Skeena

NAME(S): LONE MAID

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P11W 103P06W

UTM ZONE: 09 (NAD 83)

PAGE:

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1146

BC MAP: LATITUDE: 55 30 01 N

NORTHING: 6150574 EASTING: 468871

LONGITUDE: 129 29 34 W ELEVATION: 320 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on adit on north end of Lone Maid claim-Lot 3191

(Minister of Mines Annual Report 1916, page 62).

COMMODITIES: Copper

7inc I ead

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Sphalerite Galena

COMMENTS: Occur sparsely. ASSOCIATED: Quartz MINERALIZATION AGE: Unknown Calcite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Epigenetic Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: Zones of veins strikes northeast and dips 45 degrees northwest.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE **FORMATION** Middle Jurassic Spatsizi Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated in Bowser Lake sedimentary overlap on Stikinia Terrane.

**CAPSULE GEOLOGY** 

The Lone Maid showing is located 2.0 kilometres north-northwest of Alice Arm, 750 metres north of the Esperanza Mine (103P 126). The property (Lot 3191) was explored for the northward extension of the Esperanza vein during the early 1920's.

The area is underlain by Middle Jurassic Spatsizi Group

sediments. The sediments dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest trending folds.

The showing comprises a zone, 0.30 to 1.52 metres in diameter, of quartz and calcite veining that strikes northeast and dips about 45 degrees northwest. The veins, up to 0.46 metres wide, crosscut southwest dipping (about 45 degrees) argillite. The zone has been traced, by tunnel, for 23 metres. Mineralization in the quartz and calcite veins consists of sparse pyrite, pyrrhotite, chalcopyrite, sphalerite and galena.

**BIBLIOGRAPHY** 

EMPR AR 1916-62; 1922-56; 1923-56

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 70 GSC SUM RPT \*1928, p. 37A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/03/23 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 128

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 129 NATIONAL MINERAL INVENTORY: 103P13 Ag25

NAME(S): MONTANA (L.4974), MARMOT METALS, LOW TIDE

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 51 08 N LONGITUDE: 129 54 41 W ELEVATION: 975 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of the portal of the western adit (Assessment Report 11943,

Map 1).

COMMODITIES: Silver 7inc I ead Gold Copper

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite Chalcopyrite Galena Tetrahedrite

COMMENTS: Massive to disseminated.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

Massive Disseminated

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym hermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 040/25N TREND/PLUNGE:

DIMENSION: 0300 x 0002 Metres COMMENTS: Montana vein, up to 1.8 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER FORMATION

Eocene Coast Plutonic Complex

ISOTOPIC AGE: 47-51 +/- 2-3 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite/hornblende

> LITHOLOGY: Granodiorite Andesitic Dike

HOSTROCK COMMENTS: Hyder Pluton. Isotopic age is from Alldrick, D., Open File 1986-2.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Plutonic Rocks COMMENTS: At the eastern margin of the Coast Plutonic Complex.

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1985 Assay/analysis

**GRADE** 

COMMODITY Silver 9145.1000 Grams per tonne Gold 2.4300 Grams per tonne 0.7850 Per cent Copper

Lead 11.5000 Per cent 7inc 24.9000 Per cent

COMMENTS: Grab sample of unnamed massive galena-sphalerite vein. REFERENCE: Assessment Report 11943, page 15.

**CAPSULE GEOLOGY** 

The Montana showing is located on the north side of the Marmot River, 9 kilometres east of the Portland Canal and  $11\ \mathrm{kilometres}$ southeast of Stewart.

The area is underlain by volcanics and sediments of the Middle Jurassic Salmon River Formation and the Lower Jurassic Unuk River Formation of the Hazelton Group intruded by granodiorite of the Eocene Hyder Pluton.

The showing is comprised of at least two well mineralized structures in granodiorite, the Montana vein and a second unnamed vein 350 metres northwest of the Montana vein. The Montana vein strikes 040 degrees for at least 300 metres, dips 25 degrees northwest and varies up to 1.8 metres wide. Mineralization consists of massive lenses and  $\bar{\text{d}}$  isseminations of sphalerite with lesser pyrite, chalcopyrite, galena and tetrahedrite in a gangue of quartz. PAGE:

NORTHING: 6190008

EASTING: 442943

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

A grab sample assayed 0.684 grams per tonne gold, 225.8 grams per tonne silver, 0.585 per cent copper, 4.99 per cent zinc and 0.90 per cent lead (Assessment Report 11943, page 15).

The second unnamed structure consists of a 0.10 to 0.30 metre wide discontinuous lenticular vein of massive galena and sphalerite that initially extends for 7.6 metres along the eastern contact of a vertically dipping andesitic dyke striking 050 degrees. The vein continues for another 3.6 metres 7.6 metres further to the northeast. A grab sample assayed 2.43 grams per tonne gold, 9145.1 grams per tonne silver, 0.785 per cent copper, 11.50 per cent lead and 24.90 per cent zinc (Assessment Report 11943, p. 15).

Past production from these veins totals 24 tonnes with an average grade of 7.75 grams per tonne gold, 6075.4 grams per tonne silver, 0.25 per cent copper, 14.14 per cent lead and 19.76 per cent zinc. At least 19 tonnes of this production came from the Montana

### **BIBLIOGRAPHY**

```
EMPR AR 1913-88; 1914-154; 1915-71; 1919-62,63; 1920-6=53; 1921-61;
   1922-67; 1923-70; *1925-81,82; 1926-88; 1927-82,394; 1928-93;
   1930-53
EMPR ASS RPT 8538, *11943
EMPR BC METAL MM00771
EMPR BULL 58; 63
EMPR EXPL 1983-510
EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 81-102; 1988, pp. 233-240; 1990, pp. 235-243
EMPR INDEX 3-206
EMPR MAP 8
EMPR PF (Mondana Ventures Inc. Prospectus Oct. 1989)
EMR MP CORPFILE (Marmot Metals Mining Co. Ltd.)
GSC MAP 215A; 307A; 315A; 1385A
GSC MEM *159, pp. 66,67; *175, pp. 129,130
GSC OF 2996
```

DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N DATE REVISED: 1989/05/13 FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 130

NATIONAL MINERAL INVENTORY: 103P6,5,11,12 Ag2

MINING DIVISION: Skeena

NORTHING: 6150824

EASTING: 468522

PAGE:

REPORT: RGEN0100

1149

NAME(S): ALICE, ANNA MACK

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 103P11W 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 30 09 N

LONGITUDE: 129 29 54 W ELEVATION: 527 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on portal of Number 2 adit (Geology, Exploration and Mining in British Columbia 1969, page 67).

COMMODITIES: Silver Gold I ead 7inc Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Tetrahedrite Arsenopyrite

Ruby Silver Argentite

COMMENTS: Erratically distributed in quartz vein. Massive in places.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal thermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au

TYPE: I05 Polymet DIMENSION: 0213 x 0002 STRIKE/DIP: 140/80S Metres TREND/PLUNGE:

COMMENTS: Vein strikes 140 degrees for at least 213 metres, dips 50 to 80

degrees southwest and varies from 0.05 to 1.8 metres wide.

DOMINANT HOSTROCK: Sedimentary

TRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Undefined Formation Spatsizi

LITHOLOGY: Argillite

Argillaceous Siltstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional Bowser Lake **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: In the Bowser Lake sedimentary overlap on Stikinia Terrane.

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assav/analysis YEAR: 1934

SAMPLE TYPE: Bulk Sample <u>GRA</u>DE **COMMODITY** 

Silver 771.0000 Grams per tonne 1.3700 Gold Grams per tonne 0.5000 Lead Per cent

COMMENTS: Composite sample taken along 17 metre strike length of vein.

REFERENCE: Minister of Mines Annual Report 1934, page B14.

CAPSULE GEOLOGY

The Alice occurrence is located 1.75 kilometres north-northwest of Alice Arm. The area was explored extensively during the 1920's and 1930's for the northward extension of the Esperanza vein (103P)126).

The area is underlain by Middle Jurassic Spatsizi Group sediments. The sediments dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest

trending folds.

The occurrence consists of a quartz-breccia vein, 0.05 to 1.8 metres wide, which strikes 140 degrees and dips 50 to 80 degrees southwest. The vein, traced for 213 metres along strike, follows a bedding plane shear in sediments. These sediments, consisting of thin-bedded black argillite and argillaceous siltstone, strike north to northwest and dip west. Numerous lamprophyre and andesitic sills and northeast trending steeply dipping dykes cut the vein and sediments. The vein is thought to be the northward extension of the Esperanza vein (103P 126) about 1.2 kilometres to the southeast. RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

Mineralization consists of erratically distributed pyrite, galena, sphalerite, tetrahedrite, arsenopyrite, ruby silver and argentite in quartz gangue. In the number 2 adit, 0.3 metre wide banded zones of near massive pyrite, galena, sphalerite and ruby silver are exposed in the margins of the vein. A composite sample of the vein taken along a strike length of 17 metres on the surface, assayed 1.37 grams per tonne gold, 771 grams per tonne silver, 0.5 per cent lead and trace zinc (Minister of Mines Annual Report 1934, page B14).

This vein is reported to extend northwest onto the Anna Mack claim, where a 0.15 metre wide sparsely mineralized quartz vein in argillite is exposed in a trench.

### **BIBLIOGRAPHY**

EMPR AR 1916-62,63; 1922-56; 1923-56; 1925-74; 1929-84; 1932-56; \*1934-B14; 1935-B29; \*1947-94 EMPR BULL 63 EMPR FUELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM \*1969-64-67 EMPR MAP 8 EMPR OF 1986-2 EMR MP CORPFILE (Esperanza Mines Ltd.) GSC MAP 307A; 315A; 1385A GSC MEM 175, pp. 52,53 GSC SUM RPT \*1928, pp. 37A,38A

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/23 CODED BY: GSB FIELD CHECK: N REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 130

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 131 NATIONAL MINERAL INVENTORY: 103P6,5 Pb5

NAME(S): **INDEPENDENT** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 29 02 N NORTHING: 6148752

LONGITUDE: 129 29 48 W ELEVATION: 198 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on tunnel (Minister of Mines Annual Report 1918,

page 56).

COMMODITIES: Zinc Gold Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Galena Chalcopyrite Sphalerite

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia Stockwork

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: 105

DIMENSION: /65W STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Attitude of vein, 0.30 to 1.8 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

**FORMATION** IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE Middle Jurassic Spatsizi Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated in the Bowser Lake sedimentary overlap on Stikinia Terrane.

INVENTORY

ORE ZONE: FOOTWALL REPORT ON: N

> CATEGORY: YEAR: 1918 Assav/analysis

SAMPLE TYPE: Grab

**GRADE** 

COMMODITY Silver 703.0000 Grams per tonne 1.0000

Per cent I ead 7inc 7.2000 Per cent

COMMENTS: Selected grab sample from footwall of vein. REFERENCE: Minister of Mines Annual Report 1918, page 56.

CAPSULE GEOLOGY

The Independent occurrence is located 500 metres west-northwest of the approximate centre of Alice Arm. The area was explored for base and precious metals between 1918 and 1921.

The area is underlain by Middle Jurassic Spatsizi Group sediments. The sediments dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest trending folds.

The showing consists of a quartz vein, 0.30 to 1.8 metres wide, hosted in argillite that strikes north-south and dips 65 degrees west. Locally, the quartz breccia vein contains numerous fragments of argillite. The vein contains pyrite, galena, chalcopyrite and sphalerite in a gangue of quartz and minor calcite. A selected grab sample from a narrow mineralized zone in the footwall of the vein assayed trace gold, 703 grams per tonne silver, 1.0 per cent lead and 7.2 per cent zinc (Minister of Mines Annual Report 1918, p. 56).

BIBLIOGRAPHY

EMPR AR \*1918-56; 1919-50; 1921-48

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

PAGE:

EASTING: 468613

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 68

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/23 CODED BY: GSB REVISED BY: PSF

MINFILE NUMBER: 103P 131

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FIELD CHECK: N FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 132

NATIONAL MINERAL INVENTORY: 103P6 Pb4

NAME(S): BROWN BEAR, CASEY'S, BEL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P06W BC MAP: LATITUDE: 55 28 41 N

NORTHING: 6148078 EASTING: 472348

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1153

LONGITUDE: 129 26 15 W ELEVATION: 152 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of incline shaft (Minister of Mines Annual Report 1916,

page 65).

COMMODITIES: Silver I ead 7inc

**MINERALS** 

SIGNIFICANT: Galena Pyrite COMMENTS: Trace gold.

Arsenopyrite Sphalerite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**Barite** 

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym **Epigenetic** 

Polymetallic veins Ag-Pb-Zn±Au **I10** Vein barite

STRIKE/DIP: DIMENSION: 138/25N TREND/PLUNGE:

COMMENTS: Dip of quartz-barite vein, 1.2 metres wide, varies from 10 degrees southwest to 25 degrees northeast.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Argillite Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay/analysis YEAR: 1933 SAMPLE TYPE: Grab

COMMODITY Silver Grams per tonne

COMMENTS: Selected grab sample, trace gold.

REFERENCE: Minister of Mines Annual Report 1933, page 47.

**CAPSULE GEOLOGY** 

The Brown Bear showing is located just north of the Illiance River, about  $3.5~{\rm kilometres}$  east of Alice Arm. The area was investigated in 1916 and 1933 for base metals and uranium.

The region is underlain by an assemblage of volcanics and sediments comprising Upper Triassic Stuhini Group, Lower Jurassic Hazelton Group and Middle Jurassic Spatsizi Group. This assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing consists of a 1.2 metre wide quartz-barite vein exposed in a trench and a 6.0 metre long incline shaft at 152 metres elevation. The vein strikes 138 degrees and from dips 25 degrees northeast to 10 degrees southwest. It is hosted in Hazelton Group argillite and tuff on the western flank of the Mt. McGuire anticline. Mineralization consists of galena, pyrite, arsenopyrite and minor sphalerite. A selected grab sample assayed trace gold and 21 grams per tonne silver (Minister of Mines Annual Report 1933, page 47).

About 150 metres to the east, at 166 metres elevation, a similar 1 metre wide vein, mineralized with pyrite, galena and sphalerite, is

exposed in a trench and shallow shaft.

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1916-64; \*1933-46,47; 1966-47,48 EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 57

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/07 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 132

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 133

NATIONAL MINERAL INVENTORY: 103P6 Pb3

NAME(S): **THREE MILE**, BEL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1155

LATITUDE: 55 28 44 N LONGITUDE: 129 24 15 W ELEVATION: 122 Metres NORTHING: 6148158 **EASTING: 474455** 

LOCATION ACCURACY: Within 500M

COMMENTS: Location of entrance of 60 metre long adit (Minister of Mines Annual

Report 1930, page 89).

COMMODITIES: Zinc Gold I ead Silver

**MINERALS** 

SIGNIFICANT: Pyrite Marcasite Galena Sphalerite

ASSOCIATED: Quartz

ALTERATION: Quartz
COMMENTS: Quartz occurs as silicification in breccias and shear zones.
ALTERATION TYPE: Silicific'n

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Breccia

CLASSIFICATION: Hydrothermal

Polymetallic veins Ag-Pb-Zn±Au IN2 TYPE: 105 Intrusion-related Au pyrrhotite veins

Subvolcanic Cu-Ag-Au (As-Sb) L01

COMMENTS: Silicified shear zone strikes north-south. Breccia zones vary from 4.6 to 6.1 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Tuff

Graphitic Calcareous Argillite

Sandstone Agglomerate

HOSTROCK COMMENTS: Occurrence hosted in interbedded sequence.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

REPORT ON: N ORE ZONE: BRECCIA

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1931 Assay/analysis

**COMMODITY GRADE** 

Silver 21.0000 Grams per tonne Per cent I ead 1 6000

Zinc 2.8000 COMMENTS: Grab sample from breccia zone, trace gold. REFERENCE: Minister of Mines Annual Report 1931, page 39.

**CAPSULE GEOLOGY** 

The Three Mile showing is located on the Illiance River about 5.3 kilometres east of Alice Arm. The area was explored, by stripping and tunnelling, during the early 1930's for base and

Per cent

precious metals.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. Thi assemblage has been folded into a north-northwest trending anticline This (Mt. McGuire anticline) and regionally metamorphosed to greenschist

The showing consists of various occurrences hosted in Stuhini Group interbedded argillite, sandstone, tuff and agglomerate which strike approximately north-south and dip 60 degrees east. The main

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

occurrences are two quartzose brecciated zones, 4.6 to 6.1 metres wide, mineralized with pyrite, marcasite and minor galena and sphalerite. A grab sample assayed trace gold, and 21 grams per tonne silver, 1.6 per cent lead, 2.8 per cent zinc (Minister of Mines Annual Report 1931, page 39).

At 122 metres elevation, on the east bank of the river, a north striking shear grape is developed in waterlain tuffs. The grape is

striking shear zone is developed in waterlain tuffs. The zone is pyritic, silicified and has been explored by a 61 metre tunnel. On the west bank, a 6.0 metre tunnel follows a slightly pyritic shear zone hosted in graphitic and calcareous argillite.

#### **BIBLIOGRAPHY**

EM ASS RPT 20698 EMPR AR 1930-89; \*1931-39; 1966-47,48 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 82

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/08 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 133

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 134

NATIONAL MINERAL INVENTORY: 103P6 Pb1

NAME(S): **INGRAHAM'S**, SUPREME

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P06W BC MAP: LATITUDE: 55 29 11 N

NORTHING: 6148974 EASTING: 477900

PAGE:

REPORT: RGEN0100

1157

LONGITUDE: 129 20 59 W ELEVATION: 305 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location based on description of showings in Minister of Mines

Annual Report 1922, page 62.

COMMODITIES: Lead Silver Gold

**MINERALS** 

SIGNIFICANT: Galena Pyrite

COMMENTS: Galena occurs in a dyke and pyrite is hosted in a limestone bed.

ASSOCIATED: Quartz Calcite
COMMENTS: As veins and stringers in a dyke and limestone bed.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated hermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal

TYPE: 105 102 Intrusion-related Au pyrrhotite veins COMMENTS: Dyke containing galena strikes 060 degrees.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Limestone

Porphyritic Dike Argillite Siltstone Sandstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1922 Assay/analysis

COMMODITY **GRADE** 

377.0000 Silver Grams per tonne

I ead 28.0000 Per cent

COMMENTS: Selected grab sample from galena bearing dyke. REFERENCE: Minister of Mines Annual Report 1922, page 63.

CAPSULE GEOLOGY

The Ingraham's showing is located along the Illiance River, 8.75 kilometres due east of Alice Arm. silver and lead in 1918 and 1921. The area was prospected for gold,

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. Thi assemblage has been folded into a north-northwest trending anticline This (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing is hosted in variably schistose argillite, siltstone, sandstone and limestone of the Stuhini Group. The main showing is situated 200 metres to the west of Theophilus Creek (Copper Creek) on the north bank of the Illiance River. This showing consists of quartz and calcite veins in a porphyritic dyke that strikes 060 degrees. The veins are mineralized with galena; minor disseminated galena is also found in the dyke. A selected grab sample assayed trace gold, 377 grams per tonne silver and 28 per cent

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

lead (Minister of Mines Annual Report 1922, page 63).

A second showing, consisting of stringers and bands of pyrite and quartz, is located on the same claim group. It occurs in a 3.7 metre wide bed of altered limestone. A grab sample from a 1.2 metre wide band of massive pyrite assayed 0.69 grams per tonne gold and 6.9 grams per tonne silver (Minister of Mines Annual Report 1918, page 70).

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EM ASS RPT 20698

EMPR AR \*1918-70; \*1922-62,63

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 68

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/08 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 134

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 135

NAME(S): SILVER LEAF

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P06W BC MAP:

LATITUDE: 55 28 59 N

LONGITUDE: 129 20 40 W ELEVATION: 366 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of entrance of tunnel (Minister of Mines Annual Report

1924, page 52).

COMMODITIES: Silver

**MINERALS** 

SIGNIFICANT: Pyrite Tetrahedrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: I05 Polym

Intrusion-related Au pyrrhotite veins 102 DIMENSION: 0003 STRIKE/DIP: 165/55W Metres TREND/PLUNGE:

COMMENTS: Attitude of breccia zone, 3 metres wide, that contains mineralized

vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

<u>GRO</u>UP STRATIGRAPHIC AGE Middle Jurassic Spatsizi **FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

PAGE:

NATIONAL MINERAL INVENTORY: 103P6 Ag1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6148601

EASTING: 478232

REPORT: RGEN0100

1159

LITHOLOGY: Brecciated Banded Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

Bowser Lake

PHYSIOGRAPHIC AREA: Boundary Ranges

GRADE: Greenschist

TERRANE: Stikine
METAMORPHIC TYPE: Regional

RELATIONSHIP:

COMMENTS: Within the Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY: Assay/analysis

YEAR: 1924

Grams per tonne

SAMPLE TYPE: Grab

COMMODITY

**GRADE** 

120.0000 Silver

COMMENTS: From quartz vein in middle of breccia zone, trace gold. REFERENCE: Minister of Mines Annual Report 1924, page 52.

**CAPSULE GEOLOGY** 

The Silver Leaf showing is located on the south bank of the Illiance River, about  $9.0~{\rm kilometres}$  due east of Alice Arm. The area

was explored for precious metals in 1924.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing is hosted in Spatsizi Group banded argillite, striking 050 degrees and dipping 55 degrees east, crosscut by several dykes. The showing consists of a zone of brecciated argillite and dynartz, up to 3.0 metres wide, which strikes 165 degrees and dips 55 degrees west. A later, 15.0 centimetre wide, quartz vein, located midway between the walls of the breccia zone, is mineralized with pyrite and tetrahedrite. A grab sample from this vein assayed trace gold and 120 grams per tonne silver (Minister of Mines Annual Report 1924, page 52).

**BIBLIOGRAPHY** 

EM ASS RPT 20698 EMPR AR \*1924-52

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR FIELDWORK 1985, pp. 2 EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 79

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/08 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 135

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 136

NAME(S): LOUISE, DOT

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P13W 104A04W BC MAP:

LATITUDE: 55 58 47 N

LONGITUDE: 129 58 10 W ELEVATION: 122 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of showing (Property File - Mathews W.H. 1943).

COMMODITIES: Tungsten

**MINERALS** 

SIGNIFICANT: Scheelite ASSOCIATED: Calcite

COMMENTS: Minor calcite, calcium silicates.

ALTERATION TYPE: Skarn MINERALIZATION AGE: Eocene

ISOTOPIC AGE: 47-51 +/- 2-3 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite

**DEPOSIT** 

CHARACTER: Stratiform CLASSIFICATION: Skarn

TYPE: K05 W skar DIMENSION: 0046 x 0002 W skarn STRIKE/DIP: 360/25W TREND/PLUNGE: Metres

COMMENTS: Calc-silicate bed, 0.6 to 1.8 metres wide and traced for 46 metres,

contains mineralization in lenses up to 0.6 metres wide.

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Lower Jurassic GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Unuk River Eocene Coast Plutonic Complex

ISOTOPIC AGE: 47-51 +/- 2-3 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Calc-silicate Mica Schist

Clastic

Tuff

HOSTROCK COMMENTS: Isotopic age is from Alldrick, D., Open File 1986-2.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Boundary Ranges

TECTONIC BELT: Intermontane
TERRANE: Stikine
METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE:

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1942

SAMPLE TYPE: Grab

COMMODITY **GRADE** 

Per cent Tunasten 0.2100 COMMENTS: Equivalent to 0.27 per cent tungstic oxide (WO3). Highest assay

from grab samples.

REFERENCE: Bulletin 10, page 54.

**CAPSULE GEOLOGY** 

The Louise showing is located on the west side of the Bear River

5.0 kilometres north-northeast of Stewart.

The showing comprises tungsten mineralization hosted in calcsilicate beds in a sequence of tuffs and clastics of the Lower Jurassic Unuk River Formation. These have been contact metamorphosed to mica schists. These beds lie about 150 metres north of a large body of granite of the Eocene Hyder Pluton, strike north and dip 25 to 40 degrees west.

Tungsten mineralization is contained in a 0.6 to 1.8 metre wide calc-silicate bed, traced for 46 metres, and in a series of calcsilicate lenses up to 0.6 metres wide and 1.0 metre in length. These

> MINFILE NUMBER: 103P 136

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NATIONAL MINERAL INVENTORY: 103P13 W1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6204247

EASTING: 439507

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT
RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

contain scheelite in a gangue of calcium silicates and minor calcite. Grab samples of higher grade material from the lenses have assayed 0.04 per cent and 0.27 per cent tungstic oxide (WO3) (Bulletin 10, p. 54).

**BIBLIOGRAPHY** 

EM ASS RPT 21075

EMPR BULL \*10(Rev), pp. 53,54; 58; 63

EMPR FIELDWORK 1983, pp. 149-163; 1984, pp. 316-341; 1985, pp. 217, 218; 1986, pp. 93-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1991-17

EMPR PF (\*Mathews, W.H. (1943) Reports)

GSC MAP 215A; 307A; 315A; 1385A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/05/22 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 136

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 137

NATIONAL MINERAL INVENTORY: 103P6 Pb2

NAME(S): **COPPER CREEK** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P06W BC MAP: LATITUDE: 55 28 55 N

NORTHING: 6148486 EASTING: 476599

TREND/PLUNGE:

PAGE:

REPORT: RGEN0100

1163

LONGITUDE: 129 22 13 W ELEVATION: 427 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of claim group (Minister of Mines Annual Report 1921,

page 54).

COMMODITIES: Lead Silver Gold

**MINERALS** 

SIGNIFICANT: Galena Pyrite

COMMENTS: Stringers. ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: 105 Polym Epigenetic

Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0001 Metres COMMENTS: Veins are up to 1.5 metres wide. Metres STRIKE/DIP:

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini **Undefined Formation** 

LITHOLOGY: Argillite

Dioritic Dike

HOSTROCK COMMENTS: Mineralization developed in argillite adjacent to a dioritic dyke.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

REPORT ON: N ORE ZONE: DUMP

> CATEGORY: Assay/analysis YEAR: 1921 SAMPLE TYPE: Grab

**GRADE** 

COMMODITY Silver 21,0000 Grams per tonne

I ead 6.5000 Per cent

COMMENTS: Selected grab sample from dump of trench. REFERENCE: Minister of Mines Annual Report 1921, page 54.

CAPSULE GEOLOGY

The Copper Creek showing is located  $7.5~{\rm kilometres}$  east of the town of Alice Arm on the Illiance River. The showing was explored 1The showing was explored by trenching in 1921.

The region is underlain by an assemblage of volcanic and sedimentary rocks of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequen has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and has been regionally metamorphosed to green-The sequence schist facies.

The showing comprises a zone of black cherty quartz veins, up to 1.5 metres wide, developed adjacent to a dioritic dyke in Stuhini Group argillite. The quartz veins contain stringers of galena and pyrite. A selected grab sample from the dump of a trench assayed trace gold, 21 grams per tonne silver and 6.5 per cent lead (Minister of Mines Annual Report 1921, p. 54).

**BIBLIOGRAPHY** 

EM ASS RPT 20698, 21075 EMPR AR 1921-54,55

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EMPR BULL 63
EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR FIELDWORK 1985, pp. 2 EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 60

DATE CODED: 1989/03/08 DATE REVISED: / / CODED BY: PSF REVISED BY: FIELD CHECK: N FIELD CHECK:

MINFILE NUMBER: 103P 137

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 138

NATIONAL MINERAL INVENTORY: 103P11 Pyr2

NAME(S): GOLDEN CREST

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P11W

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 30 58 N

NORTHING: 6152259 EASTING: 483074

PAGE:

REPORT: RGEN0100

1165

LONGITUDE: 129 16 05 W ELEVATION: 610 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of trench (Minister of Mines Annual Report 1916, page 71).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

ASSOCIATED: Quartz **Barite** Rhodochrosite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

Intrusion-related Au pyrrhotite veins TYPE: 102 L01 Subvolcanic Cu-Ag-Au (As-Sb)

COMMENTS: Largest vein extends northeast for 1.8 to 2.4 metres and is up to 0.3

metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Sandstone

Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the southeast margin of the Stewart Complex (Island Arc Assemblage)

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1916 Assav/analysis

SAMPLE TYPE: Grab

COMMODITY Silver GRADE 22.0000 Grams per tonne Gold 5.3100 Grams per tonne

Copper 2.0000 Per cent

REFERENCE: Minister of Mines Annual Report 1916, page 71.

**CAPSULE GEOLOGY** 

The Golden Crest showing is located on the east side of the Illiance River about  $14.5\ \mathrm{kilometres}$  east-northeast of Alice Arm.

The area was explored for copper and precious metals in 1916.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the northnorthwest trending Mt. McGuire anticline. These rocks have been

regionally metamorphosed to greenschist facies.

The area of the showing is underlain by sandstone and tuff outcrops to the north. The sandstone is cut by quartz veins and stringers mineralized with pyrite and minor chalcopyrite. The largest vein is 0.3 metres wide and extends for 1.8 to 2.4 metres in a northeast direction. Minor amounts of barite and rhodochrosite are reported to occur in the gangue. A sample assayed 5.31 grams per tonne gold, 22 grams per tonne silver and 2.0 per cent copper

(Minister of Mines Annual Report 1916, p. 71).

**BIBLIOGRAPHY** 

EM ASS RPT 21075

EMPR AR \*1916-71 EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

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**BIBLIOGRAPHY** 

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 65

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/14 CODED BY: GSB REVISED BY: PSF

FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 138

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 139

NAME(S): BELLEVUE, BLENHEIM (L.3509), BELLEVUE NO. 1 (L.3508)

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P11W BC MAP:

LATITUDE: 55 32 29 N

LONGITUDE: 129 15 54 W ELEVATION: 922 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of tunnel in main showing (Minister of Mines Annual

Report 1920, page 51).

COMMODITIES: Silver Gold 7inc I ead

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Tetrahedrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au J01 Polymetallic manto Ag-Pb-Zn DIMENSION: 1000 x 0015 Metres STRIKE/DIP: 158/45 TREND/PLUNGE:

COMMENTS: Mineralized shear zones strike 158 degrees for up to 1000 metres, dip

moderately to the west and vary up to 15.2 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Porphyritic Andesitic Tuff

Porphyritic Andesitic Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the southeast margin of the Stewart Complex (Island Arc Assemblage)

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> CATEGORY: YFAR: 1920 Assay/analysis

SAMPLE TYPE: Chip

COMMODITY Silver **GRADE** 

790.0000 2.3200 Grams per tonne Gold Grams per tonne Per cent Lead 3.4000 5.4000 Per cent

Zinc COMMENTS: A 4.6 metre chip sample taken across the shear zone.

REFERENCE: Minister of Mines Annual Report 1920, page 51.

**CAPSULE GEOLOGY** 

The Bellevue showing is located just east of the Illiance River, about  $15.5~\mathrm{kilometres}$  northeast of Alice Arm. The area was explored

for lead and silver in the early 1920's.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the north-northwest trending Mt. McGuire anticline. These rocks have been

regionally metamorphosed to greenschist facies.

The showing comprises a number of shear zones, generally striking 158 degrees and dipping moderately west, hosted in pyritic porphyritic andesitic tuffs and breccias. The zones locally contain lenses, veins and stringers of quartz mineralized with pyrite, galena, sphalerite and tetrahedrite. These are generally parallel to the enclosing shear zones. The main showing is located at the southeast corner of the Blenheim claim (Lot 3509). It consists of a quartz vein, mineralized with galena and tetrahedrite, up to 1.2 metres wide. The vein occurs in the hangingwall of a shear zone, to 15.2 metres wide, that has been traced for 1000 metres. This shear zone also contains stringers of quartz, pyrite and galena which

> MINFILE NUMBER: 103P 139

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NATIONAL MINERAL INVENTORY: 103P11 Ag7

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6155071

EASTING: 483277

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

occur over a width of 4.9 metres adjacent to the quartz vein of the main showing.

A 4.6 metre chip sample taken from the hangingwall across the shear zone assayed 2.32 grams per tonne gold, 790 grams per tonne silver, 3.4 per cent lead and 5.4 per cent zinc (Minister of Mines Annual Report 1920, page 51). An adit, 97.5 metres long, driven eastward 30 metres below the main showing, failed to encounter any significant mineralization.

#### **BIBLIOGRAPHY**

EMPR AR 1916-71; \*1920-51; \*1921-55; 1930-92; 1965-65-68 EMPR ASS RPT 10115 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR PF (Great Northwest Resources Corp. Prospectus, 1989)
EMR MP CORPFILE (Alice Arm Consolidated Holdings Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 54
GSC SUM RPT 1922, p. 47A

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/14 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 140

NATIONAL MINERAL INVENTORY: 103P11 Ag6

NAME(S): **GREY GOOSE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1169

LATITUDE: 55 32 45 N

NORTHING: 6155567 EASTING: 482999

LONGITUDE: 129 16 10 W ELEVATION: 927 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Approximate centre of trench (Assessment Report 10115, Figures

4 and 10).

COMMODITIES: Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Pyrite

Sphalerite Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: J01 Polym hermal Epigenetic Polymetallic manto Ag-Pb-Zn

105 Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: Shear zones strike northwest, dip southwest.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Rhyolitic Schist

Andesitic Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

Per cent

TERRANE: Stikine

**RELATIONSHIP:** GRADE: Greenschist

METAMORPHIC TYPE: Regional COMMENTS: At the southeast margin of the Stewart Complex (Island Arc Assemblage)

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1981

SAMPLE TYPE: Chip

COMMODITY Silver GRADE 1337.0000 Grams per tonne 0.3600 Copper Per cent Per cent Lead 19.9000

30.0000 7inc COMMENTS: A 0.6 metre chip sample across shear zone.

REFERENCE: Assessment Report 10115, page 12.

**CAPSULE GEOLOGY** 

The Grey Goose occurrence is located on the west bank of the Illiance River, about 15.5 kilometres northeast of Alice Arm. The area was explored periodically since 1916 for lead and zinc mineralization.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the north-northwest trending Mt. McGuire anticline. These rocks have been

regionally metamorphosed to greenschist facies.

The showing consists of a northwest striking shear zone, in light grey rhyolitic schist, exposed in a 6.0 metre long trench. zone is mineralized with small lenses of massive galena and sphalerite over an approximate width of 0.6 metres. A 0.6 metre chip sample across the zone assayed 1337 grams per tonne silver, 30.0 per cent zinc, 19.9 per c Report 10115, p. 12). 19.9 per cent lead and 0.36 per cent copper (Assessment

A 0.46 metre wide quartz-carbonate vein is reported to occur in this vicinity. The vein, mineralized with galena and pyrite, strikes northwest for 10 metres and is hosted in a northwest striking, west dipping shear zone developed in andesitic schist.

These showings are likely part of the same shear structure that

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

contains the Illy showings (103P  $\,$  141) to the north and the Bellevue showings (103P  $\,$  139) to the south.

**BIBLIOGRAPHY** 

EMPR AR 1916-72; 1965-67; \*1968-65-68 EMPR ASS RPT \*10115, 19459

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR MAF o EMPR OF 1986-2 EMPR PF (Great Northwest Resources Corp. Prospectus, 1989) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 66

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 141

NATIONAL MINERAL INVENTORY: 103P11 Ag5,6

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

1171

NAME(S): ILLY, SILVER BAR SILVER BELL, UNITED METALS, HORSECUT, TOP NOTCH

STATUS: Past Producer Open Pit MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P11W

BC MAP: NORTHING: 6156587 EASTING: 483003

LATITUDE: 55 33 18 N LONGITUDE: 129 16 10 W ELEVATION: 971 Metres ACCURACY: Maria LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of chip sample 021693 in Horsecut zone (Assessment Report

10115 Figs. 4 and 8).

COMMODITIES: Lead Silver Zinc Copper Gold

**MINERALS** 

SIGNIFICANT: Galena Tetrahedrite Sphalerite Pyrite Chalcopyrite

Carbonate Carbonate Sericite Pyrite

ASSOCIATED: Quartz
ALTERATION: Quartz
ALTERATION TYPE: Silicific'n Sericitic Carbonate Pyrite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au J01 Polymetallic manto Ag-Pb-Zn

COMMENTS: Major shear structure strikes north-northwest for 1300 metres, dips

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE Lower Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

LITHOLOGY: Rhyolite Schist

Conglomerate Sandstone Siltstone

Andesitic Breccia

HOSTROCK COMMENTS: Host rock consists of conglomerate, sandstone, siltstone and andesitic

breccias that have been altered to rhyolitic schist.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine RELATIONSHIP:

METAMORPHIC TYPE: Regional GRADE: Greenschist

COMMENTS: At the eastern edge of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SHOWING REPORT ON: N

> CATEGORY: YEAR: 1968 Assay/analysis

SAMPLE TYPE: Chip **COMMODITY GRADE** 

Silver 764.0000 Grams per tonne Copper 0.3200 Per cent

Lead 11.6000 Per cent Zinc 7.0000 Per cent

COMMENTS: A 1.5 metre chip sample on United Metals zone. REFERENCE: Minister of Mines Annual Report 1968, page 68.

**CAPSULE GEOLOGY** 

The Illy occurrence is located along the west bank of the Illiance River, about 16 kilometres northeast of Alice Arm. A small amount of high grade silver-lead- zinc ore was packed out by horse to Alice Arm in 1919 and 1923 from these showings.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the northnorthwest trending Mt. McGuire anticline. These rocks have been regionally metamorphosed to greenschist facies.

The occurrence comprises numerous showings contained in a shear structure that strikes north-northwest for 1300 metres along the bank of the Illiance River. The Falcon occurrence (103P 142) to the north RUN DATE: 26-Jun-2003 MINFILE MASTER RI
RUN TIME: 12:06:33 GEOLOGICAL SURVEY R

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GEOLOGICAL SURVEY BRANCH
ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

and the Grey Goose occurrence (103P 140) to the south are likely situated on extensions of this zone. The shear structure is developed in a sequence of volcanically derived red conglomerates, sandstones and siltstones with local interbeds of red and green volcanic breccias. The sediments and breccias are composed of fragments of andesitic crystal tuff and porphyritic andesite. Thin beds of argillite are locally interbedded with these rocks. They are all cut by the andesitic and lamprophyric dykes commonly found in this vicinity. A north trending vertical to steeply dipping schistosity is developed in the sediments and volcanics. The rocks are bleached and altered to a light grey rhyolitic schist as a result of intense quartz-carbonate-sericite-pyrite alteration.

Mineralization, consisting of pyrite, galena and sphalerite, is found in a number of veins and zones scattered along the length of the shear structure. The Illy occurrence primarily comprises three zones, the United Metals, Horsecut and Silver Bar showings. Various other showings occur along the shear structure.

The United Metals showing, located on the south end of the shear structure, consists of stringers and near massive bands of sphalerite and galena. The bands are up to 1.5 metres wide and occur along shear planes in the light grey rhyolitic schist. A 1.5 metre chip sample contained trace gold, 764 grams per tonne silver, 11.60 per cent lead, 7.00 per cent zinc and 0.32 per cent copper (Minister of Mines Annual Report 1968, page 68). Results from 880 metres of diamond drilling in 15 holes encountered only narrow erratic sulphide zones at depth.

Drilling on the Silver Bar showing encountered only narrow quartz-carbonate stringers and veins mineralized with pyrite, galena sphalerite, tetrahedrite and chalcopyrite. The highest assay was 625.9 grams per tonne silver, 1.3 per cent lead and 1.64 per cent zinc over 1.0 metre (Assessment Report 10115, p.11).

The Horsecut zone is exposed for approximately 20 metres in old troopher. This grape is similar to and is possibly the extension of

The Horsecut zone is exposed for approximately 20 metres in old trenches. This zone is similar to and is possibly the extension of the Silver Bar showing. A sample from across 0.5 metres assayed 1172.4 grams per tonne silver, 4.27 per cent lead and 5.35 per cent zinc (Assessment Report 10115, p.12).

### **BIBLIOGRAPHY**

EMPR AR 1916-72,73; 1918-70-72; 1919-57-59; 1920-51,52; 1921-55;
 1923-383; 1930-91,92; 1951-107; 1965-67,68; 1967-49; \*1968-65-68
EMPR ASS RPT \*10115, 19459
EMPR BULL 63
EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243
EMPR MAP 8
EMPR OF 1986-2
EMPR PF (Map of Trenches, Silver Flint Mines, 1951; Ponder Oils Field notes and various maps of drill sites and showings, 1967;
 Great Northwest Resources Corp. Prospectus, 1989)
EMR MP CORPFILE (Ponder Oils Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, pp. 77,84

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/03/15 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 141

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 142 NATIONAL MINERAL INVENTORY: 103P5 Mo4

NAME(S): NIMBLE, PENNY CREEK, MT. HUNDINDON

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P04E 103P05E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 13 58 N LONGITUDE: 129 32 37 W ELEVATION: 701 Metres NORTHING: 6120830 EASTING: 465428

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of grab sample IMFH2 (Assessment Report 9930, Plate 2).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz Pyrite

ALTERATION: Orthoclase ALTERATION TYPE: Potassic MINERALIZATION AGE: Oligocene

ISOTOPIC AGE: 36 Ma DATING METHOD: Potassium/Argon MATERIAL DATED:

**DEPOSIT** 

CHARACTER: Vein Stockwork

CLASSIFICATION: Porphyry Hydroure
TYPE: L05 Porphyry Mo (Low F- type)
Metres Hydrothermal **Epigenetic** 

TYPE: L05 DIMENSION: 0700 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: 700 metre wide zone of shallow dipping, north trending quartz veins and steep dipping fractures striking 065 to 080 degrees, and 140 to

160 degrees.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Alice Arm Intrusion

ISOTOPIC AGE: 36 Ma

DATING METHOD: Potassium/Argon

LITHOLOGY: Biotite Trondhjemite

Biotite Granodiorite Lamprophyre Dike

HOSTROCK COMMENTS: Isotopic age from Carter, N.C., 1978.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Plutonic Řocks

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YEAR: 1967 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

<u>COMMO</u>DITY **GRADE** 

Per cent Molvbdenum 0.2600

COMMENTS: Highest assay from seven grab samples of vein. REFERENCE: Assessment Report 9930.

**CAPSULE GEOLOGY** 

The Nimble showing is located at the headwaters of Penny Creek, about 12 kilometres east of Observatory Inlet. The area has been

intermittently explored in the past for molybdenum.

The showing is situated in the Coast Plutonic Complex near the eastern margin where it contacts Hazelton Group sediments.

Molybdenum mineralization is hosted in a 2.0 by 1.0 kilometre

body of fine to medium-grained biotite trondhjemite granite of the Oligocene Alice Arm Intrusions. The trondhjemite intrudes Eocene Oligocene Alice Arm Intrusions. coarse-grained equigranular biotite granodiorite of the Coast Plutonic Complex and has been dated at 36 million years (Carter, N.C. 1978). It is crosscut by lamprophyre dykes.

Mineralization consists of clots and smears of molybdenite and minor pyrite in quartz veins, fractures and quartz-healed fractures. These occur in the trondhjemite over a 700 metre distance along an east-west trending cliff on the north side of Penny Creek. Fractures are near vertical and strike 140 to 160 degrees and 065 to 080

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### **CAPSULE GEOLOGY**

degrees. Mineralized quartz veins, 5 to 10 millimetres wide, strike north and dip near horizontal. The veins are most intensely developed within 50 metres of the glacier west of Penny Creek. Molybdenite-bearing quartz veins are also frequently developed in a zone of potassic alteration, 160 to 260 metres west of the glacier, within the 700 metre wide zone. Seven grab samples taken from quartz veins assayed between 0.016 to 0.26 per cent molybdenum (Assessment Report 9930).

## **BIBLIOGRAPHY**

EMPR AR 1967-48 EMPR ASS RPT 8080, 9139, \*9930

EMPR BULL 63

EMPR EXPL 1979-258

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 GSC MAP 1385A

DATE CODED: 1989/01/26 DATE REVISED: 1990/01/11 CODED BY: PSF REVISED BY: DEJ FIELD CHECK: N

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MINFILE NUMBER: 103P 143

NATIONAL MINERAL INVENTORY: 103P11 Ag8

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

1175

NAME(S): SILVER, BEL, SILVER STAR

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP:

LATITUDE:

55 32 44 N NORTHING: 6155534 EASTING: 483437

LONGITUDE: 129 15 45 W ELEVATION: 977 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit entrance on Silver showing (Assessment Report 10115, Figures

4 and 11).

COMMODITIES: Silver I ead 7inc Copper Gold

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrrhotite Tetrahedrite Pyrite

COMMENTS: As disseminations, lenses and stringers in shear zones.

ASSOCIATED: Sericite
ALTERATION: Sericite Carbonate Carbonate

ALTERATION TYPE: Sericitic Carbonate

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Massive Vein

thermal Epigenetic Polymetallic manto Ag-Pb-Zn CLASSIFICATION: Hydrothermal TYPE: JÓ1

Polymetallic veins Ag-Pb-Zn±Au 105 DIMENSION: 0475 x 0002 STRIKE/DIP: 003/85W Metres TREND/PLUNGE:

COMMENTS: Shear zone strikes 003 degrees for 475 metres, varies from 1 to 2.4

metres wide, dips 85 degrees west.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Sericite Carbonate Schist Andesitic Breccia

HOSTROCK COMMENTS: Host rock consists of red and green andesitic breccias that have been

altered to grey sericite-carbonate schist.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the southeast margin of the Stewart Complex (Island Arc Assemblage)

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> CATEGORY: YEAR: 1967 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY 956.0000 Silver Grams per tonne

Lead 3.3500 Per cent Zinc 4.2900 Per cent

COMMENTS: A 1.7 metre chip sample across shear zone.

REFERENCE: Assessment Report 10115, Figure 11.

**CAPSULE GEOLOGY** 

The Silver showing is located on the east bank of the Illiance River, just east of the United Metals zone of the Illy occurrence (103P 141), about 16 kilometres northeast of Alice Arm. The area has been explored periodically since 1918 for lead, silver and zince installing the control of th mineralization.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the northnorthwest trending Mt. McGuire anticline. These rocks have been

regionally metamorphosed up to greenschist facies.

The showing consists of a shear zone, 1 to 2.4 metres wide, in green to red andesitic breccias. The zone strikes 003 degrees, dips 85 degrees west and has been traced for 475 metres. High grade mineralization is exposed for 55 metres in the south end of the zone. The country rock has been altered to grey sericite-carbonate schist.

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### **CAPSULE GEOLOGY**

Mineralization is similar to that exposed in the United Metals zone (103P 141) across the Illiance River. It consists of disseminations, massive lenses and stringers of galena, sphalerite, pyrrhotite and tetrahedrite. A 1.7 metre chip sample taken across the mineralized shear zone assayed 956 grams per tonne silver, 3.35 per cent lead and 4.29 per cent zinc (Assessment Report 10115, Fig. 11). Southwest of the adit, about 20 metres, are several north trending shear zones which contain stringers of pyrite, galena and sphalerite.

### **BIBLIOGRAPHY**

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 144

NATIONAL MINERAL INVENTORY: 103P11 Ag4

NAME(S): **YANKEE BOY** 

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

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1177

NTS MAP: 103P11W BC MAP: LATITUDE: 55 35 29 N

NORTHING: 6160635 EASTING: 483351

LONGITUDE: 129 15 51 W ELEVATION: 762 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of showing based on description in (Minister of Mines Annual Reports 1916, page 75 and 1918, page 72).

COMMODITIES: Lead

Copper

**MINERALS** 

SIGNIFICANT: Galena

COMMENTS: As disseminations adjacent to dyke.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal TYPE: G06 Noran Epigenetic

Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRA<u>TIGRAPHIC AGE</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesitic Sandstone Andesitic Breccia

Andesitic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Greenschist COMMENTS: At the eastern boundary of the Stewart Complex (Island Arc Assemblage)

**CAPSULE GEOLOGY** 

The Yankee Boy showing is located on the south bank of the Tchitin River, just east of the Glacier showing (103P  $\,$  145), about

19.0 kilometres northeast of Alice Arm.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the northnorthwest trending Mt. McGuire anticline. These rocks have been

regionally metamorphosed to greenschist facies.

Exploration in 1916 revealed traces of galena and a unidentified copper mineral in a slightly mineralized zone. The zone, 4.6 to 6.0 metres wide, is developed adjacent to a dyke in country rock that appears to be red and green andesitic sandstone, breccia and tuff.

**BIBLIOGRAPHY** 

EMPR AR \*1916-75; \*1918-72

EMPR ASS RPT 8904, 9823

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 1385A

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NATIONAL MINERAL INVENTORY: 103P11 Ag4

MINING DIVISION: Skeena

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1178

NAME(S): GLACIER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P11W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 35 31 N NORTHING: 6160698 EASTING: 483141

LONGITUDE: 129 16 03 W ELEVATION: 732 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location based on description of showing in Minister of Mines Annual

Report 1918, page 72.

COMMODITIES: Silver Lead 7inc

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Pyrite

COMMENTS: Galena and sphalerite assumed.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal

Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Metamorphic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Chlorite Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the eastern edge of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1916 Assav/analysis

SAMPLE TYPE: Grab

COMMODITY **GRADE** Silver 5964.7000 Grams per tonne

REFERENCE: Minister of Mines Annual Report 1916, page 74.

**CAPSULE GEOLOGY** 

The Glacier showing is located on the south side of the Tchitin River, just west of the Yankee Boy showing (103P  $\,$  144), about 19.0 kilometres northeast of Alice Arm.

The region is underlain by Lower Jurassic Hazelton Group volcanics and sediments situated on the east limb of the north-northwest These rocks have been regionally trending Mt. McGuire anticline.

metamorphosed to greenschist facies.

The showing consists of a slightly pyritic quartz vein hosted in chloritic schist. In the hangingwall, a 0.10 to 0.30 metre wide zone contains high grade lead-zinc-silver ore (galena?, sphalerite?), typical of other occurrences in this region. A grab sample assayed 5964.7 grams per tonne silver (Minister of Mines Annual Report 1916,

page 74).

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EMPR AR \*1916-74; \*1918-72

EMPR ASS RPT 8904, 9823

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

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**BIBLIOGRAPHY** 

GSC MEM 175, p. 65

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/15 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 146

NATIONAL MINERAL INVENTORY: 103P11 Cu3

NAME(S): HORSESHOE, LANCE 4

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P11W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

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1180

LATITUDE: 55 30 20 N LONGITUDE: 129 21 01 W ELEVATION: 1219 Metres

NORTHING: 6151107 **EASTING: 477876** 

LOCATION ACCURACY: Within 500M

COMMENTS: Location of claims (Geological Survey of Canada Memoir 175,

page 68).

COMMODITIES: Copper Silver Barite

**MINERALS** 

SIGNIFICANT: Chalcocite **Barite** 

ASSOCIATED: Quartz Sericite Ankerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** Industrial Min.

TYPE: LÓ1 Subvolcanic Cu-Ag-Au (As-Sb) 110 Vein barite

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Augite Porphyritic Basaltic Flow

Basaltic Breccia Andesitic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1922

SAMPLE TYPE: Chip COMMODITY **GRADE** 

137,0000 Grams per tonne Silver

Comments: Sample taken across 0.46 metre wide vein. 29.0000 Per cent

REFERENCE: Minister of Mines Annual Report 1922, page 62.

CAPSULE GEOLOGY

The Horseshoe showing is located 3.0 kilometres south of Mt. Theophilus, about 9.0 kilometres east-northeast of Alice Arm.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is situated on the eastern flank of the north-northwest trending Mt. McGuire anticline.

The showing is hosted in Stuhini Group augite porphyritic basaltic flows and breccias, underlain, to the west, by argillite. The showing consists of quartz veins containing chalcocite. A sample taken across a 0.46 metre wide vein assayed 29.0 per cent copper and 137 grams per tonne silver (Minister of Mines Annual Report 1922, page 62).

Quartz and quartz-barite veins up to 4 metres wide and 500 metres long striking approximately north-south are reported to be hosted in andesitic tuff. The veins carry up to 30 per cent disseminated pyrite associated with sericite however assay results have not produced significant values (Assessment Report 21060).

**BIBLIOGRAPHY** 

EM ASS RPT \*21060, 21075

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

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**BIBLIOGRAPHY** 

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EMPR FIEDWORK 1303, pp. 213 214, 17 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (Mondana Ventures Inc. Prospectus, Oct. 1989) GSC MAP 307A; 315A; 1385A GSC MEM \*175, p. 68

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 DATE REVISED: 1989/03/02 FIELD CHECK: N FIELD CHECK: N

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# MINFILE MASTER REPORT

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MINFILE NUMBER: 103P 147

NATIONAL MINERAL INVENTORY: 103P11 Zn1

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UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

1182

NAME(S): SUNRISE, SILVER BAND, BLACK BEAR, BANDED, KEELY

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P11W

BC MAP:

LATITUDE: 55 30 34 N LONGITUDE: 129 24 35 W NORTHING: 6151561 EASTING: 474124

ELEVATION: 1113 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location based on main outcrop of the "banded vein" (Sample site

AA-R5), (Assessment Report 11070, Map 3).

COMMODITIES: Zinc Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Sphalerite Galena Pyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown Calcite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Breccia

thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0366 x 0005 Metres STRIKE/DIP: COMMENTS: The banded vein strikes 120 degrees for 366 metres, dips 50 to 60 120/60E TREND/PLUNGE:

degrees northeast and varies from 1.0 to 4.6 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Brecciated Argillite

Greywacke

Basaltic Conglomerate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1927

SAMPLE TYPE: Chip COMMODITY **GRADE** 

Silver Grams per tonne 13.7000 8.8000 Per cent

COMMENTS: A 3.0 metre chip sample across main showing of Banded vein.

REFERENCE: Minister of Mines Annual Report 1927, page 72.

**CAPSULE GEOLOGY** 

The Sunrise showing is located on the south side of Wilauks Mountain, about 6.0 kilometres east-northeast of Alice Arm. The area

Mountain, about 6.0 kilometres east-northeast of Alice Arm. The area has been extensively explored for zinc mineralization.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. This assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing is hosted in Stuhini Group argillite, greywacke and basaltic conglomerate which have been intruded by numerous hornblende and feldspar porphyritic dykes.

The main mineralized zone, the Banded vein, is developed along a

fault that follows Sunshine Creek. The Banded vein, 1.0 to 4.6 metres wide, has been traced for about 366 metres, strikes 120 degrees and dips 50 to 60 degrees east. The zone consists of quartz and calcite veins and stringers, up to a metre in width, infilling fractures and shears in brecciated argillite. The wider veins

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

contain irregular, discontinuous pods, lenses and streaks of sphalerite and minor galena and pyrite. A 3.0 metre chip sample taken across the main showing assayed trace gold, 13.7 grams per tonne silver, nil lead and 8.8 per cent zinc (Minister of Mines Annual Report 1927, p. 72). A 354 metre long adit was driven in an attempt to intersect the downward projection of the zone but failed to encounter any significant zinc mineralization.

A second vein or zone, extends southeastward for 100 metres along Sunshine Creek from the widest point on the Banded vein. This vein, 0.6 to 1.2 metres wide at its south end and wider at the north end, trends west-northwest at an angle to the Banded vein. It is reported to be well mineralized with sphalerite.

A third vein, the Keely vein, occurs 244 to 274 metres to the west of, and parallel to, the Banded vein. It varies from 0.3 to 1.2 metres wide and is reported to contain moderate quantities of zinc (Minister of Mines Annual Report 1927, p. 72).

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EMPR ASS RPT \*11070

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR OF 1986-2

EMPR PF (King, R. (1926) Report; Quinn, H.A. (1966) Report)

EMR MP CORPFILE (Kitsault Mines Ltd.)

GSC MAP 307A; 315A; 1385A

GSC MAP 175, pp. 52,55,81

GSC SUM RPT 1928A, p. 41

GCNL #196, 1982

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/03/02 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 147

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

I ead

MINFILE NUMBER: 103P 148

NAME(S): **STANDARD**, ALAMOSA

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P11W BC MAP:

LATITUDE: 55 30 44 N LONGITUDE: 129 25 09 W

ELEVATION: 884 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Showing labelled "Standard" (Assessment Report 11070).

COMMODITIES: Zinc.

Silver

**MINERALS** 

SIGNIFICANT: Sphalerite Galena COMMENTS: Occur as disseminations, blebs, veinlets and bands.

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: I05 Polym

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au DIMENSION: 0018 Metres

COMMENTS: Near horizontal vein traced for 18 metres.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

TRATIGRAPHIC AGE

GROUP Stuhini Upper Triassic

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

Polymetallic manto Ag-Pb-Zn

PHYSIOGRAPHIC AREA: Boundary Ranges

PAGE:

NATIONAL MINERAL INVENTORY: 103P11 Zn5

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6151873

EASTING: 473529

REPORT: RGEN0100

1184

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

J01

STRIKE/DIP:

COMMENTS: At the south end of Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY: Assav/analysis

SAMPLE TYPE: Grab

YEAR: 1918 **GRADE** 

COMMODITY Silver

21.0000 Grams per tonne

48,0000 Per cent 7inc

COMMENTS: Selected grab sample of vein. REFERENCE: Minister of Mines Annual Report 1918, page 69.

**CAPSULE GEOLOGY** 

The Standard showing is located on the south slope of Wilauks Mountain, about 5.5 kilometres east-northeast of Alice Arm. The area has been explored for zinc mineralization since 1916.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing consists of a flat lying quartz-carbonate vein, hosted in Stuhini Group argillite, that has been traced along strike for 18 metres. Locally, breccia fragments of the argillite have been incorporated in the vein. Mineralization consists of disseminations, blebs, veinlets and bands of sphalerite up to 0.6 metres thick, and minor galena. Sphalerite comprises 10 to 20 per cent of the vein, with estimated grades from 5.0 to 10.0 per cent zinc (Minister of Mines Annual Report 1949, p. 80). A selected grab sample of the vein assayed 48 per cent zinc and 21 grams per tonne silver (Minister of

Mines Annual Report 1918, p. 69).

Two other showings, to the south, 3 to 4.6 metres wide, host disseminated galena in quartz. All three showings are aligned in a northwest direction extending for a distance of 122 metres.

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

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EMPR OF 1986-2
EMPR PF (Quinn, H.A. (1966) Report)
EMR MP CORPFILE (Mayfair Moly Mines Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, pp. 52,80
GCNL #196, 1982 W MINER March 1967

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 DATE REVISED: 1989/03/02 FIELD CHECK: N FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 149

NATIONAL MINERAL INVENTORY: 103P11 Zn5

NAME(S): BILLY MACK, KENT/MAPLE LEAF, BEL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1186

LATITUDE: 55 29 45 N LONGITUDE: 129 24 48 W

NORTHING: 6150047 EASTING: 473887

ELEVATION: 655 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of tunnel in creek bed (Minister of Mines Annual Report

1931, page 39).

COMMODITIES: Zinc

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: I05 Polym

hermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au
x 0006 Metres J01 Polymetallic manto Ag-Pb-Zn DIMENSION: 0076 x 0006 STRIKE/DIP: 045/30S TREND/PLUNGE:

COMMENTS: Principle vein strikes northeast for 76 metres, dips 30 degrees

southeast and varies from 4.6 to 6.1 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Calcareous Argillite Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YFAR: 1931 Assav/analysis

> CATEGORY: Assay SAMPLE TYPE: Grab

**GRADE COMMODITY** 4.0000 Per cent 7inc

COMMENTS: Sample from southernmost vein.

REFERENCE: Minister of Mines Annual Report 1931, page 39.

CAPSULE GEOLOGY

The Billy Mack showing is located on Morley Creek on the south slope of Wilauks Mountain, 5.0 kilometres east-northeast of Alice Arm. The area has been extensively explored for zinc and silver in the past.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The Billy Mack showing comprises various occurrences hosted in Stuhini Group calcareous argillite on the west limb of the Mt. McGuire anticline. The main showing consists of a banded vein The main showing consists of a banded vein, to 6.1 metres wide, with inclusions of brecciated argillite. The vein strikes northeast for 76 metres along a bluff on the south side of a tributary of Morley Creek and dips 30 degrees southeast. Mineralization, best developed within 1.2 to 1.5 metres of the footwall, consists of sparse streaks of sphalerite and minor pyrite in a gangue of quartz and calcite.

To the northeast, 100 metres, a nearly horizontal 3.7 metre wide body of quartz and calcite outcrops on either side of the tributary.

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

The vein, also containing brecciated fragments of argillite, dips 20 to 25 degrees east and strikes north-south. Mineralization consists of sphalerite and it is likely that this vein was on the Maple Leaf and Kent claims in 1918.

North of the main showing and about 37 metres below it in the  $\,$ creek bottom, a  $2.4\ \text{metre}$  wide banded and brecciated vein is exposed in a trench. The vein, striking 068 degrees and dipping 55 degrees north, is mineralized with sphalerite and pyrite. A grab sample assayed nil gold, nil silver and 4.0 per cent zinc (Minister of Mines Annual Report 1931, p. 39).

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FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1989/03/08 CODED BY: GSB REVISED BY: PSF

MINFILE NUMBER: 103P 149

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 150

NAME(S): HIGHLAND, BLACK BEAR

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P11W 103P06W BC MAP:

LATITUDE: 55 30 00 N LONGITUDE: 129 25 11 W ELEVATION: 610 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of showings in Wilauks Creek (Jones Creek), (Minister of

Mines Annual Report 1927, page 72).

COMMODITIES: Zinc Silver Gold I ead

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite Galena ASSOCIATED: Quartz Cálcite Barite COMMENTS: Occurs as irregular bodies.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia
CLASSIFICATION: Hydrothermal Vein

hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

TYPE: 105 J01 Polymetallic manto Ag-Pb-Zn

SHAPE: Irregular MODIFIER: Sheared

DIMENSION: 0120 x 0003 Metres STRIKE/DIP:

TREND/PLUNGE:

COMMENTS: Two principle zones strike northeast. One zone is 1.0 to 6.0 metres wide and has been traced partially for 120 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u>

Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Graphitic Argillite Brecciated Conglomerate

Feldspar Porphyry

HOSTROCK COMMENTS: Host rock consists of graphitic argillite and interbedded

conglomerate.

**GEOLOGICAL SETTING** 

TECTONIC BELT: PHYSIOGRAPHIC AREA: Boundary Ranges Intermontane

TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip Assay/analysis YEAR: 1927

**COMMODITY GRADE** 

Silver 13.7000 Grams per tonne

Per cent 7inc 2.5000

COMMENTS: A 3.0 metre chip sample from zone on west side of creek, trace

gold and lead. REFERENCE: Minister of Mines Annual Report 1927, page 73.

**CAPSULE GEOLOGY** 

The Highland showings are located on Wilauks Creek on the southwestern slope of Wilauks Mountain, about 4.75 kilometres northeast of Alice Arm. Various showings were investigated sporadically

in this area from 1916 to 1966.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. Thi assemblage has been folded into a north-northwest trending anticline This (Mt. McGuire anticline) and regionally metamorphosed to greenschist

The showings are contained in a sequence of graphitic argillites and interbedded conglomerates of the Stuhini Group. These are underlain, to the east, by augite porphyritic basaltic flows which are

> MINFILE NUMBER: 103P 150

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NATIONAL MINERAL INVENTORY: 103P11 Zn5

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6150513 EASTING: 473486

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RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

situated on the west limb of the Mt. McGuire anticline. A breccia zone, on the east side of Wilauks Creek, in conglom-

erate contains irregular masses of quartz, calcite, barite and sphalerite. The zone strikes northeast, varies from 1 to 6 metres wide and has been partially traced for 120 metres by 5 trenches.

A fault zone of similar strike, 100 metres to the northwest on the west side of the creek, is developed in argillite. The zone contains lenticular and irregular bodies of quartz, calcite, sphalerite and minor pyrite and galena. A 3.0 metre chip sample taken across the zone assayed trace gold, 13.7 grams per tonne silver, trace lead and 2.5 per cent zinc (Minister of Mines Annual Report 1927, p. 73).

Farther upstream, a 1.5 to 6.1 metre wide zone in argillite is mineralized with pyrite and sphalerite.

Another mineralized zone is developed in a highly metamorphosed feldspar porphyritic rock, upstream from this showing. A selected grab sample assayed trace gold, 21 grams per tonne silver, nil lead and 8.6 per cent zinc (Minister of Mines Annual Report 1927, p. 73).

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FIELD CHECK: N DATE CODED: 1985/07/24 CODED BY: GSB REVISED BY: PSF DATE REVISED: 1989/03/08 FIELD CHECK: N

MINFILE NUMBER: 103P 150

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 151

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 6139574 EASTING: 468125

REPORT: RGEN0100

1190

 $\mathsf{NAME}(\mathsf{S}) \colon \: \frac{\mathsf{WAYNE}}{\mathsf{MCC}}, \: \mathsf{DAWSON} \: \mathsf{RIDGE}, \: \mathsf{SILVER} \: \mathsf{BOW},$ 

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05E 103P06W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 24 05 N LONGITUDE: 129 30 12 W ELEVATION: 1222 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of showing (Minister of Mines Annual Report 1967, page 47).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Porphyry Hydrothermal TYPE: L05 Porphyry Mo (Low F- type) **Epigenetic** 

COMMENTS: Molybdenite contained in east trending veins, of alaskite and quartz,

13 centimetres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Coast Plutonic Complex Eocene

ISOTOPIC AGE: 51.5 Ma

DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Alaskite

Quartz Monzonite Quartz Diorite Andesitic Dike Lamprophyre Dike

HOSTROCK COMMENTS: Alaskite and quartz veins hosted in quartz monzonite and quartz

diorite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Plutonic Řocks COMMENTS: Situated at the eastern margin of the Coast Plutonic Complex.

CAPSULE GEOLOGY

The Wayne showing is located on the east end of Dawson Ridge about 8.5 kilometres south of the town of Alice Arm. This occurrence was explored for molybdenum in the mid 1960's.

The region is underlain by Eocene Coast Plutonic Complex rocks

intruding Middle Jurassic Spatsizi Group argillite, shale, siltstone, These sediments have been folded and greywacke and conglomerate. altered to biotite hornfels.

The area of the showing is underlain by medium-grained quartz diorite, younger leucocratic and locally porphyritic quartz monzonite and northeast striking fine-grained andesitic dykes. Narrow alaskite and pegmatite dykes cut the quartz diorite and quartz monzonite. these rocks are intruded by lamprophyre dykes.

The showing comprises scattered molybdenite rosettes in east This trending 13 centimetre wide veins of alaskite and drusy quartz. showing occurs in a south facing slope, 610 metres southeast of a small lake on the east end of Dawson Ridge. Molybdenite is contained in 3 centimetre wide lenses of alaskite 120 metres to the west.

**BIBLIOGRAPHY** 

EM ASS RPT 20570

EMPR AR 1964-24-30; 1966-50; \*1967-47

EMPR BULL 63

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR PF (Geological Map) GSC MAP 307A; 1385A

DATE CODED: 1989/02/27 DATE REVISED: 1997/04/07 CODED BY: PSF REVISED BY: DA FIELD CHECK: N FIELD CHECK: Y

MINFILE NUMBER: 103P 151

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 152 NATIONAL MINERAL INVENTORY: 103P6 Cu7

NAME(S): QUARTZ-HANNA, HANNA, QUARTZ

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P05W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 27 14 N NORTHING: 6145612 LONGITUDE: 129 49 33 W ELEVATION: 0366 Metres EASTING: 447771

LOCATION ACCURACY: Within 500M

COMMENTS: As shown on 1986 Anyox map (Property File - Alldrick, D.).

COMMODITIES: Copper 7inc Silver Gold I ead

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite Galena Sphalerite

COMMENTS: Disseminated.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant Epigenetic

CLASSIFICATION: Hydrothermal TYPE: I02 Intrus L01 Subvolcanic Cu-Ag-Au (As-Sb) Intrusion-related Au pyrrhotite veins DIMENSION: 0600 x 0005 STRIKE/DIP: 170/62E Metres TREND/PLUNGE:

COMMENTS: The vein, 1.8 to 5.5 metres wide, has been traced for 600 metres, strikes 170 degrees and dips between 55 and 70 degrees east.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation Upper Triassic Undefined Formation Kunga

LITHOLOGY: Argillite

Greenstone

HOSTROCK COMMENTS: Host rocks are correlative with either the Hazelton or Kunga Groups.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Bowser Lake
METAMORPHIC TYPE: Regional Wrangell RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in a roof pendant within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1918

> SAMPLE TYPE: Grab **COMMODITY** GRADE

Silver 61.7000 Grams per tonne 0.3400 Gold Grams per tonne Copper 0.1000 Per cent

COMMENTS: Well mineralized sample of the quartz vein.

REFERENCE: Property File - Bancroft, J.A. (1918), page 57.

CAPSULE GEOLOGY

The Quartz-Hanna showing is located about 3.0 kilometres west of the Hastings Arm of Observatory Inlet, between Carney and Upper Dam Lakes. The showing is located about 580 metres east of the Deadwood

occurrence (103P 243).

The area of the showing is underlain by the western margin of a 14.4 by 9.6 kilometre roof pendant within the Coast Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group, (Grove, T., 1986), but have also been correlated with the Upper Triassic Kunga Group sediments and Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J. (1980) M.Sc. Thesis).

The volcanics (Sharp, R.O. (1700, M.SC. 1805). The volcanics comprise mafic flows and tuffs that have been ably chloritized to greenstone. The overlying sediments comprise that have been applied to greenstone, minor chert and limestone. These variably chloritized to greenstone. argillite, siltstone, sandstone, minor chert and limestone.

rocks are deformed by two phases of folding which trend northeast.

The showing consists of a well defined quartz vein in argillite, about 90 to 120 metres east of the greenstone/argillite contact. The vein, 1.8 to 5.5 metres wide, parallels bedding with a strike of 170

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

degrees, dipping 55 to 70 degrees east. The vein has been exposed for 600 metres along strike by stripping and trenching. The vein consists of barren to sparsely mineralized milky white quartz, with traces of disseminated pyrite, pyrrhotite, chalcopyrite, galena and sphalerite. A well mineralized sample from the vein assayed 0.10 per cent copper, 61.7 grams per tonne silver and 0.34 grams per tonne gold (Property File - Bancroft, J.A. (1918) Report, p. 57).

#### **BIBLIOGRAPHY**

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DATE CODED: 1989/01/31 DATE REVISED: 1997/04/07 CODED BY: PSF REVISED BY: DA FIELD CHECK: N FIELD CHECK: Y

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 153

NATIONAL MINERAL INVENTORY: 103P6 Zn1

NAME(S): LONE STAR, BEL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1194

LATITUDE: 55 28 56 N

NORTHING: 6148536 EASTING: 473298

LONGITUDE: 129 25 21 W ELEVATION: 274 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of tunnel (Minister of Mines Annual Report 1918, page

68). Location somewhat uncertain.

COMMODITIES: Gold Silver 7inc Lead

SIGNIFICANT: Pyrite Arsenopyrite Sphalerite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym SIFICATION: Hydrothermal Epigenetic
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au
DIMENSION: 0460 x 0007 Metres

STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Vein strikes north-northeast for 460 metres and is up to 7.6

metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE GROUP Stuhini IGNEOUS/METAMORPHIC/OTHER Upper Triassic **Undefined Formation** 

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Lonestar showing is located on the south slope of Wilauks Mountain, 4.25 kilometres due east of Alice Arm. The area was

explored for gold, by tunnelling and trenching, in 1918.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. This assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing is hosted in Stuhini Group argillite near the contact with augite porphyritic basaltic flows which are situated on the western limb of the Mt. McGuire anticline. A quartz vein, up to 7.6 metres wide, contains bands of white quartz and strikes northnortheast for 460 metres. Mineralization consists of pyrite, minor arsenopyrite and sphalerite. A grab sample from the dump of an adit assayed low values in gold and silver (Minister of Mines Annual Report 1918, p. 68).

Across a small creek from the adit, quartz stringers mineralized with galena and sphalerite are found cutting schistose argillite. The argillite strikes 030 degrees and dips 75 degrees northwest.

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EMPR AR \*1918-68; 1966-47,48

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 70

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/08 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 153

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 154

NATIONAL MINERAL INVENTORY: 103P6 Zn1

NAME(S): **SILVER BELL**, BEL

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P06W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

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1195

LATITUDE: 55 28 49 N

NORTHING: 6148320 EASTING: 473192

LONGITUDE: 129 25 27 W ELEVATION: 244 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Based on location of showing as described in Minister of Mines Annual Report 1918, page 68. Location somewhat uncertain.

COMMODITIES: Zinc Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: 105 Polym

STRIKE/DIP: 015/60E DIMENSION: 0005 Metres TREND/PLUNGE:

COMMENTS: Attitude of dyke, 4.6 metres wide, containing mineralized quartz

stringers.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE GROUP IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Argillite

Diŏritic Dike

HOSTROCK COMMENTS: Mineralization contained in a dioritic dyke within argillite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1918

SAMPLE TYPE: Grab **GRADE** 

COMMODITY Silver 21.0000 Grams per tonne 7inc 2.8000 Per cent

COMMENTS: Grab sample from adit dump, trace lead. REFERENCE: Minister of Mines Annual Report 1918, page 68.

CAPSULE GEOLOGY

The Silver Bell showing is located on the south slope of Wilauks Mountain, 4.25 kilometres due east of Alice Arm. The showing lies immediately southwest of the Lonestar occurrence (103P 153). The area was explored by trenching and tunnelling for lead, zinc and silver mineralization in 1918.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. Thi assemblage has been folded into a north-northwest trending anticline This (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing is hosted in Stuhini Group argillite situated on the western limb of the Mt. McGuire anticline. A 4.6 metre wide dyke in the argillite strikes 015 degrees and dips 55 to 60 degrees east. The dyke contains stringers, bands and blebs of quartz mineralized with pyrite, sphalerite and galena. A sample from an adit dump assayed 21 grams per tonne silver, trace lead and 2.8 per cent zinc (Minister of Mines Annual Report 1918, p. 68).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR \*1918-68; 1966-47,48 EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, pp. 77

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/08 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 154

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 155

NATIONAL MINERAL INVENTORY: 103P11 Cu5

NAME(S): SAN DIEGO, DAK, TOTAL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P11W BC MAP: LATITUDE: 55 31 44 N

NORTHING: 6153735 EASTING: 472348

PAGE:

REPORT: RGEN0100

1197

LONGITUDE: 129 26 17 W ELEVATION: 274 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location based on description of showing in Minister of Mines

Annual Report 1916, page 69.

COMMODITIES: Copper Gold

MINERALS SIGNIFICANT: Pyrite Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Epigenetic

TYPE: 102 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Undefined Formation

LITHOLOGY: Tuffaceous Sandstone

Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YEAR: 1916 Assav/analysis SAMPLE TYPE: Drill Core

COMMODITY **GRADE** 

Gold 2.4000 Grams per tonne Copper 1.9000 Per cent

COMMENTS: From Hole 2 between 3.66 and 7.32 metres. REFERENCE: Minister of Mines Annual Report 1916, page 69.

**CAPSULE GEOLOGY** 

The San Diego showing is located on the northwest slope of Wilauks Mountain, about 6.0 kilometres northeast of Alice Arm. The area was originally explored for copper in 1916, and more recently during the mid 1960's.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. This assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing is hosted in tuffaceous sandstones and argillites of the Hazelton Group crosscut by narrow dykes. The showing consists of pyritic sandstone, with irregularly distributed chalcopyrite, interbedded with barren argillite. A sample from drill hole Number 2 assayed 2.40 grams per tonne gold and 1.9 per cent copper between 3.66 and 7.32 metres (Minister of Mines Annual Report 1916, p. 69). A 12 metre chip sample taken 7.6 metres below where the drill holes were collared assayed 1.99 grams per tonne gold and 0.7 per cent copper (Minister of Mines Annual Report 1916, p. 70). The showing is now largely covered by slide material.

**BIBLIOGRAPHY** 

EM ASS RPT 21892

EMPR AR \*1916-69,70; 1966-47,48; 1967-43

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243

EMPR GEM 1971-123,124 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (Mayfair Moly Mines, Map) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 77

WWW http://www.infomine.com/index/properties/FH\_CLAIMS.html

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/02 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 155

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 156

NATIONAL MINERAL INVENTORY:

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

1199

NAME(S): **SUSANNE**, HANNA

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E 103P12W BC MAP:

LATITUDE: 55 41 03 N NORTHING: 6171118 EASTING: 459376

LONGITUDE: 129 38 46 W ELEVATION: 1029 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of rock sample 66073 (Assessment Report 12122, Figure 5).

COMMODITIES: Gold Silver

**MINERALS** 

SIGNIFICANT: Pyrite

COMMENTS: Also unidentified steel blue mineral present.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I02 Intrus **Epigenetic** 

Intrusion-related Au pyrrhotite veins DIMENSION: 0050 x 0002 STRIKE/DIP: 020/80 TREND/PLUNGE: Metres

COMMENTS: Attitude of veins in 2 metre wide, 50 metre long shear zone.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

GROUP Stuhini **FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Upper Triassic Undefined Formation

LITHOLOGY: Black Argillite Black Siltstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1983 Assay/analysis

COMMODITY **GRADE** 

3159,0000 Grams per tonne Silver 45.6600 Gold Grams per tonne

COMMENTS: Grab sample of boulder from shear zone. REFERENCE: Assessment Report 12122, page 5.

CAPSULE GEOLOGY

The Susanne showing is located on the west side of Long Creek, just southeast of O'Neil Creek, 24.5 kilometres north-northwest of Alice Arm. The showing was discovered in 1983, by Canadian-United Minerals Inc.

The area is underlain by volcanics and sediments of the Upper Triassic Stuhini Group and the Lower Jurassic Hazelton Group intruded by Coast Plutonic Complex rocks.

The showing consists of a 2.0 metre wide shear zone exposed for 50 metres in black argillite and siltstone of the Stuhini Group. The zone contains a series of quartz veins, up to 30 centimetres in diameter, that strike 020 degrees and dip 80 degrees east. The veins are mineralized with pyrite and an unidentified steel blue mineral. A grab sample from a boulder in the shear zone assayed 45.66 grams per tonne gold and 3159 grams per tonne silver (Assessment Report 12122, p. 5). Three short diamond-drill holes failed to intersect the continuation of this shear zone.

**BIBLIOGRAPHY** 

EMPR ASS RPT 10296, 11081, \*12122, \*15602

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 1385A GCNL #55,#132, 1985 N MINER Jul.18, 1985 NAGMIN Jun.7,Jul.19, 1985 IPDM May/June 1985, p. 15

DATE CODED: 1989/03/31 DATE REVISED: 1989/11/15 CODED BY: PSF REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 156

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 157 NATIONAL MINERAL INVENTORY: 103P6 Pb6

NAME(S): THEDA BARA, BEBE DANIELS, SILVER BOW-MCC

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 23 46 N LONGITUDE: 129 28 53 W ELEVATION: 1036 Metres NORTHING: 6138977 EASTING: 469510

LOCATION ACCURACY: Within 500M

COMMENTS: Location of southern adit (Property File - Marshall Creek Copper, 1967

Plate 2).

COMMODITIES: Silver Cadmium 7inc I ead Gold

Nickel

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Galena Sphalerite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Massive

Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 006/80W TREND/PLUNGE:

COMMENTS: Attitude of shear zone containing quartz veins 0.3 to 1.2 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Middle Jurassic Spatsizi Undefined Formation

LITHOLOGY: Argillite

Granodiorite Dike Lamprophyre Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Contact Bowser Lake **RELATIONSHIP:** GRADE: Hornfels

COMMENTS: Situated in Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1965

SAMPLE TYPE: Grab **GRADE** 

COMMODITY Silver 216.0000 Grams per tonne Gold 0.3400 Grams per tonne 0.7000 Cadmium Per cent Per cent Lead 3.0000

Zinc 13.8000 Per cent

COMMENTS: Grab sample from ore dump at upper adit. REFERENCE: Marshall Creek Copper Co. 1965 Annual Report, page 7.

**CAPSULE GEOLOGY** 

The Theda Bara showing is located about 9.5 kilometres due south of Alice Arm near the headwaters of Roundy Creek. The area was  $\,$ investigated for base and precious metals during the 1920's and again

during the 1960's.

The region is underlain by Coast Plutonic rocks intruding Middle
Jurassic Spatsizi Group argillite, shale, siltstone, greywacke and conglomerate. The sediments have been folded and altered to biotite hornfels.

The showing consists of north-northeast striking quartz veins, less than 0.3 to 1.2 metres wide, in a shear zone. The zone strike 006 degrees, dips 80 degrees west and is developed in argillite The zone strikes intruded by granodioritic and lamprophyre dykes. The veins contain variable amounts of pyrite, pyrrhotite, sphalerite and galena. grab sample from the ore dump at the upper of two adits contained 0.34 grams per tonne gold, 216 grams per tonne silver, 13.8 per cent zinc, 3.0 per cent lead and 0.70 per cent cadmium (Property File

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Marshall Creek Copper Annual Report 1965, p. 7). The shear zone is likely the southward extension of the shear zone hosting the Keystone likely the southward extension of the shear zone hosting the Keystone showing (103P 115), 1700 metres to the north.

A 1.2 to 1.5 metre wide quartz vein, 240 metres to the south of the adits, lies along a dioritic/gabbroic dyke and strikes 030 degrees. The vein contains a near massive lense of pyrrhotite. Samples are reported to assay trace gold, 51 grams per tonne silver (Minister of Mines Annual Report 1924, p. 51) and trace gold and silver, 0.25 per cent nickel (Minister of Mines Annual Report 1927, p. 70) p. 70).

#### **BIBLIOGRAPHY**

EM ASS RPT 20570 EMPR AR 1923-54; \*1924-51,52; \*1927-70; 1964-24-30; 1966-50; 1968-65 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2
EMPR OF 1986-2
EMPR FF (\*Marshall Creek Copper Co. Ltd. Annual Reports 1965;

\*Marshall Creek Copper, Geology Map, 1967)
EMR MP CORPFILE (Marshall Creek Copper Co. Ltd.) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 82

DATE CODED: 1989/02/26 DATE REVISED: / /

CODED BY: PSF REVISED BY:

FIELD CHECK: N FIELD CHECK:

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 158

NATIONAL MINERAL INVENTORY: 103P11 Zn4

NAME(S): IXL, WAR DANCE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1203

LATITUDE: 55 33 03 N

NORTHING: 6156163 **EASTING: 474747** 

LONGITUDE: 129 24 01 W ELEVATION: 396 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of War Dance claim (Minister of Mines Annual Report 1919

p. 56).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Concordant

CLASSIFICATION: Hydrothermal TYPE: 102 Intrus Epigenetic Intrusion-related Au pyrrhotite veins

Polymetallic veins Ag-Pb-Zn±Au 105 STRIKE/DIP: 150/37E TREND/PLUNGE:

DIMENSION: COMMENTS: Series of parallel quartz veins striking 150 degrees and dipping

35 to 40 degrees to the east.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP** Upper Triassic

Stuhini

**FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Argillite Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine

PHYSIOGRAPHIC AREA: Boundary Ranges

METAMORPHIC TYPE: Regional

RELATIONSHIP: COMMENTS: Situated at the south end of the Stewart Complex.

GRADE: Greenschist

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1919

SAMPLE TYPE: Chip

**GRADE** 

COMMODITY Silver Gold

34.0000 Grams per tonne 7.3000 Grams per tonne

Copper

1.4000 Per cent

COMMENTS: Chip sample taken across 0.61 metre wide quartz vein. REFERENCE: Minister of Mines Annual Report 1919, page 57.

CAPSULE GEOLOGY

The IXL showing is located on the north bank of the Dak River, 9.0 kilometres northeast of Alice Arm. The area was investigated for base and precious metals in the early 1900's.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. This assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing comprises a series of parallel quartz veins developed in argillite of the lower sedimentary unit of the Stuhini Group. The veins, up to 0.61 metres wide, are developed along the bedding of the argillite, striking 150 degrees and dipping 35 to 40 degrees east. A sample taken across a 0.61 metre wide quartz vein assayed 7.30 grams per tonne gold, 34 grams per tonne silver and 1.4

per cent copper (Minister of Mines Annual Report 1919, p. 57).

**BIBLIOGRAPHY** 

EMPR AR \*1919-56,57; 1927-74

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR FIELDWORK 1965, pp. 2 EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, pp. 68,85

DATE CODED: 1985/07/24 DATE REVISED: 1989/02/27 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

I ead

MINFILE NUMBER: 103P 159

NATIONAL MINERAL INVENTORY: 103P11 Zn3

NAME(S): SILVER CHORD, SILVER BAR

STATUS: Prospect REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

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1205

NTS MAP: 103P11W
BC MAP:
LATITUDE: 55, 32, 28, N

NORTHING: 6155082 EASTING: 474548

LATITUDE: 55 32 28 N LONGITUDE: 129 24 12 W ELEVATION: 424 Metres

ELEVATION: 424 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of upper adit (Minister of Mines Annual Report 1927 pp.

74, 71).

COMMODITIES: Zinc Silver

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite Galena

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia
CLASSIFICATION: Hydrothermal Epigenetic
TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0150 x 0007 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Vein and quartzose zone, 7.6 metres wide, strike north and dip

vertically and steeply west, respectively.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE
Upper Triassic

GROUP
Stuhini

FORMATION
Undefined Formation

IGNEOUS/METAMORPHIC/OTHER
Undefined Formation

LITHOLOGY: Argillite

Argillaceous Quartzite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Silver Chord showing is located on the Dak River, about 8.5 kilometres northeast of Alice Arm. The area was sporadically but extensively investigated for zinc between 1919 and 1967.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. This assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing, consisting of one quartz vein and one quartzose zone/vein, is hosted in north striking Stuhini Group argillite and argillaceous quartzite crosscut by narrow lamprophyre dykes.

The vein strikes north, dips vertically and is of variable width. On the surface, a 1.0 metre wide, 10 metre long shoot of sphalerite mineralization is exposed. The vein displays variable sulphide mineralization in a short adit.

The quartzose zone/vein, about 100 metres west, strikes north and dips steeply west. The zone is at least 150 metres long and occurs as a zone of quartz and calcite veins and stringers in brecciated country rock. The zone, 0.3 to 7.6 metres wide, is associated with a narrow lamprophyre dyke. At its widest point the zone consists of 80 per cent country rock and 20 per cent vein material. As the zone narrows, the vein content increases as the individual veins and stringers coalesce, resulting in a distinct vein free of wallrock in the narrower portions of the zone. Mineralization comprises variable amounts of sphalerite and minor pyrite and galena. Narrow streaks in this vein/zone are reported to contain high silver values (Minister of Mines Annual Report 1927, p. 73).

**BIBLIOGRAPHY** 

EMPR AR 1919-57; 1922-62; 1923-61; \*1927-73,74; 1928-89; 1966-47,48;

MINFILE NUMBER: 103P 159

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

1967-43 EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM \*175, p. 78 GSC SUM RPT 1928A, p. 39

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 160

NATIONAL MINERAL INVENTORY: 103P11 Cu4

NAME(S): RED BLUFF, TOTAL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P11W BC MAP: LATITUDE: 55 33 14 N

NORTHING: 6156522 EASTING: 471735

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1207

LONGITUDE: 129 26 53 W ELEVATION: 872 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit as shown on Figure 3, Assessment Report 9295.

COMMODITIES: Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

COMMENTS: Occur as disseminations and along fractures.

ALTERATION: Sericite Clay Carbonate

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown Carbonate Argillic Silicific'n

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal TYPE: I02 Intrus

Epigenetic

Intrusion-related Au pyrrhotite veins L01 Subvolcanic Cu-Ag-Au (As-Sb)

COMMENTS: Showing hosted in a northwest trending 4 by 0.7 kilometre body of

volcanič rock.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Feldspar Porphyritic Dacite Feldspar Porphyritic Andesite

Andesitic Dike

Host rock consists of a pyritic, fractured, feldspar to feldspar-hornblende porphyritic dacitic to andesitic volcanic. HOSTROCK COMMENTS:

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: ADIT REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1967 Assay/analysis

**GRADE** COMMODITY

Silver 27.0000 Grams per tonne

0.4000 Per cent Copper

COMMENTS: A 1.8 metre chip sample taken at adit entrance, trace gold.

REFERENCE: Minister of Mines Annual Report 1967, page 42.

CAPSULE GEOLOGY

The Red Bluff showing is located between Gumas and Washout creeks, 8.0 kilometres northeast of Alice Arm. The area has been investigated extensively for copper and molybdenum.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. Thi assemblage has been folded into a north-northwest trending anticline This (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing consists of a unit of pyritized feldspar to feldspar hornblende porphyritic andesitic to dacitic volcanic, informally called the Copper Belt. This unit, of the Hazelton Group, is 0.7 by 4.0 kilometres in size and trends northwest. It is bounded to the east and west by north to northwest striking, moderately to steeply dipping beds of argillite, siltstone, greywacke and conglomerate. The porphyritic volcanic has been subjected to sericitization, silicification and carbonate and argillic alteration. It occurs in a

RUN DATE: 26-Jun-2003 MINFILE MASTER | GEOLOGICAL SURVEY

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

zone of intense fracturing and shearing accompanied by numerous north to northeast striking andesitic dykes.

The mineralogy is characterized by disseminations, veins and fracture coatings of pyrite that comprises up to 15 per cent of the volcanic. Minor chalcopyrite occurs locally along fractures and as disseminations. A chip sample taken across 1.8 metres at the entrance of a short adit in the iron oxide stained bluffs above Gumas Creek, assayed trace gold, 27 grams per tonne silver and 0.40 per cent copper (Minister of Mines Annual Report 1967, p. 42). Minor scheelite is reported to have been found just east of here. The mineralization of this occurrence is similar to that of other occurrences in the Copper Belt of the upper Kitsault Valley.

#### **BIBLIOGRAPHY**

EMPR AR 1916-70; 1922-61,62; 1929-88; \*1967-42,48,49

EMPR ASS RPT 1194, 1242, \*9295

EMPR BULL 10, p. 56; 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1971-123,124

EMPR MAP 8

EMPR OF 1986-2

EMR MP CORPFILE (Nadina Explorations Ltd.; Northlodge Copper Mines Ltd.)

GSC MAP 307A; 315A; 1385A

GSC MEM 32, p. 92; 175, p. 75

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/02/27 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 160

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 161

NATIONAL MINERAL INVENTORY: 103P11 Cu4

NAME(S): FOX

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1209

LATITUDE: 55 32 45 N

NORTHING: 6155620 EASTING: 472500

LONGITUDE: 129 26 09 W ELEVATION: 515 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location based on description of showing given in Minister of Mines Annual Report 1929, page 89. Location somewhat uncertain.

COMMODITIES: Zinc Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite COMMENTS: Disseminated, trace gold and lead.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown Barite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Disseminated Epigenetic

Polymetallic veins Ag-Pb-Zn±Au 110 Vein barite

COMMENTS: Quartz-barite vein strikes west for at least 180 metres.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

GROUP Hazelton IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** Lower Jurassic Undefined Formation

LITHOLOGY: Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1929 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver 6.8000 Grams per tonne 5.1000 7inc

Per cent COMMENTS: A 0.61 metre chip sample taken across vein, trace gold and lead. REFERENCE: Minister of Mines Annual Report 1929, page 89.

**CAPSULE GEOLOGY** 

The Fox showing is located between Gumas and Washout Creeks, about 11.0 kilometres northeast of Alice Arm.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. This assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist facies.

The showing consists of a quartz-barite vein which has been traced west for about 180 metres in Hazelton Group porphyritic andesite. The vein is reported to contain irregular disseminations of sphalerite, pyrite and minor galena. A chip sample taken across 0.61 metres of the vein assayed trace gold, 6.8 grams per tonne silver, nil copper, trace lead and 5.1 per cent zinc (Minister of Mines Annual Report 1929, p. 88) Mines Annual Report 1929, p.89).

**BIBLIOGRAPHY** 

EMPR AR \*1929-89

EMPR ASS RPT 1194, 1242, 9295

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1986-2 EMR MP CORPFILE (Nadina Explorations Ltd.; Northlodge Copper Mines

Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 65
WWW http://www.infomine.com/index/properties/FH\_CLAIMS.html

DATE CODED: 1985/07/24 DATE REVISED: 1989/02/27 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 161

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 162 NATIONAL MINERAL INVENTORY: 103P11 Cu4

NAME(S): OBSERVER, RED BLUFF

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 34 15 N NORTHING: 6158404 LONGITUDE: 129 26 22 W EASTING: 472290

ELEVATION: 853 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of vein (Minister of Mines Annual Report 1929 p.89).

COMMODITIES: Silver 7inc Copper Gold I ead

**MINERALS** 

Sphalerite Chalcopyrite Galena Arsenopyrite

SIGNIFICANT: Pyrite COMMENTS: Trace gold.

ASSOCIATED: Quartz **Barite** Carbonate MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: I02 Intrus Epigenetic Replacement

105 Intrusion-related Au pyrrhotite veins Polymetallic veins Ag-Pb-Zn±Au

110 Vein barite

DIMENSION: STRIKE/DIP: 063/40W TREND/PLUNGE:

COMMENTS: Attitude of siliceous replacement zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Augite Porphyritic Andesite Tuff

Greywacke

**GEOLOGICAL SETTING** TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1929 SAMPLE TYPE: Grab

GRADE

COMMODITY Silver 110.0000 Grams per tonne Zinc 8.7000 Per cent

COMMENTS: Sample from brecciated quartz vein, trace gold. REFERENCE: Minister of Mines Annual Report 1929, page 89.

CAPSULE GEOLOGY

The Observer showing is located between Gumas and Washout Creeks, about 10.0 kilometres northeast of Alice Arm. Various showings in this area have been prospected for base and precious metals.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Jurassic Spatsizi Group.

assemblage has been folded into a north-northwest trending anticline (Mt. McGuire anticline) and regionally metamorphosed to greenschist

facies.

The showing comprises a number of quartz, quartz-carbonate, quartz-barite and barite veins, breccias and a silicious replacement The country rock consists of Hazelton Group augite porphyritic andesite, greywacke and tuff.

A quartz vein, 0.55 metres wide, occurs at 853 metres elevation on the west bank of Washout Creek. The vein is mineralized with pyrite, chalcopyrite, arsenopyrite and sphalerite. A sample from this vein assayed trace gold, 27 grams per tonne silver and 1.1 per cent copper over 0.55 metres (Minister of Mines Annual Report 1929,

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

# GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

p. 89). A quartz-barite vein, similar to the Fox showing (103P  $\,$  161), occurs 230 metres to the southwest at 968 metres elevation. Mineralization consists of chalcopyrite and pyrite. A sample assayed

trace gold, trace silver and 0.2 per cent copper (Minister of Mines Annual Report 1929, p. 89).

A silicious replacement zone, 2.0 metres wide, strikes 063 degrees and dips 40 degrees west at 975 metres elevation. Veinlets and disseminations of chalcopyrite and pyrite occur in bluish quartz. A 2.0 metre chip sample assayed trace gold, 3.4 grams per tonne silver and 0.9 per cent copper (Minister of Mines Annual Report 1929, p. 89).

A brecciated quartz vein, 1.2 metres wide, strikes 168 degrees for up to 100 metres and dips 45 degrees east between 1067 and 1173 metres elevation. The vein is mineralized, along the hangingwall, with sphalerite, pyrite and galena over widths of 0.20 to 0.51 metres. A grab sample assayed trace gold, 110 grams per tonne silver and 8.7 per cent zinc (Minister of Mines Annual Report 1929, p. 89).

At 1128 metres elevation, a barite breccia zone contains sphalerite, galena and minor chalcopyrite. A sample assayed trace gold, 30.8 grams per tonne silver, 0.04 per cent copper, 0.6 per cent lead and 2.9 per cent zinc over 3.0 metres (Minister of Mines Annual Report 1967, p. 49).

#### **BIBLIOGRAPHY**

EMPR AR \*1929-89; \*1967-49 EMPR ASS RPT 1194, 1242, 9295 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2 EMR MP CORPFILE (Nadina Explorations Ltd.; Northlodge Copper Mines Ltd.) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 75

DATE CODED: 1985/07/24 DATE REVISED: 1989/02/27 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIFLD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Gold

Molybdenite

MINFILE NUMBER: 103P 163

NATIONAL MINERAL INVENTORY: 103P11 Mo1

NAME(S): **LE ROY** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1213

LATITUDE: 55 35 13 N NORTHING: 6160181 EASTING: 474998

LONGITUDE: 129 23 48 W ELEVATION: 732 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Center of large vein, somewhat uncertain (Minister of Mines Annual

Report 1927, p. 74).

Lead

COMMODITIES: Zinc Copper Silver Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Tetrahedrite Sphalerite Galena

Chalcopyrite

ASSOCIATED: Quartz

**Epidote** Garnet Albite

ALTERATION: Quartz
ALTERATION TYPE: Skarn
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Skarn Epigenetic

K02 Polymetallic veins Ag-Pb-Zn±Au TYPE: 105 Pb-Zn skarn

K04 Au skarn

COMMENTS: Mineralized quartz vein is flat-lying.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER <u>GROUP</u> Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Altered Sediment/Sedimentary

Quartz Monzonite

Skarn

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Contact RELATIONSHIP:

GRADE: Hornfels COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1926 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY

COMMENTS: Grad is zinc equivalent for gold, silver, lead and zinc.

REFERENCE: Minister of Mines Annual Report 1926, page 81.

CAPSULE GEOLOGY

The Le Roy showing is located on the east slope of Mt. McGuire

Per cent

about 11.0 kilometres north-northeast of Alice Arm.

The showing consists of a flat lying vein developed in skarn altered Upper Triassic Stuhini Group sediments. The quartz-albite-epidote-garnet skarn alteration is the result of the intrusion of four small, closely spaced, quartz monzonite stocks just west of the showing. These stocks host the Ajax molybdenum deposit (103P 223). The quartz vein is mineralized with pyrite, sphalerite, galena and tetrahedrite. A grab sample assayed from 23.37 per cent to 50.87 per cent zinc equivalent for gold, silver, lead and zinc (Minister of Mines Annual Report 1926, p. 81). In the vicinity, numerous small flat lying quartz veins and veinlets contain variable quantities of

molybdenite, pyrite, pyrrhotite and rare chalcopyrite.

**BIBLIOGRAPHY** 

EMPR AR \*1926-79,81; \*1927-74; 1928-89

EMPR BULL 63

MINFILE NUMBER: 103P 163

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

235-243 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (Newmont, Geology Maps) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 70

DATE CODED: 1985/07/24 DATE REVISED: 1989/02/10 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 163

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 164

NATIONAL MINERAL INVENTORY: 103P11 Mo1

PAGE:

NORTHING: 6160125 EASTING: 473929

REPORT: RGEN0100

1215

NAME(S): IDA

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 35 11 N LONGITUDE: 129 24 49 W ELEVATION: 1338 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location determined from Minister of Mines Annual Report 1919 p. 56.

COMMODITIES: Zinc. I ead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal
TYPE: 105 Polym hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

COMMENTS: Mineralized quartz vein is flat-lying.

**HOST ROCK** 

DOMINANT HOSTROCK: Metasedimentary

STRATIGRAPHIC AGE <u>GROU</u>P **FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Biotite Hornfels

Quartz Monzonite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Hornfels

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Ida showing is located on the northeast slope of Mt.

McGuire, about 11.0 kilometres northeast of Alice Arm.

The showing consists of an outcrop containing a persistent flat lying 5 to 30 centimetre wide quartz vein. The vein is developed in biotite hornfelsed sediments of the Upper Triassic Stuhini Group. Contact metamorphism of the sediments is a result of the intrusion of four small, closely spaced, quartz monzonite stocks just east of the Ida showing. These stocks host the Ajax molybdenum deposit (103P Ida showing. These stocks host the Ajax molybdenum deposit 223). The vein is mineralized with sphalerite and traces of

disseminated galena.

**BIBLIOGRAPHY** 

EMPR AR 1916-71; \*1919-56

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR OF 1986-2 EMPR PF (Newmont, Geology Map)

GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 68

DATE CODED: 1985/07/24 DATE REVISED: 1989/02/10 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 164

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 165

NATIONAL MINERAL INVENTORY: 103P12 Cu3

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6177019 EASTING: 463338

REPORT: RGEN0100

1216

NAME(S): IRON-KITSAULT, IRON, PORCUPINE FRACTION, LUCKY STRIKE

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P12E

BC MAP: LATITUDE:

LONGITUDE: 129 35 02 W ELEVATION: 1082 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of claim and showing (Minister of Mines Annual Report

1922, page 57).

COMMODITIES: Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Chalcopyrite

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown Calcite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: 102 Intrusi Epigenetic

Intrusion-related Au pyrrhotite veins L01 S STRIKE/DIP: 070/90 Subvolcanic Cu-Ag-Au (As-Sb) Metres TREND/PLUNGE:

DIMENSION: 0004 Me COMMENTS: Shear zone 3.7 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> CATEGORY: YEAR: 1922 Assay/analysis SAMPLE TYPE: Grab

**COMMO**DITY **GRADE** 

Silver 295,0000 Grams per tonne Gold 3.9800 Grams per tonne 2.0000 Per cent Copper

COMMENTS: Grab sample of well mineralized quartz from shear zone.

REFERENCE: Minister of Mines Annual Report 1922, page 57.

**CAPSULE GEOLOGY** 

The Iron-Kitsault showing is located 1.25 kilometres northeast of the West Kitsault River, 29.5 kilometres north-northwest of the

town of Alice Arm.

The showing consists of several shear zones hosted in plagioclase hornblende porphyritic andesite of the Lower Jurassic Hazelton Group. One 3.7 metre wide shear zone contains abundant pyrite and chalcopyrite. A second 3.7 metre wide shear zone, 76 metres to the east, strikes 070 degrees and dips 90 degrees. This zone is mineralized with pyrite and chalcopyrite and minor galena and sphalerite in a gangue of quartz and calcite. A grab sample of well mineralized quartz from this shear zone assayed 3.98 grams per tonne gold, 295 grams per tonne silver and 2.0 per cent copper (Minister of Mines Annual Report 1922, p. 57).

**BIBLIOGRAPHY** EM EXPL 2001-1-9

EMPR AR \*1922-57; 1926-82; 1929-87 EMPR ASS RPT 8166, 9076, 16034, 18657

EMPR BULL 63

EMPR EXPL 1980-409,410; 1987-C364

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8

EMPR MAP 6 EMPR OF 1986-2 EMPR PF (Cambria Resources Ltd. Prospectus, 1987) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 71

DATE CODED: 1989/05/13 DATE REVISED: / / CODED BY: PSF REVISED BY: FIELD CHECK: N FIELD CHECK:

MINFILE NUMBER: 103P 165

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 166

NATIONAL MINERAL INVENTORY: 103P11 Zn2

NAME(S): RIVERSIDE, ZINC PROPERTY

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P11W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1218

LATITUDE: 55 34 32 N

NORTHING: 6158953 EASTING: 468808

LONGITUDE: 129 29 41 W ELEVATION: 107 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on an adit on Kitsault No. 1 (Minister of Mines

Annual Report 1916, pp. 56, 64).

COMMODITIES: Gold Silver 7inc Copper Lead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

Pyrite

Chalcopyrite Galena Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia

CLASSIFICATION: Hydrothermal TYPE: I02 Intrus Epigenetic

Intrusion-related Au pyrrhotite veins 105 Polymetallic veins Ag-Pb-Zn±Au

Subvolcanic Cu-Ag-Au (As-Sb) I 01

DIMENSION: 0009 STRIKE/DIP: Metres TREND/PLUNGE:

COMMENTS: Quartz-calcite vein strikes 053 degrees for at least 9 metres and

averages 0.3 metres in width.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Upper Triassic Stuhini Undefined Formation Löwer Jurassic Hazelton Undefined Formation

> LITHOLOGY: Argillite Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: LENS REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1916

SAMPLE TYPE: Grab COMMODITY **GRADE** 

Silver 274,0000 Grams per tonne Gold 10.0000 Grams per tonne

COMMENTS: Grab sample from quartz lens.

REFERENCE: Minister of Mines Annual Report 1916, page 64.

**CAPSULE GEOLOGY** 

The Riverside showing is located on the east bank of the Kitsault River, 10.5 kilometres due north of Alice Arm. The area was investigated in 1916.

The area is underlain by volcanics and sediments of the Upper Triassic Stuhini Group and the Lower Jurassic Hazelton Group which are deformed into northwest trending folds.

The showing comprises two main occurrences. The first consis of a vein, traced by an adit for 9 metres, hosted in Stuhini Group The first consists argillite. The vein strikes 053 degrees, averages 0.3 metres in width and contains sphalerite and minor chalcopyrite, galena and pyrite in a gangue of quartz, calcite and brecciated slate.

The second occurrence comprises a series of quartz lenses up to 0.9 metres in width hosted in Hazelton Group rocks. A sample from one of these lenses assayed 10 grams per tonne gold and 274 grams per tonne silver (Minister of Mines Annual Report 1916, p. 64).

**BIBLIOGRAPHY** 

EMPR AR \*1916-56,64

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL 63 EMPR FIELDWORK 1985, pp. 214-219; 1988, pp. 233-240; 1990, pp. 235-243

EMPR FIELDWORK 1905, pp. 214-213 EMPR MAP 8 EMPR OF 1986-2 EMR MP COMM FILE (MR-ZN-301.00) GSC MAP 207A; 315A; 1385A GSC MEM 175, p. 76

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/28 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 166

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 167

NAME(S): **SILVER WING**, B.J.

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 32 00 N LONGITUDE: 129 32 13 W ELEVATION: 823 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on showing in Jones Creek (Minister of Mines

Annual Report 1916, pp. 56, 63).

COMMODITIES: Silver Lead 7inc Copper

**MINERALS** 

SIGNIFICANT: Galena Sphalerite Chalcopyrite Pyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Vein nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: 105 Polym

DIMENSION: 0023 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Breccia zone strikes 148 degrees for 23 metres.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** Middle Jurassic Spatsizi Undefined Formation

LITHOLOGY: Brecciated Argillite **Brecciated Slate** 

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional Bowser Lake **RELATIONSHIP:** GRADE: Greenschist COMMENTS: Within the Bowser Lake sedimentary overlap on Stikinia Terrane.

INVENTORY

ORE ZONE: BRECCIA REPORT ON: N

> CATEGORY: Assa SAMPLE\_TYPE: Chip YEAR: 1916 Assay/analysis

COMMODITY

1264.0000 Grams per tonne Silver

COMMENTS: A 1.2 metre chip sample across the breccia zone, grade is silver

equivalent.

REFERENCE: Minister of Mines Annual Report 1916, page 63.

CAPSULE GEOLOGY

The Silver Wing showing is located on Jones Creek, 6.5 kilometres north-northwest of Alice Arm. The area was investigated for precious metals in 1916.

**GRADE** 

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. assemblage is folded into a north-northwest trending anticline-This

syncline pair.

The showing consists of quartz stringers in a breccia zone that strikes 148 degrees in Spatsizi Group argillite. The zone has been traced along Jones Creek for 23 metres. The quartz stringers contain minor galena, sphalerite, chalcopyrite and pyrite. A 1.2 metre chip sample taken across the breccia zone assayed 1264 grams per tonne silver equivalent (Minister of Mines Annual Report 1916, p. 63).

**BIBLIOGRAPHY** 

EMPR AR \*1916-56,63

EMPR ASS RPT 10803, 10951, 21141

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

PAGE:

NATIONAL MINERAL INVENTORY: 103P12 Pb6

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6154274

EASTING: 466110

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 80

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/28 CODED BY: GSB REVISED BY: PSF

FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 167

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 168

NATIONAL MINERAL INVENTORY: 103P12 Au2

NAME(S): **CAPE NOME (L.939)** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NTS MAP: 103P12E BC MAP: LATITUDE: 55 32 38 N LONGITUDE: 129 30 25 W ELEVATION: 107 Metres

NORTHING: 6155434 EASTING: 468012

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ELEVATION: 107 Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Center of tunnel on L. 939 (Minister of Mines Annual Report 1918

p. 57).

COMMODITIES: Gold Zinc

**MINERALS** 

SIGNIFICANT: Pyrite
ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 315/50E TREND/PLUNGE:

COMMENTS: Parallel quartz veins strike northwest, dip 50 degrees northeast.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Upper Triassic GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Black Siltstone Argillite

Slate

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges
TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Cape Nome showing is located on the west side of the Kitsault River, 7.0 kilometres north of Alice Arm on Lot 939. The area was explored in 1918 and 1919 for precious metals.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. This assemblage is folded into a north to northwest trending anticline-

syncline pair.

The showing consists of a 1.8 metre wide zone, in Stuhini Group black siltstone, that contains a series of parallel quartz veins. The veins, mineralized with pyrite, strike northwest and dip 50 degrees northeast. Good gold values are reported from the quartz veins (Minister of Mines Annual Report 1919, p. 52). A zinc showing is reported to have been found just west of here.

**BIBLIOGRAPHY** 

EMPR AR \*1918-57; 1919-52; 1926-446

EMPR ASS RPT 10803, 10951

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 57

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/03/23 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 168

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 169

NATIONAL MINERAL INVENTORY: 103P11 Ag9

NAME(S): TITRITE, SILVER CLIFF

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P11W BC MAP: LATITUDE: 55 32 58 N

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REPORT: RGEN0100

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LONGITUDE: 129 15 29 W ELEVATION: 1158 Metres

NORTHING: 6155966 EASTING: 483719

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of quartz vein (Minister of Mines Annual Report 1918 p.73).

COMMODITIES: Silver Copper Gold

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz Galena Chalcopyrite Arsenopyrite Argentite Calcite Barite

ALTERATION: Quartz Pyrite

ALTERATION TYPE: Silicific'n Pyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Breccia Epigenetic

Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 168/70N TREND/PLUNGE: COMMENTS: Attitude of 0.61 metre wide quartz vein.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Calcareous Tuff Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the eastern boundary of the Stewart Complex (Island Arc Assemblage)

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1918 Assay/analysis

COMMODITY Silver **GRADE** 206.0000 Grams per tonne

Copper Per cent 0.6000

COMMENTS: Grab sample from 0.20 metre wide quartz vein, trace gold.

REFERENCE: Minister of Mines Annual Report 1918, page 73.

**CAPSULE GEOLOGY** 

The Titrite showing is located east of the Illiance River, about 16.5 kilometres northeast of Alice Arm. Various showings in this area have been explored for gold, silver and copper since 1918.

The region is underlain by Lower Jurassic Hazelton Group

volcanics and sediments situated on the east limb of the north-northwest trending Mt. McGuire anticline. These rocks have been regionally metamorphosed to greenschist facies.

The showing comprises various occurrences hosted in interbedded reous tuff and breccia. The occurrences consist of quartz, calcareous tuff and breccia. quartz-calcite and barite veins varying from 0.20 to 1.8 metres wide. The veins contain variable amounts of sphalerite and galena with minor chalcopyrite, arsenopyrite and/or argentite. A 0.61 metre wide quartz vein strikes 168 degrees and dips 70 degrees northeast, and a 0.30 metre wide quartz-calcite vein strikes 098 degrees and dips 60 degrees south. A sample of a 0.20 metre wide quartz vein with chalcopyrite and trace argentite assayed trace gold, 206 grams per tonne silver and 0.6 per cent copper (Minister of Mines Annual Report 1918, p. 73). A sample of a brecciated quartz vein with sparse pyrite and galena, assayed trace gold and 54.9 grams per tonne silver (Minister of Mines Annual Report 1931, p. 39).

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

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**CAPSULE GEOLOGY** 

Several showings occur in a shear zone containing quartz and calcite stringers mineralized with pyrite and sphalerite. A  $1.8\,$ metre wide pyritized and silicified breccia zone containing minor chalcopyrite is reported to lie among the various vein showings.

**BIBLIOGRAPHY** 

EMPR AR \*1918-73; \*1930-90; \*1931-39

EMPR ASS RPT 10115, 19459 EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, pp. 78,83

DATE CODED: 1989/03/15 DATE REVISED: 1989/11/15 CODED BY: PSF REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 169

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 170 NATIONAL MINERAL INVENTORY: 103P12 Ag16

NAME(S): **LA ROSE**, BRITANNIA

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

LATITUDE:

55 33 57 N

LONGITUDE: 129 32 05 W ELEVATION: 625 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of shaft on vein (Assessment Report 10408 - Map).

COMMODITIES: Silver Gold 7inc Lead

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Arsenopyrite Galena Sphalerite

Tétrahedrite Ruby Silver Argentite Silver

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia Concordant

CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

Intrusion-related Au pyrrhotite veins 102 STRIKE/DIP: DIMENSION: 360/75F TREND/PLUNGE:

COMMENTS: Attitude of vein and shear zone at surface.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

GROUP Stuhini **FORMATION** IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE Upper Triassic Undefined Formation

LITHOLOGY: Black Siltstone

Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YEAR: 1928 Assay/analysis

SAMPLE TYPE: Chip COMMODITY GRADE

8364,0000 Grams per tonne Silver Cold 2.0600 Grams per tonne

COMMENTS: A 0.61 metre chip sample across vein.

REFERENCE: Minister of Mines Annual Report 1928, page 84.

CAPSULE GEOLOGY

The La Rose deposit is located on the east flank of Tsimstol Mountain west of the Kitsault River, 9.75 kilometres north-northwest of Alice Arm. A few small shipments of high grade ore were made from this deposit between 1918 and 1927.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a north to northwest trending anticlinesyncline pair.

The showing consists of a quartz-breccia vein which follows a shear zone in thinly laminated dark grey to black siltstones and locally interbedded massive reddish brown greywackes of the Stuhini Group. These rocks strike northwest and dip to the northeast. The vein and shear zone strike north and dip 75 degrees east at surface, at 46 metres depth the strike is northwest and the dip is 60 degrees east. The shear zone parallels bedding and has been traced south for about 800 metres onto the Speculator #2 claim (Lot 886). The vein, 0.3 to 0.9 metres wide, occurs sporadically along the shear zone.

Mineralization consists of pyrite, pyrrhotite, arsenopyrite,
galena, sphalerite, tetrahedrite, ruby silver, argentite and native

silver in a gangue of milky white quartz commonly containing breccia-

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UTM ZONE: 09 (NAD 83)

NORTHING: 6157890

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#### **CAPSULE GEOLOGY**

ted siltstone fragments. A 0.61 metre chip sample assayed 2.06 grams per tonne gold and 8364 grams per tonne silver (Minister of Mines Annual Report 1928, p. 84).

Between 1918 and 1927, 72 tonnes of hand sorted ore with an average grade of 6.47 grams per tonne gold, 6908.75 grams per tonne silver, 3.21 per cent lead and 4.27 per cent zinc were mined and shipped from this deposit shipped from this deposit.

#### **BIBLIOGRAPHY**

EMPR AR \*1916-63,64; 1917-46; 1918-56,57; 1919-50,51; 1920-47; 1922-56; 1923-57; 1925-74,75; 1926-79; \*1928-84,85; 1929-85; 1931-39; \*1968-60,61 EMPR ASS RPT 2202, \*10408 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM 1969-63,64 EMPR MAP 8 EMPR MAF 0 EMPR OF 1986-2 EMR MP CORPFILE (Alice Arm - La Rose Mining Co. Ltd.) GSC MAP 307A; 315A; 1385A GSC MEM \*175, p. 69 GSC SUM RPT 1928, p. 38A WWW http://www.infomine.com/index/properties/LAROSE.html

FIELD CHECK: N FIELD CHECK: N DATE CODED: 1985/07/24 DATE REVISED: 1989/03/28 CODED BY: GSB REVISED BY: PSF

MINFILE NUMBER: 103P 170

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 171

NATIONAL MINERAL INVENTORY: 103P6 Ag5

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NAME(S): WATERFRONT (L.3639)

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P05E 103P06W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 28 01 N NORTHING: 6146869 LONGITUDE: 129 30 09 W ELEVATION: 137 Metres EASTING: 468230

LOCATION ACCURACY: Within 500M

COMMENTS: Location based on approximate centre of Waterfront claim (Lot 3639).

COMMODITIES: Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Galena COMMENTS: Sparse disseminations. Sphalerite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: I05 Polym

DIMENSION: 0002 STRIKE/DIP: Metres TREND/PLUNGE:

COMMENTS: Quartz vein trends northwest and is 1.8 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

TRATIGRAPHIC AGE GROUP Spatsizi **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Undefined Formation

LITHOLOGY: Sediment/Sedimentary

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: In the Bowser Lake sedimentary overlap on Stikinia Terrane.

**CAPSULE GEOLOGY** 

The Waterfront showing is located on the Waterfront claim (Lot 3639) on the shore of Alice Arm, 1.75 kilometres southwest of the Alice Arm townsite. The claim was crown granted in 1917.

The area is underlain by Middle Jurassic Spatsizi Group

sediments. These dip moderately to steeply southwest and northeast as a result of being deformed into closely spaced northwest trending folds.

The showing consists of a 1.8 metre wide quartz vein that outcrops near the shore and is reported to have been traced northwest across Lot 3639. The vein is sparsely mineralized with disseminations of pyrite, galena and sphalerite.

**BIBLIOGRAPHY** 

EMPR AR 1916-75; 1917-F451

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 1385A GSC MEM 32, p. 94

DATE CODED: 1989/03/23 DATE REVISED: 1990/01/11 CODED BY: FIELD CHECK: N REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 171

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 172

NATIONAL MINERAL INVENTORY: 103P12,11 Pb3

NAME(S): **SUMMIT**, YUKON, NO NAME

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

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LATITUDE: 55 44 31 N LONGITUDE: 129 30 37 W ELEVATION: 942 Metres NORTHING: 6177477 EASTING: 467964

LOCATION ACCURACY: Within 500M

COMMENTS: Location of southern (longest) adit (Minister of Mines Annual Report

1951, Figure 1).

COMMODITIES: Zinc Silver Lead Gold

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena ASSOCIATED: Quartz Carbonate Chlorite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: I05 Polym nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0002 Metres STRIKE/DIP: 040/60W TREND/PLUNGE:

COMMENTS: Mineralized fracture zones up to 1.8 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

GROUP Hazelton IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** Lower Jurassic Undefined Formation

LITHOLOGY: Porphyritic Andesitic Tuff

Porphyritic Andesitic Breccia

Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine GRADE: Greenschist METAMORPHIC TYPE: Regional RELATIONSHIP:

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1930 Assay/analysis SAMPLE TYPE: Chip

COMMODITY Silver **GRADE** 

41,0000 Grams per tonne 0.3400 Gold Grams per tonne Per cent Lead 1.1000 3.6000 Per cent

Zinc COMMENTS: A 1.7 metre chip sample.

REFERENCE: Minister of Mines Annual Report 1930, page 98.

**CAPSULE GEOLOGY** 

The Summit showing is located 2.0 kilometres east of the Kitsault River, 29.5 kilometres due north of Alice Arm. The showing was

sault kiver, 29.5 kilometres due north of Alice Arm. The showing was investigated by trenching and tunnelling between 1921 and 1934.

The showing is hosted in porphyritic andesitic tuffs and breccias of the Lower Jurassic Hazelton Group. The showing consists of stringers of quartz, carbonate, and chlorite mineralized with pyrite, and minor galena and sphalerite. The stringers are up to 10 centimetres wide in zones, up to 1.8 metres wide, of fractured andesite that generally strike 040 degrees and dip 60 degrees west. Shear zones, up to 3.7 metres wide, striking 010 degrees in andesite contain similar mineralization. tain similar mineralization.

The mineralization is best developed in a fine-grained tuff bed within a sequence of coarse breccias. A 1.7 metre chip sample  $\frac{1}{2}$ assayed 0.34 grams per tonne gold, 41 grams per tonne silver, 1.1 per cent lead and 3.6 per cent zinc (Minister of Mines Annual Report 1930, p. 98).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1921-52; 1923-58,59; \*1930-97,98; 1931-39; 1932-56; 1933-50; 1934-B17; \*1951-91

EMPR ASS RPT 9564, 15126

EMPR BULL 63
EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, pp. 74,80,87

DATE CODED: 1989/04/30 DATE REVISED: / / CODED BY: PSF REVISED BY: FIELD CHECK: N FIELD CHECK:

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 173

NATIONAL MINERAL INVENTORY: 103P12 Pb4

NAME(S): BUNKER HILL

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

GRADE: Greenschist

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

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REPORT: RGEN0100

1230

LATITUDE: 55 33 07 N NORTHING: 6156346 EASTING: 465933

LONGITUDE: 129 32 24 W ELEVATION: 610 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of short adit 9 metres above creek (Geology, Exploration

and Mining in B. C. 1969 p.63).

COMMODITIES: Gold 7inc Silver I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite Chalcopyrite

COMMENTS: Disseminated to near massive lenses.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Breccia

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0061 Metres STRIKE/DIP: COMMENTS: Vein, 0.10 to 0.38 metres wide, along northwest striking and steeply TREND/PLUNGE:

east dipping fault has been traced for 61 metres.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Black Siltstone

Greywacke Conglomerate

HOSTROCK COMMENTS: Interbedded siltstone, greywacke and pebble conglomerate.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE TYPE: Chip YFAR: 1923 Assay/analysis

COMMODITY **GRADE** 

240.0000 Silver Grams per tonne 11.0000 Gold Grams per tonne 2.0000 Lead Per cent

COMMENTS: A 0.61 metre chip sample across massive sulphides. REFERENCE: Minister of Mines Annual Report 1923, page 57.

**CAPSULE GEOLOGY** 

The Bunker Hill showing is located west of the Kitsault River on the north side of La Rose Creek,  $8.5~{\rm kilometres}$  north-northwest of Alice Arm. A sulphide-rich quartz vein was explored by trenching and tunnelling between 1923 and 1925.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a north to northwest trending anticlinesyncline pair.

The showing consists of a quartz-breccia vein that follows a northwest striking, steeply east dipping fault zone in interbedded black siltstone, greywacke and pebble conglomerate of the Stuhini These rocks are cut by a few northeast striking lamprophyre The vein, from 0.10 to 0.38 metres wide, has been traced for dykes. 61 metres by a short adit and a series of trenches.

Mineralization comprises disseminations to near massive lenses

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

of pyrite, galena, sphalerite and chalcopyrite in a gangue of quartz. A 0.61 metre chip sample taken across massive sulphides contained 11.0 grams per tonne gold, 240 grams per tonne silver and 2.0 per cent lead (Minister of Mines Annual Report 1923, p. 57).

**BIBLIOGRAPHY** 

EMPR AR \*1923-56,57; 1924-53; 1925-75; 1934-B17; 1968-60,61

EMPR ASS RPT 10803 EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM \*1969-63 EMPR MAP 8

GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 56

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/28 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 173

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 174

NATIONAL MINERAL INVENTORY: 103P12 Pyr1

NAME(S): EAGLE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1232

LATITUDE: 55 34 23 N LONGITUDE: 129 30 56 W ELEVATION: 457 Metres NORTHING: 6158684 EASTING: 467493

TREND/PLUNGE:

LOCATION ACCURACY: Within 500M

COMMENTS: Location of quartz vein outcrop (Geological Survey of Canada Memoir 175, p. 62 and Map 315A).

COMMODITIES: Gold Silver

**MINERALS** 

**DEPOSIT** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz

Calcite

MINERALIZATION AGE: Unknown

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: I05 Polym

thermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au
x 0003 Metres DIMENSION: 0914 x 0003 STRIKE/DIP: 315/50E

COMMENTS: Vein strikes northwest for at least 914 metres, dips 50 degrees

northeast and varies from 1.2 to 3.0 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Stuhini **FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Undefined Formation

LITHOLOGY: Black Siltstone Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Eagle showing is located west of the Kitsault River, about 600 metres northeast of Klayduc Creek and 10.5 kilometres northnorthwest of Alice Arm. The showing was explored in 1926 and 1928 by trenching and tunnelling.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a north to northwest trending anticlinesyncline pair.

The showing consists of a quartz-calcite vein, from 1.2 to 3.0 metres wide, extending for at least 914 metres in black siltstone of the Stuhini Group. The vein strikes northwest, dips 50 degrees northeast and locally contains zones of brecciated siltstone of up to 1.5 metres in width.

The vein is mineralized with sparse pyrite and good values in precious metals are reported from samples (Minister of Mines Annual Report 1926, p. 81).

BIBLIOGRAPHY

EMPR AR \*1926-79-81; 1927-73; 1928-89

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

EMR MP CORPFILE (Kitsault Mines Ltd.)

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 62

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/03/28 REVISED BY: PSF FIELD CHECK: N

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 175

NATIONAL MINERAL INVENTORY:

NAME(S): **HENDERSONS** 

STATUS: Showing REGIONS: British Columbia

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

NTS MAP: 103P11W 103P12E BC MAP: LATITUDE: 55 36 26 N

NORTHING: 6162479 EASTING: 468571

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REPORT: RGEN0100

1233

LONGITUDE: 129 29 56 W ELEVATION: 244 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of claims (Minister of Mines Annual Report 1916 p.52).

COMMODITIES: Silver

MINERALIZATION AGE: Unknown

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Calcite

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE

GROUP Stuhini Upper Triassic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER Undefined Formation

LITHOLOGY: Black Siltstone

Argillite Slate Dioritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Hendersons showing is located on the west side of the Kitsault River, 14.0 kilometres due north of Alice Arm.

The region is underlain by Upper Triassic Stuhini Group and

Lower Jurassic Hazelton Group volcanics and sediments. These are folded into a northwest trending anticline.

The showing consists of a quartz-breccia vein and a zone of pyritic quartz-calcite veinlets. The vein occurs along a dioritic dyke and is 0.3 metres wide. The veinlets occur in a 15 metre wide good grade silver ore is reported to have come from the vicinity of these showings (Minister of Mines Annual Report 1919, p. 52).

**BIBLIOGRAPHY** 

EMPR AR \*1919-52

EMPR ASS RPT 10803, 10951

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 66

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1989/03/29 FIELD CHECK: N

MINFILE NUMBER: 103P 175

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 176

NAME(S): ZORKA

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P11W BC MAP: LATITUDE: 55 38 10 N

LONGITUDE: 129 29 59 W ELEVATION: 183 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit portal (Assessment Report 10803 Map 1).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 028/ TREND/PLUNGE:

COMMENTS: Quartz vein strikes northeast, dips northwest.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE

IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Argillite

Siltstone

Tuffaceous Wacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP:

PHYSIOGRAPHIC AREA: Boundary Ranges GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Zorka showings occur on the west bank of the Kitsault River,

17.5 kilometres due north of Alice Arm.

The region is underlain by a volcanic/sedimentary sequence of Upper Triassic Stuhini Group and Lower Jurassic Hazelton Group rocks. These are folded into a northwest trending anticline/syncline pair.

The showing consists of several occurrences exposed in two adits. In the upper adit a northwest dipping 0.3 metre wide quartz vein is exposed in argillite, siltstone and tuffaceous wacke of the Stuhini Group. The vein and host rocks, striking 028 degrees and dipping 75 degrees northwest, are cut by several hornblende porphyritic dykes from 0.6 to 1.5 metres wide. Mineralization consists of pyrite and trace chalcopyrite in quartz gangue.

The lower adit exposes calcite stringers mineralized with chal-

copyrite. A vein, outcropping in the vicinity of this adit, contains a 0.3 metre wide section heavily mineralized with pyrite and chalcopyrite.

**BIBLIOGRAPHY** 

EMPR AR \*1926-81

EMPR ASS RPT \*10803, 10951

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 87

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/03/29 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 176

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NATIONAL MINERAL INVENTORY: 103P12 Cu9

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6165694

EASTING: 468541

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 177

NATIONAL MINERAL INVENTORY: 103P11 Cu1

NAME(S): **CANYON** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P12E 103P11W BC MAP: LATITUDE: 55 39 44 N

NORTHING: 6168602 EASTING: 468283

PAGE:

REPORT: RGEN0100

1235

LONGITUDE: 129 30 15 W ELEVATION: 335 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit (Minister of Mines Annual Report 1924 p.54).

COMMODITIES: Silver Copper I ead

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 070/37N TREND/PLUNGE:

COMMENTS: Attitude of shear zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1924 Assay/analysis

CATEGORY: Assay SAMPLE TYPE: Grab

COMMODITY GRADE Silver 4285.0000 Grams per tonne

COMMENTS: Highest assay from grab samples.

REFERENCE: Minister of Mines Annual Report 1924, page 54.

**CAPSULE GEOLOGY** 

The Canyon showing is located 20.5 kilometres north of Alice Arm on the east bank of the Kitsault River. The area was explored in

1924 for silver and base metals.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a doubly plunging north-northwest trending syncline and have been regionally metamorphosed to greenschist facies.

The showing comprises quartz veins in a shear zone, up to 2.4 metres wide, hosted in Hazelton Group andesite. The zone strikes 070 degrees and dips 35 to 40 degrees northwest. The veins are sporadically mineralized with pyrite, chalcopyrite and traces of galena. Grab samples have assayed up to 4285 grams per tonne silver (Minister of Mines Annual Report 1924, p. 54).

**BIBLIOGRAPHY** 

EMPR AR \*1924-54,56

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp.

EMPR MAP 8

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 175, p. 57

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/04/15 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 177

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 178

NATIONAL MINERAL INVENTORY: 103P11 Ag1

NAME(S): SILVER KING, EAGLE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P11W 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1237

LATITUDE: 55 38 58 N NORTHING: 6167177 EASTING: 468692

LONGITUDE: 129 29 51 W ELEVATION: 427 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of claims (Minister of Mines Annual Report 1921 p.54).

COMMODITIES: Silver 7inc Gold I ead

**MINERALS** 

Galena Sphalerite

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** Polymetallic veins Ag-Pb-Zn±Au

TYPE: 105 DIMENSION: 0015 STRIKE/DIP: 013/70E TREND/PLUNGE: Metres COMMENTS: Attitude of shear zone, 15 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage)

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1921 Assay/analysis

COMMODITY **GRADE** 

Silver 576,0000 Grams per tonne

COMMENTS: Assays given in silver equivalent (combined gold and silver).

Highest assay from samples.

REFERENCE: Minister of Mines Annual Report 1921, page 54.

**CAPSULE GEOLOGY** 

The Silver King showing is located 1 kilometre east of the Kitsault River, 19 kilometres due north of Alice Arm. The area was investigated for precious metals in 1921.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a doubly plunging north-northwest trending syncline and have been regionally metamorphosed to greenschist facies.

The showing consists of quartz stringers and veins in a shear zone, up to 15 metres wide, that cuts Hazelton Group andesite. The zone generally strikes 013 degrees and dips 70 degrees east. The stringers and veins are up to 1.0 metre wide and parallel the shear zone. Mineralization consists of pyrite and minor galena and sphalerite. Grab samples of the veins are reported to assay from 461 to 576 grams per tonne silver equivalent (Minister of Mines Annual Report 1921, page 54).

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EMPR AR \*1921-54

EMPR ASS RPT 15371

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR MAP 8 EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 79

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/16 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 178

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 179 NATIONAL MINERAL INVENTORY: 103P11 Cu1

NAME(S): HOMEGUARD, BOULDER, CENTRAL

STATUS: Showing MINING DIVISION: Skeena REGIONS: British Columbia

NTS MAP: 103P12E UTM ZONE: 09 (NAD 83)
BC MAP:

LATITUDE: 55 39 14 N NORTHING: 6167676
LONGITUDE: 129 30 26 W EASTING: 468084
ELEVATION: 274 Metres

ELEVATION: 274 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit (Geology, Exploration and Mining in B.C. 1970

p. 88 Fig. 7).

COMMODITIES: Copper Zinc Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite Tetrahedrite

ASSOCIATED: Quartz Calcite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Vein
CLASSIFICATION: Hydrothermal Epigenetic
TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb) I05 Polymetallic veins Ag-Pb-Zn±Au

lo2 Intrusion-related Au pyrrhotite veins

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER
Lower Jurassic Undefined Formation

LITHOLOGY: Brecciated Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

**INVENTORY** 

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1970

SAMPLE TYPE: Chip

COMMODITY

GRADE

COMMENTS: A 2.44 metre chip sample taken adjacent to adit in boulder. REFERENCE: Property File - Silver Butte Mines Ltd. 1970 Annual Report, page 6.

**CAPSULE GEOLOGY** 

The Homeguard showing is located 19.5 kilometres north of Alice Arm on the east bank of the Kitsault River. The area was extensively explored in 1916 for the source of mineralized boulders.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a doubly plunging north-northwest trending syncline and have been regionally metamorphosed to greenschist facies.

The showing is characterized by boulders, up to 10 metres in diameter, of brecciated Hazelton Group andesite containing calcite stringers and quartz breccia veins. The stringers are mineralized sporadically with pyrite and chalcopyrite and the veins, up to 2.13 metres wide, contain pyrite and chalcopyrite with minor galena, sphalerite and tetrahedrite. A 2.44 metre chip sample taken adjacent to an adit developed in one of these boulders assayed 34.28 grams per tonne gold, 110 grams per tonne silver, 2.9 per cent zinc, 2.0 per cent lead and 0.02 per cent copper (Property File - Silver Butte Mines Ltd. Annual Report, 1970 p.6).

A narrow vein with similar mineralization, but not as pervasive

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

as that shown in the boulders, was discovered in 1924 uphill from the boulders.

### **BIBLIOGRAPHY**

EMPR AR 1916-84; \*1919-52; 1920-47; 1922-61; 1923-61; 1924-54; 1928-85; 1929-85; 1955-20; 1956-21 EMPR ASS RPT 15371 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM \*1970-89,90; 1971-124 EMPR MAP 8 EMPR OF 1986-2 

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/17 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 179

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 180

NAME(S): **REX** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 40 11 N

LONGITUDE: 129 30 31 W ELEVATION: 351 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of trench (Minister of Mines Annual Report 1924 p.53).

Silver

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite

COMMENTS: Fine pyrite occurs in sericitic inclusions within quartz vein.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

**HOST ROCK** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: L01 Subvo **Epigenetic** 

Subvolcanic Cu-Ag-Au (As-Sb) 105 Polymetallic veins Ag-Pb-Zn±Au

STRIKE/DIP: 120/50S

102 Intrusion-related Au pyrrhotite veins

DIMENSION: COMMENTS: Attitude of vein.

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1924 Assav/analysis

SAMPLE TYPE: Grab COMMODITY **GRADE** 

20.6000 Grams per tonne Silver Cold 2.6500 Grams per tonne

REFERENCE: Minister of Mines Annual Report 1924, page 53.

**CAPSULE GEOLOGY** 

The Rex showing is located on the west bank of the Kitsault River, 21.0 kilometres north of Alice Arm. A quartz vein was

explored in 1924 for precious metals in this area.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a doubly plunging north-northwest trending syncline and have been regionally metamorphosed to greenschist facies.

The showing consists of a quartz vein, up to 1.0 metre wide, striking 120 degrees and dipping 50 degrees southwest. The vein, hosted in Hazelton Group volcanics, contains soft, grey sericitic inclusions impregnated with fine pyrite. A grab sample assayed 2.65 grams per tonne gold and 20.6 grams per tonne silver (Minister of Mines Annual Report 1924, p. 53).

**BIBLIOGRAPHY** 

EMPR AR \*1924-53,54

EMPR ASS RPT 15371

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

PAGE:

NATIONAL MINERAL INVENTORY: 103P12 Ag15

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6169439

EASTING: 468009

TREND/PLUNGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 76

CODED BY: GSB REVISED BY: PSF

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/17 FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 180

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 103P 181

NATIONAL MINERAL INVENTORY: 103P11 Ag2

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6168700 EASTING: 472041

PAGE:

REPORT: RGEN0100

1243

NAME(S): BASIN, SILVER BASIN

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P11W BC MAP:

LATITUDE: 55 39 48 N LONGITUDE: 129 26 40 W ELEVATION: 1158 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of adit (Assessment Report 12489, Figure 3).

COMMODITIES: Copper Silver 7inc Gold

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Tetrahedrite Arsence COMMENTS: As disseminations, blebs, veinlets and massive lenses. Arsenopyrite

ASSOCIATED: Quartz Calcite ALTERATION: Malachite
ALTERATION TYPE: Oxidation Azurite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Vein Disseminated Massive

CLASSIFICATION: Hydrothermal

thermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au
x 0005 Metres TYPE: 105 Polyme DIMENSION: 0200 x 0005 J01 STRIKE/DIP:

Polymetallic manto Ag-Pb-Zn TREND/PLUNGE: COMMENTS: Shear zone strikes north-northeast, dips steeply east, has been traced

for 200 metres and is 2 to 8 metres wide.

DOMINANT HOSTROCK: Sedimentary

GROUP Stuhini TRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Undefined Formation

LITHOLOGY: Argillite

Shale Siltstone Sandstone Limestone Volcanic Breccia

Feldspar Porphyritic Volcanic

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

GRADE: Greenschist COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> CATEGORY: YEAR: 1924 Assay/analysis

SAMPLE TYPE: Chip COMMODITY **GRADE** 

137.0<u>0</u>00 Silver Grams per tonne

Copper 2.2000 Per cent

COMMENTS: Across 1.8 metres, trace gold. REFERENCE: Minister of Mines Annual Report 1924, page B54.

ORE ZONE: BRECCIA REPORT ON: N

> Assay/analysis YEAR: 1964

CATEGORY: Assa SAMPLE TYPE: Chip

COMMODITY **GRADE** 6479.0000 Grams per tonne

Copper 16.7000 Per cent

COMMENTS: A 0.406 metre chip sample from quartz-calcite breccia.

REFERENCE: Property File Report by G.B. Tribble, page 6.

**CAPSULE GEOLOGY** 

The Basin showing is located 3.0 kilometres due west of Kinskuch Lake, 20.5 kilometres north-northeast of Alice Arm. The area has periodically been explored since the 1920's.

MINFILE NUMBER: 103P 181

GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

#### CAPSULE GEOLOGY

The area is underlain by volcanics and sediments of the Upper Triassic Stuhini Group and the Lower Jurassic Hazelton Group. The sediments are situated on the eastern limb of the north to northwest trending Mt. McGuire anticline and have been regionally metamorphosed to greenschist facies.

The showing consists of several breccia/shear zones contained in an east dipping sequence of interbedded shale, argillite, siltstone, sandstone, conglomerate, limestone, volcanic breccia and massive to pillowed, aphanitic to porphyritic flows of the Stuhini Group.

A shear zone, 2 to 8 metres wide, has been traced by a series of trenches and pits for 200 metres. The zone strikes north-northeast, dips steeply east and is hosted in argillite, shale, siltstone and sandstone. The zone is mineralized with disseminations, blebs and veinlets of pyrite, chalcopyrite and tetrahedrite with sporadic malachite and azurite in a gangue of grey quartz and calcite. A 1.8 metre chip sample assayed trace gold, 137 grams per tonne silver and 2.2 per cent copper (Minister of Mines Annual Report 1924, p. 54).

Northeast, about 600 metres, a quartz-calcite breccia zone has been traced for 16.8 metres in a trench and a 4.0 metre long adit. The zone strikes northwest, dips gently northeast and is 1.0 metre wide. A sequence of feldspar porphyritic volcanic, argillite and sandstone form the footwall. Mineralization consists of disseminations and veinlets of pyrite, chalcopyrite, tetrahedrite and arsenopyrite in a gangue of quartz, calcite and brecciated wall rock. A 1.0 metre long, 0.15 metre thick lense of massive tetrahedrite and arsenopyrite occurs on the hangingwall. A 40.6 centimetre chip sample from the east wall of the adit assayed 6479 grams per tonne silver and 16.7 per cent copper (Property File - Tribble, G.B. (1964) p.6).

#### **BIBLIOGRAPHY**

EM EXPL 1990, pp. 169-173 EMPR AR \*1924-54; 1930-442; 1931-39; 1964-45; 1965-65 EMPR ASS RPT 680, \*12489, 20611, 21134 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (\*Tribble, G.B. (1964) Report; Maps of old Workings and Sample Sites) EMR MP CORPFILE (Sirmac Mines Ltd.; Silver Basin Mines Ltd.) GSC MAP 307A; 315A; 1385A GSC MEM \*175, p. 53 GSC SUM RPT \*1928, p. 46A Gale, R.E., 1957: Geology of Kinskuch Lake Area, British Columbia, University of British Columbia M.Sc. Thesis

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/03/30 REVISED BY: PSF

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 182

NATIONAL MINERAL INVENTORY: 103P12,13 Cu2

PAGE:

UTM ZONE: 09 (NAD 83)

REPORT: RGEN0100

1245

NAME(S): **BLUE RIBBON**, BLUE RIBBON GROUP

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13E BC MAP:

LATITUDE: 55 45 18 N LONGITUDE: 129 37 01 W ELEVATION: 1394 Metres NORTHING: 6178985 EASTING: 461280

LOCATION ACCURACY: Within 500M

COMMENTS: Location based on description of showing in Minister of Mines

Annual Report 1921, page 50.

COMMODITIES: Copper Silver Gold Lead

**MINERALS** 

SIGNIFICANT: Chalcopyrite Galena Gold

ASSOCIATED: Calcite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork

CLASSIFICATION: Hydrothermal TYPE: L01 Subvo **Epigenetic** Subvolcanic Cu-Ag-Au (As-Sb) 102 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1921 Assay/analysis

SAMPLE TYPE: Grab COMMODITY

**GRADE** Gold 3.3000 Grams per tonne

34,0000 Per cent

Copper COMMENTS: Sample of pure chalcopyrite.

REFERENCE: Minister of Mines Annual Report 1921, page 51.

**CAPSULE GEOLOGY** 

The Blue Ribbon showing is located 3.0 kilometres east of Homestake Creek and 32 kilometres north-northwest of Alice Arm.

area was explored in the early 1920's.

Calcite, mineralized with chalcopyrite, minor galena, and free gold occurs as infillings in fractured and crushed Upper Triassic

Stuhini Group argillite.

Samples of pure chalcopyrite assayed 34 per cent copper and 3.3 grams per tonne gold, and a calcite sample assayed trace gold and silver and 1.8 per cent copper (Minister of Mines Annual Report 1921,

p. 51).

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EMPR AR \*1921-50,51; 1922-58; 1923-57; 1925-75

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 56

DATE CODED: 1989/04/30 CODED BY: PSF FIELD CHECK: N REVISED BY: DATE REVISED: / / FIELD CHECK:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 183 NATIONAL MINERAL INVENTORY: 103P12 Cu8

NAME(S): E AND D, WILDCAT, MEDALLION

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 39 50 N

NORTHING: 6168796 LONGITUDE: 129 31 18 W ELEVATION: 1498 Metres EASTING: 467183

LOCATION ACCURACY: Within 500M

COMMENTS: Location of portal of second most south adit (Geology, Exploration and Mining 1970, page 88 (Figure 7)).

Gold COMMODITIES: Copper 7inc Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Galena

ASSOCIATED: Quartz ALTERATION: Carbonate
ALTERATION TYPE: Carbonate Sericite Chlorite

Sericitic Chloritic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia Stockwork Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

Polymetallic veins Ag-Pb-Zn±Au 5N TREND/PLUNGE: TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb) 105 DIMENSION: STRIKE/DIP: 110/45N

COMMENTS: Attitude of quartz vein within fracture zone.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation Lower Jurassic

LITHOLOGY: Schistose Andesitic Crystal Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: YFAR: 1971 Assay/analysis

> SAMPLE TYPE: Chip **GRADE**

COMMODITY Silver 75.4000 3.3200 Grams per tonne Copper Per cent Per cent Lead 0.2100 7inc 3.7800 Per cent

COMMENTS: A 0.66 metre chip sample across quartz vein.

REFERENCE: Geology, Exploration and Mining in British Columbia 1971, page 125.

CAPSULE GEOLOGY

The E & D showing is located 1.0 kilometre west of the Kitsault River, 20.5 kilometres north of Alice Arm. A series of copper bearing fracture zones have been explored in this area since 1916.

The region is underlain by an assemblage of volcanics and rine region is underlain by an assemblage of volcants and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a doubly plunging north-northwest trending syncline and have been regionally metamorphosed to greenschist facies.

The showing comprises a number of fracture and breccia zones. Several of these contain quartz veins, up to 1.2 metres wide, hosted in Hazelton Group pyritic and schistose andesitic crystal tuff. tuff has undergone widespread carbonate, sericite and chlorite alteration similar to that shown in Copper Belt andesite (informal name) of the upper Kitsault Valley to the north. These zones are cut b few hornblende porphyritic lamprophyric dykes which follow a sub-These zones are cut by a sidiary northeast trending fracture pattern. The zones trend northwest and dip moderately to the northeast and one of the veins strikes

> MINFILE NUMBER: 103P 183

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REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

110 degrees and dips 45 degrees northeast. The zones are mineralized over widths of up to 1.8 metres.

Mineralization comprises disseminations, blebs and stringers of pyrite and chalcopyrite commonly with irregular lenses, stringers and blebs of quartz.

One of the fracture zones contains a 0.9 metre wide quartz vein mineralized with chalcopyrite, sphalerite and galena. Chalcopyrite stringers, 1 to 2 centimetres wide, occur along the margins of the vein. A 0.66 metre chip sample across the vein assayed trace gold, 75.4 grams per tonne silver, 3.32 per cent copper, 0.21 per cent lead and 3.78 per cent zinc (Geology, Exploration and Mining in British Columbia 1971, p. 125).

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EMPR AR 1916-83,84; \*1918-67,68; 1919-56; 1921-49; 1922-56; 1927-74, 75; 1930-93; 1931-39; \*1932-56; 1934-B17 EMPR ASS RPT 7098, 15371 EMPR BULL 63 EMPR EXPL 1976-166,167 EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM \*1970-87,89; \*1971-124,125 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (Field notes, map of workings, 1971) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 86 GSC SUM RPT 1921, p. 20A

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/17 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 183

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REPORT: RGEN0100

#### MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 184

NATIONAL MINERAL INVENTORY: 103P13 Au6

NAME(S): GLORY EXTENSION, CARDOZO, WOOD 5

STATUS: Showing REGIONS: British Columbia

Underground MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1248

LATITUDE: 55 48 37 N

NORTHING: 6185414 EASTING: 437520

LONGITUDE: 129 59 49 W ELEVATION: 762 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit (Assessment Report 11082, Figure 3).

COMMODITIES: Gold Silver 7inc I ead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz Sphalerite Pyrite Arsenopyrite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Stockwork

Epigenetic

Intrusion-related Au pyrrhotite veins TREND/PLUNGE: Polymetallic veins Ag-Pb-Zn±Au 102

STRIKE/DIP: 148/35S DIMENSION: Metres

COMMENTS: Quartz vein/silicified zone up to 0.6 metre wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Unuk River

Lower Jurassic Hazelton

**Bulldog Creek Pluton** Jurassic

ISOTOPIC AGE: 181 +/- 8 Ma DATING METHOD: Potassium/Argon MATERIAL DATED: Hornblende

LITHOLOGY: Hornfels

Argillite Tuff Greenstone Granodiorite

HOSTROCK COMMENTS: Isotopic age from GSC OF 2996.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Plutonic Rocks
METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: In the Georgia River roof pendant within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1928

SAMPLE TYPE: Chip COMMODITY **GRADE** 

Silver 86.0000 Grams per tonne Grams per tonne

Gold 89.0000 COMMENTS: A 0.3-metre chip sample across quartz vein.

REFERENCE: Minister of Mines Annual Report 1928, page 92.

CAPSULE GEOLOGY

The Gloria Extension showing is located  $14.5\ \mathrm{kilometres}$  south of Stewart, just east of the north end of Glory Lake. The various

showings of this occurrence were explored in the late 1920's. The occurrence consists of a few showings developed in hornfelsed argillite, tuff, greenstone and granodiorite. The

showings occur in the vicinity of the contact between the Lower Jurassic Unuk River Formation (Hazelton Group) and the Eocene Hyder

Pluton of the Coast Plutonic Complex.

A north striking, steeply dipping fracture zone contains sparse galena, sphalerite, pyrite and arsenopyrite locally occurring as massive bodies up to 5.0 centimetres in width. A 0.6-metre chip sample assayed 1.37 grams per tonne gold, 54.8 grams per tonne

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

silver, 2.8 per cent lead and 5.0 per cent zinc (Minister of Mines Annual Report 1928, p. 92).

A 0.15 to 0.3-metre wide quartz vein, striking 175 degrees and dipping steeply east, occurs in the vicinity. A 0.3-metre chip sample assayed 89 grams per tonne gold and 86 grams per tonne silver (Minister of Mines Annual Report 1928, p. 92).

A quartz vein or silicified zone up to 0.6 metre wide, striking 148 degrees and dipping 35 to 60 degrees southwest, hosted in granodiorite occurs to the east at 1250 metres elevation. The vein/zone is reported to contain fair gold values (Minister of Mines Annual Report 1927, p. 81).

Various other quartz veins are also reported to occur in the area. See Gloria (103P 011) and Glory Extension 2 (1030 006).

#### **BIBLIOGRAPHY**

EMPR AR \*1927-81; \*1928-91,92; 1929-92; 1930-101,102 EMPR ASS RPT 10300, 11082 EMPR BULL 58; 63 EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8
EMPR OF 1986-2
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 93
GSC OF 2996

DATE CODED: 1989/05/14 DATE REVISED: 1999/06/17 CODED BY: PSF REVISED BY: LDJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 184

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 185

NATIONAL MINERAL INVENTORY: 103P12 Ag14

NAME(S): **DAVID COPPERFIELD (L.3520)**, SURPRISE

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1250

LATITUDE: 55 40 22 N LONGITUDE: 129 30 22 W ELEVATION: 283 Metres NORTHING: 6169778 EASTING: 468169

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit on Lot 3520 (Minister of Mines Annual Report 1919,

page 52.)

COMMODITIES: Silver I ead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite

ASSOCIATED: Quartz Barite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: I05 Polym

DIMENSION: 0300 x 0005 Metres STRIKE/DIP: 118/50N TREND/PLUNGE:

COMMENTS: Dimension and attitude of vein.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Lower Jurassic Undefined Formation

LITHOLOGY: Andesitic Crystal Tuff

Andesitic Lithic Tuff Andesitic Lithic Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1916 Assay/analysis

**GRADE COMMODITY** 267.0000 Grams per tonne Silver

COMMENTS: Highest assay value from four grab samples. REFERENCE: Minister of Mines Annual Report 1916, page 79.

CAPSULE GEOLOGY

The David Copperfield showing is located on the Kitsault River, 21.5 kilometres north of Alice Arm. A quartz-barite vein in this

area was periodically investigated between 1916 and 1954.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a doubly plunging north-northwest trending syncline and have been regionally metamorphosed to greenschist facies.

The showing consists of a quartz-barite vein, 1.5 to 4.9 metres wide, hosted in Hazelton Group andesitic crystal-lithic tuffs and breccias situated on the west bank of the Kitsault River. The vein strikes 118 degrees, dips 50 degrees north and extends for 300 metres eastward from the David Copperfield claim (Lot 3520) across the Kitsault River onto the Surprise claim (Lot 4335), where it splits into a number of quartz-barite stringers. The vein is sparsely mineralized with disseminated pyrite, galena and sphalerite. Assays from four grab samples range between 6.9 and 267 grams per tonne silver (Minister of Mines Annual Report 1916, p. 79).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR \*1916-79; 1917-46; \*1919-52,53; 1920-349; 1924-367; 1954-84 EMPR ASS RPT 15371

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990,

pp. 235-243 EMPR GEM 1970-88

EMPR MAP 8
GSC MAP 307A; 315A; 1385A
GSC MEM 175, pp. 60,81
GSC SUM RPT \*1921, pp. 18A,19A

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/17 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 185

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 186

NAME(S): ROYAL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 40 15 N

LONGITUDE: 129 30 50 W ELEVATION: 483 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of old trenches and pits (Geology, Exploration and Mining in

Gold

British Columbia 1970, page 87).

COMMODITIES: Silver

**MINERALS** 

SIGNIFICANT: Pyrite

COMMENTS: Abundant disseminated pyrite.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Epigenetic

Subvolcanic Cu-Ag-Au (As-Sb) Polymetallic veins Ag-Pb-Zn±Au TYPE: LÓ1

105 COMMENTS: Shears strike northwest, dip steeply north.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** 

Lower Jurassic Hazelton **FORMATION** 

Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

Intrusion-related Au pyrrhotite veins

PAGE:

NATIONAL MINERAL INVENTORY: 103P12 Ag18

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6169565

**EASTING: 467678** 

REPORT: RGEN0100

1252

LITHOLOGY: Schistose Andesitic Crystal Tuff

Schistose Andesitic Lithic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine METAMORPHIC TYPE: Regional

RELATIONSHIP:

PHYSIOGRAPHIC AREA: Boundary Ranges GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SHEAR

REPORT ON: N

CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

**GRADE** 

YFAR: 1969

102

COMMODITY Silver

REFERENCE: Property File Silver Butte Mines Ltd. 1969 Annual Report.

70.3000 Grams per tonne Grams per tonne

Gold

0.3000

COMMENTS: Grab sample from shear zone.

**CAPSULE GEOLOGY** 

The Royal showing is located 0.5 kilometres west of the Kitsault River, 21.5 kilometres north of Alice Arm. A shear zone on the property was explored for precious metals in 1969 and 1970. In 1980, the property was re-evaluated for deposits similar to the Dolly Varden deposit (103P 188) just to the north.

The region is underlain by an assemblage of volcanics and

sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a doubly plunging north-northwest trending syncline and have been regionally metamorphosed to greenschist facies.

The main showings comprise a series of closely spaced northwest trending, steeply north dipping shears. The shears occur in a 1.5 metre wide zone near the intersection of north-northeast and northwest trending fault zones. The shears are developed in pyritic and schistose andesitic crystal-lithic tuffs of the Hazelton Group. The shears contain some slightly sulphidic quartz stringers. A grab sample assayed 0.3 grams per tonne gold and 70.3 grams per tonne silver (Property File - Silver Butte Mines Annual Report, 1969).

> MINFILE NUMBER: 103P 186

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR OF 1986-2
EMPR PF (\*Silver Butte Mines Ltd. Annual Report, 1969)

EMR MP CORPFILE (Consolidated Silver Butte Mines Ltd.) GSC MAP 1385A

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/17 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 186

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

7inc

MINFILE NUMBER: 103P 187

NATIONAL MINERAL INVENTORY: 103P12 Ag13

NAME(S): SILVER TIP

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1254

LATITUDE: 55 40 58 N LONGITUDE: 129 31 27 W ELEVATION: 594 Metres NORTHING: 6170899 EASTING: 467042

LOCATION ACCURACY: Within 500M

COMMENTS: Location of two small trenches on Lot 3823 (Minister of Mines Annual

Report 1916, page 78).

COMMODITIES: Silver Lead

**MINERALS** 

SIGNIFICANT: Galena Sphalerite COMMENTS: As sparse disseminations. ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown **Barite** 

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1916 Assay/analysis

COMMODITY **GRADE** 

Silver 68.0000 Grams per tonne

COMMENTS: Upper limit of average for a number of samples. REFERENCE: Minister of Mines Annual Report 1916, page 78.

**CAPSULE GEOLOGY** 

The Silver Tip showing is located 1.25 kilometres west of the Kitsault River, 22.5 kilometres north of Alice Arm. The area was

explored for silver in 1916.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. These are folded into a doubly plunging north-northwest trending syncline and have been regionally metamorphosed to greenschist

facies.

Several open cuts expose quartz-barite stringers hosted in andesite of the Hazelton Group. The stringers contain sparse disseminations of galena and sphalerite. Assays of grab samples are reported to average between 34 and 68 grams per tonne silver (Minister of Mines Annual Report 1916, p. 78).

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EMPR AR \*1916-78; 1920-349

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp.

EMPR MAP 8

EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A

MINFILE NUMBER: 103P 187

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 175, p. 79

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/04/17 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 187

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 103P 188

NATIONAL MINERAL INVENTORY: 103P12 Ag13

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6170769

EASTING: 467897

PAGE:

REPORT: RGEN0100

1256

NAME(S): **DOLLY VARDEN** 

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 40 54 N LONGITUDE: 129 30 38 W

ELEVATION: 549 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The number 1 glory hole, 300 metres west of the Kitsault River, 22.5 kilometres north of Alice Arm (Property File - Map of surface and

underground workings).

Zinc COMMODITIES: Silver Lead Copper Gold

Open Pit

**MINERALS** 

SIGNIFICANT: Sphalerite Galena Pyrite Chalcopyrite Tetrahedrite

Silver Pyrargyrite Argentite Quartz ASSOCIATED: Calcite Siderite Barite Sericite ALTERATION: Sericite Quartz Chlorite **Epidote** 

ALTERATION TYPE: Sericitic
MINERALIZATION AGE: Unknown Silicific'n **Propylitic** 

**DEPOSIT** 

Disseminated

G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

CHARACTER: Stratiform INIAGOLIE CLASSIFICATION: Volcanogenic Exhalative TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au SHAPE: Tabular MODIFIER: Faulted

DIMENSION: 790 x 650 x 9 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Dolly Varden East orebody strikes east to northeast; Dolly Varden West orebody strikes west-northwest; dips vary from 40 to 60 degrees north.

Dimensions of entire deposit.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesitic Ash Tuff

Andesitic Crystal Vitric Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: DOLLY VARDEN REPORT ON: Y

> CATEGORY: Combined YEAR: 1989

> QUANTITY: 42633 Tonnes

COMMODITY **GRADE** 

754.1000 Silver Grams per tonne

COMMENTS: Proven, probable reserves.

REFERENCE: George Cross News Letter May 25, 1989.

**CAPSULE GEOLOGY** 

The Dolly Varden mine is located 0.3 kilometres west of the Kitsault River, 22.5 kilometres north of Alice Arm. The mine produced high-grade silver ore periodically between 1919 and 1940.

The region is underlain by an assemblage of volcanics and sediments comprising the Upper Triassic Stuhini Group, the Lower-Middle Jurassic Hazelton Group and the Middle-Upper Jurassic Rowser Lake Group. These are folded into a doubly plunging north-Bowser Lake Group. These are folded into a doubly plunging northnorthwest trending syncline and have been regionally metamorphosed to greenschist facies.

The orebody consists of a stratiform volcanogenic silverzinc-lead barite exhalative horizon which is underlain by andesitic crystal vitric (shard) tuff and overlain by andesitic ash tuff of the Hazelton Group. These units have undergone sericitization, silicification and propylitization due to regional metamorphism and

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

hydrothermal alteration.

The deposit lies on the steeply dipping west limb of the Kitsault River syncline. The deposit has been segmented by a series of north to northeast striking reverse and normal faults into at least 13 minor blocks, 9 to 52 metres in length, which make up 4 major fault blocks. These faults dip 30 to 60 degrees west and horizontal displacements vary from 15 to 50 metres.

The deposit is divided into two main segments, the Dolly Varden East, containing the two eastern major blocks, and the Dolly Varden West, which contains the two major western blocks. The Dolly Varden East orebody strikes east to northeast for 200 metres and the Dolly Varden West orebody strikes west-northwest for 450 metres. The total strike length of the entire deposit is 650 metres. The deposit, 1 to 9 metres in width, dips 40 to 60 degrees north and extends downdip for at least 790 metres.

Mineralization in the Dolly Varden East deposit consists of disseminated to massive pyrite, minor chalcopyrite and traces of argentite, pyrargyrite and native silver in a gangue of milky white quartz and minor sericite. This quartz-sulphide exhalite is commonly found interbedded with hanging wall tuffs. The mineralization is reported to average 865 grams per tonne silver (Devlin, 1987).

The Dolly Varden West ore body consists of layers, disseminations and stringers of sphalerite and galena and minor pyrite, chalcopyrite and tetrahedrite and trace of native silver in a gangue of calcite, quartz, siderite and barite. This carbonatesulphate-sulphide exhalite is reported to average 15 grams per tonne silver (Devlin, 1987).

Combined (proven, probable) reserves at Dolly Varden are 42,633 tonnes grading 754.1 grams per tonne silver (George Cross News Letter May 25, 1989).

Between 1919 and 1940, 33,434 tonnes of ore with an average grade of 1269.69 grams per tonne silver, 0.09455 per cent copper and 0.4599 per cent lead were mined from the Dolly Varden East orebody. See Torbrit (103P 191) for more details.

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     1919-53,54; 1920-50; 1921-50; *1922-59; 1928-85,86; 1929-85,86; 1930-93,94; 1935-B29; *1936-B33-B39; 1937-B42; 1940-78; *1951-
     105-107; 1961-10; 1962-9,10; 1963-12; 1967-41
EMPR ASS RPT 7098, 9064, 20033, 20900, 21562
EMPR BULL 63
EMPR EXPL 1978-238
EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp. 235-243; 2000, pp. 313-326; 2001, pp. 177-196
EMPR GEM 1972-507
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EMPR MAP 8; *58; 65 (1989)
EMPR MEIP (78/79 Geochemical & Geological Expl. of Claims, Vol.1,2 -
Dolly Varden Resources, Dec. 29, 1977; 78/79 Assessment &
Exploration Potential of Dolly Varden Claims)
EMPR OF 1986-2; 1992-1; 1998-10
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     *Dolly Varden Mines Ltd. Annual Reports 1969 to 1972; Mitchell, M.A. (1973): Report; Various clippings, *maps and crosssections;
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EMR MIN BULL MR 223 B.C. 308
EMR MP CORPFILE (Dolly Varden Mines Ltd.)
EMR MP RESFILE (Dolly Varden)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, pp. 60-62
GSC SUM RPT 1921, pp. 16A-18A
CANMET IR RPT 69-67
CIM Trans. Vol. 25, pp. 212-220, 1922; Vol. 45, pp. 401-414, 1942
GCNL #147, 1970; Sept.15, 1972; Sept.21, 1973; #135, 1980; #14,#99,
     1987; #153(Aug.10), 1989
N MINER Jul. 1980
W MINER Aug. 1970, pp. 39-42; Jun. 1981, pp. 25,26 *Devlin, B.D. (1987): Geology & Genesis of the Dolly Varden Silver
      Camp, Alice Arm Area, Northwestern British Columbia, University
      of British Columbia M.Sc. Thesis
```

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/30 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 189 NATIONAL MINERAL INVENTORY: 103P12 Ag12

NAME(S): **NORTH STAR**, NORTHSTAR

STATUS: Past Producer REGIONS: British Columbia Underground MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 41 05 N LONGITUDE: 129 30 36 W ELEVATION: 450 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit portal, on the west bank of the Kitsault River, 23 kilometres north of the town of Alice Arm (Devlin, 1987).

COMMODITIES: Silver 7inc Lead Copper Gold

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite Galena Chalcopyrite Tetrahedrite

Silver Pyrargyrite Quartz Siderite

Barite Silicific'n **Propylitic** 

ASSOCIATED: Calcite ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Massive Disseminated

CLASSIFICATION: Volcanogenic Exhalative
TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

TYPE: 105 SHAPE: Tabular

MODIFIER: Faulted TREND/PLUNGE:

DIMENSION: 107 x 107 x 9 Metres STRIKE/DIP: COMMENTS: Northstar deposit strikes northeast and dips 45 degrees northwest; 1

to 24 metres wide.

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesitic Ash Tuff

Andesitic Crystal Vitric Tuff

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage). GRADE: Greenschist

INVENTORY

ORE ZONE: NORTH STAR REPORT ON: Y

> CATEGORY: Combined YEAR: 1987

127901 Tonnes QUANTITY:

COMMODITY Silver GRADE 401.4000 Grams per tonne

COMMENTS: Proven, probable reserves.

REFERENCE: George Cross News Letter May 25, 1987.

CAPSULE GEOLOGY

The North Star mine is situated on the west bank of the Kitsault River, 23 kilometres north of the town of Alice Arm. Between 1919 and 1921 a small tonnage of silver ore was mined from this deposit.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower-Middle Jurassic Hazelton Group and the Middle-Upper Jurassic Bowser Lake Group. The sequence is folded into the doubly plunging, north-northwest trending This sequence has been regionally Kitsault River syncline.

metamorphosed to greenschist facies.

The North Star occurrence comprises a stratiform, volcanogenic silver-zinc-lead barite exhalative deposit that is likely the same ore horizon as the Dolly Varden deposit (103P 188) to the south. With the Dolly Varden this deposit is underlain by Hazelton Group andesitic crystal vitric (shard) tuff and overlain by andesitic ash tuff that have undergone sericitization, silicification and propylitization due to regional metamorphism and hydrothermal alteration.

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EASTING: 467934

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

The North Star deposit occurs on the steeply dipping west limb of the Kitsault River syncline. It is cut by a number of steeply dipping northwest striking faults and numerous northeast striking near vertical mafic dykes. The deposit strikes northeast, dips 45 degrees northwest and varies from 1 to 24 metres in width. The deposit contains a lens-shaped zone of higher silver grades that extends 107 metres along strike, 107 metres downdip and varies from 1.5 to 9.8 metres in width.

The mineralogy of the North Star deposit is similar to that of the Dolly Varden West orebody (103P 188), consisting of layers, disseminations and stringers of sphalerite and galena with minor pyrite, chalcopyrite and tetrahedrite and a trace of native silver and pyrargyrite in a gangue of calcite, quartz, siderite and barite. This carbonate-sulphate-sulphide exhalite exhibits pronounced layering and vertical mineral zonation, with a pyrite-rich base and a sphalerite-galena-rich top.

The North Star deposit has seen very limited production from underground workings. In 1919, Alice Arm Silver Mines Co. sent a trial shipment of 24.5 tonnes of unsorted ore grading 1229 grams per tonne silver to the copper smelter at Anyox. In 1921, 77 tonnes of hand-sorted ore grading 754 grams per tonne silver were shipped to the Anyox Smelter.

Combined (proven, probable) reserves at North Star are 127,901 tonnes grading 401.4 grams per tonne silver (George Cross News Letter May 25, 1987).

See Torbrit (103P 191) for more details.

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EMPR ASS RPT 7098, *10042, 20041

EMPR BULL 63

EMPR EXPL 1978-238,239; 1980-409

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EMPR MAP 8; 65 (1989)

EMPR OF 1986-2; 1992-1; 1998-10

EMPR FF (Dolly Varden Mines Ltd., Cross section & Plan view of ore bod 1963; Skerl, A.C. (1963) Geology Reports; Mitchell, M.A. (1973) Report; Pearson, W.N. (1986) Geology Report; Dolly Varden Mines Ltd. Prospectus and Annual Reports (in PF - 103P 188))

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EMR MP CORPFILE (Torbrit Silver Mines Ltd.; Dolly Varden Mines Ltd.)

EMR MP RESFILE (North Star)

GSC MAP 307A; 315A; 1385A

GSC MAP 307A; 315A; 1385A

CSC MEM 175, p. 74

GSC SUM RPT 1921, p. 15A

CMJ Mar.8, 1969, p. 221

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W MINER Aug. 1970, pp. 39-42; Jun. 1981, pp. 25,26

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/04/30 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 189

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 190

NAME(S): RUBY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E 103P11W BC MAP: LATITUDE: 55 41 03 N LONGITUDE: 129 30 22 W ELEVATION: 293 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit portal on east bank of the Kitsault River (Devlin, B.D. (1987),

Figure 3.1).

COMMODITIES: Lead

**MINERALS** 

SIGNIFICANT: Pyrite Galena

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym

hermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au
x 0002 Metres DIMENSION: 0107 x 0002

STRIKE/DIP: COMMENTS: Vein strikes northwest and dips northeast, has been traced for 107

metres and is 1.2 to 2.4 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** 

Lower Jurassic Hazelton **FORMATION** Undefined Formation G06

IGNEOUS/METAMORPHIC/OTHER

Noranda/Kuroko massive sulphide Cu-Pb-Zn

TREND/PLUNGE:

PAGE:

NATIONAL MINERAL INVENTORY: 103P11 Pyr1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6171045 EASTING: 468178

REPORT: RGEN0100

1260

LITHOLOGY: Andesitic Breccia

Greenstone Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage). PHYSIOGRAPHIC AREA: Boundary Ranges

GRADE: Greenschist

### **CAPSULE GEOLOGY**

The Ruby occurrence is located 33 kilometres north of the town of Alice Arm, on the east bank of the Kitsault River. A pyritic quartz vein was explored here between 1919 and 1921.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group, and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline. This sequence has been regionally metamorphosed to greenschist facies.

The Ruby showing consists of a quartz vein in sheared andesitic breccia and greenstone (andesite) of the Hazelton Group. The vein is 1.2 to 2.4 metres wide and has been traced by trenching for 107 metres. The vein is concordant to the enclosing rocks, which strike northwest and dip southwest on the east limb of the Kitsault River Syncline. Mineralization consists of sparse pyrite with a trace of galena.

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EMPR MAP 8 EMPR OF 1986-2

EMPR PF (Silver Butte Resources Ltd., Statement of Material Facts,

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GSC MEM 175, p. 76 GSC SUM RPT \*1921, pp. 15A,16A WWW http://www.infomine.com/RUBY\_&\_MOOSE\_CLAIMS.html

MINFILE NUMBER: 103P 190

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

Devlin, B.D. (1987): \*Geology and Genesis of the Dolly Varden Silver Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia, M.Sc. Thesis

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 DATE REVISED: 1989/04/29 FIELD CHECK: N

MINFILE NUMBER: 103P 190

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Underground

MINFILE NUMBER: 103P 191

NATIONAL MINERAL INVENTORY: 103P12 Ag11

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6171355 EASTING: 468093

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1262

NAME(S): TORBRIT, TORIC

STATUS: Past Producer REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 41 13 N LONGITUDE: 129 30 27 W ELEVATION: 319 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: The mine is on the east bank of the Kitsault River, 23.5 kilometres

north of the town of Alice Arm (Devlin, 1987).

COMMODITIES: Silver Lead 7inc Gold Copper

Open Pit

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Chalcopyrite Pyrargyrite

Argentite Tetrahedrite ASSOCIATED: Quartz Calcite **Barite** Hematite Jasper

Magnetite Chlorite Siderite

ALTERATION: Chlorite Quartz Epidote Carbonate ALTERATION TYPE: Propylitic
MINERALIZATION AGE: Unknown Silicific'n Carbonate

**DEPOSIT** 

CHARACTER: Stratiform Wiggon Exhalative CLASSIFICATION: Volcanogenic Exhalative TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

G06 Noranda/Kuroko massive sulphide Cu-Pb-Zn

SHAPE: Bladed MODIFIER: Faulted

DIMENSION: 490 x 24 Metres STRIKE/DIP: 050/45N TREND/PLUNGE:

COMMENTS: Attitude of exhalite horizon; dimension of pod-shaped ore shoot.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

LITHOLOGY: Andesitic Lapilli Ash Tuff

Andesitic Crystal Vitric Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: TORBRIT REPORT ON: Y

> CATEGORY: YEAR: 1971 Combined

786285 Tonnes QUANTITY:

**GRADE** COMMODITY 311.9000 Silver Grams per tonne

Lead 0.4200 Per cent Zinc 0.5000 Per cent

COMMENTS: Proven, probable and possible reserves.

REFERENCE: Dolly Varden Mining Ltd. Annual Report 1971.

**CAPSULE GEOLOGY** 

The Torbrit mine occurs on the east bank of the Kitsault River, 23.5 kilometres north of the town of Alice Arm. Between 1949 and 1959 Torbrit Silver Mines Ltd. produced 1,249,942 tonnes of ore containing silver, lead, zinc and gold.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower-Middle Jurassic Hazelton Group and the Middle-Upper Jurassic Bowser Lake Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River syncline. This sequence has been regionally metamorphosed to greenschipt forcing

metamorphosed to greenschist facies.

The Torbrit orebody is comprised of a stratiform volcanogenic silver-zinc-barite exhalative horizon developed in a section of Hazelton Group andesitic pyroclastics on the east limb of the Kitsault River Syncline. This horizon is enclosed in an overlying

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### **CAPSULE GEOLOGY**

plagioclase porphyritic andesitic-lapilli-ash tuff and an underlying andesitic crystal vitric (shard) tuff that have been variably propylitized, silicified and carbonatized at least 30 metres outward from the horizon.

The exhalite horizon strikes approximately 050 degrees for at least 300 metres and dips 45 degrees northwest. The deposit is up to 60 metres thick. Within the east end of this horizon lies a podshaped ore shoot up to 24 metres thick that plunges 30 degrees for at least 490 metres towards 295 degrees.

Faulting occurs along the footwall of the deposit with dip slip movement. The deposit is also cut by a later set of faults, with right-hand displacement of up to 15 metres, that strikes northwards between 030 and 135 degrees and dips between 65 and 80 degrees. Later horizontal faults displace the deposit up to 43 metres. It is cut by a series of lamprophyre dykes from a few centimetres to 3 metres wide, striking north-northeast and dipping steeply northwest.

Mineralization consists of pyrite, sphalerite and galena with minor chalcopyrite and traces of pyrargyrite, argentite and tetrahedrite interlaminated with quartz, calcite, barite, hematite, jasper, siderite, magnetite and chlorite. This well-layered exhalite horizon exhibits local brecciation.

Between 1928 and 1959 1,251,339 tonnes grading 463.47 grams per tonne silver, 0.00538 grams per tonne gold, 0.389 per cent lead and 0.0441 per cent zinc were produced from the Torbrit mine.

Combined (proven, probable, possible) reserves are 786,285 tonnes grading 311.9 grams per tonne silver, 0.42 per cent lead and 0.50 per cent zinc (Dolly Varden Mining Ltd. Annual Report 1971).

A fluid inclusion study coupled with geological and geochemical data suggests that the silver rich deposits (103P 188,191,189,and 233) in the Kitseault River be related to each other and that they may be silver rich analogues to Eskay Creek. The Kitseault River deposits all formed near or at surface or at shallow depth in the waning stages of Hazelton arc volcanism. Their mineralization varies from multiepisodic and irregularly laminated to bedded. Colloform, crustiform, and comb textures clearly indicate high level deposition of quartz that formed under low temperatures in low saline environments such as a hot spring setting.

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      59,60; 1924-55; *1925-76-78,359,447; 1926-84; 1927-75,76; 1928-87; 1929-86; 1930-94,95; 1947-94,95,203; *1948-71-75; 1949-
      75,76; 1950-79,80; *1951-102,103; 1952-77,78; 1953-90; 1954-83,84;
     1955-19,20; 1956-19,20; 1957-7,8; 1958-6,7; 1959-8-10; 1961-10; 1962-9,10; 1966-42; 1967-41
EMPR ASS RPT 7098
EMPR EXPL 1978-238,239; 1980-409
EMPR GEM 1971-125
EMPR ENG INSP (Mine Plans: #61665-61673, 1959)
EMPR ENG INSP (Mine Plans. #61665-61673, 1959)

EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp. 235-243; 2000, pp. 313-326; 2001, pp. 177-196

EMPR MAP 8; *64; 65 (1989)

EMPR OF 1986-2; 1992-1; 1998-10

EMPR PF (Torbrit Silver Mines Ltd., Cross Section and Plan of Under-
     ground workings; Dolly Varden Mines Ltd. Prospectus and Annual Reports; Skerl, A.C. (1963) Geology Reports; Mitchell, M.A. (1973) Report; *Pearson, W.N. (1986) Report)
EMR MIN BULL MR 223 B.C. 310
EMR MP CORPFILE (Toric Mines Co. Ltd.; Torbrit Mining Co. Ltd.; The Mining Corp. of Canada Ltd.; Torbrit Silver Mines Ltd.; Dolly
     Varden Resources Ltd.)
EMR MP FILE MR-AG-301.00 BC
EMR MP RESFILE (Torbrit)
GSC MAP 307A; 315A; 1385A
GSC MAP 307A, 315A, 1385A

GSC MEM 175, p. 83

GSC SUM RPT 1921, p. 15A; 1928, pp. 44A,45A

CANMET RPT 695, pp. 119-122; 771, pp. 155-161

CIM BULL Vol.44, No.470, 1951 p. 399

EG *Vol.54, 1959, pp. 1461-1495

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W MINER Aug. 1970, pp. 39-42; Jun. 1981, pp. 25,26
Devlin, B.D. (1987): *Geology and Genesis of the Dolly Varden Silver
      Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia M.Sc. Thesis
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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 192

NATIONAL MINERAL INVENTORY:

NAME(S): FISHER

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P12E BC MAP: LATITUDE: 55 42 25 N

NORTHING: 6173597 EASTING: 465980

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1264

LONGITUDE: 129 32 29 W ELEVATION: 917 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on showing (Assessment Report 2887, Map 5).

COMMODITIES: Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

Chlorite ALTERATION: Pyrite Quartz Sericite

ALTERATION TYPE: Pyrite Silicific'n Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: LÓ1 Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1970 CATEGORY: Assay/analysis

> SAMPLE TYPE: Chip

COMMODITY GRADE

Silver 83.0000 Grams per tonne Copper 0.8900 Per cent

COMMENTS: A 1.2 metre chip sample.

REFERENCE: Assessment Report 2887, page 12.

**CAPSULE GEOLOGY** 

The Fisher showing is located 2.5 kilometres west of the Kitsault River, 25.5 kilometres north of the town of Alice Arm. showing was rediscovered in 1970 after being investigated sometime earlier this century.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group, and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline. This sequence has been regionally metamorphosed to greenschist facies.

The Fisher showing occurs in the western margin of the "Copper Belt", a 10 kilometre long northwest trending gossanous body of Hazelton Group plagioclase-hornblende porphyritic andesite that has been extensively pyritized with variable silicification and sericitization along its length.

This showing consists of a quartz vein with inclusions of chlorite that is developed near the intersection of three faults striking 030, 000 and 120 degrees. The vein is mineralized with pyrite and chalcopyrite. A 1.2 metre chip sample assayed 83.0 grams per tonne silver and 0.89 per cent copper (Assessment Report 2887, page 12).

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

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**BIBLIOGRAPHY** 

EMPR ASS RPT \*2887, 15371 EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990,

pp. 235-243
EMPR MAP 8
EMPR OF 1986-2
EMR MP CORPFILE (Dolly Varden Mines Ltd.)
GSC MAP 307A

DATE CODED: 1989/04/29 DATE REVISED: // CODED BY: PSF REVISED BY: FIELD CHECK: N FIELD CHECK:

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 193

NATIONAL MINERAL INVENTORY:

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MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6173059

EASTING: 467634

TREND/PLUNGE:

REPORT: RGEN0100

1266

NAME(S): MITCHELL, MUSKATEER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 42 08 N LONGITUDE: 129 30 54 W ELEVATION: 484 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on outcrop of quartz-pyrite-galena vein

(Devlin, B.D. (1987), Figure 3.1).

COMMODITIES: Silver

Lead 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Galena Sphalerite

ASSOCIATED: Quartz
ALTERATION: Chlorite
ALTERATION TYPE: Propylitic Carbonate **Epidote** 

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic TYPE: 105 SHAPE: Tabular MODIFIER: Faulted Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0244 x 0002 Metres STRIKE/DIP:

COMMENTS: Vein strikes west-northwest has been traced for 244 metres and is 0.3

to 2.3 metres wide.

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** GROUP IGNEOUS/METAMORPHIC/OTHER **Undefined Formation** 

Lower Jurassic Hazelton

LITHOLOGY: Andesitic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YFAR: 1971 Assay/analysis

COMMODITY **GRADE** 

79.5000 Silver Grams per tonne Per cent 11.0000 Lead Per cent Zinc 4.4000

COMMENTS: Grab sample from eastern extension of Mitchell vein.

REFERENCE: Assessment Report 7098, page 28.

**CAPSULE GEOLOGY** 

The Mitchell vein is located  $0.4~{\rm kilometres}$  east of the Kitsault River, 25 kilometres north of the town of Alice Arm. A soil sample survey carried out by Dolly Varden Mines led to the discovery of this silver bearing vein in 1971.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group, and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline. This sequence has been regionally metamorphosed to greenschist facies.

The Mitchell showing is comprised of a west-northwest trending quartz-carbonate vein that has been traced for 244 metres in propylitized andesitic tuff of the Hazelton Group. In surface exposures it varies from 0.3 to 2.3 metres in width. Its eastern extension has been segmented by a series of faults displaying dextral movement. Mineralization comprises pyrite, galena and sphalerite in

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

a gangue of quartz and carbonate. A grab sample from the eastern extension of the vein assayed  $79.5\,$  grams per tonne silver,  $11.0\,$  per cent lead, 4.40 per cent zinc (Assessment Report 7098, page 28).

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EMR MP CORPFILE (Dolly Varden Mines Ltd.)

GSC MAP 307A; 1385A

Devlin, B.D. (1987): \*Geology and Genesis of the Dolly Varden Silver Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia, M.Sc. Thesis

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FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 194

LATITUDE: 55 41 28 N

LOCATION ACCURACY: Within 500M

COMMENTS: Portal of Number 1 adit (northernmost adit) (Devlin, B.D. (1987),

Lead

**MINERALS** 

Marcasite

Pvrite Carbonate

ASSOCIATED: Quartz ALTERATION: Quartz ALTERATION TYPE: Silicific'n Carbonate Pyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I05 Polym **Epigenetic** 

Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Bladed

MODIFIER: Faulted

STRIKE/DIP: 010/80W DIMENSION: 0400 x 0110 x 0006 Metres

COMMENTS: Vein strikes between 000 and 020 degrees; dips steeply to the west.

HOST ROCK
DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP Lower Jurassic Hazelton **FORMATION** 

Undefined Formation

LITHOLOGY: Plagioclase Porphyritic Andesite

Andesitic Crystal Vitric Tuff

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP:

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

GRADE: Greenschist

PHYSIOGRAPHIC AREA: Boundary Ranges

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

INVENTORY

ORE ZONE: VEIN

REPORT ON: N

CATEGORY: Assay/analysis SAMPLE TYPE: Chip

YEAR: 1968

COMMODITY Silver

GRADE 243.0000 Grams per tonne

COMMENTS: Average grade for a 36.6 by 2.8 metre section of the vein. REFERENCE: Property File (Silver Butte Mines 1968 Annual Report, page 1).

CAPSULE GEOLOGY

The Tiger vein occurs 0.4 kilometres east of the Kitsault River,

The Tiger vein occurs 0.4 kilometres east of the Kitsault River, 24 kilometres due north of the town of Alice Arm. This prospect has been extensively explored since 1916 for silver.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group, and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline. This sequence has been regionally metamorphosed to River Syncline. This sequence has been regionally metamorphosed to greenschist facies.

This prospect consists of quartz vein developed in plagioclase porphyritic andesite and andesitic crystal vitric (shard) tuff of the Hazelton Group. These rocks have been silicified, carbonatized and pyritized in the vicinity of the vein.

The vein has been segmented into four sections varying from 3 to 73 metres in length by a series of steeply dipping faults striking approximately 050 degrees. The vein has a total strike length of 110 metres. It strikes between 000 and 020 degrees and dips steeply to

> MINFILE NUMBER: 103P 194

PAGE: 1268 REPORT: RGEN0100

NATIONAL MINERAL INVENTORY: 103P12 Ag10

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6171818

EASTING: 468219

NAME(S): TIGER

STATUS: Prospect REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LONGITUDE: 129 30 20 W ELEVATION: 550 Metres

Figure 3.1).

COMMODITIES: Silver

SIGNIFICANT: Pyrite

Silver

Galena

Pyrargyrite

Argentite

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

the west. Widths vary from a metre to  $5.7\ \mathrm{metres}$ . It has been traced downdip for at least 400 metres. Mineralization consists of pyrite, marcasite, galena, pyrargyrite, argentite, and silver in a gangue of quartz. The northern most 36.6 metres of the vein is reported to average 243 grams per tonne silver over an average width of 2.8 metres (Property File - Silver Butte Mines 1968 Annual Report, page 1).

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GSC MEM 175, p. 82
GSC SUM RPT 1921, p. 18A; 1928, pp. 46A,47a
Devlin, B.D. (1987): Geology and Genesis of the Dolly Varden Silver
Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia M.Sc. Thesis Placer Dome File

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/29 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 195

NATIONAL MINERAL INVENTORY: 103P12 Ag9

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6172596

EASTING: 467543

PAGE:

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1270

NAME(S): **NORTH MUSKETEER**, MUSKETEER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 41 53 N

LONGITUDE: 129 30 59 W ELEVATION: 366 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Adit portal (Minister of Mines Annual Report 1951, Figure 1).

COMMODITIES: Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite

Pyrargyrite ASSOCIATED: Quartz

Marcasite Silver

Galena

Chalcopyrite

Sphalerite

Hematite Carbonate Barite

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Hydrothermal nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPF: 105

STRIKE/DIP: 120/90 DIMENSION: TREND/PLUNGE:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** Lower Jurassic Hazelton **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PHYSIOGRAPHIC AREA: Boundary Ranges

GRADE: Greenschist

LITHOLOGY: Andesitic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: DRILLHOLE

REPORT ON: N

CATEGORY: Assav/analysis SAMPLE TYPE: Drill Core

YEAR: 1972

COMMODITY

GRADE

Silver

514.0000 Grams per tonne

COMMENTS: A 2.4 metre intersection.

REFERENCE: Geology, Exploration and Mining in B.C. 1972, page 509.

**CAPSULE GEOLOGY** 

The North Musketeer occurrence is located on the east bank of the Kitsault River, 24.5 kilometres north of the town of Alice Arm. Two silver-bearing veins were periodically explored here between 1916

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group, and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline. This sequence has been regionally metamorphosed to greenschist facies.

The North Musketeer comprises two veins developed in Hazelton Group andesitic tuffs. The more significant vein has been traced for 76 metres in an adit and a series of trenches. It is up to at least 4.6 metres, strikes 120 degrees and dips vertically. Mineralization consists of pyrite, marcasite, galena, chalcopyrite and sphalerite in a gangue of quartz, carbonate, barite and hematite. A 2.4 metre long drill hole intersection 61 metres below the adit containing traces of pyrargyrite and native silver assayed 514 grams per tonne silver (Geology, Exploration and Mining In British Columbia 1972, page 509).

Sixty metres south a north trending vein of similar mineralogy

has been defined.

**BIBLIOGRAPHY** 

EMPR AR 1916-79; 1918-60; 1919-55; \*1920-47.48; 1922-60.353;

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **BIBLIOGRAPHY**

1923-386; \*1951-99-101 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM 1971-125,126; \*1972-508,509 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (Dolly Varden Mines Ltd. Annual Report, 1972) EMR MP CORPFILE (Dolly Varden Mines Ltd.) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 74 GSC SUM RPT 1921, p. 18A; \*1929, pp. 45A,46A Devlin, B.D. (1987): Geology and Genesis of the Dolly Varden Silver Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia M.Sc. Thesis

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1989/04/29 FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 196

NATIONAL MINERAL INVENTORY: 103P12 Cu7

NAME(S): **RED POINT** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1272

LATITUDE: 55 41 27 N LONGITUDE: 129 31 20 W ELEVATION: 520 Metres NORTHING: 6171795 EASTING: 467171

LOCATION ACCURACY: Within 500M

COMMENTS: Portal of the northeastern most adit of a pair of closely-spaced

parallel adits (Devlin, B.D. (1987), Figure 3.1).

COMMODITIES: Gold Silver Copper I ead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena

COMMENTS: Disseminated to massive in quartz veins and siliceous zones.

ASSOCIATED: Quartz COMMENTS: In veins and silicified zones.

Sericite Pyrite

ALTERATION: Quartz
ALTERATION TYPE: Silicific'n
MINERALIZATION AGE: Unknown Sericitic Pyrite

**DEPOSIT** 

CHARACTER: Disseminated Vein Massive

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 102 Intrusion-related Au pyrrhotite veins L01 Subvolcanic Cu-Ag-Au (As-Sb)

COMMENTS: A 6.0 metre wide zone trending 175 degrees contains steeply dipping

quartz veins.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1986

SAMPLE TYPE: Channel

COMMODITY **GRADE** Gold 15.5000 Grams per tonne

COMMENTS: A 1.95 metre long channel sample. REFERENCE: Northern Miner, November 3, 1986.

CAPSULE GEOLOGY

The Red Point showing is located on the north bank of Evindsen Creek, 0.6 kilometres west of the Kitsault River, 24 kilometres north of the town of Alice Arm. This occurrence, first staked in 1913, has

been explored extensively for copper and gold.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group, and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline. This sequence has been regionally metamorphosed to

greenschist facies.

The Red Point prospect lies near the south end of the "Copper Belt", a 10.0 kilometre long northwest trending gossanous body of plagioclase-hornblende porphyritic andesite of the Hazelton Group. The andesite has been extensively pyritized with variable

silicification and sericitization along its length.

The showing is comprised of a 6.0 metre wide zone, trending 175 degrees, consisting of steeply dipping quartz veins up to 1.2 metres wide and silicified zones of greater width. Mineralization consists of disseminated pyrite and chalcopyrite, with traces of galena and

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

pods of massive chalcopyrite up to 0.6 metres in width and 1.5 metres in length. Three horizontal diamond-drill holes 23 metres below the outcrop intersected a zone of disseminated pyrite with minor

disseminated chalcopyrite.

Channel sampling in 1986 resulted in gold assays averaging 5.66 grams per tonne over a width of 4.57 metres and a length of 38.1 metres (Northern Miner, Nov.3, 1986).

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GSC MAP 307A; 315A; 1385A
GSC MEM \*175, p. 76
GSC SUM RPT 1921, p. 20A
GCNL #147, 1970; #14,#99, 1987; #64, 1989
N MINER \*Nov.3, 1986; Jan.30, 1989
W MINER Aug. 1970, pp. 39-42
Devlin, B.D. (1987); Geology and Genesis of the Dolly Varden Silver Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia M.Sc. Thesis

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/29 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 197 NATIONAL MINERAL INVENTORY: 103P12 Cu7

NAME(S): **COMBINATION**, COMBINE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 41 51 N NORTHING: 6172539 LONGITUDE: 129 31 40 W ELEVATION: 671 Metres EASTING: 466827

LOCATION ACCURACY: Within 500M

COMMENTS: Portal of adit in Combination vein (Assessment Report 2887, Map 5).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Arsenopyrite

COMMENTS: As massive pods, stringers and blebs.

ASSOCIATED: Quartz Barite

ALTERATION: Pyrite
ALTERATION TYPE: Pyrite Quartz Sericite Chlorite Carbonate Sericitic Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: I02 Intrusio DIMENSION: 0049 x 0004 Subvolcanic Cu-Ag-Au (As-Sb) TREND/PLUNGE: Intrusion-related Au pyrrhotite veins x 0004 Metres L01 STRIKE/DIP:

COMMENTS: Vein in shear zone strikes 105 degrees for 49 metres and is 0.9 to

3.7 metres wide.

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Lower Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

LITHOLOGY: Feldspar Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

**RELATIONSHIP:** GRADE: Greenschist COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1930

SAMPLE TYPE: Grab **GRADE** 

COMMODITY Silver 75.4000 Grams per tonne 7.5400 Gold Grams per tonne 2.1000 Per cent

Copper COMMENTS: Grab sample from adit dump.

REFERENCE: Minister of Mines Annual Report 1930, page 96.

**CAPSULE GEOLOGY** 

The Combination showing is located 0.5 kilometres southwest of the Kitsault River, 24.5 kilometres north of the town of Alice Arm. A vein has been periodically explored here for copper and precious metals since 1913.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group, and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline and has been regionally metamorphosed to greenschist facies.

The showing occurs in a 10.0 kilometre long northwest trending body of gossanous Hazelton Group feldspar-hornblende porphyritic andesite. The andesite, informally called the Copper Belt, has been extensively pyritized and is variably silicified and sericitized along its length.

The showing comprises a quartz-barite vein developed in a shear zone, striking 105 degrees for 49 metres. The vein varies in width from 0.9 to 3.7 metres. The vein is mineralized with massive PAGE:

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### **CAPSULE GEOLOGY**

pods, stringers and blebs of pyrite and chalcopyrite with traces of galena and arsenopyrite. A grab sample from an adit dump assayed 7.54 grams per tonne gold, 75.4 grams per tonne silver and 2.1 per cent copper (Minister of Mines Annual Report 1930, page 96).

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EMPR AR 1913-81; 1916-81; 1922-57; \*1930-96; 1931-38; 1934-B17; 1951-98,99 EMPR ASS RPT \*2887 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM \*1970-81-85 EMPR MAP 8 EMPR OF 1986-2 EMPR OF 1986-2

EMPR PF (Dolly Varden Mines Ltd. Annual Report, 1972)

GSC MAP 307A; 315A; 1385A

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Devlin, B.D. (1987): Geology and Genesis of the Dolly Varden Silver

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 198

NATIONAL MINERAL INVENTORY: 103P12 Ag7

NAME(S): WOLF

STATUS: Developed Prospect REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1276

LATITUDE: 55 42 26 N LONGITUDE: 129 31 07 W ELEVATION: 357 Metres NORTHING: 6173617 EASTING: 467411

LOCATION ACCURACY: Within 500M

COMMENTS: Lowermost portal, on the east side of the Kitsault River, 25.5 kilometres north of the town of Alice Arm (Devlin, 1987).

COMMODITIES: Silver

7inc

I ead

Copper

**MINERALS** 

SIGNIFICANT: Pyrite

Sphalerite Galena Silver

Chalcopyrite

Tetrahedrite

Pyrargyrite ASSOCIATED: Quartz
ALTERATION: Quartz
ALTERATION TYPE: Silicific'n

Carbonate **Barite** Chlorite Pyrite Pyrite

Jasper Carbonate **Epidote** 

**Propylitic** 

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein

CLASSIFICATION: Epithermal

Hydrothermal Polymetallic veins Ag-Pb-Zn±Au **Epigenetic** 

Epithermal Au-Ag: low sulphidation

TYPE: 105 SHAPE: Tabular

MODIFIER: Faulted

DIMENSION:

COMMENTS: Number 2 and 3 veins.

STRIKE/DIP: 020/90

H05

TREND/PLUNGE:

HOST ROCK
DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Jurassic

**GROUP** Hazelton **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Andesitic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

GRADE: Greenschist

INVENTORY

ORE ZONE: WOLF

REPORT ON: Y

CATEGORY: QUANTITY:

Combined 485270 Tonnes YFAR: 1971

COMMODITY

**GRADE** 335.6000 Grams per tonne

Silver Lead

0.5900

Per cent Per cent

Zinc

0.1200

COMMENTS: Proven, probable and possible reserves. REFERENCE: Dolly Varden Mining Ltd. Annual Reports 1971, 1973.

**CAPSULE GEOLOGY** 

The Wolf occurrence is located on the east side of the Kitsault River,  $25.5 \ \text{kilometres}$  north of the town of Alice Arm. Extensive diamond drilling and underground development between 1960 and 1980 by various operators has defined moderate sized reserves of low grade silver-lead-zinc ore.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower-Middle Jurassic Hazelton Group and the Middle-Upper Jurassic Bowser Lake Group. sequence is folded into the doubly plunging, north-northwest trending Kitsault River syncline. This sequence has been regionally metamorphosed to greenschist facies.

The Wolf prospect comprises three epithermal quartz-carbonate veins numbered 1 to 3 from east to west in an eastward dipping sequence of Hazelton Group andesitic dust tuffs. These rocks have undergone extensive propylitization and are intensely silicified and pyritized in the vicinity of the veins.

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

The number 1 vein strikes 070 degrees for at least 100 metres, dips steeply northwest and varies in width from 5 to 16 metres. The number 2 and 3 veins strike 020 degrees and dip near vertical. The number 2 vein extends for 250 metres with widths of 2 to 8 metres, while the number 3 vein has been traced for 210 metres.

Steeply dipping faults with dextral displacement parallel the hanging wall and footwall of all three veins. Younger moderately dipping normal faults striking approximately 060 degrees offset the veins with sinistral displacement.

The three veins contain pyrite with minor sphalerite, galena, chalcopyrite and traces of tetrahedrite, pyrargyrite and native silver in a banded to brecciated gangue of quartz and carbonate with local concentrations of barite and jasper.

Combined (proven, probable and possible) reserves at Wolf are 485,270 tonnes grading 335.6 grams per tonne silver, 0.59 per cent lead and 0.12 per cent zinc (Dolly Varden Mining Ltd. Annual Reports 1971, 1973).

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EMPR ASS RPT 2887, 7098, *10042
EMPR BULL 63
EMPR ENG INSP (Mine Plans: #61793, Nov. 1968)
EMPR EXPL 1978-238,239; 1980-409
EMPR FIELDWORK 1985, pp. 219-224,327-330; 1988, pp. 233-240; 1990,
    pp. 235-243; 2000, pp. 313-326
EMPR GEM 1969-60
EMPR MAP 8; 65 (1989)
EMPR OF 1986-2; 1992-1; 1998-10
EMPR PF (Dolly Varden Mines Ltd., Cross Sections and Drill Hole Plans, 1962; Skerl, A.C. (1963) Geology Reports; Buckland, F.C.
     (1964) Report; Dolly Varden Mines Prospectus and Annual Reports,
     1969, 1971; Mitchell, M.A. (1973) Report; Pearson, W.N. (1986)
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    Resources Ltd.)
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N MINER Nov.13, 1980
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## MINFILE MASTER REPORT

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MINFILE NUMBER: 103P 199

NATIONAL MINERAL INVENTORY: 103P12 Cu6

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6173528 EASTING: 466870

REPORT: RGEN0100

1278

NAME(S): **SURPRISE**, VELVET, OVRAY, CARPENTER

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P12E

BC MAP:

LATITUDE: 55 42 23 N LONGITUDE: 129 31 38 W

ELEVATION: 461 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on trench (Devlin, B.D. (1987), Figure 3.1).

COMMODITIES: Gold Silver Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Galena Sphalerite Silver

COMMENTS: As blebs and stringers.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown Calcite Barite

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: 102 Intrusi Epigenetic

Intrusion-related Au pyrrhotite veins L01 Subvolcanic Cu-Ag-Au (As-Sb) STRIKE/DIP: TREND/PLUNGE:

DIMENSION: 0004 Metres COMMENTS: Zone of veins and lenses 3.7 metres wide, strikes northeast.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional

RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1970 Assay/analysis

SAMPLE TYPE: Chip COMMODITY **GRADE** 

Silver 120.0000Grams per tonne Gold 13 7000 Grams per tonne

Per cent 2.2500

Copper COMMENTS: A 1.5 metre chip sample. REFERENCE: Western Miner, August 1970, page 41.

**CAPSULE GEOLOGY** 

The Surprise showing is located 0.5 kilometres west of the Kitsault River, 25.5 kilometres north of the town of Alice Arm. The showing was extensively explored by Dolly Varden Mines in the early 1970's for copper and precious metals.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group, and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline. This sequence has been regionally metamorphosed to greenschist facies.

The Surprise occurrence is hosted in an altered pyritic andesite of the Hazelton Group similar to that of the "Copper Belt" to the west. The andesite is overlain by Spatsizi Group argillite,

siltstone and wacke to the north and east.

This showing consists of a 3.7 metre wide northeast striking zone containing quartz-calcite-barite veins and lenses up to 6.0 metres wide mineralized with blebs and stringers of pyrite, chalcopyrite, galena and sphalerite with traces of native silver. Most of the mineralization is contained in two veins, one striking 060 degrees for 73 metres and a second striking 020 degrees for 76

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

metres. A 1.5 metre chip sample assayed 13.7 grams per tonne gold, 120 grams per tonne silver and 2.25 per cent copper (Western Miner Aug., 1970, page 41).

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EMPR OF 1986-2
EMPR PF (Dolly Varden Mines Ltd. Annual Reports 1970,1972; Mitchell,
M.A. (1973) Report; Pearson, W.N. (1986) Report)
EMR MP CORPFILE (Dolly Varden Mines Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 75
GCNL #147, 1970; #10, 1971
W MINER Aug. 1970, pp. 39-42
Devlin, B.D. (1987): Geology and Genesis of the Dolly Varden Silver
Camp, Alice Arm Area, Northwestern British Columbia, University Camp, Alice Arm Area, Northwestern British Columbia, University of British Columbia M.Sc. Thesis

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/22 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 199

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Silver

MINFILE NUMBER: 103P 200

NATIONAL MINERAL INVENTORY: 103P12 Cu7

NAME(S): RACE HORSE, DAN PATCH, NANCY HANKS

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1280

LATITUDE: 55 41 58 N

NORTHING: 6172761 EASTING: 466183

LONGITUDE: 129 32 17 W ELEVATION: 920 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location centered on westernmost trench (Devlin, B.D. (1987), Figure

COMMODITIES: Copper Gold

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated

CLASSIFICATION: Hydrothermal TYPE: L01 Subvo **Epigenetic** Subvolcanic Cu-Ag-Au (As-Sb) Metres Intrusion-related Au pyrrhotite veins 102

STRIKE/DIP: DIMENSION: 0090 TREND/PLUNGE:

COMMENTS: Vein traced for 90 metres, is developed along a fault striking 120

degrees.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Feldspar Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Greenschist

COMMENTS: Situated in the south end of Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1913 Assav/analysis SAMPLE TYPE: Grab

COMMODITY **GRADE** 

Silver Grams per tonne 69.0000 Gold 1.3300 Grams per tonne 0.9000 Per cent Copper

REFERENCE: Minister of Mines Annual Report 1913, page 82.

CAPSULE GEOLOGY

The Race Horse showing is located 1.0 kilometre to the west of the Kitsault River, 25.0 kilometres to the north of the town of Alice Arm. A copper bearing vein has been periodically explored since 1913.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group, and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline. This sequence has been regionally metamorphosed to greenschist facies.

The Race Horse showing lies at the western margin of a 10 kilometre long northwest trending body of gossanous Hazelton Group feld-spar-hornblende porphyritic andesite. The andesite, informally known

as the Copper Belt, is extensively pyritized with variable silicification and sericitization along its length.

The showing consists of a northwest trending quartz vein that
has been traced in a series of trenches for 90 metres. It is developed along the east side of a fault trending 120 degrees. vein is mineralized with pyrite and minor chalcopyrite. A sample of the vein assayed 1.33 grams per tonne gold, 69 grams per tonne silver and 0.9 per cent copper (Minister of Mines Annual Report 1913, page

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

## **CAPSULE GEOLOGY**

82).

## **BIBLIOGRAPHY**

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DATE CODED: 1985/07/24 DATE REVISED: 1989/04/21 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 200

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 201

NAME(S): STAR LIGHT, VANCOUVER

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 42 27 N

LONGITUDE: 129 32 56 W ELEVATION: 1062 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of surface trace of vein (Assessment Report 2887, Map 5).

COMMODITIES: Zinc. Silver Copper Gold

**MINERALS** 

Chalcopyrite Sphalerite Galena

SIGNIFICANT: Pyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal Epigenetic

TYPE: I05 SHAPE: Tabular Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Faulted

DIMENSION: 0240 Metres STRIKE/DIP: 140/ TREND/PLUNGE: COMMENTS: Zone, 240 metres long, of quartz breccia veins and stringers along

fault striking 140 degrees.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Black Siltstone

Greywacke

Feldspar Hornblende Porphyritic Andesite

HOSTROCK COMMENTS: Hosted in sediments within the "Copper Belt" andesite.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE:

Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> YFAR: 1970 Assay/analysis

CATEGORY: Assa SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver 3.4000 Grams per tonne Gold 0.6900 Grams per tonne 0.1300 Copper Per cent Lead 0.0250 Per cent

0.5400 Per cent COMMENTS: A 1.5 metre chip sample across quartz breccia vein containing pyrite

and chalcopyrite stringers.

7inc

REFERENCE: Geology, Exploration and Mining in B.C. 1970, page 86.

**CAPSULE GEOLOGY** 

The Star Light showing occurs 1.5 kilometres to the west of the Kitsault River, 25.5 kilometres to the north of the town of Alice Arm. It has been prospected for precious and base metals since 1913. The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline and has been regionally metamorphosed to greenschist facies.

The Star Light showing comprises a series of quartz stringers and quartz breccia veins in shear zones within a fault striking 140 degrees. These are hosted in a narrow northwest trending body of Hazelton Group greywacke and black siltstone set in the western margin of the "Copper Belt" pyritic feldspar-hornblende porphyritic

PAGE:

NATIONAL MINERAL INVENTORY: 103P12 Ag8

MINING DIVISION: Skeena

GRADE: Greenschist

UTM ZONE: 09 (NAD 83)

Lead

NORTHING: 6173662

EASTING: 465509

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

andesite. This zone length of 240 metres. This zone of veins and stringers is exposed over a strike

 ${\tt Mineralization\ consists\ of\ stringers,\ blebs\ and\ disseminations}$ of pyrite, chalcopyrite, sphalerite and galena within the quartz breccia veins and quartz stringers. A chip sample across a 1.5 metre wide quartz-breccia vein with pyrite and chalcopyrite stringers assayed 0.69 grams per tonne gold, 3.4 grams per tonne silver, 0.13 per cent copper, 0.025 per cent lead and 0.54 per cent zinc (Geology, Exploration and Mining in B. C. 1970, page 86).

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 202

NATIONAL MINERAL INVENTORY: 103P12 Cu5

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6174184

EASTING: 466072

PAGE:

REPORT: RGEN0100

1284

NAME(S): **COPPER CLIFF**, GASH CREEK

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 42 44 N LONGITUDE: 129 32 24 W ELEVATION: 747 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit in vein on Gash Creek (Assessment Report 2887,

Map 5).

COMMODITIES: Gold Copper Silver Lead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite COMMENTS: Stringers and disseminations.

ASSOCIATED: Quartz
ALTERATION: Quartz
ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal Epigenetic

Intrusion-related Au pyrrhotite veins L01 TYPE: 102 Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** GROUP IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Feldspar Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP:

GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE\_TYPE: Chip YEAR: 1970 Assay/analysis

COMMODITY **GRADE** 

0.3400 Grams per tonne Gold

0.0300 Per cent

Copper U.COMMENTS: A 9.1 metre chip sample, trace silver and lead. REFERENCE: Geology, Exploration and Mining in B.C. 1970, page 86.

CAPSULE GEOLOGY

The Copper Cliff showing lies 0.8 kilometres west of the Kitsault River, 26 kilometres north of the town of Alice Arm.

showing was extensively prospected for copper earlier this century.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River.

Syncline and has been regionally metamorphosed to greenschist facies.

The Copper Cliff showing is situated in the gossanous feldsparhornblende porphyritic "Copper Belt" andesite of the Hazelton Group adjacent to the eastern contact with overlying Spatsizi Group

greywackes and argillite.

This showing is comprised of a silicified zone in pyritic andesite displaying quartz lenses and veinlets and disseminations of pyrite with minor chalcopyrite. A 9.1 metre chip sample assayed 0.34 grams per tonne gold, trace silver, 0.03 per cent copper and trace

lead (Geology, Exploration and Mining In B. C. 1970, p.86).

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EMPR AR 1913-82,83; 1916-80,82; 1918-66,67; 1926-82; 1927-77,396;

1951-96

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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REPORT: RGEN0100

## MINFILE MASTER REPORT

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MINFILE NUMBER: 103P 203

NATIONAL MINERAL INVENTORY: 103P12 Ag6

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6174390

EASTING: 467417

REPORT: RGEN0100

1286

NAME(S): SILVER HORDE

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 42 51 N

LONGITUDE: 129 31 07 W ELEVATION: 564 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit (Minister of Mines Annual Report 1951, Fig.1).

COMMODITIES: Silver 7inc I ead Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Marcasite Galena Sphalerite Chalcopyrite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Breccia

Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Tabular MODIFIER: Faulted

DIMENSION: 0030 x 0003 STRIKE/DIP: 040/67E Metres TREND/PLUNGE:

COMMENTS: Attitude and dimensions of quartz breccia vein.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesitic Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

GRADE

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1951

SAMPLE TYPE: Chip

COMMODITY Silver 209.0000 Grams per tonne

Lead 0.9000 Per cent

COMMENTS: A 1.5 metre chip sample, trace gold. REFERENCE: Minister of Mines Annual Report 1951, page 97.

CAPSULE GEOLOGY

The Silver Horde occurrence is situated 0.5 kilometres east of the Kitsault River, 26 kilometres north of the town of Alice Arm. This showing was extensively prospected for its silver-lead-zinc

mineralization between 1916 and 1930.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline and has been regionally metamorphosed to greenschist facies.

The Silver Horde occurrence is comprised of a silicified zone and a quartz breccia vein developed in andesitic tuffs of the Hazelton Group. The silicified zone strikes 020 degrees and is at least 1 metre\_wide. It is mineralized with spherules of marcasite and galena.

The quartz breccia vein, situated 160 metres northeast of the silicified zone, strikes 040 degrees and dips 65 to 70 degrees southeast. It varies from 0.6 to 3.0 metres wide and has been traced for 30 metres. A 30 metre long adit, 9 metres below the outcrop encountered several faults only, indicating the vein is terminated at shallow depths by a fault. The vein is mineralized with pyrite,

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

marcasite, galena, sphalerite and chalcopyrite in a gangue of quartz and fragments of country rock. A 1.5 metre chip sample assayed trace gold, 209 grams per tonne silver and 0.9 per cent lead (Minister of Mines Annual Report 1951, p. 97).

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 204 NATIONAL MINERAL INVENTORY: 103P5 Cu8

NAME(S): HOMESTAKE (ANYOX), HOMESTAKE, REDLIGHT

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P05W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 24 12 N NORTHING: 6139998 EASTING: 446702

LONGITUDE: 129 50 30 W ELEVATION: 0140 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of Homestake Number 1 claim (L. 1529) (NTS Map 103P/05).

COMMODITIES: Copper Silver 7inc Gold

**MINERALS** 

Chalcopyrite Pyrrhotite Sphalerite

SIGNIFICANT: Pyrite MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal Vein Epigenetic

TYPE: G04 Besshi massive sulphide Cu-Zn

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

<u>Jurassic</u> Undefined Formation Undefined Formation Hazelton Upper Triassic Kunga

> LITHOLOGY: Mafic Dike Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine
METAMORPHIC TYPE: Regional Wrangell RELATIONSHIP: GRADE: Greenschist

COMMENTS: Situated in the Anyox roof pendant within the Coast Plutonic Complex.

**CAPSULE GEOLOGY** 

The Homestake-Anyox showing is situated 0.5 kilometres west of Granby Bay, about 2.5 kilometres southwest of Anyox on Observatory Inlet. Three claims were staked in 1910 and crown granted in 1915 (Lots 1528-1530) after boulders of massive sulphides up to 0.6 metre

in diameter were found in a creek.

The boulders consisted of greenstone and the claims are underlain by argillite of the Lower Jurassic Hazelton or the Upper Triassic Kunga Group. Stripping uncovered mafic dykes intruding the argillite and sparsely mineralized with pyrite and occasionally chalcopyrite, pyrrhotite and sphalerite. A sample of this mineralization assayed trace gold, trace silver and nil copper.

**BIBLIOGRAPHY** 

EMPR AR 1927-C67; 1931-A37; 1932-A52,A53

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 211-216; 1988, pp. 233-240; 1990, pp.

235-243

EMPR MAP 8

EMPR PF (Alldrick, D. (1986) Anyox Map; Taiga Consultants Ltd. (1992): Geological, Geochemical and Geophysical Report on the Anyox Area in 103P 021)

GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 99

DATE CODED: 1989/01/31 CODED BY: PSF FIELD CHECK: N DATE REVISED: 1997/04/07 REVISED BY: DA FIELD CHECK: Y

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 205

NATIONAL MINERAL INVENTORY: 103P12 Ag5

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

1289

NAME(S): MOOSE-CLIMAX

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 42 54 N NORTHING: 6174482 **EASTING: 467488** 

LONGITUDE: 129 31 03 W ELEVATION: 735 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of portal of westernmost adit (Assessment Report 2887 Map 5).

COMMODITIES: Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Marcasite Galena Tetrahedrite Argentite

Pýrargyrite ASSOCIATED: Quartz **Barite** Carbonate Jasper Hematite

COMMENTS: Colliform banded.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Breccia

Epigenetic TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au 110 Vein barite

SHAPE: Bladed

MODIFIER: Faulted DIMENSION: 0240 x 0100 x 0004 Metres STRIKE/DIP: 180/85N TREND/PLUNGE:

COMMENTS: Vein, 1 to 3.7 metres wide, strikes east and dips steeply north.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Lower Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Hazelton Undefined Formation

LITHOLOGY: Andesitic Breccia Andesitic Tuff

Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE:

Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: Post-mineralization GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: MOOSE-CLIMAX REPORT ON: Y

> Unclassified YFAR: 1981

> CATEGORY: QUANTITY: 90000 Tonnes

**COMMODITY GRADE** 

Silver 257.0000 Grams per tonne COMMENTS: For a block with dimensions of 200 by 100 by 2 metres.

REFERENCE: Assessment Report 9564, page 18.

**CAPSULE GEOLOGY** 

The Moose-Climax occurrence is situated 0.5 kilometres east of the Kitsault River, 26.5 kilometres north of the town of Alice Arm. This vein has been extensively explored since 1916 for its silverlead-zinc mineralization.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline and has been regionally metamorphosed to greenschist facies.

The Moose-Climax prospect consists of a quartz-barite-carbonate

breccia vein developed in a west dipping sequence of andesitic tuff and breccia of the Hazelton Group. The vein strikes east for 240 metres and dips steeply to the north. It has been traced downdip for 100 metres and varies in width from one metre to 3.7 metres. The vein has been segmented by a number of north to northeast trending faults.

Mineralization consists of pyrite, marcasite, galena and tetrahedrite with traces of argentite and pyrargyrite in a gangue of

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

colliform banded quartz, barite, carbonate, jasper and hematite.

Reserves initially defined for an 82 metre long, 46 metre deep,
2.6 metre wide block were estimated at 27,000 tonnes grading 309
grams per tonne silver (Assessment Report 6112, page 13). A later
estimate of 90,000 tonnes grading 257 grams per tonne silver was calculated for a 200 metre long, 100 metre deep block with an average width of 2 metres (Assessment Report 9564, page 18).

### **BIBLIOGRAPHY**

EMPR AR 1916-79; 1918-61,62; 1919-55,56; 1920-49; 1921-52,53; 1922-60,61; 1923-59,60; 1925-76; 1926-83; 1929-88; 1930-96,97; 1931-38; 1932-56; \*1951-94-96; \*1964-44,45; 1967-41,42 EMPR ASS RPT 2887, \*6112, \*9564 EMPR BULL 63 EMPR EXPL 1976-155; 1980-408 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (Tribble, G.B. (1964) Report; Various Cross-sections and Drill Hole Plans; Silver Butte Mines Ltd. Annual Reports and News Releases for 1966,1967; Silver Butte Resources Ltd., Statement of Material Facts, Oct. 1989)

EMR MP CORPFILE (Moose Group Mining Co. Ltd.; Utility Mines
(Number One) Ltd.; Dolly Varden Mines Ltd.; Silver Butte Mines GSC MAP 307A; 315A; 1385A GSC MEM 175, pp. 58,73 GSC SUM RPT 1921, pp. 18A,19A; 1928, p. 43A Ltd.; Bush Mines Ltd.) GCNL Jul.9, 1976; #126, 1980 N MINER Sept.14,21, 1978 EMPR OF 1998-10

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/22 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 205

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 206

NAME(S): VICTORY, LAST CHANCE, CHANCE

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 43 31 N

LONGITUDE: 129 30 54 W ELEVATION: 637 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Adit portal, 1.25 kilometres east of the Kitsault River, 27.5

kilometres north of the town of Alice Arm (Minister of Mines Annual

Sphalerite

Lead

Report 1951).

COMMODITIES: Silver

Zinc

Argentite

110

STRIKE/DIP: 070/77N

Vein barite

**MINERALS** 

SIGNIFICANT: Pyrite Pyrargyrite
ASSOCIATED: Quartz

Silver Carbonate **Epidote** 

Galena

Barite

Jasper

Tetrahedrite

ALTERATION: Chlorite
ALTERATION TYPE: Propylitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal

nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

SHAPE: Bladed MODIFIER: Faulted

DIMENSION: 230 x 30 x 4 Metres

COMMENTS: Vein

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE

Hazelton

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

TREND/PLUNGE:

PAGE:

NATIONAL MINERAL INVENTORY: 103P12 Ag4

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6175625

EASTING: 467653

REPORT: RGEN0100

1291

LITHOLOGY: Andesitic Tuff

Andesitic Breccia

Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

**RELATIONSHIP:** 

GRADE: Greenschist

PHYSIOGRAPHIC AREA: Boundary Ranges

METAMORPHIC TYPE: Regional COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VICTORY

REPORT ON: Y

CATEGORY: QUANTITY:

Indicated

YEAR: 1975

**COMMODITY** 

66218 Tonnes

GRADE

Silver

393,1000 Grams per tonne

COMMENTS: In two zones.

REFERENCE: SMF July 14, 1975 - Northern Homestake Mining Ltd., E.M. Wilson.

CAPSULE GEOLOGY

The Victory occurrence is located 1.25 kilometres east of the Kitsault River, 27.5 kilometres north of the town of Alice Arm. Drilling between 1963 and 1975 has outlined moderate sized reserves of ore for this silver-bearing vein.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower-Middle Jurassic Hazelton Group and the Middle-Upper Jurassic Bowser Lake Group. sequence is folded into the doubly plunging, north-northwest trending Kitsault River syncline and has been regionally metamorphosed to greenschist facies.

The Victory occurrence consists of a quartz-carbonate barite breccia vein developed in andesitic tuffs and breccias of the Hazelton Group that have undergone propylitic alteration in the vicinity of the vein.

This vein strikes 070 degrees for 230 metres, and dips between

MINFILE NUMBER: 103P 206

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

70 to 85 degrees north. The vein averages  $4.3~\rm metres$  in width. It has been segmented into two main blocks by a north striking, east dipping fault with left-hand displacement.

The vein is comprised of pyrite, galena, sphalerite and tetrahedrite, with traces of argentite, pyrargyrite and native silver in a gangue of quartz, carbonate, barite and jasper.

Indicated reserves at Victory (in 2 zones) are 66,230 tonnes grading 393 grams per tonne silver (Statement of Material Facts July 14, 1975 - Northern Mining Ltd., E.M. Wilson).

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CODED BY: GSB FIELD CHECK: N DATE CODED: 1985/07/24 REVISED BY: PSF DATE REVISED: 1989/04/30 FIELD CHECK: N

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 207

NATIONAL MINERAL INVENTORY: 103P12 Ag4

NAME(S): QUEEN

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P12E 103P11W BC MAP: LATITUDE: 55 43 52 N

NORTHING: 6176270 EASTING: 468147

PAGE:

REPORT: RGEN0100

1293

LONGITUDE: 129 30 26 W ELEVATION: 792 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of trenches (Minister of Mines Annual Report 1923, p.59).

COMMODITIES: Silver I ead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Quartz ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP** Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1913 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab **GRADE** COMMODITY

Silver 223,0000 Grams per tonne

12,0000 I ead Per cent COMMENTS: Trace gold.

REFERENCE: Minister of Mines Annual Report 1913, page 50.

**CAPSULE GEOLOGY** 

The Queen showing is located just northeast of Trout Creek, 28

kilometres north of the town of Alice Arm. This showing was prospected in 1923 for lead and silver.

A trench has exposed a 0.6 metre wide silicified zone in andesite of the Lower Jurassic Hazelton Group well mineralized with fine-grained galena. A grab sample assayed trace gold, 223 grams per tonne silver and 12 per cent lead (Minister of Mines Annual Report

1923, page 50).

**BIBLIOGRAPHY** 

EMPR AR \*1923-59

EMPR ASS RPT 9564 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243 EMPR OF 1986-2 EMPR BULL 63

EMPR MAP 8

GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 75

DATE CODED: 1989/04/22 DATE REVISED:

CODED BY: PSF FIELD CHECK: N REVISED BY: FIELD CHECK:

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 208

NATIONAL MINERAL INVENTORY: 103P12 Ag3

PAGE:

NORTHING: 6176771

**EASTING: 467348** 

REPORT: RGEN0100

1294

NAME(S): ROBIN, ACE - GALENA, GALENA, TYEE, HIGHLAND, BLUE BIRD,

CAMÁLACHIE

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 44 08 N LONGITUDE: 129 31 12 W

ELEVATION: 838 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of approximate centre of surface trace of southern segment of the Blue Bird vein adjacent to diamond drill hole 68-4-10 (Minister of

Mines Annual Report 1968, Fig. 10 p. 57).

COMMODITIES: Silver Lead Copper

**MINERALS** 

SIGNIFICANT: Galena Tetrahedrite Pyrite Silver ASSOCIATED: Quartz Cárbonate Sericite

ALTERATION: Pyrite
ALTERATION TYPE: Pyrite Carbonate Sericite Quartz Silicific'n Carbonate Sericitic

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal **Epigenetic** 

Noranda/Kuroko massive sulphide Cu-Pb-Zn TYPE: G06 J01 Polymetallic manto Ag-Pb-Zn

105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 0150 x 0004 Metres STRIKE/DIP: TREND/PLUNGE:

COMMENTS: Mineralized zone, up to 4.3 metres wide, strikes northeast along the footwall of the Blue Bird vein.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** <u>GROUP</u> IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesitic Tuff Andesitic Breccia

Andesite Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> YFAR: 1951 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

COMMODITY **GRADE** Silver 1920.0000 Grams per tonne

10.0000 Per cent Lead

COMMENTS: A 1.17 metre chip sample.

REFERENCE: Minister of Mines Annual Report 1951, page 93.

CAPSULE GEOLOGY

The Robin occurrence is located along Blue Bird Creek in the Upper Kitsault Valley,  $28.5\ \mathrm{kilometres}$  north of the town of Alice Arm. Zones containing argentiferous galena have been extensively explored by trenching and diamond drilling since 1918.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. This sequence has been regionally metamorphosed to greenschist facies.

The Robin occurrence lies within bedded to massive andesitic tuffs and breccias, with minor argillite, of the Hazelton Group that dip about 40 degrees northwest. A quartz-breccia vein, the Blue Bird vein, is developed in a fault that extends from the Kitsault River

GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

### CAPSULE GEOLOGY

northeast to Kitsault Lake for 4 kilometres. The vein strikes for at least 840 metres and possibly an additional 780 metres northeast along Blue Bird Creek, which follows a portion of the fault. The vein dips between 20 and 63 degrees northwest and roughly parallels the bedded rocks. The vein is generally between 7.6 and 12.2 metres wide but is locally up to 21.3 metres wide. It contains angular tuff fragments set in a quartz matrix sparsely mineralized with pyrite and galena.

The more significant mineralization is contained in a northeast trending zone that lies within 15 metres of the footwall of the Blue Bird vein on the south bank of Blue Bird Creek. The zone is exposed in a series of trenches between elevations of 700 and 800 metres. The trenches trace the vein, up to 4.3 metres wide, for a strike length of 150 metres. This zone contains stringers of galena and pyrite with small flakes of native silver, up to 2 centimetres wide, in a pyritic bleached tuff that has undergone quartz-carbonatesericite alteration. A 1.17 metre chip sample from a trench assayed 1920 grams per tonne silver and 10.0 per cent lead (Minister of Mines Annual Report 1951, page 93). An 8.8 metre drill hole intersection averaged 210 grams per tonne silver (Property File - Silver Butte Mines Annual Report 1968).

Southwest of this zone, about 240 metres, at an elevation of 655 metres, lies a zone of narrow vertical to steeply dipping shear zones. The north trending zone is 110 metres long, 1.2 metres wide and occurs in pyritic, bleached, quartz-carbonate-sericite altered tuff. The shear zones contain minor pyrite, galena and tetrahedrite. A 1.2 metre chip sample across the full width of the zone assayed trace gold, 1179 grams per tonne silver, 0.18 per cent copper, 0.32 per cent lead and 0.06 per cent zinc (Minister of Mines Annual Report 1968, page 58).

#### **BIBLIOGRAPHY**

EMPR AR 1918-62; 1929-87; 1930-98; 1931-38; 1932-56; \*1933-48-50; 1934-B17; 1948-75,76; 1950-80; \*1951-91-93; 1963-12; 1964-45; 1967-42; \*1968-56-58 EMPR EXPL 1976-166; 1980-408 EMPR ASS RPT \*6112, 9564 EMPR PF (Diamond Drill Hole Plans; \*Silver Butte Mine Ltd. News Release 1967 and Annual Report 1968) EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR OF 1986-2 EMPR BULL 63 EMPR MAP 8 GSC MAP 307A; 315A; 1385A GSC MEM 175, pp. 57,84
GSC P 91-2, pp. 181-185
EMR MP CORPFILE (Consolidated Silver Butte Mines Ltd.) GCNL #126, 1980; #76, 1981

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 FIELD CHECK: N DATE REVISED: 1989/04/30 FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 209 NATIONAL MINERAL INVENTORY: 103P12 Ag2

NAME(S): SYNDICATE, SECOND THOUGHT, CASEY

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 44 02 N LONGITUDE: 129 32 10 W ELEVATION: 396 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit (Minister of Mines Annual Report 1951, Fig.1).

COMMODITIES: Silver Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Argentite Pyrargyrite Silver Gold

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: 105 DIMENSION: 0002 Polymetallic veins Ag-Pb-Zn±Au Metres STRIKE/DIP: 030/62W TREND/PLUNGE:

COMMENTS: Attitude of main vein, 1.2 to 1.8 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Middle Jurassic Spatsizi Lower Jurassic Hazelton Undefined Formation

> LITHOLOGY: Argillite Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional Bowser Lake **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: Situated in Bowser Lake sedimentary overlap on the Stikinia Terrane.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assa SAMPLE\_TYPE: Chip YEAR: 1918 Assay/analysis

**GRADE** COMMODITY 326,0000 Grams per tonne Silver

COMMENTS: A 1.8 metre chip sample across southern exposure of the

main vein.

REFERENCE: Minister of Mines Annual Report 1918, page 64.

CAPSULE GEOLOGY

The Syndicate occurrence is located on the east bank of the Kitsault River, 28.5 kilometres north of the town of Alice Arm. Several quartz veins were investigated for silver, by trenching and tunnelling, between 1918 and 1925.

The Syndicate showing is comprised of several quartz-breccia veins developed in Middle Jurassic Spatsizi Group argillite just west of an outcrop of underlying Lower Jurassic Hazelton Group andesitic pyroclastic rocks. These rocks generally strike north and dip moderately west.

A quartz-breccia vein striking 030 degrees and dipping between 62 to 65 degrees west is exposed in two outcrops 30 metres apart. The vein, 1.2 to 1.8 metres wide, parallels the bedding of the argillite. An adit under the northern exposure intersected 1.2 metres of banded quartz and argillite. Surface outcrops contain numerous argillite fragments in quartz. Mineralization consists of pyrite, argentite, pyrargyrite with some native silver and trace native gold. A 1.8 metre chip sample across the southern exposure assayed 326 grams per tonne silver (Minister of Mines Annual Report 1918, p. 64).

A second vein, striking 018 degrees and dipping 35 to 38 degrees

southwest, lies about 150 metres to the east. The vein, 0.6 metres wide, occurs along the contact between argillite and andesite, with

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NORTHING: 6176593

**EASTING: 466335** 

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

the andesite forming the footwall. It is reported to contain silver sulphides in a gangue of quartz and brecciated argillite fragments.

**BIBLIOGRAPHY** 

EMPR AR \*1918-63,64; 1921-51,52; 1922-59; 1924-55; 1925-76; 1930-99; \*1951-90,91 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243 EMPR OF 1986-2 EMPR BULL 63

EMPR BULL 03 EMPR MAP 8 GSC MAP 307A; 315A; 1385A GSC SUM RPT 1921, p. 21A GSC MEM 175, p. 77

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#### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 210

NATIONAL MINERAL INVENTORY: 103P12 Cu4

NAME(S): VANGUARD COPPER, VANGUARD

STATUS: Developed Prospect REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1298

LATITUDE: 55 44 08 N LONGITUDE: 129 33 30 W NORTHING: 6176789 EASTING: 464941

ELEVATION: 823 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Portal of main adit (Assessment Report 9400, Fig. 4).

COMMODITIES: Copper Silver Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

Chlorite Barite ALTERATION: Pyrite Quartz Sericite

ALTERATION TYPE: Pyrite Silicific'n Sericitic MINERALIZATION AGE: Unknown

**DEPOSIT** 

Disseminated Massive

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I02 Intrusi Epigenetic

Intrusion-related Au pyrrhotite veins 1.01 Subvolcanic Cu-Ag-Au (As-Sb) SHAPE: Tabular DIMENSION: 0060 x 0046 x 0002 Metres STRIKE/DIP: 120/90 TREND/PLUNGE:

COMMENTS: Zone strikes 120 degrees, dips steeply northeast to southwest.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VANGUARD COPPER REPORT ON: Y

> CATEGORY: Unclassified YFAR: 1973

QUANTITY: 11800 Tonnes COMMODITY **GRADE** 

Silver 141.0000 2.4000 Grams per tonne Gold Grams per tonne

Copper 8.6000 Per cent

REFERENCE: Property File - Sevensma, 1973, page 7.

**CAPSULE GEOLOGY** 

The Vanguard prospect is located 500 metres southwest of Homestake Creek in the Upper Kitsault Valley, about 29 kilometres north of Alice Arm. A zone of copper mineralization has been extensively investigated, since 1916, by trenching and tunnelling.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton

Group and the Middle Jurassic Spatsizi Group. This sequence has been regionally metamorphosed to greenschist facies.

The Vanguard occurrence lies at the eastern margin of a 10 kilometre long northwest trending body of gossanous plagicclase-hornblende porphyritic andesite of the Hazelton Group informally called the Copper Belt. The andesite has been extensively pyritized and variably silicified and sericitized along its length. Argillites of the overlying Hazelton or Spatsizi Group outcrop a hundred metres to the northeast.

The Vanguard prospect consists of a mineralized zone which strikes 120 degrees for at least 46 metres and dips steeply northeast on the surface to southwest underground. The zone is up to 4.6metres wide, averaging 2.4 metres, extends downdip for at least 60 metres.

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RUN TIME: 12:06:33 GEOLOGICAL SUB

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

Mineralization is associated with veins of quartz and carbonate that cut pyritic andesite. In the underground workings, pyrite and chalcopyrite occur as disseminations and blebs within the veins and as lenticular masses between the veins. On the surface, massive pyrite and chalcopyrite with minor quartz and barite occur in lenses, up to 0.6 metres wide, within northwest trending fault zones.

This zone is estimated to contain 11,800 tonnes grading 2.4 grams per tonne gold, 141 grams per tonne silver and 8.6 per cent copper (Property File - Sevensma, P.H.(1973) p. 7).

### **BIBLIOGRAPHY**

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EMPR AR 1916-83; \*1918-65,66; 1919-56; 1920-50; 1921-50; 1922-57;
 1923-57; 1926-83; 1927-77; \*1928-88; 1929-87; 1930-100; 1931-38;
 \*1951-88,89; 1966-42; 1968-58
EMPR ASS RPT 956, \*9400
EMPR BULL 63
EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.
 235-243
EMPR MAP 8
EMPR OF 1986-2
EMPR PF (Canex Aerial Exploration, Maps of Adits, 1966; Carter, N.C.
 (1969) Report; \*Sevensma, P.H. (1973) Reports; Lisle, T.E. (1981)
 Report; Cambria Resources Ltd. Prospectus, 1987)
EMR MIN BULL MR 223 B.C. 311
EMR MP CORPFILE (Caulfield Resources Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, pp. 84,85
GSC SUM RPT \*1928A, pp. 48,49
GCNL #166, 1980
EMPR OF 1998-10

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/04/30 REVISED BY: PSF FIELD CHECK: N

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 211

NATIONAL MINERAL INVENTORY: 103P12 Cu3

NAME(S): CASCADE FALLS

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1300

LATITUDE: 55 44 06 N LONGITUDE: 129 34 42 W ELEVATION: 1009 Metres

NORTHING: 6176738 EASTING: 463684

LOCATION ACCURACY: Within 500M

COMMENTS: Location of surface trace of mineralized zone (Minister of Mines

Annual Report 1951, Fig.1)

COMMODITIES: Silver Gold 7inc Copper Lead

**MINERALS** 

SIGNIFICANT: Sphalerite ASSOCIATED: Quartz

Galena

Tetrahedrite

ALTERATION: Quartz ALTERATION TYPE: Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal

Pyrite

hermal Epigenetic
Polymetallic veins Ag-Pb-Zn±Au TYPE: 105

102 Intrusion-related Au pyrrhotite veins

COMMENTS: A 1.5 metre wide quartz vein strikes northwest, dips northeast.

Chalcopyrite

Carbonate

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP** Lower Jurassic Hazelton **FORMATION** Undefined Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

Black Siltstone Black Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional

**RELATIONSHIP:** 

GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY:

Assay/analysis

YEAR: 1951

SAMPLE TYPE: Chip

COMMODITY Silver

GRADE 178.0000 Grams per tonne

Gold

3.4000 Grams per tonne

Copper

1.2000 Per cent

Lead

Per cent

Zinc

0.8000

Per cent 4.6000

veins

COMMENTS: A 0.864 metre chip sample across zone of quartz and carbonate

REFERENCE: Minister of Mines Annual Report 1951, page 88.

CAPSULE GEOLOGY

The Cascade Falls showing is located 1.0 kilometre northeast of the West Kitsault River, 29.5 kilometres north-northwest of Alice

Arm. The occurrence is comprised of various showings situated in plagioclase-hornblende porphyritic andesite with minor interbedded black siltstone/argillite of the Lower Jurassic Hazelton Group, informally called the Copper Belt.

A quartz vein, striking northwest and dipping north, is hosted in argillite. The vein is 1.5 metres wide and the hangingwall is partially replaced by quartz 1.5 metres out from the vein. The vein and silicified hangingwall contain disseminated galena, sphalerite, chalcopyrite and tetrahedrite. A 3.0 metre chip sample assayed trace gold, 31 grams per tonne silver, 1.31 per cent copper, 0.05 per cent zinc and 0.05 per cent lead (Minister of Mines Annual Report 1966, page 66).

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

A a steeply dipping west-southwest striking mineralized zone occurs in andesite. Two zones of quartz and carbonate veinlets, 0.86 and 0.61 metres wide, are separated by 0.71 metres of andesite. The veinlets contain pyrite, sphalerite, chalcopyrite and galena. A 0.864 metre chip sample assayed 3.4 grams per tonne gold, 178 grams per tonne silver, 0.8 per cent lead, 4.6 per cent zinc and 1.2 per cent copper (Minister of Mines Annual Report 1951, page 88).

### **BIBLIOGRAPHY**

EMPR AR 1922-58; \*1951-88; \*1966-65,66 EMPR ASS RPT 6049, 8166, 9076, 16034, 18657 EMPR BULL 63 EMPR EXPL 1976-166,167; 1980-409,410; 1987-C364 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 EMPR MAP 8 EMPR MAF 0
EMPR OF 1986-2
EMPR PF (Carter, N.C. Core Logs and Geological Map; Cambria
Resources Ltd. Prospectus, 1987) GSC MAP 307A; 1385A

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/13 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 211

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 212

NATIONAL MINERAL INVENTORY:

NAME(S): ROYAL 2

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1302

LATITUDE: 55 40 34 N LONGITUDE: 129 31 26 W ELEVATION: 548 Metres

NORTHING: 6170157 EASTING: 467054

LOCATION ACCURACY: Within 500M

COMMENTS: Location of sample site VK100 (Assessment Report 15371, Fig. 5a).

COMMODITIES: Silver I ead

**MINERALS** 

SIGNIFICANT: Galena COMMENTS: Assumed. MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Hydrothermal

TYPE: 105 Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: STRIKE/DIP: 127/90 TREND/PLUNGE:

COMMENTS: Attitude of shear zone.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**GROUP FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Feldspar Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the south end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SHEAR REPORT ON: N

> YEAR: 1986 CATEGORY: Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY Silver 20.8000 Grams per tonne 0.1690 I ead Per cent

COMMENTS: A 2.0 metre chip sample across shear zone.

REFERENCE: Assessment Report 15371, page 22.

**CAPSULE GEOLOGY** 

The Royal Number 2 showing is situated 1.25 kilometres west of

the Kitsault River, 22 kilometres north of Alice Arm.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline and has been regionally metamorphosed to greenschist facies. The showing consists of a shear zone, striking 127 degrees and dipping vertically, in feldspar porphyritic andesite of the Hazelton Group. A 2.0 metre chip sample across this zone assayed 20.8 grams per tonne silver and 0.1690 per cent lead (Assessment Report 15371, p. 22).

**BIBLIOGRAPHY** 

EMPR GEM 1970-87

EMPR EXPL 1980-408,409

EMPR ASS RPT 9064, \*15371

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243 EMPR OF 1986-2

EMPR BULL 63

EMPR MAP 8

GSC MAP 1385A

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMR MP CORPFILE (Consolidated Silver Butte Mines Ltd.)

DATE CODED: 1989/04/17 CODED BY: PSF FIELD CHECK: N DATE REVISED: // REVISED BY: FIELD CHECK:

MINFILE NUMBER: 103P 212

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REPORT: RGEN0100

RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 213 NATIONAL MINERAL INVENTORY: 103P12,13 Cu2

NAME(S): GOLD REEF, GOLD LEAF, CAMBRIA

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 44 56 N NORTHING: 6178290 LONGITUDE: 129 35 24 W ELEVATION: 1290 Metres EASTING: 462965

LOCATION ACCURACY: Within 500M

COMMENTS: Location of channel sample 8972D (Assessment Report 16034, Fig.5).

COMMODITIES: Gold Silver Copper Lead

**MINERALS** 

Chalcopyrite Galena Sphalerite

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Epigenetic

TYPE: I02 Intrusion-related Au pyrrhotitr COMMENTS: Veins, 0.3 metres wide, strike west. Intrusion-related Au pyrrhotite veins I 01 Subvolcanic Cu-Ag-Au (As-Sb)

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRA<u>TIGRAPHIC AGE</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: YEAR: 1934 Assav/analysis

SAMPLE TYPE: Channel COMMODITY **GRADE** 

Silver 4.5000 Grams per tonne Gold 31.7000 Grams per tonne

COMMENTS: A 0.40 metre long channel sample.

REFERENCE: Assessment Report 16034, Figure 5.

**CAPSULE GEOLOGY** 

The Gold Reef showing is located 1.5 kilometres to the southwest of Homestake Creek, 30 kilometres north-northwest of Alice Arm. The showing consists of a series of west striking quartz-carbonate veins, 0.3 metres wide. The veins are hosted in altered

plagioclase-hornblende porphyritic andesite (informally called the Copper Belt) of the Lower Jurassic Hazelton Group. The veins are mineralized with pyrite and minor chalcopyrite, galena and sphalerite. A 0.40 metre long channel sample assayed 31.7 grams per tonne gold and 4.5 grams per tonne silver (Assessment Report 16034, Figure 5).

**BIBLIOGRAPHY** 

EMPR AR 1934-B15; 1935-B26; \*1951-86,87

EMPR ASS RPT \*16034, 18657

EMPR BULL 63

EMPR EXPL 1987-C364

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243

EMPR MAP 8

EMPR OF 1986-2

EMPR PF (Cambria Resources Ltd. Prospectus, 1987)

GSC MAP 307A; 1385A

PAGE:

REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

WWW http://www.infomine.com/index/

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/11 FIELD CHECK: N CODED BY: GSB REVISED BY: PSF

MINFILE NUMBER: 103P 213

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 214

NATIONAL MINERAL INVENTORY: 103P12 Cu3

PAGE:

NORTHING: 6177548 EASTING: 462994

REPORT: RGEN0100

1306

NAME(S): LUCKY STRIKE, WILBERFORCE, CAMBRIA

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 44 32 N LONGITUDE: 129 35 22 W ELEVATION: 1135 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of surface trace of mineralized zone (Minister of Mines

Annual Report 1951, Fig. 1).

COMMODITIES: Zinc Gold Silver Copper Lead

**MINERALS** 

SIGNIFICANT: Sphalerite Pyrite Chalcopyrite Tetrahedrite Galena

ASSOCIATED: Quartz Carbonate

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia CLASSIFICATION: Hydrothermal TYPE: 105 Polym

hermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au L01 Subvolcanic Cu-Ag-Au (As-Sb)

COMMENTS: The brecciá vein, up to 6 metres wide, strikes northwest and dips

steeply.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1951 Assav/analysis

SAMPLE TYPE: Chip

COMMODITY Silver **GRADE** <u>295.0000</u> Grams per tonne 0.6900 Gold Grams per tonne Per cent Copper 0.7000 Per cent 0.8000 Lead

7inc

COMMENTS: A 0.69 metre chip sample. REFERENCE: Minister of Mines Annual Report 1951, page 88.

CAPSULE GEOLOGY

The Lucky Strike showing is located 1.0 kilometre northwest of the West Kitsault River, 30 kilometres north-northwest of Alice Arm.

The showing consists of quartz-carbonate breccia vein, up to 6 metres wide, in plagioclase-hornblende porphyritic andesite. This Lower Jurassic Hazelton Group andesite unit is informally known as This the Copper Belt The vein, strikes northwest, dips steeply and is mineralized with abundant sphalerite and minor pyrite, chalcopyrite, tetrahedrite and galena. A 0.69 metre chip sample assayed 0.69 grams per tonne gold, 295 grams per tonne silver, 0.7 per cent copper, 0.8 per cent lead and 6.6 per cent zinc (Minister of Mines Annual Report 1951, page 88).

6.6000

Per cent

**BIBLIOGRAPHY** EM EXPL 2001-1-9

EMPR AR 1922-57,58; 1923-57; 1926-82; 1929-87; 1930-99; 1931-38;

1932-56; 1934-B17; \*1951-87,88; \*1965-65,66

EMPR ASS RPT 8166, 9076, \*16034, 18657

EMPR BULL 63

EMPR EXPL 1976-166,167; 1980-409,410; 1987-C364

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EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243

235-243 EMPR MAP 8 EMPR OF 1986-2 EMPR PF (Cambria Resources Ltd. Prospectus, 1987) GSC MAP 307A; 315A; 1385A GSC MEM 175, p. 71

DATE CODED: 1985/07/24 DATE REVISED: 1989/05/13 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 214

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 215 NATIONAL MINERAL INVENTORY: 103P13 Au7

NAME(S): TIP TOP, GOLD REEF

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13E 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 45 04 N NORTHING: 6178533 LONGITUDE: 129 34 56 W ELEVATION: 995 Metres EASTING: 463455

LOCATION ACCURACY: Within 500M

COMMENTS: Location of centre of Tip Top claim (L. 3981) (Assessment Report 16034

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite

COMMENTS: Disseminated.

ALTERATION: Pyrite
ALTERATION TYPE: Pyrite Quartz Sericite Sericitic Silicific'n

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Hydrothermal **Epigenetic** 

102 TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb) Intrusion-related Au pyrrhotite veins

HOST ROCK

DOMINANT HOSTROCK: Volcanic

GROUP Hazelton **FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Undefined Formation

LITHOLOGY: Plagioclase Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Tip Top showing is located 1.0 kilometre southwest of Homestake Creek, 31 kilometres north-northwest of Alice Arm.

The showing occurs at the eastern margin of a 10 kilometre long northwest trending body of plagicclase-hornblende porphyritic andesite of the Lower Jurassic Hazelton Group. The andesite, informally called the Copper Belt, has been extensively pyritized and

variably silicified and sericitized.

Disseminated pyrite and minor chalcopyrite occur in andesite cut

by numerous quartz veins.

**BIBLIOGRAPHY** 

EMPR AR 1918-65; 1934-B15

EMPR ASS RPT 16034, 18657

EMPR BULL 63 EMPR EXPL 1987-C364

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243 EMPR MAP 8

EMPR OF 1986-2

EMR MP CORPFILE (Kitsault River Mining & Development Co. Ltd.)

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 83

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N REVISED BY: PSF DATE REVISED: 1989/05/10 FIELD CHECK: N

MINFILE NUMBER: 103P 215

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 216 NATIONAL MINERAL INVENTORY: 103P13 Au7

NAME(S): HOMESTAKE, BEVIL - MCKERN

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 45 31 N LONGITUDE: 129 35 21 W ELEVATION: 1015 Metres NORTHING: 6179371 EASTING: 463027

LOCATION ACCURACY: Within 500M

COMMENTS: Location of portal of Gerardi adit (Assessment Report 16034, Fig.5).

COMMODITIES: Gold 7inc Copper Silver I ead

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite Sphalerite Galena

COMMENTS: Disseminated to massive lenses.

ASSOCIATED: Quartz **Barite** Carbonate Sericite Quartz

ALTERATION: Pyrite
ALTERATION TYPE: Pyrite Silicific'n Sericitic

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated Massive

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 102 L01 Subvolcanic Cu-Ag-Au (As-Sb)

Intrusion-related Au pyrrhotite veins Polymetallic veins Ag-Pb-Zn±Au 105

SHAPE: Tabular MODIFIER: Faulted

DIMENSION: STRIKE/DIP: 315/65E TREND/PLUNGE:

COMMENTS: Zone strikes northwest and dips 50 to 80 degrees northeast.

HOST ROCK
DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Undefined Formation Lower Jurassic

LITHOLOGY: Plagioclase Hornblende Porphyritic Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE:

Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: STOCKPILE REPORT ON: N

YFAR: 1951

CATEGORY: Assay/analysis SAMPLE TYPE: Bulk Samplé

**GRADE** COMMODITY Silver 203.0000 Grams per tonne 140,0000 Gold

Grams per tonne 7.5000 Copper Per cent Lead 0.7950 Per cent 7inc 3.8000 Per cent

COMMENTS: A 7.98 tonne bulk sample of sorted ore containing lenticular bodies of

pyrite and chalcopyrite over 4.6 metres.
REFERENCE: Minister of Mines Annual Report 1951, page 14.

**CAPSULE GEOLOGY** 

The Homestake prospect is located 1.5 kilometres west of Homestake Creek in the Upper Kitsault Valley, 32 kilometres north of Alice Arm. The prospect has been extensively explored since 1916.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline and has been regionally metamorphosed to greenschist facies.

The prospect is situated at the northern end of a 10 kilometre

long northwest trending body of gossanous plagicclase-hornblende porphyritic andesite. This Lower Jurassic Hazelton Group unit, porphyritic andesite. This Lower Jurassic Hazelton Group unit, informally called the Copper Belt, has been extensively pyritized and variably silicified and sericitized along its length.

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

Mineralization occurs as disseminations and massive lenses, up to 1 metre wide, in veins and pockets of quartz, carbonate and barite. These occur within a zone which contains several subparallel faults. This zone strikes northwest for at least 270 metres, dips 50 to 80 degrees northeast and is 4.6 to 12 metres wide, with widths commonly around 6 metres. The southern 49 metres of this zone has been displaced 60 metres to the east by an east-northeast trending fault. Mineralization consists of pyrite, minor chalcopyrite and traces of sphalerite and galena.

traces of sphalerite and galena.

A 7.98 tonne sample of sorted ore, displaying lenticular bodies of pyrite and chalcopyrite over a width of 4.6 metres, averaged 140 grams per tonne gold, 203 grams per tonne silver, 7.5 per cent copper, 0.795 per cent lead and 3.80 per cent zinc (Minister of Mines Annual Report 1951, page 14). The gold appears to be associated with chalcopyrite. Gold values from underground workings tend to be lower and quite erratic.

A second zone, possibly a branch of the main zone, lies just to the north. It strikes 095 degrees, dips 75 degrees north, has been traced for 90 metres and is 3 to 4 metres wide. The zone contains pyrite with sparse chalcopyrite, galena and sphalerite in a gangue of silicified andesite with some calcite.

#### **BIBLIOGRAPHY**

```
EMPR AR 1916-82,83; *1918-64,65; 1919-56; 1920-49; 1921-51; 1922-58; 1923-58; 1926-83; 1927-77; 1930-99; 1933-50; *1934-B15-B17; *1938-B7-B12; 1939-67; 1947-95; *1951-83-86

EMPR ASS RPT *16034, 18657

EMPR BULL 63

EMPR EXPL 1987-C364

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243; 2000, pp. 313-326

EMPR MAP 8

EMPR OF 1986-2

EMPR PF (Maps of Surface and underground Workings; Cambria Resources Prospectus, 1987)

EMR MP CORPFILE (Toric Mines Ltd.)

GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 67

GSC SUM RPT 1921, p. 20A

GCNL #99, 1989
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DATE CODED: 1985/07/24 DATE REVISED: 1989/04/30 CODED BY: GSB REVISED BY: PSF

MINFILE NUMBER: 103P 216

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FIELD CHECK: N

FIELD CHECK: N

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 217 NATIONAL MINERAL INVENTORY: 103P12,13 Cu2

NAME(S): **BLUE RIBBON - SILVER TIP**, BLUE RIBBON

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 45 25 N NORTHING: 6179193 LONGITUDE: 129 36 06 W ELEVATION: 1219 Metres EASTING: 462240

LOCATION ACCURACY: Within 500M

COMMENTS: Location of open cut (Minister of Mines Annual Report 1921 p.50).

COMMODITIES: Silver 7inc Lead Gold

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Sphalerite Galena

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal TYPE: I02 Intrusion-related COMMENTS: Vein strikes northwest. Epigenetic Intrusion-related Au pyrrhotite veins 105 Polymetallic veins Ag-Pb-Zn±Au

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** 

Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

**CAPSULE GEOLOGY** 

The Blue Ribbon-Silver Tip showing is located on the south side of the western fork of the Kitsault Glacier, 31.5 kilometres northnorthwest of Alice Arm. It was prospected in the early 1920's for polymetallic mineralization.

A 3.7 metre wide, northwest trending, quartz vein is located thirty metres above the western fork of the Kitsault Glacier. The vein, hosted in Lower Jurassic Hazelton Group andesite, is mineralized with pyrite, sphalerite and galena. Assays reveal low silver values and trace gold (Minister of Mines Annual Report 1921, page 50).

**BIBLIOGRAPHY** 

EMPR AR \*1921-50,51; 1922-58; 1923-57; 1925-75

EMPR ASS RPT 16034, 18657

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243 EMPR MAP 8

EMPR OF 1986-2 GSC MAP 307A; 315A; 1385A

GSC MEM 175, p. 56

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/04/30 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 217

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 218

NAME(S): BLACK DIAMOND

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 44 45 N

LONGITUDE: 129 32 34 W ELEVATION: 561 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit (Minister of Mines Annual Report 1951 fig.1).

COMMODITIES: Silver

**MINERALS** 

SIGNIFICANT: Argentite

COMMENTS: As specks in quartz stringers.

ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia nermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au CLASSIFICATION: Hydrothermal TYPE: 105

DIMENSION: STRIKE/DIP: 130/85W TREND/PLUNGE:

COMMENTS: Vein, 4.9 metres wide, strikes 130 degrees and dips steeply west.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

IGNEOUS/METAMORPHIC/OTHER TRATIGRAPHIC AGE **FORMATION** Middle Jurassic Spatsizi Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist COMMENTS: In Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: ADIT REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1922

SAMPLE TYPE: Grab

COMMODITY Silver GRADE 2057.0000

Grams per tonne COMMENTS: Sample of a quartz stringer from adit.

REFERENCE: Minister of Mines Annual Report 1922, page 58.

**CAPSULE GEOLOGY** 

The Black Diamond showing is located on Jacob's Creek, 30 kilometres north of Alice Arm. A sparsely mineralized quartz vein was explored by trenching and tunnelling in 1918 and 1922.

The showing consists of a quartz-breccia vein, up to 4.9 metres wide, striking 130 degrees and dipping steeply to the west. The vein is hosted in flat lying, northwest striking Middle Jurassic Spatsizi Group argillite. The footwall contains 3.0 to 3.7 metres of quartz The vein and brecciated argillite and the hangingwall is composed of banded quartz and argillite. Quartz stringers, exposed in an adit just below the outcrop, displayed specks of argentite. One of thes stringers reportedly assayed up to 2057 grams per tonne silver (Minister of Mines Annual Report 1922, page 58). One of these

**BIBLIOGRAPHY** 

EMPR AR 1918-64; 1919-56; \*1922-58; \*1951-90 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243 EMPR OF 1986-2 EMPR BULL 63

EMPR MAP 8

GSC MAP 307A; 315A; 1385A

MINFILE NUMBER: 103P 218

PAGE:

NATIONAL MINERAL INVENTORY: 103P12 Ag1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6177926

EASTING: 465926

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MEM 175, p. 56

DATE CODED: 1985/07/24 DATE REVISED: 1989/04/30 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 218

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 219

NATIONAL MINERAL INVENTORY: 103P13 Au8

NAME(S): COLUMBIA

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1314

LATITUDE: 55 45 24 N

NORTHING: 6179125 EASTING: 466703

LONGITUDE: 129 31 50 W ELEVATION: 786 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of adit (Minister of Mines Annual Report 1951, Fig.1.)

COMMODITIES: Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrite Chalcopyrite ASSOCIATED: Quartz

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Breccia Discordant

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au I02 Intrusion-related Au pyrrhotite veins DIMENSION: 0003 Metres STRIKE/DIP: 135/70N TREND/PLUNGE:

COMMENTS: Vein is 1.8 to 4.6 metres wide.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER
Middle Jurassic Spatsizi Undefined Formation

LITHOLOGY: Argillite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist COMMENTS: In the Bowser Lake clastic wedge on the Stikinia Terrane.

INVENTORY

ORE ZONE: ADIT REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1921

SAMPLE TYPE: Grab

<u>COMMODITY</u> <u>GRADE</u>

Gold 9.2900 Grams per tonne

COMMENTS: Sample from adit.

REFERENCE: Minister of Mines Annual Report 1921, page 52.

**CAPSULE GEOLOGY** 

The Columbia showing is located 1.6 kilometres west of the dam on the Kitsault River in the Upper Kitsault Valley, 31 kilometres north of Alice Arm. A largely barren quartz vein was investigated

for precious metal mineralization between 1918 and 1922.

The showing consists of a quartz-breccia vein, 1.8 to 4.6 metres wide, striking 135 degrees and dipping 70 degrees northeast. The vein occurs in Middle Jurassic Spatsizi Group argillite which strikes 035 degrees and dips 31 degrees northwest. The vein varies from being a network of quartz stringers in numerous brecciated argillite fragments to essentially pure quartz with no argillite fragments. The quartz contains sparse pyrite with a trace of chalcopyrite. A sample of the vein from an adit driven underneath the outcrop assayed 9.29 grams per tonne gold (Minister of Mines Annual Report 1921, page 52).

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235-243 EMPR OF 1986-2 EMPR BULL 63 EMPR MAP 8 RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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DATE CODED: 1985/07/24 DATE REVISED: 1989/04/30 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 220

NATIONAL MINERAL INVENTORY: 103P13 Mo2

PAGE:

NORTHING: 6200534

EASTING: 454914

REPORT: RGEN0100

1316

NAME(S): MCADAM POINT, MOS2, JACK, JACKIE, HROTHGAR, WRATH,

RED MOUNTAIN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13E UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 56 53 N LONGITUDE: 129 43 19 W ELEVATION: 1500 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Approximate location of centre of stock (Assessment Report 7152).

Silver COMMODITIES: Molybdenum Lead Gold 7inc

**MINERALS** 

SIGNIFICANT: Pyrite Molybdenite Sphalerite Gold Galena Ápatite

Tetrahedrite ASSOCIATED: Quartz Feldspar

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: veni CLASSIFICATION: Porphyry Flydion. C TVPF: L05 Porphyry Mo (Low F- type) CHARACTER: Vein Stockwork Breccia

Hydrothermal **Epigenetic** 

105 Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Folded Fractured

HOST ROCK

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Bowser Lake Undefined Formation Jurassic Coast Plutonic Complex Tertiary

LITHOLOGY: Granodiorite

Quartzite Siltstone Tuff

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine Bowser Lake

METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Hornfels

INVENTORY

REPORT ON: N ORE ZONE: SHEAR

> YEAR: 1967 CATEGORY: Assav/analysis

SAMPLE TYPE: Channel

COMMODITY Gold 8.5700 Grams per tonne

0.2300 Per cent Molybdenum

COMMENTS: A 8.5 metre sample (channel?) from a pyritic shear zone. Resampling of granodiorite drill core in 1977 assayed 0.001%.

REFERENCE: Assessment Reports 1588 and 6580.

CAPSULE GEOLOGY

The McAdam showing is located 16 kilometres east of Stewart near the southeastern margin of the Bromley Glacier. The showing was first discovered in 1965 and the area is presently being investigated for gold mineralization. The Red Mountain discovery (103P 086) is located approximately 1.5 kilometres to the northeast.

The region is underlain by sedimentary rocks of the Middle to Upper Jurassic Bowser Lake Group intruded by granitic Coast Plutonic Complex rocks.

The showing is underlain by thinly laminated variably schistose and broken quartzites, crystal tuffs and siltstones which have been intruded by a coarse grained granodiorite stock. The distorted bedding trends northwest and aplitic to pegmatitic offshoot dykes are common. Evidence suggests that these rocks lie on the steep overturned east limb of a regional anticlinal structure which trends and plunges northward.

GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

#### CAPSULE GEOLOGY

The stock is mineralized with pyrite and molybdenite as irregular fracture or grain boundary fillings and molybdenite as well shaped randomly disseminated rosettes. Pyrite and molybdenite also occur in irregular veins or lenses along several vertical north trending shear zones which transect the stock and hornfelsed sediments. The offshoot dykes contain scattered mineralization and quartzites contain minor pyrite, molybdenite and apatite. Apatite occurs as a major constituent in lenses within impure quartzites, which exhibit well preserved primary structures. The contact zone around the stock contains pink feldspar and mineralized quartz veins. Portions of the contact zone are well mineralized with molybdenite and grades are generally higher than in the stock itself. Gold is reported to be present in significant amounts in large quartz veins in the peripheral mineralized zone and in pyrite veins (103P 086). The veins also contain galena, sphalerite, pyrite, and tetrahedrite.

The stock may extend under the ice to Lost Mountain (103P 007)

where several outcrops of similar granodiorite with molybdenite mineralization have been located. The Bromley Glacier is receding quite rapidly, 107 metres from 1960 to 1967, exposing more of the It is possible that the granodiorite extends to the Goldslide Creek (103P 221) area and if so the stock would be 137 metres below surface. It is speculated that the porphyry and granodiorite are related.

A 8.5 metre sample from a pyritic shear zone averaged 0.23 per cent molybdenite and 8.57 grams per tonne gold (Assessment Report 1588 p.7). Re-sampling of core from drill hole N-5 in the granodiorite averaged 0.001 per cent molybdenite (Assessment Report 6580 p.4).

#### **BIBLIOGRAPHY**

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DATE CODED: 1985/07/24 DATE REVISED: 1989/12/19 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 221

NATIONAL MINERAL INVENTORY: 103P13 Mo3

PAGE:

NORTHING: 6201487

EASTING: 455375

TREND/PLUNGE:

REPORT: RGEN0100

1318

NAME(S): GOLDSLIDE CREEK, MOS2, JACK, JACKIE, HROTHGAR WRATH,

RED MOUNTAIN

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13E UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 57 24 N LONGITUDE: 129 42 53 W

ELEVATION: 1432 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of sampled area in upper cirgue of Goldslide Creek (Assess-

ment Report 7152).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Apatite Molybdenite Chalcopyrite **Epidote** Chlorite Carbonate

ALTERATION: Sericite
ALTERATION TYPE: Propylitic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal Stockwork Disseminated Porphyry **Epigenetic** 

TYPE: L05 Porphyry Mo (Low F- type)

SHAPE: Irregular MODIFIER: Fractured DIMENSION:

COMMENTS: Attitude of zones or veins.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER Bowser Lake Jurassic Undefined Formation

STRIKE/DIP: 025/90

Middle Jurassic Coast Plutonic Complex

LITHOLOGY: Quartz Hornblende Diorite Porphyry Siliceous Siltstone

Siliceous Araillite Meta Quartzite

Chert

HOSTROCK COMMENTS: Intrusives are Middle Jurassic and possibly younger in age. Bowser

Lake Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> Assay/analysis YEAR: 1978

CATEGORY: Assay SAMPLE TYPE: Grab COMMODITY

GRADE 0.0300 Per cent Molybdenum 0.0260 Per cent

COMMENTS: Best assay from sampling program, also trace gold.

REFERENCE: Assessment Report 7152.

**CAPSULE GEOLOGY** 

The Goldslide Creek showing is located 16 kilometres east of Stewart in the upper cirque of the creek. The area was investigated during the 1960's for molybdenite mineralization. The Red Mountain discovery (103P 253) is located approximately 750 metres up the creek from this showing.

The area is underlain by sediments of the Middle to Upper Jurassic Bowser Lake Group intruded by Middle Jurassic and possibly younger stocks and dykes of the Coast Plutonic Complex.

The showing is underlain by a sequence of thinly laminated and

bedded siliceous siltstone, argillite and metaquartzite. The sediments grade from dominantly quartzite to poorly banded, near

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

homogeneous, chert. The sediments strike northwest and dip steeply south. Quartz hornblende diorite porphyry occurs along the contact between chert and siliceous sediments. Pyritic zones or veins, striking 025 degrees and dipping vertically, cut variably fractured porphyry and locally extend into the country rock. Quartz veining, propylitic alteration and replacement are widespread. Mineralization consists of molybdenite, pyrite and chalcopyrite. Pyrite and apatite are ubiquitous but are concentrated in mafic phases. The best assay from this area was 0.026 per cent molybdenum, 0.03 per cent copper and trace gold (Assessment Report 7152).

It is possible that the granodiorite at McAdam Point (103P 220) extends to this area and if so the stock would be 137 metres below surface, it is speculated that the porphyry and granodiorite are related.

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DATE CODED: 1985/07/24 DATE REVISED: 1989/12/04 CODED BY: GSB FIELD CHECK: N REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 221

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 222

NAME(S): HILLSIDE, CD,CU

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P05W BC MAP:

LATITUDE: 55 26 33 N

LONGITUDE: 129 50 13 W ELEVATION: 290 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of gossanous cliff (Property File - Alldrick, D., 1986 Anyox

COMMODITIES: Copper

I ead

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Quartz

Pyrite Biotite Chalcopyrite

Disseminated

Galena

STRIKE/DIP:

COMMENTS: Quartz-biotite schist zones.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Massive CLASSIFICATION: Unknown TYPE: G04 B6

Besshi massive sulphide Cu-Zn

DIMENSION: 0244

Metres

COMMENTS: The Hillside showing dips steeply and strikes east for at least

244 metres.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE

Jurassic Hazelton Upper Triassic Vancouver

**GROUP** 

**FORMATION** 

Undefined Formation

Karmutsen

LITHOLOGY: Quartz Biotite Schist

Pillow Andesite Greenstone

HOSTROCK COMMENTS: Host rocks are correlative with either the Hazelton Group or the

Karmutsen Formation.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

TERRANE: Stikine
METAMORPHIC TYPE: Regional Wrangell

RELATIONSHIP: COMMENTS: Situated in a roof pendant within the Coast Plutonic Complex. PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

GRADE: Greenschist

PAGE:

NATIONAL MINERAL INVENTORY: 103P5 Cu7

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6144353

**EASTING: 447053** 

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1320

CAPSULE GEOLOGY

The Hillside showing is located about 1.0 kilometre east of the main dam on Anyox/Falls Creek, about 3.0 kilometres northwest of The area has been explored for copper in the past. Anyox.

The area is underlain by the western margin of a 14.4 by 9.6 kilometre roof pendant within the Coast Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group (Grove, T., 1986), but have also been correlated with the Upper Triassic

Kunga Group sediments and Karmutsen Formation (Vancouver Group)
volcanics (Sharp, R.J.,1980, M.Sc. Thesis).

The volcanics consist of mafic, massive and pillowed flows with minor tuffs variably altered to greenstone. The overlying sediments consist of argillite, siltstone and sandstone with minor limestone and chert. These rocks have been deformed by two phases of folding, a north-northeast trending phase, and an east-northeast trending phase

The occurrence comprises two individual showings. The Hillside showing consists of steep, east trending, lens-like bodies in altered andesitic pillow flows and pillow breccias. The mineralization consists of massive to disseminated pyrrhotite, pyrite and chalcopyrite contained mainly in altered quartz-biotite schist zones within the volcanics. The mineralization can be traced for at least 244 metres.

South of the Hillside showing, at an elevation of 351 metres, galena mineralization is found in a steeply dipping leached quartzose zone trending 080 degrees within altered pillow flows.

> MINFILE NUMBER: 103P 222

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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235-243

EMPR GEM 1969-59; 1970-81; 1972-504

EMPR OF 1999-2 EMPR PF (\*Alldrick, D. (1986) Anyox Map) EMPR MAP 8

GSC MAP 1385A

DATE CODED: 1985/07/24 DATE REVISED: 1989/01/31 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 222

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 223

NAME(S): AJAX, LE ROY

STATUS: Developed Prospect REGIONS: British Columbia

NTS MAP: 103P11W BC MAP:

LATITUDE: 55 35 24 N

LONGITUDE: 129 24 05 W ELEVATION: 888 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of trench with molybdenite, on the east slope of Mount McGuire, approximately 13 kilometres northeast of the town of Alice

Arm (Property File - Newmont maps).

COMMODITIES: Molybdenum Zinc Lead Copper Silver

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrrhotite Sphalerite **Pyrite** Galena

Chalcopyrite

ASSOCIATED: Quartz

ALTERATION: Sericite

ALTERATION TYPE: Sericitic

Quartz

Albite Silicific'n

**Epidote** Garnet

Skarn

105

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork Dissemin
CLASSIFICATION: Porphyry Hydrothe
TYPE: L05 Porphyry Mo (Low F- type) Disseminated Vein

Hydrothermal **Epigenetic** 

SHAPE: Regular MODIFIER: Folded

DIMENSION: 900 x 750 Metres STRIKE/DIP:

COMMENTS: Mineralization in four elongate stocks covering an area 900 by 750

metres

HOST ROCK

DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **FORMATION** Upper Triassic Stuhini Undefined Formation

Eocene

ISOTOPIC AGE: 54.5 Ma

DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Quartz Porphyritic Quartz Monzonite

Biotite Quartz Monzonite

Araillite Silfstone Greywacke Augite Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Bowser Lake METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Stocks occur within the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: AJAX REPORT ON: Y

> CATEGORY: Combined YEAR: 1967

QUANTITY: 178540000 Tonnes COMMODITY

GRADE Molvbdenum 0.0700 Per cent

COMMENTS: Measured and indicated reserves at a very high stripping ratio. Grade given was 0.121% MoS2, conversion to Mo using a factor of 1.6681. REFERENCE: CIM Special Volume 15 (1976), Table 3, page 422.

CAPSULE GEOLOGY

The Ajax occurrence is located on the east slope of Mount McGuire, about 13 kilometres northeast of the town of Alice Arm. Newmont Exploration defined considerable reserves of molybdenum from

extensive drilling carried out during the 1960's.

The deposit is a result of the intrusion of four closely-spaced

stocks into a folded sequence of Upper Triassic Stuhini Group

PAGE:

NATIONAL MINERAL INVENTORY: 103P11 Mo1

MINING DIVISION: Skeena

Polymetallic veins Ag-Pb-Zn±Au

Alice Arm Intrusion

TREND/PLUNGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6160522

EASTING: 474702

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### **CAPSULE GEOLOGY**

sediments. The area is underlain by argillite, siltstone and greywacke with a few augite andesite flows up to a metre thick. These rocks occur on the steeply dipping east limb of the northwest trending Mount McGuire anticline. They have been contact metamorphosed in a north-northwest trending 2100 by 1500 metre zone centred on the four stocks. The inner part of this zone consists of quartz-albite-epidote-garnet skarn alteration, while the outer portion consists of biotite hornfels.

The stocks are small, elongate quartz monzonite bodies of the Eocene Alice Arm Intrusion covering a 900 by 750 metre area. The southern stock trends northwest with dimensions of 460 by 300 metres, the other three stocks trend east-northeast with dimensions of about 300 by 150 metres. The two southern stocks are quartz-feldspar porphyritic quartz monzonite and the two northern stocks are essentially a network of closely-spaced east-northeast and north-northwest trending dykes of biotite-rich quartz monzonite.

Alteration is most common in the two southern stocks and consists of the sericitization of plagioclase phenocrysts and the alteration of biotite to muscovite. Silicification occurs adjacent to quartz veinlets.

Mineralization occurs within the stocks and in the adjacent contact metamorphosed rocks as randomly orientated fractures filled with quartz and pyrrhotite and coatings and bands of molybdenite. Disseminated molybdenite also occurs in a stockwork of 3 to 6 millimetre diameter quartz veinlets and in silicified zones deeper within the stocks.

Four stages of mineralization are evident in the Ajax deposit. An initial stage of quartz-pyrrhotite mineralization is followed by two stages of quartz-molybdenite-pyrrhotite mineralization. These are followed by a final stage of coarse-grained quartz veins, up to 7 centimetres wide, containing sphalerite and lesser amounts of pyrite, galena and chalcopyrite. The Le Roy occurrence (103P 163) is one of the largest of these veins.

Combined (measured and indicated) reserves at Ajax are 178,540,000 tonnes grading 0.07 per cent molybdenum; grade given was 0.121 per cent MoS2, conversion to Mo using a factor of 1.6681; total reserves of 417.3 million tonnes grading 0.09 per cent MoS2 (or 0.05 percent Mo) (CIM Special Volume 15 (1976), Table 3, page 422).

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EMPR MAP 8; 65 (1989)
EMPR OF 1986-2; 1992-1
EMPR PF (\*Newmont, Maps and Various Drill Core Logs, 1967; \*Woodcock, J.R., Carter, N.C. (1976) Paper 46)
EMR MIN BULL MR 223 B.C. 307
EMR MP CORPFILE (Kitsault Mines Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 70
CIM Spec. Vol.\*15, pp. 467-469
WWW http://www.infomine.com/

DATE CODED: 1985/07/24 DATE REVISED: 1989/02/09 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

PAGE:

REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 224 NATIONAL MINERAL INVENTORY: 103P13 Ag11

NAME(S): BLUE GROUSE, BLUE RIBBON

STATUS: Past Producer MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P13W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 57 19 N LONGITUDE: 129 51 37 W ELEVATION: 1497 Metres NORTHING: 6201436 **EASTING: 446285** 

LOCATION ACCURACY: Within 500M

COMMENTS: Portal of adit (Minister of Mines Annual Report 1938, p.B22).

COMMODITIES: Silver 7inc Gold I ead Copper

Antimony Cadmium

**MINERALS** 

SIGNIFICANT: Sphalerite Boulangerite Pyrite Galena Arsenopyrite

Pyrrhotite Chalcopyrite COMMENTS: Massive to disseminated.

ASSOCIATED: Quartz Calcite Siderite Ankerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Massive Disseminated

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 105 SHAPE: Tabular Polymetallic veins Ag-Pb-Zn±Au

MODIFIER: Faulted

DIMENSION: 91 Metres STRIKE/DIP: 035/50N TREND/PLUNGE:

COMMENTS: Vein, 0.10 to 0.30 metres wide has been traced for 91 metres, strikes

020 to 056 degrees and dips 50 to 75 degrees northwest.

HOST ROCK DOMINANT HOSTROCK: Plutonic

IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE **GROUP FORMATION** 

Middle Jurassic Hazelton Salmon River Tertiary Coast Plutonic Complex

LITHOLOGY: Augite Diorite

Argillite Greywacke Liméstone

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine COMMENTS: Situated at the western margin of the Stewart Complex.

INVENTORY

ORE ZONE: DUMP REPORT ON: N

> YEAR: 1938 Assay/analysis

CATEGORY: Assay/analy SAMPLE TYPE: Bulk Sample **GRADE COMMODITY** 

Silver 2982.0000 Grams per tonne Gold 0.6900 Grams per tonne Copper 0.4000 Per cent Lead 6.8000 Per cent Antimony 0.1000 Per cent 19.5000 Per cent

COMMENTS: A 15.5 kilogram bulk sample of sorted ore.

REFERENCE: Minister of Mines Annual Report 1938, page B23.

CAPSULE GEOLOGY

The Blue Grouse deposit is located just west of the Cambria Icefield at headwaters of Glacier Creek,  $8.5\ \mathrm{kilometres}$  eastnortheast of Stewart. Several shipments of high grade lead-zinc-

silver ore were produced from a vein discovered in 1937.

The deposit occurs at the southeastern margin of a 3.0 kilometre long, 2.0 kilometre wide Tertiary augite diorite stock which intrudes argillite, greywacke and limestone of the Middle Jurassic Salmon River Formation.

The deposit consists of 0.10 to 0.30 metre wide vein, striking 020 to 056 degrees and dipping 50 to 75 degrees northwest, within a

PAGE:

REPORT: RGEN0100

RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT
RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

shear zone. The vein has been traced underground along strike for 91 metres and is displaced 5 metres by a dextral strike slip fault which strikes 156 degrees and dips 70 degrees southwest.

Mineralization consists of massive to disseminated sphalerite, boulangerite, pyrite, galena, arsenopyrite, with minor pyrrhotite and chalcopyrite in a gangue of quartz, calcite, siderite and ankerite. A 15.5 kilogram sample of sorted ore assayed 0.69 grams per tonne gold, 2982 grams per tonne silver, 0.4 per cent copper, 6.8 per cent lead, 19.5 per cent zinc and 0.1 per cent antimony (Minister of Mines Annual Report 1938, page B23). A series of chip samples indicated that the vein averages 1988 grams per tonne silver over an approximate width of 0.3 metres and a strike length of 30 metres (Property File - Chisholm, E.O. (1973) p. 6).

File - Chisholm, E.O. (1973) p. 6).

In 1968 and 1973, a total of 11 tonnes of sorted ore with an average grade of 4125 grams per tonne silver, 17.6 per cent lead and 19.9 per cent zinc were produced.

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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/06/03 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 224

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REPORT: RGEN0100

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 225

NAME(S): **KAY**, LAVA

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P03W BC MAP: LATITUDE: 55 08 17 N

LONGITUDE: 129 20 06 W ELEVATION: 133 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Located on south side of Nass River, 23 kilometres southwest of

Aiyansh (Assessment Report 6853).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Molybdenite

ASSOCIATED: Quartz ALTERATION: Chlorite Powellite

Pyrite

Muscovite **Epidote** 

Albite

Arsenopyrite

Sericite

ALTERATION TYPE: Propylitic Oxidation

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Disseminated CLASSIFICATION: Hydrothermal TYPE: L05 Porph Porphyry Porphyry Mo (Low F- type)

SHAPE: Irregular MODIFIER: Fractured

DIMENSION:

STRIKE/DIP: COMMENTS: Quartz veins occupying northeast trending joints host mineralization. TREND/PLUNGE: 045/

PAGE:

NATIONAL MINERAL INVENTORY: 103P3 Mo3

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6110206

EASTING: 478644

REPORT: RGEN0100

1326

Tertiary

HOST ROCK DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Jurassic

**GROUP Bowser Lake**  **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Coast Plutonic Complex

LITHOLOGY: Quartz Monzonite Porphyry

Quartz Feldspar Porphyry Hornfels

Araillite Grevwacke Alaskite Dike Aplite Dike

HOSTROCK COMMENTS:

Molybdenum showings occur on northern margin of Ponder Pluton. Bowser

Laké Group is Middle to Upper Jurassic in age.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks

METAMORPHIC TYPE: Contact

PHYSIOGRAPHIC AREA: Nass Depression

Bowser Lake

RELATIONSHIP: Syn-mineralization

GRADE: Hornfels

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

YEAR: 1978 CATEGORY: Assay/analysis

SAMPLE TYPE: Grab

**GRADE** 

COMMODITY Molybdenum 0.0700 Per cent

COMMENTS: Grab sample B from zone 2. Commodity is MoS2.

REFERENCE: Assessment Report 6853.

CAPSULE GEOLOGY

The Kay showing is located on the south side of the Nass River between Kwinyarh and Ansedagan creeks. The area has been

investigated for porphyry molybdenum deposits periodically from 1966

to 1978.

The area is underlain by Middle to Upper Jurassic Bowser Lake Group argillite and greywacke intruded by granitic rocks of the Tertiary Coast Plutonic Complex. Several molybdenum showings occur along the northern limit of the Ponder Pluton and the Kay is one of

A quartz monzonite porphyry stock, trending northwest and

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

plunging west, is cut by later aplite and alaskite dykes. Visible molybdenite has been observed in northeast trending fracture filling quartz veins which also cut the stock. The stock is elliptical in shape and is 1200 by 600 metres in size. Two sets of conjugate joints are present and mineralization appears to be controlled by the northeast trending set. Propylitic alteration is evidenced by the presence of chlorite, muscovite and epidote in the hornfels and by albite and sericite in the stock.

Molybdenite occurs as rosettes in the stock, in quartz veins in the stock and rarely in hornfels. Fine grained disseminated molybdenite occurs in the dykes and rarely in the stock or on fractures. The quartz veins are generally irregular, short and widely spaced. Pyrite appears to be associated with the molybdenite mineralization and arsenopyrite occurs near the eastern extent of the stock. Powellite is frequently present on exposed surfaces of the

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DATE CODED: 1985/07/24 DATE REVISED: 1989/12/12 FIELD CHECK: N CODED BY: GSB REVISED BY: DEJ

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 226 NATIONAL MINERAL INVENTORY: 103P5 Sia5

NAME(S): RAMBLER, RAMBLER QUARTZ

STATUS: Past Producer Open Pit Underground MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 24 28 N NORTHING: 6140496 LONGITUDE: 129 50 48 W ELEVATION: 0198 Metres EASTING: 446391

LOCATION ACCURACY: Within 500M

COMMENTS: Location of open pit (Property File - Alldrick, D., Anyox Map 1986).

COMMODITIES: Silica Gold Silver

**MINERALS** 

SIGNIFICANT: Quartz F COMMENTS: Rare sphalerite. Pyrite Pyrrhotite Sphalerite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Stratiform

CLASSIFICATION: Hydrothermal **Epigenetic** Industrial Min.

TYPE: I07 Silica veins DIMENSION: 0250 x 0010 STRIKE/DIP: 034/50N TREND/PLUNGE: Metres

COMMENTS: Vein strikes for at least 250 metres with a thickness of 10 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE IGNEOUS/METAMORPHIC/OTHER

Undefined Formation Jurassic Hazelton Upper Triassic Kunga Undefined Formation

LITHOLOGY: Argillite

Wäcke Grit Volcanic

HOSTROCK COMMENTS: Host rocks belong to either the Hazelton Group or the Kunga Group.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine
METAMORPHIC TYPE: Regional Wrangell RELATIONSHIP: Syn-mineralization GRADE: Greenschist

COMMENTS: Situated in a roof pendant within the Coast Plutonic Complex.

CAPSULE GEOLOGY

The Rambler Quartz mine is located about 1.0 kilometre west of Granby Bay on Observatory Inlet, 2.5 kilometres southwest of Anyox. Quartz was mined between 1920 and 1924 as a source of silica flux for the copper smelter at Anyox.

The area is underlain by the western margin of a 14.4 by 9.6 kilometre roof pendant within the Coast Plutonic Complex. These rocks have been correlated with the Lower Jurassic Hazelton Group (Grove, T., 1986), but have also been correlated with the Upper Triassic Kunga Group sediments and the Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J., 1980, M.Sc. Thesis).

Volcanics consist of massive and pillow andesitic to basaltic flows with minor mafic tuffs, that have been altered to greenstone in places as a result of regional greenschist metamorphism. The overlying sedimentary sequence contains argillite, siltstone and sandstone with minor limestone and chert. Deformation consists of north-northeast trending folds with later east-northeast trending folds.

.. The Rambler quartz vein is developed along a bedding plane in a plv dipping sequence of argillite and wacke (grit). The vein steeply dipping sequence of argillite and wacke (grit). The ve strikes 034 degrees for at least 250 metres and dips 50 degrees northwest with a true width of 10 metres. The vein consists of milky white quartz mineralized with traces of pyrite, pyrrhotite and rare sphalerite. The most intensely mineralized portion of the vein assayed trace gold and silver (Property File - Bancroft, J.A. (1918) 53).

The Rambler vein produced 107,712 tonnes of silica between 1920 and 1924. The quartz was reported to be barren of precious metals.

PAGE:

REPORT: RGEN0100

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMPR PF (\*Bancroft, J.A. (1918) Report; Pell, J. (1982): Silica Prospects in the Anyox Area, B.C.; Alldrick, D., (1986) Anyox Map) EMPR OF 1987-15, p. 35 EMPR BULL 63 EMPR MAP 8 GSC MAP 307A; 1385A Sharp, R.J. (1908): The Geology, Geochemistry & Sulphur Isotopes of the Anyox Massive Sulphide Deposits, University of Alberta, M.Sc.

CODED BY: GSB REVISED BY: PSF DATE CODED: 1985/07/24 DATE REVISED: 1989/01/29 FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 226

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REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 227

NATIONAL MINERAL INVENTORY: 103P5 Sia3

NAME(S): **LARCOM ISLAND** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

Polymetallic veins Ag-Pb-Zn±Au

NTS MAP: 103P05E BC MAP: UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1330

LATITUDE: 55 27 41 N LONGITUDE: 129 44 55 W NORTHING: 6146391 EASTING: 452664

ELEVATION: Metres
LOCATION ACCURACY: Within 500M

COMMENTS: Location of trench (Minister of Mines Annual Report 1947 p.96).

COMMODITIES: Silver Gold Silica

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena ASSOCIATED: Quartz

ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Stockwork
CLASSIFICATION: Hydrothermal Epigenetic

SIFICATION: Hydrothermal Epigenetic Industrial Min.

TYPE: I07 Silica veins I05

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP FORMATION IGNEOUS/METAMORPHIC/OTHER

JurassicHazeltonUndefined FormationUpper TriassicKungaUndefined Formation

LITHOLOGY: Dike Araillite

HOSTROCK COMMENTS: Sediments are correlative to either the Hazelton Group or the Kunga

Group. Mineralized dyke of unknown affinity.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)
TERRANE: Stikine Bowser Lake

METAMORPHIC TYPE: Regional RELATIONSHIP: Syn-mineralization GRADE: Greenschist COMMENTS: Situated in Bowser Lake clastic wedge on the Stikinia Terrane.

CAPSULE GEOLOGY

The Larcom Island showing is located on the north end of Larcom Island in the Hastings Arm of Observatory Inlet. Silica was reported to have been shipped from here to the copper smelter at Anyox for flux.

The area is underlain by the western margin of a 14.4 by 9.6 kilometre roof pendant within the Coast Plutonic Complex. These rocks have been correlated with the Jurassic Hazelton Group (Grove, T., 1986), but have also been correlated with the Upper Triassic Kunga Group sediments and the Karmutsen Formation (Vancouver Group) volcanics (Sharp. R.J. 1980. M.Sc. Thesis).

volcanics (Sharp, R.J.,1980, M.Sc. Thesis).

Volcanics consist of variably chloritized mafic flows and tuffs overlain by a sequence of sediments containing argillite, siltstone and sandstone with minor limestone and chert. These rocks have been regionally metamorphosed to greenschist grade and have been subjected to a north-northeast trending phase and a later east-northeast trending phase of folding

trending phase of folding.

The Larcom Island occurrence consists of a pyritic, silicified and shattered dyke cutting argillite. The dyke, exposed in a 9.0 metre long trench on the beach, contains veinlets and lenses of white and blue quartz. The quartz itself contains some pyrite, sphalerite and galena. A sample assayed trace gold and 37.7 grams per tonne silver.

Seven thousand tonnes were reported to have been removed from this property to the Anyox Copper Smelter for silica flux.

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235-243

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1989/01/31 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 228

NATIONAL MINERAL INVENTORY: 103P5 Mo3

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1332

NAME(S): MOLY MAY, MOLLY MACK, MOLY MAY EAST, MOLY MAY WEST, MOLY MAY SOUTH

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P05W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 21 29 N LONGITUDE: 129 47 36 W NORTHING: 6134923 EASTING: 449705

**ELEVATION:** Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of Molly Mack showing (Assessment Report 10898, Fig. 3).

COMMODITIES: Molybdenum Gold Silver

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrite COMMENTS: Disseminations and blebs. ASSOCIATED: Quartz

ALTERATION: Kaolinite Sericite Quartz

ALTERATION TYPE: Argillic MINERALIZATION AGE: Eocene ISOTOPIC AGE: 48.3 +/- 1.9 Ma Silicific'n Sericitic

DATING METHOD: Potassium/Argon MATERIAL DATED: Biotite

**DEPOSIT** 

CHARACTER: Disseminated Stockwo
CLASSIFICATION: Porphyry Hydrothe
TYPE: L05 Porphyry Mo (Low F- type) Stockwork Vein **Epigenetic** Hydrothermal

DIMENSION: 8000 x 0500 STRIKE/DIP: Metres TREND/PLUNGE:

COMMENTS: Four zones occur in semi-circular 8000 by 500 metre area.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Alice Arm Intrusion

ISOTOPIC AGE: 48.3 +/- 1.9 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Quartz Monzonite

Alaskite Peamatite Biotite Granite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

COMMENTS: Adjacent to the Anyox roof pendant within the Coast Plutonic Complex.

INVENTORY

ORE ZONE: EAST REPORT ON: N

> CATEGORY: YFAR: 1981 Assay/analysis

SAMPLE TYPE: Chip

**GRADE** COMMODITY Molvbdenum 0 2540 Per cent

COMMENTS: Composite chip sample over 5 metres. REFERENCE: Assessment Report 10120, page 16.

**CAPSULE GEOLOGY** 

The Molly Mack prospect is located on the west side of Observatory Inlet about 7 kilometres south of Anyox. It has been examined recently for porphyry related molybdenum/gold

mineralization.

The deposit is situated in an Eocene, northeast trending, 2.5 by  $1.0~{\rm kilometre~quartz~monzonite~stock}$  (The Moly May stock) that has intruded Jurassic Hazelton Group(?) sediments and volcanics. A sequence of argillite, siltstone and greywacke underlie Granby and Bocking Peninsulas north of the Moly May stock. Granodiorite of the Coast Plutonic Complex borders on the Moly May stock to the west. The Moly May stock is similar to other Alice Arm Intrusions, which generally form small porphyritic molybdenum bearing bodies of quartz monzonite.

The deposit consists of four zones of molybdenite mineralization

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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### **CAPSULE GEOLOGY**

developed in a semicircular 8000 metre long, 500 metre wide zone of altered and quartz stockwork veined quartz monzonite (alaskite). The zones occur along the northern and western margins of the Moly May stock, peripheral to a core of unaltered quartz monzonite (alaskite). In this zone plagioclase and orthoclase are altered to kaolinite and sericite. Quartz vein stockworks are best developed near the mineralized zones.

The East zone, near the shore of Observatory Inlet, was discovered first. It consists of 5 major showings including the Molly Mack showing on the shoreline. Mineralization consists of disseminated pyrite in quartz veined aplitic pegmatite and associated biotite rich granite. Mineralization occurs within a 300 by 100 metre zone of alteration in quartz monzonite. The pegmatite is likely a late stage of intrusion of the Moly May stock. Composite samples of rock chips have assayed between 14 parts per million and 0.254 per cent molybdenum (Assessment Report 10120, page 16). Gold values have ranged from 0.069 to 59.99 grams per tonne and silver values have ranged from 0.34 to 50.73 grams per tonne (Property File Burton, A. 1987). Three drill holes encountered largely unaltered quartz monzonite with minor sulphides.

The West zone consists of 12 showings in a 200 by 250 metre zone of altered, quartz veined and molybdenum-iron oxide stained sericitic quartz monzonite. The West zone occurs about 700 metres west of the East zone. Mineralization consists of disseminations and blebs of molybdenite and pyrite in the altered quartz monzonite. Assays of composite samples of rock chips have ranged from 5 parts per million to 0.262 per cent molybdenum (Assessment Report 10120, page 11).

The South zone, 1.5 kilometres southwest of the West zone, consists of four showings containing up to 10 per cent disseminated molybdenite in heavily altered and silicified quartz monzonite. The molybdenite has been observed to replace biotite.

molybdenite has been observed to replace biotite.

The Southwest zone, south of the South zone, was discovered and diamond drilled in 1988. Similar molybdenite mineralization containing significant gold values was encountered (Personal Communication - Burton, A. 1989).

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EMPR MAP 8
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IPDM May/June 1982
N MINER Jun. 3, 1982; Jul. 4, 1988
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
DATE REVISED: 1989/01/31 REVISED BY: PSF FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 229

NATIONAL MINERAL INVENTORY: 103P12 Ag17

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6158890 EASTING: 464902

TREND/PLUNGE:

REPORT: RGEN0100

1334

NAME(S): **DOLLAR BILL** 

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 34 29 N LONGITUDE: 129 33 24 W ELEVATION: 1158 Metres

LOCATION ACCURACY: Within 1 KM COMMENTS: Location centered on showing (Minister of Mines Annual Report 1968

p.59).

COMMODITIES: Silver I ead 7inc Copper

**MINERALS** 

SIGNIFICANT: Pyrite Arsenopyrite Galena Sphalerite

COMMENTS: As near massive lenses in vein.

ASSOCIATED: Quartz
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein
CLASSIFICATION: Hydrothermal
TYPE: I05 Polym Epigenetic

Polymetallic veins Ag-Pb-Zn±Au STRIKE/DIP:

DIMENSION: 0100 x 0001 Metres COMMENTS: Vein strikes northwest, dips 45 degrees southwest.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER Upper Triassic Stuhini Undefined Formation

LITHOLOGY: Black Siltstone

Conglomerate

Biotite Lamprophyre Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** 

GRADE: Greenschist COMMENTS: At the southern end of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: VEIN REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1968 SAMPLE TYPE: Chip

**GRADE** 

COMMODITY Silver 13.7000 Grams per tonne Copper 0.0500 Per cent Per cent Lead 0.3700 0.1500 Per cent 7inc

COMMENTS: A 0.9 metre chip sample across vein, trace gold. REFERENCE: Minister of Mines Annual Report 1968, page 60.

CAPSULE GEOLOGY

The Dollar Bill showing is located west of the Kitsault River on the northeast slope of Tsimstol Mountain, 11.0 kilometres north-northwest of Alice Arm. The area was explored in 1968.

The area is underlain by a sequence of volcanics and sediments of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is folded into the doubly plunging, north-northwest trending Kitsault River Syncline and has been regionally metamorphosed to greenschist facies.

The showing consists of a 0.9 metre wide quartz vein developed

along a shear zone in interbedded black siltstones and brown pebble conglomerate of the Stuhini Group. The vein strikes northwest for at least 100 metres and dips 45 degrees southwest.

The vein is largely barren except near its south end where it is cut by a narrow northeast striking biotite lamprophyre dyke. Here, the vein contains near massive lenses of fine-grained pyrite and arsenopyrite with minor galena and sphalerite. A 0.9 metre chip sample across the vein assayed trace gold, 13.7 grams per tonne

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

silver, 0.05 per cent copper, 0.37 per cent lead and 0.15 per cent zinc (Minister of Mines Annual Report 1968, page 60).

**BIBLIOGRAPHY** 

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235-243 EMPR OF 1986-2 EMPR MAP 8 EMPR BULL 63

GSC MAP 307A; 1385A

DATE CODED: 1985/07/24 DATE REVISED: 1989/03/28 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 229

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 230

NAME(S): **EASTER**, THM

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P14W BC MAP:

LATITUDE: 55 49 12 N LONGITUDE: 129 24 59 W ELEVATION: 1434 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of molybdenite occurrence on south end of THM 2 claim

(Assessment Report 955, Map 1).

COMMODITIES: Molybdenum

Lead

7inc

**MINERALS** 

SIGNIFICANT: Molybdenite

ASSOCIATED: Quartz

Pyrite

Galena

Sphalerite

**DEPOSIT** 

CHARACTER: Disseminated CHARACTER. DISC....
CLASSIFICATION: Porphyry
TYPE: L05 Porphyry Mo (Low F- type)

ALTERATION: Sericite
ALTERATION TYPE: Sericitic MINERALIZATION AGE: Unknown

Stockwork

Hydrothermal

**Epigenetic** 

105 Polymetallic veins Ag-Pb-Zn±Au

NATIONAL MINERAL INVENTORY: 103P14 Mo1

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6186125

EASTING: 473910

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

TRATIGRAPHIC AGE

Middle Jurassic Tertiary

GROUP Spatsizi

**FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

PAGE:

REPORT: RGEN0100

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Coast Plutonic Complex

LITHOLOGY: Biotite Granodiorite

Pegmatite Dike Aplite Dike Araillite Siltstone Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine Bowser Lake PHYSIOGRAPHIC AREA: Boundary Ranges

GRADE: Hornfels

METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization COMMENTS: Stock intrudes Bowser Lake foredeep clastic wedge on Stikinia Terrane. RELATIONSHIP: Svn-mineralization

CAPSULE GEOLOGY

The Easter showing is located 2.5 kilometres northeast of White Lake,  $38.5\ \text{kilometres}$  north of Alice Arm. The area has been

periodically explored for molybdenite mineralization.

The showing consists of a west trending body of biotite granodiorite, at least 2000 metres long and 240 to 370 metres wide, intruding folded Middle Jurassic Spatsizi Group greywackes and argillite. These sediments, which strike 100 to 110 degrees, granitized to the south of the intrusion but are only slightly hornfelsed to the south of the inclusion but are only slightly hornfelsed near the contacts. The granodiorite is slightly sericitized near its margins. A series of 15 to 90 metre wide aplite and pegmatite dyke swarms are developed within the intrusive and in the enclosing sediments. They form tight stockworks to the

northeast, comprising up to 30 per cent of the rock. Individual dykes are up to 6 metres wide.

Molybdenite occurs as disseminations in the aplite and pegmatite dykes and in quartz veinlets within the granodiorite and sediments. Molybdenite is widespread in small amounts along fractures within the granodiorite. Pyrite, galena and sphalerite occur in a few quartz veins up to 2.5 centimetres wide.

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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DATE CODED: 1985/07/24 DATE REVISED: 1989/05/26 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N FIELD CHECK: N

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RUN DATE: 26-Jun-2003 12:06:33 RUN TIME:

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 231

NATIONAL MINERAL INVENTORY: 103P3 Mo

PAGE:

REPORT: RGEN0100

1338

NAME(S): **VALLEY**, RIDGE, ZOL, ZOLZAP, HELDAY

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P03W UTM ZONE: 09 (NAD 83)

BC MAP:

NORTHING: 6112410 EASTING: 483752 LATITUDE: LONGITUDE: 129 15 18 W ELEVATION: 333 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of Ridge showing, Valley showing slightly west of Ridge

(Assessment Report 914).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Molybdenite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Silica Sericite Ferrimolybdite

ALTERATION TYPE: Silicific'n Sericitic Oxidation

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Stockwork Disseminated

CLASSIFICATION: Hydrothermal TYPE: L05 Porph Porphyry Porphyry Mo (Low F- type)

SHAPE: Irregular MODIFIER: Fractured

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER

**Bowser Lake** Undefined Formation Tertiary Coast Plutonic Complex

LITHOLOGY: Quartz Monzonite Porphyry

Alaskite Dike Hornfels Granodiorite Greywacke

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age. Stocks occur

near northern margin of Ponder Pluton.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Nass Depression

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks METAMORPHIC TYPE: Contact Bowser Lake

RELATIONSHIP: Syn-mineralization GRADE: Hornfels

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: Assay/analysis YFAR: 1966

> SAMPLE TYPE: Drill Core

COMMODITY Molvbdenum 0.0900 Per cent

COMMENTS: Drillhole V-11 from 4 to 121 metres. Commodity is MOS2.

REFERENCE: Assessment Report 6232.

**CAPSULE GEOLOGY** 

The Valley and Ridge showings are located on the east bank of the Nass River south of Zolzap Creek. The area has periodically been explored for molybdenite mineralization.

The area is underlain by Middle to Upper Jurassic Bowser Lake Group argillaceous sediments intruded by the Ponder granodiorite pluton of the Tertiary Coast Plutonic Complex. Several molybdenum showings occur along the northern limit of the Ponder Pluton and the

Valley and Ridge showings are in this group.

There are several molybdenite showings in this area. Near the north boundary of the Valley and Ridge claims, two small circular stocks of porphyritic quartz monzonite occur 600 metres apart on opposite sides of a lineament (fault?). The stocks intrude granodiorite except along the northern margins where they are in

contact with hornfelsed sediments.

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

Molybdenite mineralization is exposed in trenches near the central part of the Valley stock. The mineralization occurs in quartz veinlets and fractures and as disseminations in quartz monzonite porphyry, alaskite dykes and hornfelsed greywacke. Pyrite is common in the intrusives and chalcopyrite is present in trace amounts in quartz veinlets. Ferrimolybdate is occasionally visible on fracture surfaces and iron oxide staining is common. On other claims in the area, shear zones in sedimentary rocks contain pyrite, pyrrhotite and minor chalcopyrite. The intrusives are moderately fractured and, locally, silicified and sericitized. In 1966 samples from drillhole V-11 over the entire length of the hole (from 4 to 121 metres) assayed 0.09 per cent molybdenite (Assessment Report 6232).

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DATE CODED: 1985/07/24 DATE REVISED: 1989/12/14 FIELD CHECK: N CODED BY: GSB REVISED BY: DEJ

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MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 232

NAME(S): **SNAFU** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P03E BC MAP:

LATITUDE: 55 10 17 N LONGITUDE: 129 09 00 W

ELEVATION: 450 Metres LOCATION ACCURACY: Within 1 KM

COMMENTS: Located approximately 13 kilometres south of Aiyansh, location is approximate centre of claim group (EMPR Annual Report 1967 p.51).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Pyrite Molybdenite Pyrrhotite Chalcopyrite ASSOCIATED: Quartz

ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork Disseminated Vein

CLASSIFICATION: Hydrothermal Porphyry TYPE: L05 Porphyry Mo (Low F- type)

SHAPE: Irregular MODIFIER: Fractured

COMMENTS: Veins occupy northeast and northwest trending fractures.

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER **Bowser Lake** Undefined Formation

Tertiary Coast Plutonic Complex

LITHOLOGY: Quartz Feldspar Porphyry

Hornfels Alaskite Dike Slate Diorite Dike

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age. Showing on

northern limit of Ponder Pluton.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Nass Depression Bowser Lake

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks METAMORPHIC TYPE: Contact RELATIONSHIP: Syn-mineralization GRADE: Hornfels

**CAPSULE GEOLOGY** 

The Snafu showing is located approximately 13 kilometres south of Aiyansh, immediately south of the Nass lava field. The area was periodically explored for molybdenum deposits in the 1960's.

The area is underlain by Middle to Upper Jurassic Bowser Lake Group argillaceous sediments intruded by a quartz feldspar porphyry stock of the Tertiary Coast Plutonic Complex. Several molybdenum showings occur along the northern limit of the Ponder Pluton and the Snafu is one of these. Alaskite dykes follow fractures in the porphyry and northwest striking diorite dykes cut both the intrusive and sediments. The sediments have been hornfelsed in the vicinity of

the intrusive contact.

Molybdenite mineralization occurs primarily in northeast and northwest trending fractures and quartz veinlets in the porphyry, alaskite and hornfelsed sediments along the west contact of the stock. Minor molybdenite occurs disseminated in the stock. Alteration consists of minor silicification and replacement of feldspar adjacent to quartz veinlets. Hornfels and slate contain disseminated pyrite, minor pyrrhotite and trace chalcopyrite. Rare chalcopyrite also occurs in wider more continuous quartz veins.

**BIBLIOGRAPHY** 

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EMPR AR 1966-51, \*1967-50,52 EMPR BULL 63; 64

MINFILE NUMBER: 103P 232

PAGE:

NATIONAL MINERAL INVENTORY: 103P3 Mo

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6113874

EASTING: 490446

REPORT: RGEN0100

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

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EMPR ASS RPT \*794, 8856
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GSC SUM RPT 1923-32
GSC MAP 1385A
EMR MP CORPFILE (Madsen Lake Gold Mines Ltd., Nass River Mines Ltd.)

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/13 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 232

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 233

NATIONAL MINERAL INVENTORY: 103P14 Ag1

PAGE:

REPORT: RGEN0100

1342

NAME(S): **SAULT**, KIT, FROG, KITSAULT

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P14W 103P11W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 45 04 N LONGITUDE: 129 29 24 W NORTHING: 6178488 EASTING: 469244 ELEVATION: 815 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Location of outcrop on east end of lake (Assessment Report 15126,

Figure 3).

COMMODITIES: Zinc Silver Strontium Lead

**MINERALS** 

SIGNIFICANT: Pyrite Strontianite Sphalerite Galena Arsenopyrite

Greenockite

COMMENTS: Lenses and laminae. ASSOCIATED: Barite Celestite

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stratiform Concordant Massive

CLASSIFICATION: Exhalative Syngenetic Noranda/Kuroko massive sulphide Cu-Pb-Zn TYPF: G06

STRIKE/DIP: TREND/PLUNGE: DIMENSION: 800 x 8 Metres 090/29N

COMMENTS: Horizon, up to 8 metres thick, displays continuous mineralization for

800 metre strike length. Dip varies from 20 to 38 degrees north.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

Diamictite

Tuffaceous Andesite Breccia

Breccia Chert

Black Limestone Andesitic Tuff
Dacitic Tuff Basaltic Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: RELATIONSHIP: Post-mineralization GRADE: Greenschist Regional

COMMENTS: Situated in the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay/analysis YEAR: 1989

SAMPLE TYPE: Chip **COMMODITY** 

**GRADE** 73.3600 Silver Grams per tonne Lead 1.3000 Per cent

4.6000 Per cent Zinc

COMMENTS: Continuous chip sample across 2.35 metres. Results from drilling

were lower. REFERENCE: George Cross Newsletter #235, Dec. 7, 1989.

> MINFILE NUMBER: 103P 233

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### INVENTORY

ORE ZONE: WEST REPORT ON: N

> YEAR: 1966 CATEGORY: Assay/analysis SAMPLE TYPE: Chip

COMMODITY **GRADE** 

Silver 1.5000 Grams per tonne 1.3040 Lead Per cent 4.8300 7inc Per cent

COMMENTS: A 1.0 metre chip sample from the West showing.

REFERENCE: Assessment Report 15126, page 13.

### **CAPSULE GEOLOGY**

The Sault showing occurs just south of Kitsault Lake, 30.5 kilometres north of Alice Arm. This zinc showing has been extensively investigated since its discovery in 1966.

The area is underlain by a sequence of volcanic and sedimentary

rocks of the Upper Triassic Stuhini Group, the Lower Jurassic Hazelton Group and the Middle Jurassic Spatsizi Group. The sequence is deformed into the north-northwest trending Mt. McGuire anticline, and

is regionally metamorphosed to greenschist facies.

The showing consists of a stratabound exhalative sulphate horizon with associated breccia, chert, diamictite and black limestone. The horizon occurs within a section of andesitic to dacitic tuff, lapilli tuff, breccia and basaltic flows of the Hazelton Group. These generally dip 15 to 20 degrees north.

The sulphate horizon extends discontinuously for 6.5 kilometres, but displays relatively continuous mineralization along a 800 metre strike length. The horizon is up to 8 metres thick, strikes 090 degrees and dips 20 to 38 degrees north.

The horizon consists of banded barite-celestite, locally interbedded with limestone and chert, which contains lenses and laminae of pyrite, sphalerite and galena.

A 1989 exploration program resulted in the delineation of a new structurally controlled mineralized system known as the Frog North and Frog South showings which have a minimum 700 metre strike length. A continuous chip sample from the Frog South showing across 2.35 metres assayed 4.6 per cent zinc, 1.3 per cent lead and 73.36 grams per tonne silver (George Cross Newsletter #235. Dec.7, 1989). See Torbrit (103P 191) for more details.

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DATE CODED: 1989/05/13 CODED BY: PSF FIELD CHECK: N DATE REVISED: 1997/12/18 REVISED BY: LJ FIFLD CHECK: N

MINFILE NUMBER: 103P 233

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 234 NATIONAL MINERAL INVENTORY: 103P6 Mo4

NAME(S): **BELL MOLY**, MOLY, BELL MOLYBDENUM

STATUS: Developed Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P06W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 27 44 N NORTHING: 6146280 LONGITUDE: 129 20 06 W ELEVATION: 722 Metres EASTING: 478818

LOCATION ACCURACY: Within 500M

COMMENTS: Location of drill hole S15 in the main zone, approximately 10

kilometres east of Alice Arm (Property File - Drill hole location

map).

COMMODITIES: Molybdenum Zinc Silver Lead

**MINERALS** 

SIGNIFICANT: Molybdenite Pyrrhotite Pyrite Galena Sphalerite

ASSOCIATED: Quartz ALTERATION: Sericite Carbonate Orthoclase Chlorite

ALTERATION TYPE: Sericitic Carbonate Potassic Chloritic

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Stockwork

CLASSIFICATION: Porphyry
TYPE: L05 Porphyry Mo (Low F- type) Hydrothermal **Epigenetic** 

105 Polymetallic veins Ag-Pb-Zn±Au

SHAPE: Cylindrical MODIFIER: Faulted

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Jurassic GROUP Bowser Lake IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Undefined Formation Eocene Alice Arm Intrusion

ISOTOPIC AGE: 53.3 Ma DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

LITHOLOGY: Porphyritic Quartz Monzonite Porphyritic Granodiorite

Siltstone Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Bowser Lake METAMORPHIC TYPE: Contact RELATIONSHIP: GRADE: Hornfels

COMMENTS: Stock intrudes the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: BELL MOLY REPORT ON: Y

> CATEGORY: Unclassified YEAR: 1967

> QUANTITY: 32528606 Tonnes

COMMODITY **GRADE** 0.0600 Per cent Molybdenum

COMMENTS: Includes 19,183,350 tonnes grading 0.08% Mo (0.143% MoS2). Grade given for total tonnage 0.11% MoS2; conversion to Mo using factor 1.6681.

REFERENCE: Highland-Bell Ltd. Annual Report 1967.

CAPSULE GEOLOGY

The Bell Moly occurrence is located about 10 kilometres east of Alice Arm. Extensive exploration of this deposit in the past has

resulted in the definition of considerable molybdenum reserves.

The deposit is contained in a small elongate Eocene stock of the Alice Arm Intrusion. The stock intrudes folded Middle-Upper Jurassic Bowser Lake Group siltstones and greywackes. These sediments are contact metamorphosed to biotite hornfels 335 to 670 metres outward from the stock. They are overlain by olivine basalts of Pleistocene

age to the north and south of the stock.

The stock is a 670 by 335 metre, east-northeast trending body of quartz monzonite. The stock consists of three phases. The main phase consists of leucocratic porphyritic quartz monzonite that forms

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

the core. It grades into a porphyritic granodiorite/quartz monzonite at the margins. A later, post-mineralization quartz-eye porphyritic quartz monzonite occurs in the southwestern part of the stock. The stock is cut by 0.3-metre wide dykes of fine-grained alaskite. These rocks are all intruded by northeast striking 0.3 to 0.5-metre wide lamprophyre and basaltic to andesitic dykes. The stock is segmented by several northwest trending faults.

The stock has undergone several forms of alteration. Sericite-

The stock has undergone several forms of alteration. Sericite-carbonate alteration of plagioclase is most common. Plagioclase is also altered to potassium feldspar, especially along margins of quartz veinlets. Potassic alteration is confined largely to the central leucocratic porphyritic quartz monzonite. In the quartz eye quartz monzonite and porphyritic granodiorite/quartz monzonite, biotite is altered to a mixture of chlorite and sericite. Argillic and sericitic alteration is common in fault zones.

Mineralization is developed in the porphyritic quartz monzonite and biotite hornfelsed siltstone and greywacke in two zones, the Main zone at the eastern and northern margins of the stock, and the Southwest zone, about 1370 metres southwest of the Main zone. Molybdenite occurs as selvages in 0.5 to 1.0 centimetre steeply dipping quartz veinlets. Mineralized and barren quartz veining has developed in four stages. An initial stage of barren quartz veining is followed by steeply inclined quartz-molybdenite-pyrite veins. These are locally offset by shallow dipping quartz-molybdenite veins and fractures. Quartz-carbonate veins at least 2 centimetres in diameter, containing variable amounts of pyrite, pyrrhotite, galena and sphalerite form the fourth stage of veining.

Unclassified reserves at Bell Moly are 32,528,606 tonnes grading 0.06 per cent molybdenum; includues 19,183,350 tonnes grading 0.08 per cent molybdenum (or 0.143 per cent MoS2); grade given for total tonnage was 0.11 per cent MoS2; conversion to Mo using a factor of 1.6681; tungsten detected in drill cores is of unknown economic significance (Highland-Bell Ltd. Annual Report 1967).

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EMPR OF 1986-2; 1992-1
EMPR PF (*Woodcock, J.R., Carter, N.C. (1976) Paper 46; Bell Molybdenum Mines Ltd. Prospectus, 1967; Bell Molybdenum Mines Annual Report, 1982; *Various maps, sections and core logs)
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N MINER Apr. 24, 1980; Oct. 4, 1984; Jan. 10, 1985
CMH 72/73, p. 45; 85/86, p. 61
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DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N
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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 235

NATIONAL MINERAL INVENTORY:

NAME(S): **DOLLY** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1346

LATITUDE: 55 58 39 N LONGITUDE: 129 59 47 W ELEVATION: 1445 Metres NORTHING: 6204024 EASTING: 437822

TREND/PLUNGE:

LOCATION ACCURACY: Within 500M

COMMENTS: Surface trace of vein, 4.5 kilometres north-northwest of Stewart on

the slope of Mount Dolly (Assessment Report 12620).

COMMODITIES: Gold

MINERALS
SIGNIFICANT: Sulphide MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 102 DIMENSION: Intrusion-related Au pyrrhotite veins STRIKE/DIP: 090/

COMMENTS: Vein

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **FORMATION** IGNEOUS/METAMORPHIC/OTHER **GROUP** Lower Jurassic Hazelton Unuk River

LITHOLOGY: Siltstone Argillite Tuff

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YEAR: 1983 CATEGORY: Assav/analysis SAMPLE TYPE: Grab

**GRADE** COMMODITY

Gold 8.2600 Grams per tonne

REFERENCE: Assessment Report 12620.

**CAPSULE GEOLOGY** 

The Dolly showing consists of a 0.9 metre wide massive sulphide vein striking 090 degrees. The vein has been traced for 26 metres and is hosted in siltstone/argillite and tuff of the Lower Jurassic Unuk River Formation (Hazelton Group). A grab sample from the vein

assayed 8.26 grams per tonne gold (Assessment Report 12620).

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EMPR BULL 58; 63

EMPR MAP 8

GSC MAP 215A; 315A; 1385A

DATE CODED: 1989/05/24 DATE REVISED: 1989/12/08 CODED BY: PSF REVISED BY: GO FIELD CHECK: N

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 236

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

NORTHING: 6122773 EASTING: 507522

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1347

NAME(S): MT. PRIESTLY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P07W BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 15 05 N LONGITUDE: 128 52 54 W ELEVATION: 1800 Metres LOCATION ACCURACY: Within 5 KM

COMMENTS: Located on Mt. Priestly, approximately 7 kilometres east of Aiyansh (#49 on Fig. 19 Energy, Mines and Petroleum Res. Bulletin 64, 1981).

COMMODITIES: Molybdenum

**MINERALS** 

SIGNIFICANT: Molybdenite

COMMENTS: Molybdenite assumed.

MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Unknown CLASSIFICATION: Unknown TYPE: L05 Pc

Porphyry Mo (Low F- type)

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation Hazelton

Tertiary Coast Plutonic Complex

LITHOLOGY: Granite

Sediment/Sedimentary

**GEOLOGICAL SETTING**TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Plutonic Ŕocks Bowser Lake

**CAPSULE GEOLOGY** 

The Mt. Priestly showing is located to the northeast of the Snafu (103P 232) and Kay (103P 225) showings, somewhere on Mt.

Priestly.

The area is underlain by Upper Jurassic to Cretaceous sedimentary rocks including part of the upper Hazelton Group and possibly the Bowser Lake Group. These sediments are intruded by a granitic stock of the Tertiary Coast Plutonic Complex.

Molybdenum (assumed molybdenite) is reported to occur in the granitic stock, but no other information is available. The showing is probably similar to the porphyry molybdenum showings in the area.

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EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 GSC MAP 1385A GSC OF 3668

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/12 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 236

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 237 NATIONAL MINERAL INVENTORY: 103P12 Cu4

NAME(S): VANGUARD EXTENSION, VANGUARD

STATUS: Showing REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P12E BC MAP: UTM ZONE: 09 (NAD 83)

LATITUDE: 55 43 37 N NORTHING: 6175833 LONGITUDE: 129 33 44 W ELEVATION: 844 Metres EASTING: 464689

LOCATION ACCURACY: Within 500M

COMMENTS: Location of portal of adit (Assessment Report 956, Map 4).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

ALTERATION: Pyrite Sericite Quartz

ALTERATION TYPE: Pyrite
MINERALIZATION AGE: Unknown Silicific'n Sericitic

**DEPOSIT** 

CHARACTER: Disseminated CLASSIFICATION: Hydrothermal

Epigenetic Subvolcanic Cu-Ag-Au (As-Sb) 102 TYPE: LÓ1 Intrusion-related Au pyrrhotite veins

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

**FORMATION** IGNEOUS/METAMORPHIC/OTHER STRATIGRAPHIC AGE GROUP Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

CAPSULE GEOLOGY

The Vanguard Extension showing is located 0.5 kilometres northwest of the West Kitsault River, 28.0 kilometres north-northwest of Alice Arm. A zone of copper mineralization was explored by tunnelling between 1928 and 1931.

The showing occurs at the western margin of a 10.0 kilometre long, northwest trending body of gossanous plagioclase-hornblende porphyritic andesite of the Lower Jurassic Hazelton Group. The andesite, informally called the Copper Belt, has been extensively pyritized and is variably silicified and sericitized along its length.

The showing consists of an undefined zone of pyrite and chalcopyrite in silicified andesite. Tunnelling failed to define the size and attitude of this zone.

**BIBLIOGRAPHY** 

EMPR AR 1927-77; 1928-88; 1929-87; 1931-38; 1934-B17

EMPR ASS RPT \*956, 9400, 19189

EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp.

235-243 EMPR MAP 8 EMPR OF 1986-2

GSC MAP 307A; 315A; 1385A GSC MEM 1975, p. 85 GSC SUM RPT 1928, p. 49A

DATE CODED: 1989/04/30

REVISED BY: PSF FIELD CHECK: N DATE REVISED: FIELD CHECK:

MINFILE NUMBER: 103P 237

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 238

NATIONAL MINERAL INVENTORY: 103P3 Mo

PAGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6099769 EASTING: 497622

REPORT: RGEN0100

1349

 $\label{eq:NAME} \mbox{NAME}(\mbox{S}) : \ \, \underbrace{\mbox{LUCKY}}_{\mbox{LAVA}}, \mbox{TWIN, ALDER CREEK},$ 

STATUS: Showing MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P03E

BC MAP:

LATITUDE: 55 02 41 N LONGITUDE: 129 02 14 W

ELEVATION: 500 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located 1 kilometre west of Lava Lake on the north side of Alder Creek

(Assessment Report 6871).

COMMODITIES: Molybdenum Copper

**MINERALS** 

SIGNIFICANT: Pyrite Molybdenite Chalcopyrite Bornite

ASSOCIATED: Quartz ALTERATION: Chlorite ALTERATION TYPE: Chloritic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Breccia Disseminated

CLASSIFICATION: Porphyry Hydroune
TYPE: L05 Porphyry Mo (Low F- type) Hydrothermal

I 04 Porphyry Cu ± Mo ± Au

SHAPE: Irregular MODIFIER: Fractured Faulted

**HOST ROCK** 

DOMINANT HOSTROCK: Plutonic

STRATIGRAPHIC AGE Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Bowser Lake Undefined Formation

Tertiary Coast Plutonic Complex

LITHOLOGY: Granodiorite Porphyry Dike

Granodiorite Porphyry Sill

Argillite Grevwacke Siltstone

HOSTROCK COMMENTS: Bowser Lake Group is Middle to Upper Jurassic in age. Best mineral-

ization in intrusives near contact.

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Hazelton Ranges

TECTONIC BELT: Coast Crystalline TERRANE: Plutonic Rocks METAMORPHIC TYPE: Contact Bowser Lake RELATIONSHIP: Syn-mineralization GRADE: Hornfels

**CAPSULE GEOLOGY** 

**BIBLIOGRAPHY** 

The Lucky showing is located 1 kilometre west of Lava Lake on the north side of Alder Creek. The showings were discovered in 19 The showings were discovered in 1971 and investigated again in 1978.

The area is underlain by siltstone, argillite and greywacke of the Middle to Upper Jurassic Bowser Lake Group intruded by Early Tertiary granodiorite porphyry dykes and sills of the Coast Plutonic

Complex.

The vicinity of the showings is marked by a gossan formed by the presence of disseminated pyrite in the sediments and intrusives. sediments have been hornfelsed within the contact aureole and the intrusives are locally brecciated. Molybdenite, chalcopyrite and rare bornite occur in coarse grained drusy quartz veins, in hairline fractures with quartz and in gouge zones representative of post-mineralization faulting. The best mineralization occurs within veins in the intrusives near the contact with hornfelsed sedimentary rocks. Quartz banded gangue zones were found to cut earlier veins and dyke contacts.

EMPR ASS RPT \*6871

EMPR GEM \*1971-119

EMPR MAP 8

EMPR FIELDWORK 1988 pp. 233-240; 1990, pp. 235-243

EMPR EXPL 1978-E236

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR BULL 63; 64 GSC MAP 1385A

DATE CODED: 1985/07/24 DATE REVISED: 1989/12/11 CODED BY: GSB REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 238

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 239

NATIONAL MINERAL INVENTORY:

NAME(S): KIT

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Omineca

NTS MAP: 103P08E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1351

LATITUDE: 55 21 29 N NORTHING: 6134934 EASTING: 551211

LONGITUDE: 128 11 32 W ELEVATION: 1700 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Centre of claim block, located 4 kilometres west of Kitwanga Lake

(Assessment Report 7925).

COMMODITIES: Molybdenum

Copper

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Molybdenite Chalcopyrite

ASSOCIATED: Quartz ALTERATION: Silica ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACIEN. Glos.....
CLASSIFICATION: Porphyry
TYPE: L05 Porphyry Mo (Low F- type) CHARACTER: Stockwork Disseminated

MODIFIER: Fractured

DIMENSION: 0200 Metres STRIKE/DIP:

COMMENTS: Stockwork traced for 200 metres along one ridge. Sediments dip north-

west.

HOST ROCK DOMINANT HOSTROCK: Metasedimentary

Triassic-Jurassic Tertiary

STRATIGRAPHIC AGE

**GROUP** Hazelton **FORMATION** Undefined Formation IGNEOUS/METAMORPHIC/OTHER

Unnamed/Unknown Informal

TREND/PLUNGE:

LITHOLOGY: Hornfels

Biotite Feldspar Porphyry

Argillite Greywacke

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Bowser Lake
METAMORPHIC TYPE: Contact

RELATIONSHIP: Syn-mineralization GRADE: Hornfels

CAPSULE GEOLOGY

The Kit showing is located 4 kilometres west of Kitwanga Lake, northwest of Hazelton. The area was investigated for molybdenite mineralization from 1967 to 1979.

The area is underlain by argillite and greywacke of the Lower Jurassic to Upper Triassic Hazelton Group. These dip northwest and have been intruded by Tertiary Coast Plutonic Complex biotite

The biotite feldspar intrusive consists of two phases, one contains pyrite, pyrrhotite and locally chalcopyrite and molybdenite. The argillite and greywacke have been hornfelsed for up to 75 metres from the contact with the mineralized phase. Molybdenite occurs as disseminated small falkes in a quartz vein stockwork hosted by

porphyry and hornfels. This stockwork is present for over 200 metres along one ridge. The veins are 0.2 to 1.0 centimetres wide and molybdenite is concentrated at certain vein intersections. Molybdenite also occurs, locally, disseminated along fractures.

Outcrops containing mineralization are highly silicified and bleaching is sometimes present adjacent to quartz veins.

**BIBLIOGRAPHY** 

EMPR AR 1967-290 EMPR ASS RPT 1036, \*7925

EMPR BULL 63; 64

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

MINFILE NUMBER: 103P 239

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

GSC MAP 1385A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/12/08 REVISED BY: DEJ FIELD CHECK: N

MINFILE NUMBER: 103P 239

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 240

NAME(S): GLACIER GIRL

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P13W BC MAP:

LATITUDE: 55 52 40 N LONGITUDE: 129 52 42 W ELEVATION: 1981 Metres

LOCATION ACCURACY: Within 1 KM

COMMENTS: Center of showings (Minister of Mines Annual Report 1928 p.94).

COMMODITIES: Silver Gold Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Quartz ALTERATION: Quartz ALTERATION TYPE: Silicific'n MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Breccia
CLASSIFICATION: Hydrothermal
TYPE: I02 Intrusi Epigenetic

Intrusion-related Au pyrrhotite veins

DIMENSION: 0300 x 0045 COMMENTS: Silicified zone. Metres STRIKE/DIP:

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **FORMATION GROUP** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Unuk River

LITHOLOGY: Volcanic

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine

COMMENTS: At the western margin of the Stewart Complex (Island Arc Assemblage).

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1928 Assav/analysis

SAMPLE TYPE: Chip

COMMODITY Silver 686.0000 Grams per tonne Gold 13.7000 Grams per tonne 0.2000 Per cent

Copper COMMENTS: A 1.5 metre chip sample.

REFERENCE: Minister of Mines Annual Report 1928, page 94.

CAPSULE GEOLOGY

The Glacier Girl showing is located on the east slope of Mount McLeod, 9.5 kilometres southeast of Stewart. Gossanous bluffs were

GRADE

explored for gold and silver in the late 1920's.

The showing consists of a 45 metre wide, 300 metre long silicified zone containing minor pyrrhotite within Lower Jurassic Unuk River Formation (Hazelton Group) volcanics(?). The zone hosts lenticular fracture zones up to 5.0 metres wide that are intensely mineralized with pyrrhotite.

A 1.5 metre chip sample assayed 13.7 grams per tonne gold, 686 grams per tonne silver and 0.2 per cent copper (Minister of Mines Annual Report 1928, page 94).

**BIBLIOGRAPHY** 

EMPR AR \*1928-94; 1929-94

EMPR FIELDWORK 1983, pp. 149-164; 1984, pp. 316-341; 1985, pp. 93-102; 1988, pp. 233-240; 1990, pp. 235-243

EMPR BULL 58; 63

EMPR MAP 8

GSC MAP 215A; 307A; 315A; 1385A

GSC MEM 175, p. 119

MINFILE NUMBER: 103P 240

PAGE:

NATIONAL MINERAL INVENTORY: 103P13 Ag23

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6192825 EASTING: 445048

TREND/PLUNGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMR MP CORPFILE (Marmot Metals Mining Co. Ltd.)

DATE CODED: 1989/05/14 CODED BY: PSF FIELD CHECK: N REVISED BY: FIELD CHECK: N FIELD CHECK:

MINFILE NUMBER: 103P 240

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 241

NATIONAL MINERAL INVENTORY: 103P5 Cu7

NAME(S): KNOB HILL, CD,CU

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P05W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

1355

LATITUDE: 55 25 07 N

NORTHING: 6141717 EASTING: 445140

LONGITUDE: 129 52 00 W ELEVATION: 0425 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of magnetic high over showing at Station 17 North on line A (Assessment Report 3534, Fig. 2).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrite Pyrrhotite Chalcopyrite

COMMENTS: Disseminated to massive. MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated Vein Massive CLASSIFICATION: Volcanogenic Exhalative TYPE: G04 Besshi massive sulphide Cu-Zn Syngenetic

SHAPE: Tabular

DIMENSION: 150 x 3 Metres STRIKE/DIP: 055/90 TREND/PLUNGE:

COMMENTS: Pyritic zone dimension and attitude. The superimposed foliation

strikes 244 degrees and dips 76 degrees northwest.

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Undefined Formation Middle Jurassic Bowser Lake Undefined Formation

LITHOLOGY: Pillow Basalt

Pyritic Basaltic Lapilli Tuff

Turbidite

HOSTROCK COMMENTS: Bowser Lake Group fossil date reported in Open File 3454 (1997).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine Wrangell

RELATIONSHIP: Post-mineralization METAMORPHIC TYPE: Regional GRADE: Greenschist

COMMENTS: Situated in roof pendant at eastern margin of Coast Plutonic Complex.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1998 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY

Copper Per cent

REFERENCE: D.J. Alldrick, B.C. Geological Survey, 1998.

**CAPSULE GEOLOGY** 

The Knob Hill showing is located about 1.0 kilometre east of Anyox/Falls Creek, about 3.5 kilometres east of Anyox. It has been

evaluated in the past for copper mineralization.

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex.
These pendant rocks have been correlated with Lower to lower Middle Jurassic Bowser Lake Group sedimentary rocks (GSC Open File 3454).

The Hazelton rocks consist of variably chloritized pillow and massive andesite and basalt with minor mafic tuffs. The overlying Bowser Lake sediments consist of argillite, siltstone and sandstone with minor chert and limestone.

There are two observable phases of folding in the area, an initial north-northeast trending phase followed by a later east-northeast trending phase.

The showing is described as a disseminated pyrite zone developed in andesite (Assessment Report 3534). Mineralization of a number of deposits on the CD and CU claims (including Knob Hill) is generalized

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

as being massive to disseminated pyrrhotite containing veinlets and dispersed blebs of chalcopyrite and pyrite (Minister of Mines Annual  $\,$ Report 1967, page 40).

D.J. Alldrick (B.C. Geological Survey Branch) reports that the pyritic unit is a mappable volcanic breccia (regolith) that lies between underlying pillow basalts and overlying turbidites. breccia matrix is composed of fine-grained pyrite and silica and appears to be a pyritic chert or sinter. The unit is 2 to 3 metres thick wherever observed. It has been exposed in a series of old trenches that removed overburden and blasted down into the bedrock. In this area, the contact strikes 055 degrees with a near vertical dip. Breccia clasts are sub-rounded to ovoid and range from 2 to 6 centimetres in length.

Alldrick deems this outcrop exposure significant because it represents a local depositional basin that accumulated and preserved regolith, silica and pyrite along the same horizon that hosts the Hidden Creek (Anyox) orebodies to the north (see MINFILE occurrence 103P 021). Alldrick did not observe copper mineralization at this local and a grab sample he collected yielded only 0.0018 per cent copper.

The area was likely trenched during Cominco's extensive exploration programs in the early 1950s.

### **BIBLIOGRAPHY**

EMPR AR 1967-40 EMPR ASS RPT \*3534, 17396 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 211-216; 1988, pp. 233-240; 1990, pp. 235-243 EMPR GEM 1969-59; 1970-81; 1971-121; 1972-504 EMPR MAP 8 EMPR OF 1999-2 EMPR PF (Alldrick, D. (1986) Anyox Map) GSC MAP 307A; 1385A GSC OF 3454 Chevron File

DATE CODED: 1985/07/24 DATE REVISED: 1999/01/07 CODED BY: GSB REVISED BY: DJA FIELD CHECK: N FIELD CHECK: Y

PAGE:

REPORT: RGEN0100

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Gold

MINFILE NUMBER: 103P 242

NATIONAL MINERAL INVENTORY: 103P5 Cu3

NAME(S): BLUE BELL (L.571), MAPLE BAY

STATUS: Developed Prospect REGIONS: British Columbia NTS MAP: 103P05W 103O08E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1357

LATITUDE: 55 24 38 N

NORTHING: 6140935 EASTING: 436600

MINING DIVISION: Skeena

LONGITUDE: 130 00 05 W ELEVATION: 0536 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Approximate centre of surface trace of Blue Bell vein, 1.46 kilometres southeast of Maple Bay on the east shore of Portland Canal, 55 kilometres south of Stewart, about 12.5 kilometres due west of Anyox

(Assessment Report 5550).

COMMODITIES: Copper Silver

**MINERALS** 

**Pyrite** 

SIGNIFICANT: Chalcopyrite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb)

DIMENSION: STRIKE/DIP: 010/45E TREND/PLUNGE:

COMMENTS: Blue Bell vein.

HOST ROCK

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE <u>GROUP</u> **FORMATION** IGNEOUS/METAMORPHIC/OTHER Lower Jurassic Hazelton Undefined Formation

LITHOLOGY: Greenstone

Chlorite Hornblende Schist

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern) Wrangell TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: STOCKPILE REPORT ON: N

> CATEGORY: YEAR: 1906 Assay/analysis

> SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 178.0000 0.6900 Grams per tonne Gold Grams per tonne

Copper 11.3000 Per cent

COMMENTS: Sample of high-grade sorted ore. REFERENCE: Minister of Mines Annual Review 1906, page 64.

CAPSULE GEOLOGY

The area is underlain by the western margin of a  $14.4\ \mathrm{by}\ 9.6\ \mathrm{kilometre}$  roof pendant within the Juro-Cretaceous Coast Plutonic Complex. These rocks have been correlated with the Lower Jurassic

Complex. These rocks have been correlated with the Lower Jurassic Hazelton Group (Grove, T. 1986) but have also been correlated with the Upper Triassic Kunga Group sediments and Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J. 1980).

The roof pendant in this area comprises a sequence of mafic and intermediate (andesitic-dacitic) volcanics interbedded with felsic tuffs, siltstones, silty argillites and fine-grained sandstones. The sequence strikes 010 to 035 degrees and dips 40 to 85 degrees southeast. The mafic volcanics have been variably foliated and chloritized to greenstone and chlorite-hornblende schist as a result chloritized to greenstone and chlorite-hornblende schist as a result of regional greenschist metamorphism.

The Blue Bell occurrence comprises two veins, the Blue Bell and about 98 to 122 metres to the west, a smaller satellite vein. The Blue Bell vein has been traced along strike for 230 metres and varies from 0.46 to 1.52 metres in width, averaging 0.98 metres. The smaller vein has been traced along strike for 98 metres and varies from 0.30 to 0.91 metres in width. Both veins strike 010 degrees and

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

dip 45 degrees to the east.

Mineralization consists of chalcopyrite and pyrite. High-grade sorted material assayed 11.3 per cent copper, 178 grams per tonne silver and 0.69 grams per tonne gold (Minister of Mines Annual Report 1906). The Blue Bell vein averages 8.44 per cent copper over a length of 180 metres and an average width of 0.98 metres (Assessment
Report 5550).
 A limited amount of stripping, trenching and tunneling failed

to intersect the vein at depth.

## **BIBLIOGRAPHY**

EMPR AR 1904-100; 1905-80; 1906-64; 1918-75 EMPR GEM \*1970-77-81 EMPR ASS RPT 5550

EMPR FIELDWORK 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8 EMPR BULL 63

EMPR BULL 63 EMPR PF (Sargent, H. (1942): Report; Pentland, A.G. (1969): Report) GSC MAP 307A; 315A; 1385A GSC SUM RPT 1922 Part A, pp. 23-25 GSC MEM 175, pp. 100,101

DATE CODED: 1985/07/24 DATE REVISED: 1989/02/22 CODED BY: GSB REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 242

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 243

NATIONAL MINERAL INVENTORY: 103P5 Cu7

MINING DIVISION: Skeena

Besshi massive sulphide Cu-Zn

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TREND/PLUNGE:

UTM ZONE: 09 (NAD 83)

NORTHING: 6145929 EASTING: 447090

PAGE:

REPORT: RGEN0100

1359

NAME(S): <u>**DEADWOOD**</u>, HANNA , CD,CU, EMMA , HOMESTAKE

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P05W

BC MAP:

LATITUDE: 55 27 24 N LONGITUDE: 129 50 12 W

ELEVATION: 0236 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of trenches (Property File - Alldrick, D., Anyox Map 1986).

COMMODITIES: Copper

**MINERALS** 

SIGNIFICANT: Pyrrhotite Chalcopyrite COMMENTS: Disseminations and veinlets.

ASSOCIATED: Quartz COMMENTS: Stringers. ALTERATION: Chloritic
ALTERATION TYPE: Chloritic
MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Stockwork Disseminated CLASSIFICATION: Hydrothermal **Epigenetic** 

TYPE: L01 Subvolcanic Cu-Ag-Au (As-Sb)

DIMENSION: COMMENTS: Main shear zone, dip is approximate.

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

G04

STRIKE/DIP: 018/45W

Jurassic Hazelton Undefined Formation Upper Triassic Vancouver **Undefined Formation** 

LITHOLOGY: Porphyritic Andesite

Greenstone

HOSTROCK COMMENTS: Host rocks are correlative with either the Hazelton Group or the

Karmutsen Formation.

**GEOLOGICAL SETTING** 

ONIC BELT: Coast Crystalline TERRANE: Stikine TECTONIC BELT:

GRADE: Greenschist

METAMORPHIC TYPE: Regional **RELATIONSHIP:** COMMENTS: Situated in the Anyox roof pendant within the Coast Plutonic Complex.

CAPSULE GEOLOGY

The Deadwood showing is located about 4.0 kilometres west of the Hastings Arm of Observatory Inlet, just west of Hidden Creek. It is situated about 580 metres west of the Hanna (103P 152) occurrence.

The region is underlain by a 14.4 by 9.6 kilometre roof pendant

of volcanics and sediments in the Coast Plutonic Complex. These have been correlated with the Lower Jurassic Hazelton Group (Grove, T. 1986) but have also been correlated with the Upper Triassic Kunga Group sediments and the Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J. 1980).

The volcanics consist of mafic flows and tuffs that have been

variably altered to greenstone. The overlying sediments consist of argillite, siltstone and sandstone, with minor chert and limestone. This sequence is deformed by a north-northeast trending phase and a

subsequent east-northeast trending phase of folding.

The showing occurs as a silicified shear zone formed in a porphyritic andesite that has been altered to greenstone. The zone outcrops along a ridge at an elevation of 236 metres on the west side of Hidden Creek and has been traced for 460 metres. At the main showing, it is at least 9 metres wide, but narrows to the north.

strikes 018 degrees and dips approximately 45 degrees west.

A second zone is located east of the main zone at an elevation of 229 metres near the bed of Hidden Creek. It strikes 078 degrees, dips 45 degrees to the west and can be traced for 2.4 metres.

The main shear zone occurs in variably mineralized schistose

greenstone. Mineralization consists of pyrrhotite and minor chalcopyrite. They occur as veinlets in greenstone, as veinlets in

MINFILE NUMBER: 103P 243

# RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### **CAPSULE GEOLOGY**

quartz stringers and as sparse disseminations throughout the zone.

The second zone occurs in a siliceous greenstone containing pyrrhotite and chalcopyrite. The copper mineralization in this zone is more intense than in the main shear zone.

### **BIBLIOGRAPHY**

EMPR AR \*1922-N51,N52; 1927-C68; 1928-C77; 1929-C80; \*1930-A82,A83; 1931-A37; 1967-40

EMPR ASS RPT 10204, 10928, 17396, 23582

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 211-216; 1988, pp. 233-240; 1990, pp. 235-243

EMPR GEM 1969-59; 1971-121; 1972-504

EMPR MAP 8

EMPR PF (\*Alldrick, D. (1986) Anyox Map; Taiga Consultants Ltd. (1992): Geological, Geochemical and Geophysical Report on the Anyox Area in 103P 021)

GSC MAP 1385A

Chevron File

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1989/01/31 REVISED BY: PSF FIELD CHECK: N

MINFILE NUMBER: 103P 243

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REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 244

NATIONAL MINERAL INVENTORY:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6101204 EASTING: 545372

PAGE:

REPORT: RGEN0100

1361

NAME(S): WILSON KETTLE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P01W BC MAP:

LATITUDE: 55 03 20 N LONGITUDE: 128 17 23 W ELEVATION: 325 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Lake in centre of Lot 2618, 1.3 kilometres northwest of the Skeena River, five kilometres northeast of Cedarvale (NTS Map 103P/01).

COMMODITIES: Marl

MINERALS
SIGNIFICANT: Calcite
Ouster MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Unconsolidated CLASSIFICATION: Sedimentary Stratiform

Syngenetic Industrial Min. Bog Fe, Mn, U, Cu, Au

TYPE: B07 Bog F SHAPE: Tabular DIMENSION: 170 x 100 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Flat lying marl deposit in dry lake bed.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Quaternary GROUP Undefined Group **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Marl

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

**CAPSULE GEOLOGY** 

The Wilson Kettle marl occurrence is located 1.3 kilometres north of the Skeena River, 5 kilometres northeast of Cedarville. The deposit underlies a dry lake bed 170 metres long and 100 metres wide within a depression in the surrounding glacial drift measuring 500 by 300 metres. This depression is probably a kettle formed during the last glacial retreat. The marl is white to light grey to brown, at least 0.5 metres thick and is overlain by 0.5 metres of dark brown to black wet peat in the middle of the northeast end of the deposit. A sample analyzed as follows in per cent (Geological Fieldwork 1989, page 496): CaO 42.68, MgO 0.86, SiO2 8.12, Al2O3 1.80, Fe2O3 0.48, MnO 0.03, TiO2 0.05, Na2O 0.55, K2O 0.11, P2O5 0.05, Sulphur 0.38, L.O.I. 45.34.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 233-240; \*1989, pp. 493-499; 1990, pp.

235-243 EMPR MAP 8 GSC MEM 212

GSC MAP 307A; 1385A

DATE CODED: 1991/03/29 CODED BY: PSF REVISED BY: FIELD CHECK: N DATE REVISED: //

MINFILE NUMBER: 103P 244

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 245

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6101950 EASTING: 545790

REPORT: RGEN0100

1362

NAME(S): **GEE KIDD**, LIME LAKE

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P01W BC MAP:

LATITUDE: 55 03 44 N

LONGITUDE: 128 16 59 W ELEVATION: 340 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Located 1.5 kilometres northwest of the Skeena River, 6 kilometres northeast of Cedarville (Geological Fieldwork 1989, page 495).

COMMODITIES: Marl

MINERALS
SIGNIFICANT: Calcite
Ouster MINERALIZATION AGE: Quaternary

DEPOSIT

CHARACTER: Unconsolidated Stra CLASSIFICATION: Sedimentary Synthesis B07 Bog Fe, Mn, U, Cu, Au Stratiform

Syngenetic Industrial Min.

TYPE: B07 Bog For SHAPE: Tabular
DIMENSION: 230 x 110 STRIKE/DIP: TREND/PLUNGE: Metres

COMMENTS: Flat lying marl deposit in lake.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

GROUP Undefined Group STRATIGRAPHIC AGE Quaternary **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

LITHOLOGY: Marl

GEOLOGICAL SETTING
TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Hazelton Ranges

TERRANE: Bowser Lake

**CAPSULE GEOLOGY** 

The Gee Kidd marl occurrence is situated 1.5 kilometres northwest of the Skeena River, 6 kilometres northeast of Cerdarville. The deposit rests on a 1000 by 250 metre bench blanketed with glacial drift more than a metre in thickness that overlies sediments of the Juro-Cretaceous Bowser Lake Group. The marl has accumulated in a lake measuring 230 by 110 metres. A beaver dam at the lakes outlet has substantially raised the level of the lake making the marl

difficult to sample. The deposit was staked in 1936.

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1988, pp. 233-240; \*1989, pp. 493-499; 1990, pp.

235-243 EMPR MAP 8 GSC MEM 212

GSC MAP 307A; 1385A

FIELD CHECK: N DATE CODED: 1991/03/29 CODED BY: PSF REVISED BY: FIELD CHECK: N DATE REVISED: //

MINFILE NUMBER: 103P 245

### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 246

NATIONAL MINERAL INVENTORY: 103P6 Pb6

NAME(S): **THEDA BARA NICKEL** 

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P06W

MINING DIVISION: Skeena UTM ZONE: 09 (NAD 83)

BC MAP: LATITUDE: 55 23 38 N

NORTHING: 6138730 EASTING: 469509

PAGE:

REPORT: RGEN0100

1363

LONGITUDE: 129 28 53 W **ELEVATION:** Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of vein containing pyrrhotite lens (Property File - Marshall Creek Copper, 1967, Plate 2).

COMMODITIES: Nickel Silver

**MINERALS** 

SIGNIFICANT: Pyrrhotite ASSOCIATED: Quartz MINERALIZATION AGE: Unknown

**DEPOSIT** 

CHARACTER: Vein Massive CLASSIFICATION: Hydrothermal TYPE: I05 Polym thermal Epigenetic Polymetallic veins Ag-Pb-Zn±Au

DIMENSION: 1 STRIKE/DIP: 030/ TREND/PLUNGE: Metres

COMMENTS: The quartz vein is 1.2 to 1.5 metres wide.

HOST ROCK

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE GROUP Spatsizi **FORMATION** IGNEOUS/METAMORPHIC/OTHER Middle Jurassic Undefined Formation

LITHOLOGY: Argillite

Gabbroic Dike Dioritic Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine PHYSIOGRAPHIC AREA: Boundary Ranges

Bowser Lake

COMMENTS: Situated in Bowser Lake foredeep clastic wedge on Stikinia Terrane.

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: Assay SAMPLE TYPE: Grab YEAR: 1927 Assay/analysis

**GRADE** COMMODITY

0.2500 Per cent Nickel COMMENTS: Sample of quartz vein containing massive pyrrhotite lens. Another

sample assayed 51 grams per tonne silver.

REFERENCE: Minister of Mines Annual Report 1927, page 70.

CAPSULE GEOLOGY

The Theda Bara Nickel showing is located about 9.5 kilometres due south of Alice Arm near the headwaters of Roundy Creek. The area was investigated for base and precious metals during the 1920's and again during the 1960's. This showing is 204 metres south of the Theda Bara base-metal vein showing (103P 157).

The region is underlain by Coast Plutonic rocks intruding Middle Jurassic Spatsizi Group argillite, shale, siltstone, greywacke and conglomerate. The sediments have been folded and altered to biotite hornfels.

A 1.2 to 1.5 metre wide quartz vein, 240 metres to the south of the adits, lies along a dioritic/gabbroic dike and strikes 030 degrees. The vein contains a near massive lens of pyrrhotite. Samples are reported to assay trace gold, 51 grams per tonne silver (Minister of Mines Annual Report 1924, p. 51) and trace gold and silver 0.25 per cent nickel (Minister of Mines Annual Report 1927) silver, 0.25 per cent nickel (Minister of Mines Annual Report 1927, p. 70).

**BIBLIOGRAPHY** 

EM ASS RPT 20570 EMPR AR 1923-54; \*1924-51,52; \*1927-70; 1964-24-30; 1966-50; 1968-65 EMPR BULL 63

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR FIELDWORK 1985, pp. 219-224; 1988, pp. 233-240; 1990, pp. 235-243 235-243
EMPR MAP 8
EMPR OF 1986-2
EMPR PF (in 103P 157 - Marshall Creek Copper Co. Ltd. Annual Reports 1965; \*Marshall Creek Copper, Geology Map, 1967)
EMR MP CORPFILE (Marshall Creek Copper Co. Ltd.)
GSC MAP 307A; 315A; 1385A
GSC MEM 175, p. 82

DATE CODED: 1989/02/26 DATE REVISED: 1993/12/31 CODED BY: PSF REVISED BY: DEJ FIELD CHECK: N FIELD CHECK: N

MINFILE NUMBER: 103P 246

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 247

NATIONAL MINERAL INVENTORY:

PAGE:

REPORT: RGEN0100

1365

NAME(S): **ASHWOOD**, TAT, HAMMER LAKE, CAMP LAKE, OUTRAM LAKE

STATUS: Prospect MINING DIVISION: Skeena

REGIONS: British Columbia NTS MAP: 103P12W UTM ZONE: 09 (NAD 83)

BC MAP:

LATITUDE: 55 44 36 N LONGITUDE: 129 54 07 W NORTHING: 6177882 EASTING: 443376

ELEVATION: 1600 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone 2 kilometres northeast of Outram Lake and just west

of Sutton Glacier, about 21 kilometres south of the community of

Stewart (Assessment Report 23217).

COMMODITIES: Copper Gold Silver Zinc I ead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Galena Chalcopyrite MINERALIZATION AGE:

DEPOSIT

**Podiform** Massive

CHARACTER: Disseminated CLASSIFICATION: Volcanogenic

**HOST ROCK** DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Unnamed/Unknown Formation Hazelton Triassic Stuhini Unnamed/Unknown Formation

LITHOLOGY: Greywacke Siltstone Argillite Ash Tuff

Lapilli Tuff Andesitic Dacitic Agglomerate Feldspar Porphyry Flow Volcanic Conglomerate Volcanic Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1993 Assay/analysis

SAMPLE TYPE: Grab

COMMODITY Silver **GRADE** 65.4000 Grams per tonne 0.4000 Gold Grams per tonne

Copper 0.1000 Per cent Lead 0.8800 Per cent Zinc 1.6900 Per cent

REFERENCE: Assessment Report 23217, page 18.

siliceous siltstone.

**CAPSULE GEOLOGY** 

The Ashwood property is underlain by interbedded volcanics and sediments of the undifferentiated Upper Triassic-Middle Jurassic Hazelton and Stuhini groups. Andesite, diorite and quartz feldspar porphyry dikes intrude the volcano-sedimentary sequence.

The volcanic rocks consist of ash tuff, lapilli tuff and andesitic to dacitic agglomerate. Volcanic conglomerate and breccias occur locally. Feldspar porphyry flows were also observed. Sediments consist of dark grey to black, foliated argillite and

A number of significant fault structures have tilted the

lithologies and probably caused some offset.

The predominant style of mineralization in the Tat zone consists of disseminations, lenses or possibly beds of semi-massive polymetallic sulphides consisting of pyrite, sphalerite with minor

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

galena and chalcopyrite. The mineralization generally occurs parallel to bedding in a greywacke-siltstone-argillite sequence. Individual lenses of mineralization vary from 30 to 40 centimetres wide and trend along strike for up to 5 metres. Several of the lenses can occur across stratigraphic intervals of several metres. The N zone (103P 248) has similar style mineralization and is

located 2 kilometres north.

A grab sample of mineralization at the Tat zone analysed 0.10 per cent copper, 1.69 per cent zinc, 0.88 per cent lead, 0.4 gram per tonne gold and 65.4 grams per tonne silver (Assessment Report 23217, page 18).

Three new areas of gold mineralization were discovered in 1994 and have been named the Outram Lake area, Hammer Lake area and Camp Lake area (Assessment Report 23689)

At Outram Lake the mineralization appears to be controlled by a northeast trending brittle fault that varies between 2 and 7 metres wide. Mineralization within the fault zone is hosted in isolated blocks or lenses of strongly altered rocks. Values up to 3.95 grams per tonne gold and 2.77 per cent arsenic in grab samples were obtained from the fault zone. Alteration consists of strong s Alteration consists of strong silica flooding, pervasive sercitization and minor clay development.

Mineralization at Camp Lake, located 500 metres northeast of the Outram Lake zone, is controlled by small, brittle-ductile faults less than 2 metres wide. Values up to 1.45 grams per tonne gold were obtained from grab samples. Gold values appear to be intimately related to arsenopyrite mineralization.

Mineralization in the Hammer Lake area, located 1500 metres northeast of the Outram Lake zone, is associated with a north-trending fault intruded by a quartz feldspar porphyry dike and reaches widths up to 15 metres. Gold mineralization is associated with very poorly defined zones of sericite+quartz+carbonate alteration. Values up to 4.05 grams per tonne were obtained from grab samples within the fault zone.

### **BIBLIOGRAPHY**

EMPR ASS RPT 20024, 20347, 20800, 20806, 20813, \*23217, \*23689, 24914 EMPR BULL 63 EMPR MAP 8 EMPR PF (\*Aquaterre Mineral Developments Ltd., Prospectus, February 24, 1997, pp. 47-71 (in Georgia River file - 1030 013)) GSC MAP 307A; 315A; 1385A GSC OF 2996

DATE CODED: 1994/12/06 CODED BY: GO FIELD CHECK: N DATE REVISED: 1994/12/06 REVISED BY: GO FIELD CHECK: N

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 248

NATIONAL MINERAL INVENTORY:

PAGE:

NORTHING: 6179751

EASTING: 442355

REPORT: RGEN0100

1367

NAME(S): **N**, ASHWOOD, DICKIE, 1100 ZONE, RIDGE, TERMINATOR,

**BROWN** 

STATUS: Prospect REGIONS: British Columbia MINING DIVISION: Skeena

NTS MAP: 103P13W UTM ZONE: 09 (NAD 83) BC MAP:

LATITUDE: 55 45 36 N

LONGITUDE: 129 55 07 W ELEVATION: 3700 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Mineralized zone on the easterly slopes of Mount Brown, west of

Sutton Glacier, about 19 kilometres south of the community of Stewart (Assessment Report 23217).

COMMODITIES: Copper Gold Silver 7inc Lead

**MINERALS** 

SIGNIFICANT: Pyrite Sphalerite Chalcopyrite Galena

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated **Podiform** Massive

CLASSIFICATION: Volcanogenic

**HOST ROCK** DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE Triassic-Jurassic IGNEOUS/METAMORPHIC/OTHER **FORMATION** 

Unnamed/Unknown Formation Hazelton Unnamed/Unknown Formation Triassic Stuhini

LITHOLOGY: Greywacke

Siltstone Argillite Ash Tuff Lapilli Tuff

Andesitic Dacitic Agglomerate Feldspar Porphyry Flow

Volcanic Conglomerate Volcanic Breccia

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges TERRANE: Stikine

METAMORPHIC TYPE: Regional **RELATIONSHIP:** GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YEAR: 1993 Assay/analysis

SAMPLE TYPE: Grab

**GRADE** COMMODITY Silver 6.2000 Grams per tonne

Gold 0.2900 Grams per tonne Copper 0.1700 Per cent Zinc 4.1300 Per cent

REFERENCE: Assessment Report 23217, page 18.

**CAPSULE GEOLOGY** 

The N occurrence is underlain by interbedded volcanics and sediments of the undifferentiated Upper Triassic-Middle Jurassic Hazelton and Stuhini groups. Andesite, diorite and quartz feldspar porphyry dikes intrude the volcano-sedimentary sequence.

The volcanic rocks consist of ash tuff, lapilli tuff and andesitic to dacitic agglomerate. Volcanic conglomerate and breccias occur locally. Feldspar porphyry flows were also observed. Sediments consist of dark grey to black, foliated argillite and

siliceous siltstone. A number of significant fault structures have tilted the

lithologies and probably caused some offset.

The predominant style of mineralization in the Tat zone consists of disseminations, lenses or possibly beds of semi-massive

polymetallic sulphides consisting of pyrite, sphalerite with minor

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

### CAPSULE GEOLOGY

galena and chalcopyrite. The mineralization generally occurs parallel to bedding in a greywacke-siltstone-argillite sequence. Individual lenses of mineralization vary from 30 to 40 centimetres wide and trend along strike for up to 5 metres. Several of the lenses can occur across stratigraphic intervals of several metres. The Tat zone (103P 247) has similar style mineralization and is located 2 kilometres south.

A grab sample of mineralization at the N zone analysed 0.17 per cent copper, 4.13 per cent zinc, 0.29 gram per tonne gold and 6.2 grams per tonne silver (Assessment Report 23217, page 18).
Work in 1993 and 1994 outlined the 1100, Ridge and Dickie zones.

The Dickie zone is 350 metres west of the N zone, the 1100 zone is 750 metres west-southwest of the N zone, and the Ridge zone is 1250 metres west-southwest of the N zone. A series of parallel faults can be traced over 800 metres from the 1100 zone to the Ridge zone. Rock sampling from the Ridge zone yielded up to 1.87 grams per tonne gold and 104 grams per tonne silver over narrow widths. Diamond drilling on the 1100 zone intersected up to 0.4 gram per tonne gold over 1.52 metres (Assessment Report 23689).

The Ridge zone is a large, gossanous area approximately 150 by 150 metres. The protolith consists of intermediate tuffs, flows and flow breccia. The Ridge zone appears to be a 'shatter' zone of randomly oriented fractures situated in an area of numerous 030 degree trending brittle faults. The faults tend to be very narrow (less than 2 metres) but wider zones of closely-spaced fractures are associated with the faulting. Mineralization is concentrated along fractures and is composed of pyrite, pyrrhotite, arsenopyrite and minor sphalerite and galena. Massive sulphide 'lenses' within the fractures have been mapped and appear to have very limited extent (less than 5 metres) and are typically very narrow (less than 20 centimetres)

The 1100 zone mineralization is possibly very similar to that at the Ridge zone. Drillholes intersected sections of strong alteration with pyrite and pyrrhotite.

The Dickie zone is characterized by massive to semimassive, bedding-parallel lenses and ribbons of pyrite within intermediate tuffs and tuff breccia. The sulphide lenses are typically very small (10 centimetres by 1 metre) and can be traced for over 200 metres. Surface grab samples yielded up to 0.22 gram per tonne gold.

### **BIBLIOGRAPHY**

EMPR ASS RPT 20024, 20347, 20800, 20806, 20813, \*23217, \*23689, 24914 EMPR BULL 63 EMPR MAP 8 EMPR PF (\*Aquaterre Mineral Developments Ltd., Prospectus, February 24, 1997, pp. 47-71 (in Georgia River file - 1030 013)) GSC MAP 307A; 315A; 1385A GSC OF 2996 WWW http://www.infomine.com/

DATE CODED: 1994/12/06 DATE REVISED: 1994/12/06 CODED BY: GO REVISED BY: GO FIELD CHECK: N

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Copper

MINFILE NUMBER: 103P 249

NATIONAL MINERAL INVENTORY:

NAME(S): RED 32,34

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P13E BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1369

NORTHING: 6198621 **EASTING: 460778** 

LATITUDE: 55 55 53 N LONGITUDE: 129 37 40 W ELEVATION: 1905 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Sample locations about 22 kilometres east of the community of Stewart

Silver

(Assessment Report 23886).

COMMODITIES: Gold

MINERALS
SIGNIFICANT: Pyrite ASSOCIATED: Quartz

Chalcopyrite **Bornite** 

ALTERATION: Sericite
ALTERATION TYPE: Sericitic

Calcite Carbonate

MINERALIZATION AGE:

Carbonate

**DEPOSIT** 

CHARACTER: Vein CLASSIFICATION: Hydrothermal TYPE: I01 Au-qui Stockwork Epigenetic

DIMENSION:

Au-quartz veins

Metres

STRIKE/DIP: TREND/PLUNGE: /

HOST ROCK

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Unknown

<u>GROUP</u>

Unnamed/Unknown Group

**FORMATION** Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

LITHOLOGY: Volcanic Tuff

Volcanic Flow

Hornblende Porphyry Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane

TERRANE: Stikine

Bowser Lake

PHYSIOGRAPHIC AREA: Boundary Ranges

### **CAPSULE GEOLOGY**

On the Red 32,34 claims, numerous quartz/calcite veins, stringers and stockwork zones are present in platy volcanic tuffs and flows exposed over a roughly 300 by 200 metre area. Sericite altered volcanics form narrow envelopes to the quartz systems. Veining varies from a few centimetres up to 2 metres in width and is generally barren of mineralization. Coarse pyrite occurs as seams, pods and lenses in the quartz, usually in sparse amounts. The veins have two direction patterns: the majority trend 350 degrees while some trend at 280-290 degrees. Dips are variable from 45 to 85 degrees to the south and southeast. The veins pinch and swell over short distances but show continuity over great lengths. Rock samples of the vein mineralization analysed up to 21.6 grams per tonne gold (Assessment Report 23886).

About 300 metres to the west of the quartz veins, chalcopyrite and bornite mineralization occurs in two different locations. The first location consists of blebs of mineralization associated with carbonate alteration along the contact with two hornblende porphyry dikes. The zone is exposed over a strike length of 35 metres and a width of 20 metres. Intrusions consist of dark grey to black, fine grained hornblende-bearing dikes, generally 2-3 metres in thickness. The second occurrence consists of stringers and seams of bornite and chalcopyrite in a poorly exposed quartz/calcite vein. The vein is 1 metre wide, trends 044 degrees and exposed over a strike length of 5 metres. Rock samples analysed up to 7.9 per cent copper and 253.6 grams per tonne silver (Assessment Report 23886).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*23886 EMPR BULL 63 GSC MAP 307A; 1385A

DATE CODED: 1985/07/24 CODED BY: GSB FIELD CHECK: N DATE REVISED: 1995/12/11 REVISED BY: GO FIELD CHECK: N

MINFILE NUMBER: 103P 249

# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 250

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6197679

EASTING: 470421

REPORT: RGEN0100

1370

NAME(S): KONKIN SILVER

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P14W BC MAP:

LATITUDE: 55 55 25 N LONGITUDE: 129 28 24 W ELEVATION: Metres LOCATION ACCURACY: Within 1 KM COMMENTS:

COMMODITIES: Silver 7inc Lead

**MINERALS** 

SIGNIFICANT: Galena ASSOCIATED: Carbonate Sphalerite Silver Ruby Silver Quartz

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Podiform Shear

CLASSIFICATION: Replacement

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation Lower Jurassic Hazelton

LITHOLOGY: Volcaniclastic

Flow

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane TERRANE: Stikine

### CAPSULE GEOLOGY

Lower Jurassic Hazelton Group volcanic and volcaniclastic rocks underlie much of the Cambria Icefield area and host Lac Minerals' Red Mountain (103P 086). They occur with similar Triassic and older rocks in a structural culmination outlined by the contact between competent flesic and mafic volcanic rocks of uppermost Hazelton Group and overlying, relatively incompetent late Lower Jurassic and younger westerly derived clastic rocks. The newly recognized mafic-felsic association in upper Hazelton Group has significant exploration and tectonic implications. Plutonic styles suggest the age and exploration potential of plutons be reconsidered. Genesis of the Red Mountain deposit has yet to be firmly established, but the main mineralizing event predated regional deformational events, implying significant stratigraphic control and potential in the area mapped,

and areas nearby, for similar deposits.

Property geology and interalization, carbonate alteration extends over considerable distances in rocks that appear to have been originally maroon volcaniclastics and flows. These altered zones host lenses and pods of predominantly calcite, siderite and quartz. Several zones located carried appreciable amounts of lead and zinc values associated with silver.

The largest zone identified was labelled the Konkin Silver zone, consisting of carbonate, quartz, barite, galena, minor sphalerite and rare ruby and native silver in a bow-shaped occurrence spanning 35 metres. Galena is the primary sulfide and occurs as fine coatings on fractures, as coarse crystalline blebs and as disseminated grains. Maximum thickness of the feature appears to be inexcess of 10 metres. The ovccurrence weathers a pale grey colour with up to 1 centimetre rectangular barite crystals forming radiating clusters up to 4--5centimetres across. These crystals form raised features in the more recessive carbonate.

The second zone occurs approximately 100 metres to the south of the first zone and consists of a linear feature 2 metres in width and 15 metres in length. Minor streaks of galena and sphalerite occur in the second zone. In addition, narrow shear zones with associated sericite and massive pyrite stringers are present in the vicinity of the silver-bearing area. The shears appear to be 10-20 centimetres in width, strike at 220 degrees and contain 10-15 per cent pyrite

MINFILE NUMBER: 103P 250

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**BIBLIOGRAPHY** 

EMPR AR 1951-A76-107 EMPR Explore BC 1995-96 Program Report GSC OF 2931 GSC P 1994-A, p. 45 WWW http://www.infomine.com/

DATE CODED: 1996/08/16 DATE REVISED: 1997/04/04 CODED BY: DJA REVISED BY: LJ FIELD CHECK: N

MINFILE NUMBER: 103P 250

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 251

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6184089

EASTING: 451695

REPORT: RGEN0100

1372

NAME(S): **CLONE**, RED, C-2, H-1, PORT, C-1,

S-2A, MAIN

STATUS: Prospect REGIONS: Alice Arm, British Columbia

NTS MAP: 103P13W

BC MAP: LATITUDE: 55 48 00 N LONGITUDE: 129 46 14 W

ELEVATION: 1375 Metres LOCATION ACCURACY: Within 500M

COMMENTS: The Clone property is located 16 kilometres southeast of Stewart.

COMMODITIES: Gold Silver Copper Cobalt

**MINERALS** 

SIGNIFICANT: Specularite **Pyrite** Chalcopyrite Magnetite Gold Arsenopyrite Erythrite Glaucodot ALTERATION: Hematité Chlórite Sericite Malachite

MINERALIZATION AGE:

ISOTOPIC AGE: 200.4 +/- 1.3 Ma DATING METHOD: Uranium/Lead MATERIAL DATED: Titanite

**DEPOSIT** 

CHARACTER: Shear Stockwork Vein Breccia

CLASSIFICATION: Hydrothermal Epigenetic

TYPF: 101 Au-quartz veins VEIN, BRECCIA AND STOCKWORK

COMMENTS: A hornblende granodiorite sill that cuts altered rocks near the main shear/veins. EM Fieldwork 2001, pp. 135-149.

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Triassic-Jurassic **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation Hazelton

LITHOLOGY: Breccia

Lapilli Tuff Andesite

Andesitic Pyroclastic Araillite

Dacite Porphyry Dike

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges

TERRANE: Stikine Bowser Lake

INVENTORY

ORE ZONE: DRILLHOLE REPORT ON: N

> CATEGORY: YEAR: 1996 Assav/analysis SAMPLE TYPE: Drill Core

COMMODITY Gold

Grams per tonne 0.3100

Cobalt Per cent

COMMENTS: From a 5.0 metre interval. REFERENCE: GCNL #192(Oct.6), 1997.

**CAPSULE GEOLOGY** 

The Clone prospect is located about 20 kilometres southeast of Stewart, at the southern end of the Cambria Icefield.

Disseminated native gold and minor amounts of chalcopyrite, galena, pyrite and erythrite are hosted by shear-controlled veins and stockworks.

In 1995, with Explore B.C. Program support, Teuton Resources Corporation carried out an integrated grassroots program of prospecting, geological, geochemical and geophysical surveys, trenching and diamond drilling, mostly concentrated on the southwest corner of the large Red property covering the periphery of the southwest Cambria Icefield. This work led to a significant gold discovery on the Clone 1 claim, resulting in an immediate option by Homestake Canada Inc. Teuton Resources Corporation and Minvita Enterprises Ltd. have entered into an agreement with Homestake Canada Inc. and Prime Resources Group Inc. on the Clone property.

During 1995, 5.1 line kilometres of magnetic and electromagnetic

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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#### CAPSULE GEOLOGY

surveys, 513.8 metres of trenching and 1070 metres of diamond drilling in 13 holes (testing both sulphide-rich and hematite-rich mineralization) were completed and 1542 rock samples were collected and assayed (Explore B.C. Program 95/96 - G165). In 1996, the property was explored by 1312.8 metres of trenching in 141 trenches, ground geophysics and 11,487.1 metres of drilling in 113 holes.

Two types of mineralization have been identified along a strike distance of 1.25 kilometres associated with major northwesterly trending (320 degrees) shear zones (both ductile and brittle styles of deformation; i) hematite-cemented, chlorite +/- silica-rich breccia; and ii) semi to massive sulphide stringer pods/zones. In addition, numerous splays are horsetailed off fault structures.

To date, drilling has tested about a 400 metre strike length of this system; the deepest mineralization section being to 200 metres. The rest of the systems are being sampled by hand-blasted trenches and (planned) drilling. Although some good, high-grade intersections are being reported, it appears the companies are having difficulty correlating between holes (i.e. mineralization is 'dilational' in nature and may require detailed (e.g. 25 metre centre) drilling to define individual ore shoots). Nonetheless, it appears that the Clone property is indeed a significant gold discovery, with very good potential to develop into a major gold mine. The hematite (+chlorite + silica +/- sericite) cemented zones are steeply dipping and contain specularite, chalcopyrite, magnetite and native gold (high purity > 95 per cent, as determined in the Cominco laboratory). The sulphide-dominated mineralization contains auriferous pyrite +/- arsenopyrite, and locally cobalt-bearing minerals(s) (erythrite bloom). Hematitazation appears to be pre-introduction of gold; the specularite-bearing veinlets formed later and contain gold. These zones (H1, H2, and H3; S1 and S2) are en echelon over a major NW trending 'shear' zone for approximately 60 metres in width.

Hostrocks include a mega-breccia (debris flow?) and andesitic

Hostrocks include a mega-breccia (debris flow?) and andesitic pyroclastic rocks to the east and argillaceous sediments to the west. Locally, a fine grained dacite porphyry dike intrudes both the hostrocks and the mineralized zones. In H structures, gold mineralization appears to be directly related to the presence of hematite and/or specularite in the hematite-cemented structures. Individual veins range up to 7 metres in width. Chalcopyrite is commonly associated with the gold-bearing zones. In the sulphide-bearing zones, veins range up to 6 metres in width. Cobalt assays up to 0.71 per cent were reported from trenches. The company is looking at a possible 'elevation' control to dilational-controlled mineralization, with a corresponding increase in sulphides. Chlorite is present throughout. This 'elevation' control is suspected in drillhole 96-18 where a 30 metre intersection assaying 12.34 grams per tonne gold was obtained. The company routinely stains the rocks for K-spar alteration; it appears that it is an initial (early), very pervasive phase in the altered andesitic rocks (and confirmed by thin section studies).

In 1996, drilling traced the hematite-rich H-1 structure over a strike length of 330 metres and a vertical range of 236 metres. A total of 28 holes were drilled on the southeastern end of the zone. The holes intersected rock with grades ranging from 2.85 to 44.23 grams per tonne gold over drill intercepts of 2.2 to 50.9 metres. Estimated true width is 36 metres. Cobalt values were as high as 0.13 per cent. Seven hole returned no significant mineralization.

The northern extensions of the H-1 and S-2A were tested by 12 holes. Results ranged from 4.1 metres grading 1.13 grams per tonne gold and 0.06 per cent cobalt (hole 66) to 0.49 metres of 30.51 grams per tonne gold (hole 65) (Northern Miner, November 11, 1996). Other zones were also tested. Another intersection (hole 18) was 61.7 grams per tonne gold and 0.31 per cent cobalt over 5 metres (GCNI, #192(Oct 6), 1997).

(GCNL #192(Oct.6), 1997).

As a result of a 17-hole drill program in 1997, Tenton Resources Corp. and Minvita Enterprises Ltd., conclude that cross structures to the sulphide and hematite shear zones control gold-cobalt mineralization.

The mineralization will predate this 200~Ma date. Given the high closure date for titanite (650 C) and upper crust emplacement of the sill, the date is also the age of crystallization.

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GSC MAP 307A; 1385A

GCNL #174(Sept.10), #179(Sept.17), #192(Oct.6), 1997

N MINER \*Nov. 11, 1996

PERS COMM (E. Kruchowski, Teuton Resources Corp., Cordilleran Roundup 1997 Talk)

PR REL Teuton Resources Corp., August 29, 2002

WWW http://www.teuton.com/stewart.htm/#clone; http://www.infomine.com/

CODED BY: DEJ REVISED BY: GP DATE CODED: 1996/11/27 DATE REVISED: 1997/03/25 FIELD CHECK: Y

MINFILE NUMBER: 103P 251

PAGE:

REPORT: RGEN0100

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 252

NAME(S): RESERVE

STATUS: Past Producer REGIONS: British Columbia NTS MAP: 103P05W BC MAP: LATITUDE: 55 24 54 N LONGITUDE: 129 47 38 W ELEVATION: Metres

LOCATION ACCURACY: Within 500M COMMENTS:

COMMODITIES:

**MINERALS** 

SIGNIFICANT: MINERALIZATION AGE:

DEPOSIT

CHARACTER: CLASSIFICATION:

HOST ROCK

DOMINANT HOSTROCK:

LITHOLOGY:

**GEOLOGICAL SETTING** 

TECTONIC BELT: TERRANE:

**BIBLIOGRAPHY** 

DATE CODED: 1997/04/07 DATE REVISED: //

CODED BY: DA REVISED BY:

NATIONAL MINERAL INVENTORY:

Underground MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

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NORTHING: 6141260 EASTING: 449742

FIELD CHECK: Y

FIELD CHECK: N

MINFILE NUMBER: 103P 252

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 253

NATIONAL MINERAL INVENTORY:

NAME(S): **APLITE** 

STATUS: Showing REGIONS: British Columbia

MINING DIVISION: Skeena

NTS MAP: 103P05W BC MAP:

UTM ZONE: 09 (NAD 83)

PAGE:

REPORT: RGEN0100

1376

LATITUDE: 55 25 58 N LONGITUDE: 129 53 45 W

NORTHING: 6143317 EASTING: 443314

ELEVATION: 550 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of sulphide-bearing zone. This deposit description is based on the field notes of B.C. Geological Survey Branch geologist

D.J Alldrick.

COMMODITIES: Copper

Gold

Silver

Zinc

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Chalcopyrite

Sphalerite

Pyrrhotite

**DEPOSIT** 

MINERALIZATION AGE:

Shear

Disseminated

Discordant

CHARACTER: Vein CLASSIFICATION: Hydrothermal TYPE: 106

Epigenetic Cu±Ag quartz veins

SHAPE: Tabular

STRIKE/DIP: 064/67N

TREND/PLUNGE:

DIMENSION:

40 x

Metres COMMENTS: Quartz and sulphide mineralized shear zone. Highest sulphide content

hosted by narrow quartz veins (163/83 degrees east dip) that cross-cut the main zone which has attitude of 064/67 degrees north.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GRO**UP **FORMATION** 

IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Middle Jurassic

Hazelton Bowser Lake

DATING METHOD: Fossil MATERIAL DATED: Ammonites

Unnamed/Unknown Formation Unnamed/Unknown Formation

LITHOLOGY: Pillow Basalt

Aplite Dike

HOSTROCK COMMENTS: Bowser Lake fossil date reported in Open File 3454 (1997).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine METAMORPHIC TYPE: Regional

Plutonic Rocks RELATIONSHIP: Pre-mineralization

GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE

REPORT ON: N

CATEGORY: Assay SAMPLE TYPE: Grab

Assay/analysis

YEAR: 1998

COMMODITY

**GRADE** 

Grams per tonne

Silver Gold

33.0000 0.4470

Grams per tonne

Copper

3.2000 0.0900

Per cent Per cent

REFERENCE: D.J. Alldrick, B.C. Geological Survey, 1998.

**CAPSULE GEOLOGY** 

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex. These pendant rocks have been correlated with Lower to lower Middle Jurassic Hazelton Group rocks and overlying upper Middle to Upper Jurassic Bowser Lake Group sedimentary rocks (GSC Open File 3454).

The Hazelton rocks consist of variably chloritized pillow and massive andesite and basalt with minor mafic tuffs. The overlying Bowser Lake sediments consist of argillite, siltstone and sandstone with minor chert and limestone.

There are two observable phases of folding in the area, an initial north-northeast trending phase followed by a later east-northeast trending phase.

The Aplite showing is a sulphide-rich silicified zone, trending

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#### CAPSULE GEOLOGY

along a minor scarp face, with an attitude similar to that of a nearby aplite dike. The host rocks are massive to pillowed basalt flows of the upper Hazelton Group. The flow banded, Tertiary aplite dike occurs as a prominent outcrop about 200 metres to the east-southeast.

Where minor, late cross-fractures cut this silicified, sulphide-bearing shear, late sulphide-rich quartz veins have developed, having a maximum width of 20 centimetres. Observed sulphides include pyrite, chalcopyrite, sphalerite and pyrrhotite. A grab sample was collected from one of the crosscutting veins. It yielded 3.2 per cent copper, 0.447 grams per tonne gold, 33 grams per tonne silver, 0.09 per cent zinc, 0.0014 per cent lead and 9.5 per cent iron (D.J. Alldrick, B.C. Geological Survey Branch, unpublished data, 1998).

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CODED BY: DA REVISED BY: DJA DATE CODED: 1997/04/07 DATE REVISED: 1999/01/06 FIELD CHECK: Y

MINFILE NUMBER: 103P 253

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### MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 254

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6142866

**EASTING: 444768** 

REPORT: RGEN0100

1378

NAME(S): RAINY

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P05W BC MAP:

LATITUDE: 55 25 44 N LONGITUDE: 129 52 22 W ELEVATION: 490 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Location of exposed mineralization along the southern and eastern slopes of a prominent rock knob. This deposit description is based

on the field notes of B.C. Geological Survey Branch geologist D.J Alldrick.

COMMODITIES: Zinc. Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Sphalerite Chalcopyrite Pyrrhotite

ALTERATION: Sericite ALTERATION TYPE: Sericitic

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein Shear Disseminated Discordant

CLASSIFICATION: Hydrothermal Epigenetic

TYPE: 106 Cu±Ag quartz veins

SHAPE: Tabular DIMENSION: 80 x Х 10 Metres

STRIKE/DIP: 053/65N TREND/PLUNGE:

COMMENTS: Attitude and dimension of mineralized zone.

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP **FORMATION** IGNEOUS/METAMORPHIC/OTHER

Lower Jurassic Hazelton Unnamed/Unknown Formation Middle Jurassic Bowser Lake Unnamed/Unknown Formation

DATING METHOD: Fossil MATERIAL DATED: Ammonites LITHOLOGY: Pillow Basalt

HOSTROCK COMMENTS: Bowser Lake fossil date reported in Open File 3454 (1997).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

TERRANE: Stikine Plutonic Rocks

METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Greenschist

INVENTORY

REPORT ON: N ORE ZONE: SAMPLE

> CATEGORY: Assay/analysis SAMPLE TYPE: Grab YEAR: 1998

COMMODITY **GRADE** Copper 0.0119 Per cent Zinc. 0.2238 Per cent

COMMENTS: Sample collected from a narrow quartz-pyrite-sphalerite-chalcopyrite

vein exposed in an old trench.
REFERENCE: D.J. Alldrick, B.C. Geological Survey, 1998.

**CAPSULE GEOLOGY** 

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex. These pendant rocks have been correlated with Lower to lower Middle Jurassic Hazelton Group rocks and overlying upper Middle to Upper Jurassic Bowser Lake Group sedimentary rocks (GSC Open File 3454). The Hazelton rocks consist of variably chloritized pillow and

massive andesite and basalt with minor mafic tuffs. The overlying Bowser Lake sediments consist of argillite, siltstone and sandstone with minor chert and limestone.

There are two observable phases of folding in the area, an initial north-northeast trending phase followed by a later east-northeast trending phase.

The Rainy showing is a 10-metre wide mineralized shear zone that

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### CAPSULE GEOLOGY

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is exposed in a series of pits and cliffs on the southern, southeastern and eastern slopes of a small prominent hill in the area. The remains of an old prospecting/exploration camp probably date back to regional exploration programs of the early 1950s.

The general trend of the mineralized shear is southwest-northeast; measured orientations have an average strike of 053 degrees with a 65 degree northwest dip. The hostrocks are massive to slightly stretched pillow basalts. However, in the area of mineralized shear (within 20 metres) the pillows are more elongate and stretched along the prominent foliation direction. The shear zone averages 10 metres in width and is characterized by strong sericitization and lesser pyrite. There is a large flat area downslope to the northeast with well-exposed bedrock that shows no evidence of the extension of the mineralized shear. This suggests

The most significant sulphide mineralization is exposed in a trench on the south side of the hill, 30 metres east-northeast of a small pond. Here a narrow (10-15 centimetre wide) quartz vein with pyrite, sphalerite, pyrrhotite and traces of chalcopyrite is localized within the wider shear zone. This material was sampled for assay and yielded 0.2238 per cent zinc, 0.0119 per cent copper, 0.0003 per cent lead, 0.003 gram per tonne gold and 0.3 gram per tonne silver (D.J. Alldrick, B.C. Geological Survey, unpublished data, 1998).

that it may be cut off to the east by a fault.

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GSC MAP 307A; 1385A

GSC OF 3454

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DATE CODED: 1997/04/07 CODED BY: DA FIELD CHECK: Y DATE REVISED: 1999/01/06 REVISED BY: DJA FIELD CHECK: Y

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REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 255

NATIONAL MINERAL INVENTORY:

NAME(S): LOOKOUT, KNOB HILL

STATUS: Showing REGIONS: British Columbia NTS MAP: 103P05W BC MAP:

UTM ZONE: 09 (NAD 83)

MINING DIVISION: Skeena

PAGE:

REPORT: RGEN0100

1380

LATITUDE: 55 25 42 N LONGITUDE: 129 52 57 W ELEVATION: 535 Metres

NORTHING: 6142812 EASTING: 444152

LOCATION ACCURACY: Within 500M

COMMENTS: Location of mineralization along ridge top near spot height 535 metres (1:20,000 TRIM map). This deposit description is based on the field notes of B.C. Geological Survey Branch geologist D.J Alldrick.

COMMODITIES: Iron

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Disseminated

CLASSIFICATION: Volcanogenic Exhalative Syngenetic

Cyprus massive sulphide Cu (Zn)

TYPE: G05 SHAPE: Tabular

STRIKE/DIP: 100/75N 2 DIMENSION: 100 x Metres TREND/PLUNGE:

COMMENTS: This showing consists of disseminated pyrite in a fragmental volcanic unit, bounded by unmineralized pillow lavas. This may represent the

distal equivalent of an ore-bearing horizon.

HOST ROCK DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE **GROUP FORMATION** IGNEOUS/METAMORPHIC/OTHER

Hazelton Lower Jurassic Middle Jurassic Bowser Lake DATING METHOD: Fossil

Unnamed/Unknown Formation Unnamed/Unknown Formation

MATERIAL DATED: Ammonites

LITHOLOGY: Pillow Basalt

Basaltic Pyritic Lapilli Tuff

HOSTROCK COMMENTS: Bowser Lake fossil date reported in Open File 3454 (1997).

**GEOLOGICAL SETTING** 

PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Plutonic Rocks

TECTONIC BELT: Coast Crystalline
TERRANE: Stikine
METAMORPHIC TYPE: Regional RELATIONSHIP: Pre-mineralization GRADE: Greenschist

CAPSULE GEOLOGY

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex. These pendant rocks have been correlated with Lower to lower Middle Jurassic Hazelton Group rocks and overlying upper Middle to Upper Jurassic Bowser Lake Group sedimentary rocks (GSC Open File 3454). The Hazelton rocks consist of variably chloritized pillow and massive basalt with minor mafic tuffs. The overlying Bowser Lake sediments consist of siltstone and sandstone with minor chert and limestone.

There are two observable phases of folding in the area, an

initial north-northeast trending phase followed by a later

east-northeast trending phase.

The large flat hilltop location of the Lookout occurrence has well-exposed bedrock; soil and gravel cover appears to have been stripped away decades ago. There is no indication of major trenching work.

Exposed strata are massive pillow lavas on the south part of the hilltop, and pyritic lapilli-rich tuff along the western part of the hilltop, including the highest spine of the hilltop. The string of pyritic outcrop knobs trends 100 degrees and dips 75 degrees north. Pyritic outcrop exposures extend for 100 metres along strike to the west of the spot height (535 metres) where they are cut off to the west by a prominent fault (deep gully). There are a set of prominent fine-grained quartz veins cutting across this pyritic rock with an attitude of strike 073 degrees and 55 degrees north dip. Overall, this pyritic zone resembles a distinct stratigraphic unit that has

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**CAPSULE GEOLOGY** 

been subsequently sheared and cut by minor quartz veins.

The pyritic zone is 1 to 2 metres thick over its entire exposed strike length of 100 metres. This pyritic fragmental unit may

represent the distal equivalent/extension of a mineralized horizon.

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EMR MIN BULL MR 223 B.C. 298 GSC MAP 307A; 1385A

GSC MAP 307A, 1505A GSC OF 3454 Sharp, R.J., 1980: The Geology, Geochemistry & Sulphur Isotopes of The Anyox Massive Sulphide Deposits, University of Alberta, M.Sc.

DATE CODED: 1997/04/07 DATE REVISED: 1999/01/06 CODED BY: DA REVISED BY: DJA FIELD CHECK: Y

MINFILE NUMBER: 103P 255

PAGE:

REPORT: RGEN0100

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 256

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6146282

EASTING: 443598

REPORT: RGEN0100

1382

NAME(S): **SNYDER** 

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P05W BC MAP:

LATITUDE: 55 27 34 N

LONGITUDE: 129 53 31 W ELEVATION: 1615 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of vein. This deposit description is based on the field notes of B.C. Geological Survey Branch geologist D.J Alldrick.

COMMODITIES: Gold

**MINERALS** 

SIGNIFICANT: Pyrite Marcasite

COMMENTS: Vein locally contains up to 60 per cent blebs or knots of fine-grained

ASSOCIATED: Quartz Carbo Carbonate

MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein

CLASSIFICATION: Hydrothermal **Epigenetic** 

Au-quartz veins

TYPE: 101 SHAPE: Tabular

COMMENTS: A narrow (30 centimetres wide) vertical vein exposed in a string of

outcrops over 50 metres.

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE Lower Jurassic GROUP Hazelton **FORMATION** IGNEOUS/METAMORPHIC/OTHER Unnamed/Unknown Formation

Middle Jurassic **Bowser Lake** 

DATING METHOD: Fossil MATERIAL DATED: Ammonites

LITHOLOGY: Pillow Basalt

HOSTROCK COMMENTS: Bowser Lake fossil date reported in Open File 3454 (1997).

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Unnamed/Unknown Formation

TERRANE: Stikine METAMORPHIC TYPE: Regional Plutonic Rocks RELATIONSHIP: Pre-mineralization GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> CATEGORY: YFAR: 1998 Assay/analysis

SAMPLE TYPE: Grab COMMODITY

**GRADE** Grams per tonne

REFERENCE: D.J. Alldrick, B.C. Geological Survey, 1998.

**CAPSULE GEOLOGY** 

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex. These pendant rocks have been correlated with Lower to lower Middle Jurassic Hazelton Group rocks and overlying upper Middle to Upper Jurassic Bowser Lake Group sedimentary rocks (GSC Open File 3454). The Hazelton rocks consist of variably chloritized pillow and massive basalt with minor mafic tuffs. The overlying Bowser Lake sediments consist of siltstone and sandstone with minor chert and limestone.

The Snyder showing a is massive quartz-carbonate vein exposed in scattered outcrop over a 50 metre strike length. The vein dips stattered outcoop over a 50 metric strike length. The verificity steeply and averages 30 centimetres in width. Over a small section of its total length, this vein contains up to 60 per cent fine pyrite and marcasite as scattered, blebs or knots within the quartz. The host rock is pillow basalt.

A sample of the material yielded 0.064 gram per tonne gold, 81 ppm copper, 30 ppm zinc, 30 ppm lead and 0.6 gram per tonne silver (D.J. Alldrick, B.C. Geological Survey, unpublished data, 1998).

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RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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EMR MIN BULL MR 223 B.C. 298
GSC MAP 307A; 1385A
GSC OF 3454
Sharp, R.J., 1980: The Geology, Geochemistry & Sulphur Isotopes of
The Anyox Massive Sulphide Deposits, University of Alberta, M.Sc.

Thesis

DATE CODED: 1997/04/07 DATE REVISED: 1999/01/06 CODED BY: DA REVISED BY: DJA FIELD CHECK: Y

MINFILE NUMBER: 103P 256

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# MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

Open Pit

MINFILE NUMBER: 103P 257

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6140942

EASTING: 447892

TREND/PLUNGE:

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1384

NAME(S): **ANYOX SLAG HEAP** 

STATUS: Producer REGIONS: British Columbia

NTS MAP: 103P05W BC MAP:

LATITUDE: 55 24 43 N 129 49 23 W LONGITUDE: ELEVATION: 005 Metres

LOCATION ACCURACY: Within 500M

COMMENTS: Large fan of slag that slopes downhill from the foot of the smelter on the ridge, down into the waters of Granby Bay. This deposit description is based on the field notes of B.C. Geological Survey

Branch geologist D.J Alldrick.

Glass

COMMODITIES: Slag

Silica

**MINERALS** 

SIGNIFICANT: Silica MINERALIZATION AGE:

DEPOSIT

Stratiform Concordant

CHARACTER: Unconsolidated CLASSIFICATION: Industrial Min. TYPE: T01 SHAPE: Tabular Tailings

SHAPE:

DIMENSION: 700 x 500 x 50 STRIKE/DIP: 015/10E Metres

COMMENTS: A flat-lying lens of glassy slag (now devitrified). The slag heap was formed between 1914 to 1936 during the smelting of the Hidden Valley

(Anyox) mine ore.

**HOST ROCK** 

DOMINANT HOSTROCK: Sedimentary

STRATIGRAPHIC AGE **GRO**UP

Lower Jurassic Hazelton Middle Jurassic Bowser Lake DATING METHOD: Fossil

MATERIAL DATED: Ammonites

LITHOLOGY: Silica Pillow Basalt

HOSTROCK COMMENTS: Recent flat-lying surfical slag deposit.

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

**FORMATION** 

Unnamed/Unknown Formation

Unnamed/Unknown Formation

TERRANE: Stikine

Plutonic Rocks

INVENTORY

ORE ZONE: QUARRY REPORT ON: Y

> CATEGORY: YEAR: 1998 Unclassified

QUANTITY: 20000000 Tonnes

**GRADE** COMMODITY Per cent Silica 100.0000

COMMENTS: This is a conservative estimate of the quantity of material in the slag heap. The grade or purity of the silica is not known. REFERENCE: D.J Allrick, B.C. Geological Survey, 1998

CAPSULE GEOLOGY

The region is underlain by a roof pendant, consisting of volcanic and sedimentary rocks, within the Coast Plutonic Complex. These pendant rocks have been correlated with Lower to lower Middle Jurassic Hazelton Group rocks and overlying upper Middle to Upper Jurassic Bowser Lake Group sedimentary rocks (GSC Open File 3454). The Hazelton rocks consist of variably chloritized pillow and massive basalt with minor mafic tuffs. The overlying Bowser Lake sediments consist of siltstone and sandstone with minor chert and limestone.

The slag pile at the Anyox Smelter was originally a single massive sloping slab of glass which resulted from the smelting of the Hidden Creek (Anyox) deposit (103P 021) ore. Sixty years of weathering has devitrified this material into sharply angular coarse to fine glass splinters. The high content of impurities in the silica flux have created a slag with a hardness significantly lower than quartz. This characteristic, combined with the highly angular

MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

#### **CAPSULE GEOLOGY**

RUN DATE: 26-Jun-2003

RUN TIME: 12:06:33

shape of the glass shards, makes the screened, sorted fine abrasive ideal in an abrasive slurry for sand-blasting.

The angular particle shape strips old paint or other oxidized surface coatings better than rounded sand grains; yet the lower particle hardness removes less underlying metal than conventional quartz sand.

The primary user for this abrasive is the U.S. military. The abrasive was used for the regularly scheduled stripping and repainting of the special sonar-absorbing coating applied to the hulls of the U.S nuclear submarine fleet stationed in Puget Sound. The quarring permit was first issued to Tru-Grit Abrasives in

The quarring permit was first issued to Tru-Grit Abrasives in July 1990. Primary production season was over the summer months, but extended well into the spring and fall. The quarry was still active in 1998. D.J. Alldrick of the B.C. Geological Survey gives a conservative estimate of 20 million tonnes of slag (1998).

#### **BIBLIOGRAPHY**

EMPR BULL 63

EMPR FIELDWORK 1985, pp. 211-216; 1988, pp. 233-240; 1990, pp. 235-243

EMPR MAP 8

EMR MIN BULL MR 223 B.C. 298

GSC MAP 307A; 1385A

GSC OF 3454

Placer Dome File

DATE CODED: 1997/04/07 CODED BY: DA FIELD CHECK: Y DATE REVISED: 1999/01/06 REVISED BY: DJA FIELD CHECK: Y

MINFILE NUMBER: 103P 257

PAGE:

REPORT: RGEN0100

## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 258

NATIONAL MINERAL INVENTORY:

NAME(S): **SAX**, MAC, CLASH

STATUS: Prospect REGIONS: British Columbia NTS MAP: 103P05W BC MAP:

UTM ZONE: 09 (NAD 83)

LATITUDE: 55 26 00 N NORTHING: 6143376 EASTING: 443579

MINING DIVISION: Skeena

PAGE:

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1386

LONGITUDE: 129 53 30 W ELEVATION: 450 Metres LOCATION ACCURACY: Within 500M

COMMENTS: Location of Sax showing from Assessment Report 23582.

COMMODITIES: Copper Silver 7inc

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Pyrrhotite Chalcopyrite Sphalerite Chlorite

ALTERATION: Chlorite ALTERATION TYPE: Chloritic MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Disseminated Vein
CLASSIFICATION: Volcanogenic Exhalative
TYPE: I05 Polymetallic veins Ag-Pb-Zn±Au Shear

G05 Cyprus massive sulphide Cu (Zn)

**HOST ROCK** 

DOMINANT HOSTROCK: Metavolcanic

**FORMATION** STRATIGRAPHIC AGE **GROUP** IGNEOUS/METAMORPHIC/OTHER

Jurassic Hazelton Undefined Formation

Upper Triassic Vancouver Karmutsen

LITHOLOGY: Chlorite Schist

**Biotite Schist** Quartzite Basaltic Tuff Chlorite Pillow Basalt

Chert Andesite

**GEOLOGICAL SETTING** 

TECTONIC BELT: Coast Crystalline TERRANE: Stikine PHYSIOGRAPHIC AREA: Fiord Ranges (Northern)

Wrangell RELATIONSHIP: METAMORPHIC TYPE: Regional GRADE: Greenschist

INVENTORY

ORE ZONE: SAMPLE REPORT ON: N

> YFAR: 1994 Assay/analysis

CATEGORY: Assa SAMPLE TYPE: Chip **GRADE** 

COMMODITY Silver 91.0000 Grams per tonne Copper Per cent 5.5000 Per cent Zinc 0.4600

REFERENCE: Assessment Report 23582.

CAPSULE GEOLOGY

The Sax showing is located 2.5 kilometres north of the Double

Ed (103P 025).

The region is underlain by a sequence of volcanics and sediments which have been correlated with the Jurassic Hazelton Group, but have also been correlated with the Upper Triassic Kunga Group sediments and the Karmutsen Formation (Vancouver Group) volcanics (Sharp, R.J. (1980), M.Sc. Thesis).

The volcanics consist of massive and pillow andesitic to basaltic flows with minor mafic tuff. These have been altered and chloritized to greenstone as a result of regional greenschist metamorphism. The overlying sediments consist of argillite, siltstone, sandstone, minor limestone and chert. These rocks have been subjected to an initial north-northeast trending phase of folding followed by a later east-northeast trending phase.

Mineralization, consisting of disseminated pyrite, pyrrhotite, chalcopyrite and sphalerite, occurs in chloritized pillow basalts, basaltic pyroclastics and minor pelitic to siliceous sediments. At RUN DATE: 26-Jun-2003 MINFILE MASTER REPORT RUN TIME: 12:06:33

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

**CAPSULE GEOLOGY** 

the Sax showing, over 1 per cent copper occurs in a 1-metre wide bed (Report by Taiga Consultants Ltd., 1992). Followup sampling in 1994 of stringer type copper mineralization in the area returned values up to 5.5 per cent copper, 0.46 per cent zinc and 91 grams per tonne silver (Assessment Report 23582).

**BIBLIOGRAPHY** 

EMPR ASS RPT \*23582 EMPR FIELDWORK 1985, pp. 211-216; 1988, pp. 233-240; 1990, pp. 235-243 EMPR PF (Taiga Consultants Ltd. (1992): Geological, Geochemical and Geophysical Report on the Anyox Property in 103P 021) GSC MAP 307A; 1385A GSC OF 3454
Sharp, R.J. (1980): The Geology, Geochemistry & Sulphur Isotopes of the Anyox Massive Sulphide Deposits, University of Alberta M.Sc. Thesis

DATE CODED: 1998/06/12 DATE REVISED: 1998/06/12 CODED BY: LDJ REVISED BY: LDJ FIELD CHECK: N

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## MINFILE MASTER REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 259

NATIONAL MINERAL INVENTORY:

PAGE:

MINING DIVISION: Skeena

UTM ZONE: 09 (NAD 83)

NORTHING: 6164040 EASTING: 466553

IGNEOUS/METAMORPHIC/OTHER

REPORT: RGEN0100

1388

NAME(S): KITGOLD

STATUS: Showing REGIONS: British Columbia

NTS MAP: 103P12E BC MAP:

LATITUDE: 55 37 16 N LONGITUDE: 129 31 52 W ELEVATION: 1200 Metres

LOCATION ACCURACY: Within 500M

COMMENTS:

COMMODITIES: Gold Zinc Lead Copper

**MINERALS** 

SIGNIFICANT: Pyrite ASSOCIATED: Quartz Sphalerite Pyrite Limonite

e Chalcopyrite

Arsenopyrite

ALTERATION: Sericite Limonite

ALTERATION TYPE: Sericitic Oxidation MINERALIZATION AGE:

**DEPOSIT** 

CHARACTER: Vein Stockwork
CLASSIFICATION: Epigenetic Hydrothermal

**HOST ROCK** 

DOMINANT HOSTROCK: Volcanic

STRATIGRAPHIC AGE GROUP

Middle Jurassic Hazelton Upper Triassic Stuhini <u>FORMATION</u>

Unnamed/Unknown Formation

**Undefined Formation** 

LITHOLOGY: Intermediate Volcanic Flow

Andesitic Lapilli Tuff Tuff Breccia

Siltstone
Porphyritic Flow
Amygdaloidal Flow
Sandstone

**GEOLOGICAL SETTING** 

TECTONIC BELT: Intermontane PHYSIOGRAPHIC AREA: Boundary Ranges
TERRANE: Stikine

METAMORPHIC TYPE: Regional RELATIONSHIP: GRADE: Greenschist

**INVENTORY** 

ORE ZONE: SAMPLE REPORT ON: N

CATEGORY: Assay/analysis YEAR: 1991

SAMPLE TYPE: Grab

COMMODITY GRADE

Gold 8.6400 Grams per tonne

COMMENTS: A 20-centimetre wide brecciated quartz vein in intermediate

blocky tuff.

REFERENCE: Assessment Report 21173.

**CAPSULE GEOLOGY** 

The Kitgold occurrence is located 16.1 kilomtres north of Alice Arm, 2.6 kilometres east of the Kitsault River and 1.9 kilometres south of Lyall Creek at approximately 1200 metres elevation. The region is underlain by an assemblage of volcanic and sedimentary rocks comprising the Upper Triassic Stuhini Group, the Lower-Middle Jurassic Hazelton Group and the Middle-Upper Jurassic Bowser Lake Group.

The Kitgold occurrence is underlain by fine to medium-grained interbedded andesitic lapilli tuff to tuff breccia with intercalated maroon porphyritic and amygdaloidal volcanic rocks, sandstone and siltstone that form a northwest-southeasterly trending anticline. Pillowed basaltic flows, conglomerates and pillow breccia, with small lenses of interbedded siltstones and limestone, lie in the core of the anticline and form a northwest-southeasterly striking band 0.5 kilometre to 1.5 kilometres wide through the centre of the area. Approximately 800 metres to the east of the main anticline, a less prominent sub-parallel syncline occurs.

Faults and shears within the area are predominantly oriented

MINFILE MASTER REPORT

RUN DATE: 26-Jun-2003 RUN TIME: 12:06:33 GEOLOGICAL SURVEY BRANCH **ENERGY AND MINERALS DIVISION** 

#### CAPSULE GEOLOGY

north-south to northeast-southwest. A series of fine to medium-grained sub-volcanic dykes, of intermediate composition, up to 10 metres wide generally trend northwest-southeast parallel to sub-parallel with the fold axis and stratigraphy.

Quartz veining is concentrated along a north-south trending linear zone, 10 to 30 metres wide and 1000 metres long. Veins within the zone may be up to 2 metres thick and several hundred metres in length. These large veins also give rise to ubiquitous veinlets and stringers between individual veins. Cross cutting relationships indicate at least three phases of emplacement, resulting in a high degree of brecciation and slicification associated with a well developed elaborate stockwork. Sericitic and limonitic alteration exists but is localized and weakly developed. The veining occurs within a massive intermediate volcanic flow. Sulphide mineralization occurs mostly as pyrite, up to 20 per cent in veins, and associated wall rock contacts. Raassociated with pyrite. Rare arsenopyrite and/or chalcopyrite is

Rock samples taken from the hanging wall of the main quartz vein system, on the eastern side of the property, in the vicinity of the syncline, yielded 5 samples that assayed greater than 3.4 grams per tonne gold. The main quartz vein system did not yield any significant values (Assessment Report 21173). Approximately 750 metres to the west, an old trench exposes a brecciated quartz vein system hosted within interbedded tuff and siltstone. The quartz vein, which parallels bedding (022 degrees strike and 60 degrees east dip), contains up to 25 per cent reddish brown sphalerite.

Approximately 2 kilometres to the southwest a sample taken of from an ankeritic quartz vein cutting andesite assayed 0.62 gram per tonne gold, 0.27 per cent lead and 0.07 per cent zinc (Assessment Report 21173).

#### **BIBLIOGRAPHY**

EM ASS RPT \*21173 EMPR BULL 63 EMPR FIELDWORK 1985, pp. 219-224, 327-330; 1988, pp. 233-240; 1990, pp. 235-243 EMPR OF 1994-14; 1986-2 GSC MAP 307A; 315A; 1385A GSC MEM 175 GCNL No. 169(Sept.3), 1991; 168(Aug.3), 1991

DATE CODED: 2000/06/29 DATE REVISED: / /

CODED BY: IW REVISED BY:

MINFILE NUMBER: 103P 259

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FIELD CHECK: N

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RUN DATE: 26-Jun-2003 RUN TIME: 26-Jun-2003

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	R: <u>103A 001</u> NAME:		LAREDO	LIMESTONE	STATUS: Past Producer		
Production <u>Year</u>		Tonnes Mined	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1952		10,886	10,886		Limestone		10,886,216
SUMMARY TOTALS: 103A 001			NAME:	LAREDO	LIMESTONE		
			<u>Metric</u>		<u>Imperial</u>		
Recovery:	Mined Milled			tonnes tonnes	12,000 12,000		
Necovery.	Limestone:		10,886,216	kilograms	23,999,991	pounds	

MINFILE NUMBER: 103A 001

# MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103A 007 NAME: PRINCESS ROYAL ISLAND STATUS: Past Producer Production **Tonnes Kilograms Tonnes** Grams Recovered <u>Mined</u> Milled Commodity <u>Year</u> Recovered 1922 1,609 Limestone 1,608,878 1921 644 644,101 Limestone 1919 2,286 2,286,105 Limestone **SUMMARY TOTALS: 103A 007** NAME: PRINCESS ROYAL ISLAND **Metric Imperial** Mined: 4,539 tonnes 5,003 tons Milled: tonnes tons Recovery: 4,539,084 kilograms 10,006,964 pounds Limestone:

MINFILE NUMBER: 103A 007

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 103B 012 NAME: ELLEN STATUS: Past Producer Kilograms Production **Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> Milled Recovered 1919 45 Gold 560 SUMMARY TOTALS: 103B 012 NAME: ELLEN **Metric** <u>Imperial</u> Mined: Milled: 45 tonnes 50 tons tonnes tons Recovery: Gold: 560 grams 18 ounces

MINFILE NUMBER: 103B 012

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	103B 022		NAME:	EAST COR	PPER ISLAND		STATUS:	Past Producer
Production <u>Year</u>		onnes <u>Mined</u>	Tonnes <u>Milled</u>	Commodity		Grams <u>Recovered</u>		Kilograms Recovered
1917		35			Silver Copper	715		4,865
1916		15			Copper			2,268
SUMMARY TOTALS: 103B 022			NAME:	EAST COR	PPER ISLAND			
			<u>Metric</u>		<u>Imperial</u>			
Recovery:	Mined: Milled:		50	tonnes tonnes	55	tons tons		
Necovery.	Silver: Copper:		715 7,133	grams kilograms		ounces pounds		
Comments:	1916:	Operated by	y J. Babington & J	ones.				

1918:

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103B 023		NAME:	<b>GIGGER</b>		STA	TUS: Past Producer
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms Recovered
1918		11			Copper		964
1917	•	14			Copper		1,361
SUMMARY TOTAL	SUMMARY TOTALS: 103B 023		NAME:	GIGGER			
			Metric		<u>Imperial</u>		
D	Mined: Milled:		25	tonnes tonnes	28	tons tons	
Recovery:	Copper:		2,325	kilograms	5,126	pounds	
Comments:							

Operated by Campbell & Wilds.

MINFILE NUMBER: 103B 023

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103B 024		NAME:	LUCKY SEVEN	<u>1</u>		STATUS: Past Producer
Production <u>Year</u>	7	onnes Tonnes <u>Mined</u> <u>Milled</u>		Commodity	Grams <u>Recovered</u>		
1916		38			Silver Gold Copper	6,780 1,866	
SUMMARY TOTALS	: 103B 024		NAME:	LUCKY SEVEN	1		
			<u>Metric</u>		<u>Imperial</u>		
Pogovoru:	Mined: Milled:		38	tonnes tonnes	42	tons tons	
Recovery:	Silver: Gold: Copper:		1,866	grams grams kilograms	60	ounces ounces pounds	
Comments:	1916:	Operated by A	A.H. Knowlton.	J	·	•	

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1962:

# MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: NAME: STATUS: Past Producer 103B 026 **JESSIE Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 95,546 106,386 1968 Iron 102,139,000 1967 790,474 842,241 Iron 379,069,000 1966 783,171 806,742 Iron 485,516,000 1965 757,709 744,699 Iron 358,739,000 1964 629,502 630,602 Iron 389,399,000 1963 657,049 657,049 Iron 307,543,000 1962 150,983 150,983 48,548,000 Iron SUMMARY TOTALS: 103B 026 NAME: **JESSIE** Metric <u>Imperial</u> 3,864,434 tonnes 4.259.809 tons Mined: Milled: 3,938,702 tonnes 4,341,676 tons Recovery: Iron: 2,070,953,000 kilograms 4,565,668,545 pounds Comments: BC Metal figures. BC Metal figures. 1968: 1967: 1966: Includes ore from Rose (103B 029). BC Metal figures. 1965: BC Metal figures. 1964: Includes ore from Adonis (103B 027). BC Metal figures. 1963: BC Metal figures.

BC Metal figures. Operated by Jedway Iron Ore Ltd.

MINFILE NUMBER: 103B 026

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1906:

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: NAME: **LILY** STATUS: Past Producer 103B 028 **Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 9,486 128 1920 128 Silver 840 Gold Copper 9.565 1919 137 137 Silver 22,456 Gold 1,586 Copper 17,685 1918 191 191 Silver 24,727 Gold 1,804 Copper 28,546 1917 907 907 Silver 55,737 Gold 4,759 Copper 69.346 61,491 4,199 1916 962 962 Silver Gold Copper 60,030 1915 322 322 47,556 Silver Gold 3,141 Copper 51,160 131,130 8,118 1909 3,865 3,865 Silver Gold Copper 60,491 1908 6,285 6,285 Silver 437,899 Gold 21,554 Copper 222,195 1907 609 609 Silver 71,257 Gold 5,132 Copper 54,423 809 1906 4 4 Silver Gold 62 Copper 614 SUMMARY TOTALS: 103B 028 NAME: LILY <u>Imperial</u> Metric 13,410 tonnes 14,782 tons Mined: 14,782 tons Milled: 13,410 tonnes Recovery: 862,548 grams Silver: 27,732 ounces 1,646 ounces 1,265,574 pounds 51,195 grams 574,055 kilograms Gold: Copper: Comments: 1915: Operated by Ikeda Mines Ltd.

Operated by Awaya, Ikeda & Co., Limited.

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1916:

# MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 044 NAME: WIRELESS STATUS: Past Producer Production Tonnes **Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1917 10 Silver 218 373 Gold Copper 225 156 62 1916 5 Silver Gold Copper 136 SUMMARY TOTALS: 103B 044 NAME: WIRELESS Metric **Imperial** Mined: 15 tonnes 17 tons Milled: tonnes tons Recovery: 12 ounces 14 ounces 796 pounds 374 grams Silver: Gold: Copper: 435 grams 361 kilograms Comments: Operated by P.C. Daykin & J. Westerman. Operated by P.C. Daykin. 1917:

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103B 045 NAME: OCEANIC STATUS: Past Producer Production Tonnes **Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1913 14 Silver 218 534 Copper SUMMARY TOTALS: 103B 045 NAME: OCEANIC **Metric Imperial** Mined: 14 tonnes 15 tons Milled: tonnes tons Recovery: 218 grams 534 kilograms Silver: 7 ounces Copper: 1,177 pounds Comments:

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# MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103C 001 NAME: EARLY BIRD STATUS: Past Producer **Production Kilograms Tonnes Tonnes** Grams Milled Commodity Recovered <u>Year</u> <u>Mined</u> Recovered 1939 Silver 311 14 14 3,950 Gold 91 778 1933 91 Silver 1,648 Gold 1922 5 5 Gold 653 1917 2 2 Gold 249 31 871 1915 5 5 Silver Gold 36 1914 36 Gold 622 124 746 18 1913 11 Silver Gold 1908 9 900 9 Gold 1859 Gold 7,530 SUMMARY TOTALS: 103C 001 NAME: **EARLY BIRD** <u>Metric</u> <u>Imperial</u> Mined: 180 tonnes 198 tons Milled: 173 tonnes 191 tons Recovery: 1,244 grams 17,169 grams 40 ounces 552 ounces Silver: Gold: Comments: Operated by Anne Kidd.
Operated by Gold Harbour Mines Ltd.
Operated by J. McLellan.
Nuba Mining Company, Limited; based on \$/ton yield.
Major W. Downie; based on \$ recovered; possibly more. 1939: 1933:

1913:

1908: 1859:

MINFILE NUMBER: 103C 001

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RUN DATE: 26-Jun-2003 RUN TIME: 26-Jun-2003

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103C 003	NAME:	TASU	_	STATUS: Past Producer
Production <u>Year</u>	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>	Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1984			Iron		95,888,000
1983	906,563	906,563	Silver Gold	3,363,880 79,768	
			Copper Iron	70,700	3,782,281
1982	1,108,162	1,108,162	Silver	2,538,293	442,406,000
	, ,	, ,	Gold Copper	67,184	3,029,558
	4 004 000	4 004 000	Iron	0.040.000	695,690,000
1981	1,031,909	1,031,909	Silver Gold	2,346,969 62,207	
			Copper Iron		2,394,377 533,313,000
1980	996,422	996,422	Silver	2,206,506	,
			Gold Copper	51,694	2,225,590
1979	1 000 247	1 000 247	Îron	2 520 716	581,637,000
1979	1,009,247	1,009,247	Silver Gold	3,529,716 92,159	0.004.500
			Copper Iron		3,861,563 589,642,000
1978	889,933	889,933	Silver Gold	1,198,647 28,397	
			Copper	20,397	1,175,609
1977	1,020,886	1,020,886	Iron Silver	2,509,149	554,414,000
1011	1,020,000	1,020,000	Gold Copper	56,515	2,304,298
			Íron		384,309,000
1976	1,572,524	1,572,524	Silver Gold	2,406,781 59,002	
			Copper Iron	00,002	2,265,207 837,813,000
1975	1,893,111	1,622,410	Silver	1,720,991	007,010,000
			Gold Copper	42,238	1,499,933
1071	4 050 000	4 445 405	Iron	0.400.574	946,719,000
1974	1,859,923	1,415,165	Silver _ Gold	2,120,571 50,760	
			Copper Iron		1,818,730 1,043,196,000
1973	1,616,031	1,616,031	Silver	3,425,311	
			Gold Copper	93,620	3,395,965
1972	1,117,976	1,117,976	Iron Silver	2,472,564	910,038,524
1372	1,117,570	1,117,570	Gold	55,270	2,347,845
			Copper Iron		637,200,510
1971	1,818,664	1,818,664	Silver Gold	5,208,415 145,842	
			Copper Iron	1 10,0 12	5,589,236 1,056,244,189
1970	2,064,101	2,064,101	Silver	7,774,475	1,030,244,109
			Gold Copper	223,071	8,640,354
			Iron		1,071,222,638
1969	1,923,808	2,043,985	Silver Gold	6,044,433 186,618	
			Copper Iron	,	7,673,790 943,744,797
1968	1,570,601	1,570,601	Silver	3,309,857	3 .0,1 1 ,,1 07
			Gold Copper	109,483	4,455,901
100-	000 000	000 000	Iron	000 451	743,389,558
1967	892,668	892,668	Silver Gold	602,154 23,389	
			Copper Iron		555,129 282,805,200
1917	3,043	3,043	Silver	37,013	- ,,
			Gold	2,177	

MINFILE NUMBER: 103C 003

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# MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: STATUS: Past Producer 103C 003 NAME: TASU **Production** Kilograms **Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1917 3,043 3,043 Copper 47,953 6,314 435 1916 626 626 Silver Gold Copper 9,579 1914 1,030 1,030 Silver 466 Gold 311 Copper 17,568 SUMMARY TOTALS: 103C 003 NAME: TASU Metric <u>Imperial</u> 23,297,228 tonnes 22,701,946 tonnes 25,680,798 tons Mined: Milled: 25,024,612 tons Recovery: 1,698,281 ounces 45,980 ounces 52,822,505 grams 1,430,140 grams 57,090,466 kilograms Silver: Gold: 125,862,897 pounds Copper: iron: 12,349,672,416 kilograms 27,226,359,501 pounds Comments: No milling. Iron concentrates. Last shipment in early 1984. Iron conc. 442406t; copper conc. 17214t. Ceased Oct. 5, 1983. Conc. contained 65.40% iron Conc. contained 65.52% iron 1984: 1983: 1973: 1972: 1971: Conc. contained 65.75% iron 1970: Conc. contained 66.08% iron 1969: Conc. contained 65.8% iron Conc. contained 65.09% iron 1968: 1967: Conc. contained 65.78% iron

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103F 017 NAME: **COWGITZ** STATUS: Past Producer Production Tonnes **Tonnes** Kilograms Grams Commodity Recovered <u>Year</u> <u>Mined</u> Milled Recovered 1912 32 Coal 32,512 NAME: COWGITZ SUMMARY TOTALS: 103F 017 **Metric** <u>Imperial</u> Mined: Milled: 32 tonnes 35 tons tonnes tons Recovery: Coal: 32,512 kilograms 71,677 pounds

MINFILE NUMBER: 103F 017

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 103	F 034	NAM	ΛE:	<b>SPECOGNA</b>				STATUS:	Developed Prospect
Production <u>Year</u>		nnes Tonnes <u>Mined Milled</u>			Commodity		rams vered		Kilograms Recovered
1975		6			Silver Gold		529 902		
SUMMARY TOTALS: 103	F 034	NAM	ΛE:	SPECOGNA					
		<u>Met</u>	tric_		<u>Imperial</u>				
Decement	Mined: Milled:		_	tonnes tonnes	7	tons tons			
Recovery:	Silver: Gold:			grams grams		ounces ounces			
Comments:	1975:	Operated by E. Specogna.							

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MINFILE NUMBER: 103G 001 NAME: BULL SWAMP STATUS: Past Producer Production **Tonnes** Grams **Kilograms Tonnes** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u>

> 1945 Gold 22,239

SUMMARY TOTALS: 103G 001 NAME: BULL SWAMP

> **Metric Imperial**

Mined: tonnes tons Milled: tonnes tons

Recovery: 22,239 grams Gold: 715 ounces

Comments: 1945: Masset Sound & Graham Island 921-1945; see Oeanda (103G 002).

MINFILE NUMBER: 103G 001

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103G 004 NAME: **SOUTHEASTER** STATUS: Past Producer Production **Tonnes Kilograms Tonnes** Grams <u>Mined</u> Milled Commodity Recovered Recovered <u>Year</u> 1936 454 454 Silver 591 Gold 622 Copper Lead 117 302 249 653 5 1915 Silver Gold SUMMARY TOTALS: 103G 004 NAME: SOUTHEASTER <u>Imperial</u> <u>Metric</u> 459 tonnes 506 tons Mined: 454 tonnes 500 tons Milled: Recovery: 840 grams 1,275 grams 117 kilograms 27 ounces Silver: 41 ounces 258 pounds 666 pounds Gold: Copper: Lead: 302 kilograms Comments: 1915: Approximately 5 tonnes of ore was mined between 1910-1915.

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#### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 018 NAME: **DRUM LUMMON** STATUS: Past Producer Production **Tonnes Grams Kilograms Tonnes** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 6,158 124 1926 6 Silver Gold Copper 4.072 2,333 218 1921 4 Silver Gold Copper 1,944 907 28,864 1920 907 Silver Gold 1,089 Copper 19,100 1919 16 Silver 10,979 Gold 311 Copper 7.917 5 Silver Gold 684 31 1918 Copper 390 **SUMMARY TOTALS: 103H 018** NAME: DRUM LUMMON Metric <u>Imperial</u> Mined: 938 tonnes 1,034 tons Milled: 907 tonnes 1,000 tons Recovery: 49,018 grams 1,773 grams 33,423 kilograms 1,576 ounces 57 ounces 73,685 pounds Silver: Gold: Copper:

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Production

<u>Year</u>

1904

103H 019

MINFILE NUMBER:

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

NAME: GOLDEN CROWN STATUS: Past Producer **Tonnes** Kilograms Grams Commodity Recovered Milled Recovered

Gold

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93

SUMMARY TOTALS: 103H 019 NAME: GOLDEN CROWN

**Tonnes** 

<u>Mined</u>

5

**Metric Imperial** 

Mined: Milled: 5 tonnes 6 tons tonnes tons

Recovery: Gold: 93 grams 3 ounces

MINFILE NUMBER: 103H 019

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 022 NAME: OX STATUS: Past Producer Production **Tonnes** Kilograms **Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> Milled Recovered 1906 35 Silver 1,306 Gold Copper 31 372 SUMMARY TOTALS: 103H 022 NAME: **OX Metric Imperial** Mined: 35 tonnes 39 tons Milled: tonnes tons Recovery: 1,306 grams 31 grams 372 kilograms Silver: 42 ounces Gold: Copper: 1 ounces 820 pounds

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103H 027	NAME:	SURF INLET		STATUS: Past Producer
Production <u>Year</u>	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>	Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1943		169	Silver Gold Copper	5,816 16,205	3,665
1942	23,692	23,692	Silver Gold	110,727 270,067	
1941	39,243	35,661	Copper Silver Gold	144,971 409,347	73,459
1940	35,776	35,776	Copper Silver	171,035	91,787
1939	29,775	24,733	Gold Copper Silver	463,528 101,645	81,262
1938	18,399	15,810	Gold Copper Silver	485,456 90,292	66,032
			Gold Copper	212,807	66,599
1937	13,048	11,278	Silver Gold Copper	29,081 113,526	32,603
1936	5,026	4,145	Silver Gold Copper	9,518 45,255	5,942
1935	124	124	Silver Gold	4,417 11,664	5,037
1934	43	43	Copper Silver Gold	156 591	
1926	24,176	24,176	Copper Silver Gold	216,228 337,592	204
1925	71,341	71,341	Copper Silver	661,654	53,732
1924	78,471	78,471	Gold Copper Silver	1,091,280 490,836	307,272
1923	80,104	80,104	Gold Copper Silver	1,075,635 544,769	283,602
			Gold Copper	922,515	207,527
1922	96,135	96,135	Silver Gold Copper	532,048 1,089,072	316,179
1921	122,079	114,589	Silver Gold Copper	644,019 1,134,513	337,758
1920	98,050	97,954	Silver Gold	625,295 1,370,118	310,827
1919	93,182	94,280	Copper Silver Gold	943,012 1,607,527	
1918	82,367	88,507	Copper Silver Gold	849,921 1,294,445	367,584
1917	6,550	6,550	Copper Silver	67,431	196,093
1905	125	125	Gold Copper Silver	92,345 1,026	19,077
	270	270	Gold Copper Silver	5,816 5,723	322
1904	410	210	Gold	23,732	
1904 1903	61	61	Copper Silver	1,648	4,039

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1902:

#### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 027 NAME: SURF INLET STATUS: Past Producer Production **Kilograms Tonnes Tonnes Grams** Milled Commodity Recovered <u>Year</u> <u>Mined</u> Recovered 1902 91 91 6,967 Silver 14,743 Gold 2.839 Copper SUMMARY TOTALS: 103H 027 **SURF INLET** NAME: **Metric Imperial** Mined: 918,128 tonnes 1,012,063 tons Milled: 904,085 tonnes 996,583 tons Recovery: 6,258,235 grams 12,095,368 grams 2,834,461 kilograms 201,207 ounces 388,875 ounces 6,248,915 pounds Silver: Gold: Copper: Comments: Gold concentrates; clean up.
Operated by Surf Inlet Consolidated Gold Mines Ltd.
Operated by Princess Royal Gold Mines Ltd.
Operated by Belmont Surf Inlet Mines Ltd. 1943: 1935: 1934: 1917:

Operated by Princess Royal Gold Mines Ltd.

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MINFILE NUMBER: 103H 033 NAME: WESTERN COPPER STATUS: Past Producer Production Tonnes **Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1929 65 Silver 10,731 Gold 2,146 Copper 8,286 1928 150 Silver 34,462 Gold 3,173 Copper 22,526 SUMMARY TOTALS: 103H 033 NAME: WESTERN COPPER <u>Metric</u> **Imperial** Mined: 215 tonnes 237 tons Milled: tonnes tons Recovery: 45,193 grams 5,319 grams 30,812 kilograms 1,453 ounces 171 ounces 67,929 pounds Silver: Gold: Copper:

MINFILE NUMBER: 103H 033

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### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103H 034 NAME: HUNTER STATUS: Past Producer Production **Tonnes** Grams Kilograms **Tonnes** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1933 3 3 Silver 373 Gold Copper 933 40 NAME: **HUNTER** SUMMARY TOTALS: 103H 034 **Metric Imperial** Mined: 3 tonnes 3 tons 3 tonnes Milled: 3 tons Recovery: 373 grams 933 grams 40 kilograms 12 ounces 30 ounces 88 pounds Silver: Gold: Copper: Comments: 1933: Operated by J.M. Meldrum.

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	103H 044		NAME:	<b>BAKER INLET</b>	<u>-</u>		STATUS: Past Producer
Production <u>Year</u>	Т	onnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	3
1941		71			Mica		71,214
1940		73			Mica		72,575
SUMMARY TOTALS	<u>s</u> : 103H 044		NAME:	BAKER INLET			
			Metric		<u>Imperial</u>		
Poorvory:	Mined: Milled:		144	tonnes tonnes	159	tons tons	
Recovery:	Mica:		143,789	kilograms	317,000	pounds	
Comments:	1941: 1940:	Production Minister of	n fiche on Fairey & 0 f Mines Annual Repo	Company. ort 1940, page 9	9.		

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MINFILE NUMBER:	103I 001		NAME:	BUCCANE	R OF THE NORT	<u>H</u> :	STATUS: Past Producer
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1939		109			Marl		108,862
1936		2			Marl		1,814
SUMMARY TOTALS	<u>S</u> : 103I 001		NAME:	BUCCANE	ER OF THE NORT	Н	
			Metric		<u>Imperial</u>		
5	Mined: Milled:		111	tonnes tonnes	122	tons tons	
Recovery:	Marl:		110,676	kilograms	243,999	pounds	

MINFILE NUMBER: 1031 001

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 009 NAME: A.E. BARR QUARRY STATUS: Past Producer Production Tonnes Tonnes **Grams Kilograms** Commodity Recovered <u>Mined</u> Milled <u>Year</u> Recovered 1956 109 Limestone 109,361 1955 8,499 8,499,014 Limestone 1954 6,847 6,847,430 Limestone 1953 208 Limestone 207,745 SUMMARY TOTALS: 103I 009 NAME: A.E. BARR QUARRY Metric <u>Imperial</u> Mined: 15,663 tonnes 17,266 tons Milled: tonnes tons Recovery: Limestone: 15,663,550 kilograms 34,532,207 pounds

MINFILE NUMBER: 1031 009

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## MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 1	03I 019		NAME:	KALUM LAKE			STATUS:	Past Producer
Production <u>Year</u>		onnes <u>Mined</u>	Fonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>		Kilograms <u>Recovered</u>
1940		10			Silver Gold			
SUMMARY TOTALS: 1	031 019		NAME: Metric	KALUM LAKE	<u>Imperial</u>			
December 1	Mined: Milled:		10	tonnes tonnes	11	tons tons		
Recovery:	Silver: Gold:		560 375	grams grams		ounces ounces		
Comments:	1940:	From Mineral Policy.						

MINFILE NUMBER: 1031 019

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 022 NAME: HOPE SILVER STATUS: Past Producer Production Tonnes Tonnes Grams Kilograms Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1966 5 Silver 7,527 Copper Lead 151 292 SUMMARY TOTALS: 103I 022 NAME: HOPE SILVER **Metric Imperial** Mined: 5 tonnes 6 tons Milled: tonnes tons Recovery: 7,527 grams 151 kilograms 292 kilograms 242 ounces 333 pounds 644 pounds Silver: Copper: Lead:

MINFILE NUMBER: 1031 022

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PAGE: 30 REPORT: RGEN0200 STATUS: Past Producer

MINFILE NUMBER:	103I 030		NAME:	BLACK WC	DLF		STATUS: Past Producer
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1928		23			Silver Gold Lead Zinc	3,577 1,151	1,103 1,905
SUMMARY TOTALS	: 103I 030		NAME:	BLACK WO	DLF		
			Metric		<u>Imperial</u>		
Recovery:	Mined Milled		23	tonnes tonnes	25	tons tons	
NGCOVEIY.	Silver: Gold: Lead: Zinc:		3,577 1,151 1,103 1,905	grams grams kilograms kilograms	37 2,432	ounces ounces pounds pounds	

MINFILE NUMBER: 1031 030

## MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103I 039	NAME:	LUCKY LUKE (L.7424)	_	STATUS: Past Producer
Production <u>Year</u>	Tonnes <u>Minec</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1967	3		Silver Gold Copper	3,359 93	1,158
1938	3		Silver Gold Copper	1,182 62	738
1924	23		Silver Gold Copper	560	5,063
SUMMARY TOTALS	<u>S</u> : 103I 039	NAME:	LUCKY LUKE (L.7424)		
		<u>Metric</u>	<u>Imperial</u>		
Recovery:	Mined: Milled:	29	tonnes 32 tonnes	tons tons	
Necovery.	Silver: Gold: Copper:	14,370 715 6,959	grams 23	ounces ounces pounds	

MINFILE NUMBER: 1031 039

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103I 040	N/	AME:	<b>CORDILLERA</b>			STATUS: Past Produc	cer
Production <u>Year</u>			nes illed	<u>Cc</u>	ommodity	Grams <u>Recovered</u>		
1922		5			Silver Gold Copper	2,582 653		0
1921		38			Silver Gold Copper	3,235 156		3
1919		3			Silver Gold Copper	1,058 93	777	7
1915		27			Gold Copper	249		
SUMMARY TOTAL	S: 103I 040	NA	AME:	CORDILLERA				
	Mined: Milled:	<u>M</u>		tonnes tonnes	Imperial 80	tons		
Recovery:	Silver: Gold: Copper:	1	,151	grams grams kilograms	37	ounces ounces pounds		

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MINFILE NUMBER:	103I 041		NAME:	DIADEM		STA	TUS: Showing
Production Ye		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
19	28	1			Silver Copper	31	26
SUMMARY TOTA	ALS: 103I 041		NAME: <u>Metric</u>	DIADEM	<u>Imperial</u>		
Daggyany	Mined Milled		1	tonnes tonnes		ons ons	
Recovery:	Silver Copper		31 26	grams kilograms		ounces oounds	

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MINFILE NUMBER:	<u>103I 042</u>	NAME:	MAC SHANNON		STATUS: Developed Prospect
Production <u>Year</u>	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>	Commodit	Grams <u>y Recovered</u>	
1953	1		Silve Copp		59
SUMMARY TOTAL	<u>S</u> : 103I 042	NAME: <u>Metric</u>	MAC SHANNON Imperi	<u>al</u>	
Dagovany	Mined: Milled:	1	tonnes tonnes	1 tons tons	
Recovery:	Silver: Copper:	62 59		2 ounces 0 pounds	

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Comments:

Copper:

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1,001 pounds

MINFILE NUMBER: 103I 044 NAME: **DIORITE** STATUS: Past Producer Production Tonnes **Tonnes Kilograms** Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1917 9 454 Copper **SUMMARY TOTALS: 103I 044** NAME: **DIORITE Metric Imperial** Mined: Milled: 9 tonnes 10 tons tonnes tons Recovery:

454 kilograms

1917: Also produced 65 cents/tonne of gold & silver. MMAR 1916, p. 98

MINFILE NUMBER: 1031 044

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GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 045 NAME: **GROTTO** STATUS: Past Producer Production Tonnes Tonnes Kilograms **Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1953 29 Silver 17,231 Gold 560 Copper 765 25,878 1938 34 Silver Gold 684 Copper 1,537 **SUMMARY TOTALS: 103I 045** NAME: GROTTO Metric **Imperial** Mined: 63 tonnes 69 tons Milled: tonnes tons Recovery: 43,109 grams 1,244 grams 2,302 kilograms 1,386 ounces Silver: Gold: Copper: 40 ounces 5,075 pounds

MINFILE NUMBER: 1031 045

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 048 NAME: FIDDLER STATUS: Past Producer Production **Tonnes** Tonnes Grams **Kilograms** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1952 476 Silver 8,118 Gold Lead 3,266 3,137 Zinc 1,342 14,587 2,519 1926 88 Silver Gold 3,659 Lead 843 Zinc SUMMARY TOTALS: 103I 048 NAME: FIDDLER Metric **Imperial** Mined: 564 tonnes 622 tons Milled: tonnes tons Recovery: 22,705 grams 5,785 grams 6,796 kilograms 2,185 kilograms Silver: 730 ounces 186 ounces 14,983 pounds 4,817 pounds Gold: Lead: Zinc: Comments: 1926: Tonnes mined includes 8 tonnes in 1924.

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 061 NAME: FRISCO STATUS: Past Producer Production Tonnes **Tonnes Kilograms Grams** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1917 9 Silver 15,552 Copper 2,903 **SUMMARY TOTALS: 103I 061** NAME: FRISCO **Metric Imperial** Mined: 9 tonnes 10 tons Milled: tonnes tons Recovery: 15,552 grams 2,903 kilograms Silver: 500 ounces Copper: 6,400 pounds Comments:

1917: Mined in 1916 - shipped from dump in 1917 to Granby.

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#### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 062 NAME: M&K STATUS: Past Producer Production Tonnes Tonnes Grams **Kilograms** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1921 27 Silver 23,327 Copper 5,443 1919 28 12,659 Silver Copper 4,473 1917 112 Silver 70,168 20,810 34,144 Copper 1916 45 Silver 38,879 Copper 11,340 **SUMMARY TOTALS: 103I 062** NAME: M & K **Metric** <u>Imperial</u> 234 tons Mined: 212 tonnes Milled: tonnes Recovery: 145,033 grams 42,066 kilograms 34,144 kilograms Silver: 4,663 ounces 92,740 pounds 75,275 pounds Copper: Lead:

MINFILE NUMBER: 1031 062

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## MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	103I 077	NAME:	COLUMARIO			STATUS: Past Producer
Production <u>Year</u>		onnes Tonnes <u>Mined</u> <u>Milled</u>		Commodity	Grams <u>Recovered</u>	
1935				Silver Gold		
1934				Silver Gold		
SUMMARY TOTALS	: 1031 077	NAME:	COLUMARIO			
		<u>Metric</u>		<u>Imperial</u>		
Recovery:	Mined: Milled:		tonnes tonnes		tons tons	
Necovery.	Silver: Gold:	58,101 21,150	grams grams		ounces ounces	
Comments:	1935: 1934:	Actual tonnes mined was not Actual tonnes mined was not	reported. reported.			

MINFILE NUMBER: 1031 077

Production

<u>Year</u> 1938

1926

**SUMMARY TOTALS: 103I 095** 

103I 095

Mined:

Milled:

Silver: Gold: Copper: Tonnes

<u>Mined</u>

2

27

MINFILE NUMBER:

Recovery:

tonnes

1,337 grams 1,617 grams 302 kilograms

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tons

43 ounces 52 ounces

666 pounds

MINFILE NUMBER: 1031 095

Gold:

Recovery:

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103I 099 NAME: LUCKY SEVEN STATUS: Past Producer Production **Tonnes Tonnes** Kilograms Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1918 91 Gold 6,221 SUMMARY TOTALS: 103I 099 NAME: LUCKY SEVEN **Metric Imperial** Mined: Milled: 91 tonnes 100 tons tonnes tons

6,221 grams

200 ounces

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## MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103I 136		NAME:	<b>BLACK BULL</b>	<u> </u>		STATUS:	Past Producer
Production <u>Year</u>		onnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>		Kilograms <u>Recovered</u>
1942		1			Tungsten			9
1940		2			Silver Gold	62 31		
<b>SUMMARY TOTALS</b> :	103I 136		NAME:	BLACK BULL	_			
			<u>Metric</u>		<u>Imperial</u>			
Recovery:	Mined: Milled:		3	tonnes tonnes	3	tons tons		
Recovery.	Silver: Gold: Tungsten:		31	grams grams kilograms	1	ounces ounces pounds		
Comments:	1942:	Actual ore	mined was not rep					

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> 1972: 1971: 1969:

#### MINFILE PRODUCTION REPORT

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MINFILE NUMBER: STATUS: Past Producer 103I 165 NAME: TERRACE CALCIUM PRODUCTS **Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1982 142 Limestone 141,600 147 1981 Limestone 146,719 1980 122 Limestone 122,470 1979 142 **Building Stone** 2,722 Limestone 139,480 1978 119 2,268 **Building Stone** 116,346 Limestone 1,361 **Building Stone** 1977 99 97,296 Limestone 7,711 112,491 1976 120 **Building Stone** Limestone **Building Stone** 1,814 1975 171 Limestone 169,266 1974 175 Limestone 175,087 1973 363 132,903 Limestone 1972 113 113,398 Limestone 363 1971 90,718 Limestone 1970 136 Limestone 136,078 54 54,431 1969 Limestone NAME: TERRACE CALCIUM PRODUCTS **SUMMARY TOTALS: 103I 165** Metric <u>Imperial</u> Mined: 2,266 tonnes 2,498 tons Milled: tonnes Recovery: **Building Stone:** 15,876 kilograms 35,001 pounds Limestone: 1,748,283 kilograms 3,854,303 pounds Comments: Geology, Exploration & Mining 1973-550 Geology, Exploration & Mining 1973-550 Geology, Exploration & Mining 1971-468 Geology, Exploration & Mining 1971-468; 1973-550 1973:

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 012 NAME: **SMITH ISLAND** STATUS: Past Producer Production Tonnes **Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled <u>Year</u> Recovered 1952 3,565 Limestone 3,565,236 1951 4,719 4,719,175 Limestone 1950 1,175 1,174,804 Limestone SUMMARY TOTALS: 103J 012 NAME: **SMITH ISLAND Metric Imperial** Mined: 9,459 tonnes 10,427 tons Milled: tons tonnes Recovery: Limestone: 9,459,215 kilograms 20,853,993 pounds

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Copper:

#### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 015 STATUS: Past Producer NAME: **EDYE PASS Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 4,238 4,238 28.646 1939 Silver Gold 67,991 1.163 Copper 17,604 1938 7,266 Silver 3,185 Gold 58,069 Copper 1,079 30,916 1937 15,461 6,477 Silver Gold 86,124 Copper 207 1936 13,803 6,705 Silver 37,915 104,942 Gold Copper 632 43,544 136,356 1935 10,989 6,418 Silver Gold Copper 751 1934 7,089 5,133 42,238 Silver 111,442 Gold 329 Copper 1933 1,912 1,475 Silver 11,290 Gold 39,439 5,319 1931 391 391 Silver Gold 10,699 1930 142 142 Silver 964 Gold 2,084 1927 34 34 Silver 373 1,742 Gold 3,048 1926 74 74 Silver Gold 6,905 1924 13 13 Gold 2,799 1923 9 9 Silver 622 1,400 Gold 1920 8 8 Silver 529 1,275 Gold 560 9 9 Silver 1919 Gold 1,151 SUMMARY TOTALS: 103J 015 NAME: **EDYE PASS** <u>Metric</u> <u>Imperial</u> Mined: 61,438 tonnes 67,724 tons Milled: 34,311 tonnes 37,821 tons Recovery: 223,568 grams 7,188 ounces Silver: 632,418 grams 4,161 kilograms 20,333 ounces 9,173 pounds Gold:

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Gold:

### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 017 NAME: **PORCHER ISLAND** STATUS: Past Producer Production Tonnes **Tonnes** Grams **Kilograms** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1937 19 19 Silver 280 840 Gold 1936 102 102 Silver 1,275 Gold 3,795 373 1935 11 11 Silver 1,213 Gold 1934 12 12 Silver 498 Gold 1,648 SUMMARY TOTALS: 103J 017 NAME: PORCHER ISLAND **Metric Imperial** 144 tonnes 144 tonnes 159 tons 159 tons Mined: Milled: Recovery: 2,426 grams 7,496 grams 78 ounces 241 ounces Silver:

MINFILE NUMBER: 103J 017

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103J 028 NAME: JITNEY STATUS: Past Producer Production **Tonnes** Kilograms **Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> Milled Recovered 1917 Silver 2,488 Gold Copper 62 726 SUMMARY TOTALS: 103J 028 NAME: JITNEY **Metric Imperial** Mined: 4 tonnes 4 tons Milled: tonnes tons Recovery: 2,488 grams 62 grams 726 kilograms Silver: 80 ounces 2 ounces 1,601 pounds Gold: Copper:

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103O 013 NAME: **GEORGIA RIVER** STATUS: Past Producer Production Tonnes Tonnes Grams **Kilograms** <u>Mined</u> Milled Commodity Recovered Recovered <u>Year</u> 1937 454 Silver 12,752 10,233 Gold Lead 3,312 SUMMARY TOTALS: 103O 013 NAME: GEORGIA RIVER **Metric Imperial** Mined: 454 tonnes 500 tons Milled: tonnes tons Recovery: 12,752 grams 10,233 grams 3,312 kilograms 410 ounces 329 ounces 7,302 pounds Silver: Gold: Lead: Comments: 1937: Operated by Gold Leasers Ltd.

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Recovery:

Limestone:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION PAGE: 50 REPORT: RGEN0200

567,284,554 pounds

MINFILE NUMBER:	103O 017		NAME:	SWAMP POI	NT_	S	TATUS: Past Producer
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1922		17,358			Limestone		17,358,072
1921		14,274			Limestone		14,273,644
1920		42,809			Limestone		42,809,138
1919		37,200			Limestone		37,200,000
1918		46,100			Limestone		46,100,404
1917		58,608			Limestone		58,607,760
1916		40,967			Limestone		40,967,000
SUMMARY TOTALS	<u>S</u> : 103O 017		NAME:	SWAMP POI	NT		
			<u>Metric</u>		<u>Imperial</u>		
	Mined: Milled:		257,316	tonnes tonnes	283,642	tons tons	

257,316,018 kilograms

MINFILE NUMBER: 1030 017

1928:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103O 018 NAME: **OUTSIDER** STATUS: Past Producer **Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1928 2,326 2,326 23,763 Silver Gold 342 Copper Silica 50.031 11,296,600 128,082 1,711 1927 Silver 12,424 12,424 Gold Copper 223,678 1926 31,505 31,505 Copper 548,736 1925 41,364 41,364 Copper 843,557 25,347 1924 25,347 Copper 338,687 8,110 1907 8,110 251,699 Copper 132,410 1906 4,890 4,890 Copper SUMMARY TOTALS: 103O 018 NAME: **OUTSIDER** Metric <u>Imperial</u> 138,854 tons 138,854 tons 125,966 tonnes 125,966 tonnes Mined: Milled: Recovery: 4,882 ounces 66 ounces 5,266,397 pounds 151,845 grams 2,053 grams 2,388,798 kilograms Silver: Gold: Copper: Silica: 11,296,600 kilograms 24,904,733 pounds Comments:

1924-1928: 11,296 tonnes of silica was produced for flux.

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 012 NAME: **SADDLE** STATUS: Past Producer Production **Tonnes Kilograms Tonnes** Grams Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1929 3 Silver 2,613 44 1,436 Copper Lead NAME: **SADDLE** SUMMARY TOTALS: 103P 012 **Metric Imperial** Mined: 3 tonnes 3 tons Milled: tonnes tons Recovery: 2,613 grams 44 kilograms 1,436 kilograms 84 ounces 97 pounds 3,166 pounds Silver: Copper: Lead: Comments: 1929: Ore mined is 2.72 tonnes. Operated by Silver Crest Mines Ltd.

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103P 021	NAME:	HIDDEN CREEK		STATUS: Past Producer
Production <u>Year</u>	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>	Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1936	4,987	4,987	Silver Gold Copper	240,457 5,536	226,872
1935	1,027,039	1,030,393	Silver Gold	6,389,707 71,039	·
1934	1,580,601	1,580,601	Copper Silver Gold	7,404,131	9,339,405
1933	1,275,564	1,275,564	Copper Silver	96,357 5,537,018	14,648,278
4022	4 400 744	4 400 744	Gold Copper	76,171	13,477,266
1932	1,488,744	1,488,744	Silver Gold Copper	6,966,792 93,713	15,841,376
1931	1,343,276	1,343,276	Silver Gold Copper	7,698,272 96,575	14,587,106
1930	1,291,099	1,272,758	Silver Gold	7,410,539 91,256	
1929	1,451,581	1,316,647	Copper Silver Gold	7,503,630 127,522	13,176,002
1928	1,280,167	1,106,487	Copper Silver	8,203,821	15,660,005
1927	1,241,988	957,062	Gold Copper Silver	131,690 9,517,736	16,367,055
		·	Gold Copper	136,822	17,491,090
1926	1,094,430	546,136	Silver Gold Copper	12,873,563 227,550	19,158,237
1925	1,055,284	377,652	Silver Gold	11,754,135 217,628	20,559,626
1924	950,166	228,517	Copper Silver Gold	12,793,939 192,714	
1923	760,490	760,490	Copper Silver Gold	14,083,003 250,566	18,370,263
1922	775,379	775,379	Copper Silver	12,646,293	16,847,157
1921	813,561	813,561	Gold Copper Silver	276,848 10,287,037	15,697,729
			Gold Copper	238,000	15,472,873
1920	728,163	728,163	Silver Gold Copper	11,873,321 236,849	14,072,003
1919	587,368	587,368	Silver Gold Copper	10,836,534 151,285	10,333,650
1918	778,243	778,243	Silver Gold	11,876,960 184,565	
1917	711,656	711,656	Copper Silver Gold	9,759,748 170,787	15,413,773
1916	663,109	663,109	Copper Silver	8,995,516	14,916,875
1915	586,028	586,028	Gold Copper Silver	303,223 7,589,536	13,157,536
	·		Gold Copper	307,329	11,230,939
1914	236,601	236,601	Silver Gold Copper	4,067,246 88,737	5,501,086

MINFILE NUMBER: 103P 021

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION RUN DATE: 26-Jun-2003 RUN TIME: 12:14:52

NAME: HIDDEN CREEK

NAME: HIDDEN CREEK SUMMARY TOTALS: 103P 021

> Metric <u>Imperial</u>

21,725,524 tonnes 23,948,291 tons Mined: Milled: 19,169,422 tonnes 21,130,670 tons

Recovery: 206,308,934 grams 3,772,762 grams 321,546,202 kilograms 6,632,977 ounces 121,297 ounces Silver: Gold:

708,887,831 pounds Copper:

Comments: 1936: Ore mined is material from clean-up.

103P 021

MINFILE NUMBER:

MINFILE NUMBER: 103P 021

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STATUS: Past Producer

## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: STATUS: Past Producer 103P 022 NAME: **GRANBY POINT Kilograms** Production **Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1938 8 Silver 7,962 Gold 93 Copper 13 8 Lead 24,447 467 1937 31 Silver Gold Copper 49 Lead 332 20,310 249 1936 19 Silver Gold Copper 17 89 Lead 1935 8,080 Silver 950,228 Gold 21,928 1934 12,653 Silver 1,393,943 Gold 42,611 1,255,162 1933 5,431 Silver Gold 48,645 1930 603 Silver 76,420 Gold 1929 6,223 Silver 324,031 Gold 8,118 1920 16,135 Silver 1,805,965 53,342 Gold Silica 16,135,000 1919 25,422 Silica 25,422,036 1918 16,934 Silica 16,934,416 1917 23,239 Silver 2,051,772 Gold 55,768 Silica 4,374,446 1916 28,142 Silica 28,141,776 SUMMARY TOTALS: 103P 022 NAME: GRANBY POINT Metric **Imperial** Mined: 142,920 tonnes 157,542 tons Milled: tonnes tons Recovery: 7,910,240 grams Silver: 254,320 ounces 233,585 grams 79 kilograms 7,510 ounces 174 pounds Gold: Copper: 429 kilograms 946 pounds Lead: 91,007,674 kilograms 200,637,520 pounds Silica: Comments: Annual Reports and Mineral Policy Branch.
Annual Reports and Mineral Policy Branch.
Annual Reports and Mineral Policy Branch;includes Macy (103P 112). 1920: 1919: 1918: Annual Reports and Mineral Policy Branch. 1916:

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Gold:

Copper:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 023 NAME: **BONANZA** STATUS: Past Producer **Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1935 59,484 59,484 699.755 Silver Gold 5,941 Copper 1,699,187 1,763,820 121,087 Silver 1934 121,087 Gold 14,338 Copper 2,713,885 1933 116,232 116,232 Silver 1,613,748 Gold 15,738 Copper 2,628,290 1932 90,021 90,021 Silver 1,412,512 14,338 Gold Copper 2,067,340 1,215,723 13,405 1931 87,982 87,982 Silver Gold Copper 1,883,704 900,836 11,353 1930 80,119 80,119 Silver Gold Copper 1,344,025 1,141,138 11,384 1929 102,048 100,731 Silver Gold Copper 1,963,260 1928 Gold 93 **BONANZA** SUMMARY TOTALS: 103P 023 NAME: **Imperial** Mined: 656,973 tonnes 724,189 tons Milled: 655,656 tonnes 722,737 tons Recovery: Silver: 8,747,532 grams 281,239 ounces 86,590 grams 14,299,691 kilograms

2,784 ounces

31,525,413 pounds

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### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 027 NAME: STATUS: Past Producer MAY **Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 32,005 5,288 1929 2,322 Silver Gold 1928 11,894 Silver 203,880 Gold 33,778 1927 6,145 Silver 127,896 Gold 17,231 1926 5,635 Silver 111,909 Gold 17,729 1925 4,775 Silver 89,919 Gold 14,712 10,699 1924 487 Silver Gold 3,079 1922 2,203 Silver 33,871 Gold 6,283 1921 8,349 Silver 109,420 Gold 29,330 1920 3,133 60,962 Silver Gold 14,774 1919 1,089 Silver 38,288 6,221 Gold 3,204 Silver 1918 138 684 Gold 1,676,477 1917 1,676 Silica SUMMARY TOTALS: 103P 027 NAME: MAY <u>Metric</u> <u>Imperial</u> 47,846 tonnes 52,741 tons Mined: Milled: tonnes Recovery: 26,430 ounces 4,794 ounces 822,053 grams Silver: 149,109 grams 1,676,477 kilograms Gold: Silica: 3,695,998 pounds Comments: 1917: Total silica production.

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	103P 028		NAME:	<b>GOLD LEAF</b>			STATUS: Past Producer
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	3
1939		4			Silver Gold	93 218	
1938		4			Silver Gold	404 1,151	
SUMMARY TOTALS	: 103P 028		NAME:	<b>GOLD LEAF</b>			
			Metric		<u>Imperial</u>		
Pagovary	Mined Milled		8	tonnes tonnes	9	tons tons	
Recovery:	Silver: Gold:			grams grams		ounces ounces	

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	103P 050		NAME:	GOLD CLIFF			STATUS: Past Producer
Production <u>Year</u>		onnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	
1936		101			Silver Gold Lead	40,776 156	
1934		53			Silver Gold Lead Zinc	96,637 156	
1925		9			Silver Gold Lead Zinc	47,868 31	1,347 1,755
SUMMARY TOTALS	S: 103P 050		NAME:	GOLD CLIFF			
			Metric		<u>Imperial</u>		
_	Mined: Milled:		163	tonnes tonnes	180	tons tons	
Recovery:	Silver: Gold: Lead: Zinc:		11.984	grams grams kilograms kilograms	11 26,420	ounces ounces pounds pounds	

MINFILE NUMBER: 103P 050

1983:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 051 NAME: **BAYVIEW** STATUS: Past Producer Production **Kilograms Tonnes Tonnes** Grams <u>Mined</u> Milled Commodity Recovered <u>Year</u> Recovered 1984 11 Silver 51,587 11 Gold Lead 14 1,800 1,800 Zinc 10 1983 10 Silver 71,227 1,769 Lead Zinc 1,671 SUMMARY TOTALS: 103P 051 NAME: **BAYVIEW** Metric <u>Imperial</u> 21 tonnes 21 tonnes Mined: Milled: 23 tons 23 tons Recovery: 122,814 grams 14 grams 3,569 killograms Silver: 3,949 ounces Gold: ounces 7,868 pounds Lead: 3,471 kilograms 7,652 pounds Zinc: Comments: 1984: High grade ore. George Cross Newsletter #175,1984.

9.82 tonnes ore sorted by hand-Assessment Report 12620

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### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 052 DUNWELL STATUS: Past Producer NAME: **Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1937 2,096 402.566 Silver Gold 22,145 Copper 2.748 23,580 Lead 1,110,470 30,792 1936 Silver 4,159 Gold Copper 460 66,839 Lead 1935 6,476 Silver 1,451,266 Gold 46,312 Copper 1,512 17,739 Lead 1934 5,282 Silver 2,324,172 30,450 Gold Copper Lead 4,121 51,518 1933 2,884 Silver 1,347,475 18,880 Gold 2,873 23,421 Copper Lead 14,119 Zinc 79,188 715 1932 24 Silver Gold Lead 1,184 1930 Silver 10,140 Gold 560 2,023 Lead Zinc 180 3,345,999 149,450 1927 24,555 Silver Gold 620,210 Lead Zinc 1,071,878 151,689 1926 181 Silver Gold 3,763 Lead 30,954 22,681 Zinc SUMMARY TOTALS: 103P 052 NAME: **DUNWELL** Metric **Imperial** Mined: tonnes tons 45,657 tonnes 50,328 tons Milled: Recovery: 10,222,965 grams 328,675 ounces Silver: 9,744 ounces 25,825 pounds 303,067 grams 11,714 kilograms 837,468 kilograms Gold: Copper: 1,846,300 pounds Lead: Zinc: 1,108,858 kilograms 2,444,613 pounds Comments: 1937: In addition 1074 tons of tailings re-treated. 1933: 1930: Includes 2830 tons estimated.

5 tons clean-up.

MINFILE NUMBER: 103P 052

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 103P 053 NAME: BEN ALI (L.4283) STATUS: Past Producer Production **Tonnes Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 4,790 249 1941 8 Silver Gold Copper Lead 196 572 30,170 3,857 1940 44 Silver Gold 343 Copper 120 Lead SUMMARY TOTALS: 103P 053 NAME: BEN ALI (L.4283) Metric **Imperial** 57 tons Mined: 52 tonnes Milled: tonnes tons Recovery: 34,960 grams 4,106 grams 539 kilograms 692 kilograms 1,124 ounces 132 ounces 1,188 pounds 1,526 pounds Silver: Gold: Copper: Lead:

Production

<u>Year</u> 1937

MINFILE NUMBER:

Recovery:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION PAGE: 63 REPORT: RGEN0200 NAME: **GEORGE E** STATUS: Past Producer **Tonnes** Grams **Kilograms** Milled Commodity Recovered Recovered Silver 7,776 Gold Lead 124 2,793 NAME: GEORGE E **Metric Imperial** 

SUMMARY TOTALS: 103P 054

12

**Tonnes** <u>Mined</u>

103P 054

Mined: 12 tonnes 13 tons Milled: tonnes tons 7,776 grams 124 grams 2,793 kilograms Silver: 250 ounces 4 ounces 6,158 pounds Gold: Lead:

Comments: 1937: From Number 1 vein-Mineral Policy Branch

1948:

## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 055 NAME: HANSA STATUS: Prospect Production **Tonnes Tonnes** Grams **Kilograms** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1948 Silver 31,228 Gold Lead 24 476 422 Zinc **SUMMARY TOTALS: 103P 055** NAME: HANSA **Metric Imperial** Mined: 4 tons 4 tonnes tons Milled: tonnes Recovery: 31,228 grams 24 grams 476 kilograms 1,004 ounces 1 ounces Silver: Gold: Lead: 1,049 pounds 422 kilograms 930 pounds Zinc: Comments:

4.5 tonnes ore sorted by hand-Annual Report 1948, page 71

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## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 059 NAME: **LAKEVIEW** STATUS: Past Producer Production Tonnes **Tonnes Kilograms** Grams Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1936 55 Silver 89,452 Gold Lead 218 6,102 2 1914 Silver 22,612 Gold 31 3 Silver 51,973 1913 Gold 31 Lead 587 SUMMARY TOTALS: 103P 059 NAME: LAKEVIEW <u>Metric</u> <u>Imperial</u> 60 tonnes 66 tons Mined: Milled: tonnes tons Recovery: Silver: 164,037 grams 5,274 ounces 280 grams 6,689 kilograms Gold: 9 ounces 14,747 pounds Lead:

MINFILE NUMBER: 103P 059

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	103P 065		NAME:	SUNSHINE		STA	TUS: Prospect
Production Year		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms Recovered
192	22	2			Silver	23,949	
SUMMARY TOTA	LS: 103P 065		NAME: Metric	SUNSHINE	Imperial		
_	Mined Milled		2	tonnes tonnes	2 to	ns ns	
Recovery:	Silver		23,949	grams	770 ou	ınces	

MINFILE NUMBER: 103P 065

## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 068 NAME: PORTLAND CANAL STATUS: Past Producer Production **Tonnes Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1912 1,814 Silver 182,512 Gold 3,701 Lead 18,829 622,091 6,350 Silver 1911 Gold 15,334 108,217 Lead SUMMARY TOTALS: 103P 068 NAME: PORTLAND CANAL <u>Metric</u> <u>Imperial</u> Mined: Milled: 8,164 tonnes 8,999 tons tonnes tons Recovery: 804,603 grams 19,035 grams 127,046 kilograms 25,869 ounces 612 ounces 280,088 pounds Silver: Gold: Lead:

MINFILE NUMBER: 103P 068

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 069 NAME: MOBILE STATUS: Past Producer Production **Tonnes** Kilograms **Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1949 7 Silver 47,836 Gold Lead 31 541 673 Zinc 1930 5 Silver 51,133 31 Gold 15 424 Copper Lead SUMMARY TOTALS: 103P 069 NAME: MOBILE Metric **Imperial** Mined: 12 tonnes 13 tons Milled: tonnes tons Recovery: 98,969 grams 62 grams 15 kilograms 965 kilograms 673 kilograms 3,182 ounces 2 ounces 33 pounds 2,127 pounds 1,484 pounds Silver: Gold: Copper: Lead: Zinc:

MINFILE NUMBER: 103P 069

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Comments:

1910:

## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 073 NAME: COLUMBIA - EVENING SUN STATUS: Developed Prospect Production **Tonnes Tonnes** Grams **Kilograms** Recovered <u>Mined</u> Milled Commodity Recovered <u>Year</u> 1913 6 Silver 33,249 Gold 31 Copper Lead 61 1,037 4 Silver 1910 45,224 769 Lead SUMMARY TOTALS: 103P 073 NAME: COLUMBIA - EVENING SUN Metric **Imperial** Mined: 10 tonnes 11 tons Milled: tonnes tons Recovery: 78,473 grams Silver: 2,523 ounces 31 grams 61 kilograms 1 ounces 134 pounds Gold: Copper: 3,982 pounds 1,806 kilograms Lead:

Minister of Mines Annual Report 1910, page 63

MINFILE NUMBER: 103P 073

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### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 076 NAME: L&L STATUS: Past Producer Production **Tonnes Grams Kilograms Tonnes** Commodity <u>Mined</u> Milled Recovered <u>Year</u> Recovered 1925 60 Silver 369,784 Gold Lead 187 8,014 9,568 Zinc 2 1924 Silver 17,636 Gold 406 Lead Zinc 262 1 1913 Silver 8,958 Copper 10 225 Lead NAME: L&L SUMMARY TOTALS: 103P 076 Metric <u>Imperial</u> Mined: 63 tonnes 69 tons Milled: tonnes tons Recovery: 396,378 grams 12,744 ounces Silver: 6 ounces 22 pounds 19,059 pounds 21,671 pounds 193 grams 10 kilograms 8,645 kilograms Gold: Copper: Ľėad: Zinc: 9,830 kilograms Comments: 1924: Minister of Mines Annual Report 1924, page 68

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MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 084 NAME: BLACK HILL STATUS: Past Producer Production **Tonnes Tonnes** Grams **Kilograms** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1983 9 Silver 81,864 1,833 1,548 Lead Zinc 123,354 1935 25 Silver Gold 62 Copper 119 3,429 Lead 1930 19 Silver 94,678 Copper Lead 3,256 SUMMARY TOTALS: 103P 084 NAME: BLACK HILL Metric <u>Imperial</u> Mined: 49 tons 44 tonnes Milled: 9 tonnes 10 tons Recovery: 9,642 ounces 2 ounces Silver: 299,896 grams 62 grams 217 kilograms 8,518 kilograms 1,548 kilograms Gold: 478 pounds Copper: 18,779 pounds 3,413 pounds Lead: Zinc:

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MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 085 NAME: **MOLLY B (L.4498)** STATUS: Past Producer Production **Tonnes Tonnes Kilograms Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1941 172 Silver 2,177 Gold 404 Copper 1,219 1,306 280 1940 118 Silver Gold Copper 856 SUMMARY TOTALS: 103P 085 NAME: MOLLY B (L.4498) Metric **Imperial** Mined: Milled: 290 tonnes 320 tons tonnes tons Recovery: 112 ounces 22 ounces 4,575 pounds 3,483 grams Silver: Gold: Copper: 684 grams 2,075 kilograms

MINFILE NUMBER: 103P 085

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Comments:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 103P 088 NAME: SILVERADO STATUS: Past Producer Production **Tonnes Kilograms Tonnes Grams** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1927 13 13 Silver 47,611 **SUMMARY TOTALS: 103P 088** NAME: SILVERADO Metric **Imperial** 14 tons 14 tons Mined: 13 tonnes 13 tonnes Milled: Recovery: Silver: 47,611 grams 1,531 ounces

> 1927: Combines silver with minor gold & lead-Annual Report 1927

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 089 NAME: PORTER-IDAHO STATUS: Past Producer **Kilograms** Production **Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 22,647 22 1981 22 Silver 201 Gold Copper 53 509 Lead Zinc 332 25 25 Silver 1950 230,722 62 Gold 5,243 Lead 4,729 Zinc 1947 18 18 Silver 53,186 Gold 1,645 1,265 Lead Zinc 1939 864 864 Silver 379,332 Gold 467 Copper 871 7,502 Lead 1938 1,390 1,390 Silver 617,301 Gold 746 1.394 Copper 10,310 Lead 1932 75 75 Silver 518,145 Gold 498 Copper 654 Lead 14,543 1931 3,088 3,088 Silver 7,955,090 4,883 Gold Copper 7,387 Ľead 204,411 1930 19.759 19,759 Silver 53.612.614 Gold 13,748 14,920 Copper 961,644 Lead 3,413,274 1929 1,437 1,437 Silver Gold 995 1,591 Copper 37,710 Lead 1927 126 126 Silver 2,111,178 Gold 4,199 Copper 87 48,235 Lead 1926 184 184 Silver 2,690,005 560 Gold 62,196 Lead Zinc 2.753 1925 163 163 Silver 722,088 Gold 404 Copper 22 14,045 Ľėad 1924 133 133 Silver 1,041,391 Gold Lead 16,556 1922 6 6 Silver 65,005 Copper 306 SUMMARY TOTALS: 103P 089 NAME: PORTER-IDAHO **Imperial** 27,290 tonnes 27,290 tonnes 30,082 tons 30,082 tons Mined: Milled: Recovery: 73,431,978 grams 27,074 grams 27,285 kilograms Silver: 2,360,889 ounces Gold: 870 ounces 60,153 pounds 3,052,407 pounds 20,016 pounds Copper: 1,384,549 kilograms 9,079 kilograms Lead: Zinc:

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	103P 090		NAME:	<b>MELVIN</b>			STATUS: Past Producer
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1929	)	4			Silver	24,136	
SUMMARY TOTAL	<u>-S</u> : 103P 090		NAME: <u>Metric</u>	MELVIN	<u>Imperial</u>		
Recovery:	Mined: Milled:		4	tonnes tonnes	4	tons tons	
Necovery.	Silver:		24,136	grams	776	ounces	

MINFILE NUMBER: 103P 090

Comments:

MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 098 NAME: **NORTH FORK** STATUS: Developed Prospect Production **Tonnes** Grams Kilograms **Tonnes** Commodity <u>Mined</u> Milled Recovered Recovered <u>Year</u> 1924 7 Silver 27,993 907 Lead 1919 2 Silver 6,856 400 Lead Zinc 400 SUMMARY TOTALS: 103P 098 NAME: **NORTH FORK Metric Imperial** Mined: 10 tons 9 tonnes Milled: tonnes tons Recovery: 34,849 grams 1,307 kilograms 400 kilograms 1,120 ounces 2,881 pounds 882 pounds Silver: Lead: Zinc:

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103P 100		NAME:	GOLD DROP			STATUS: Past Producer
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	
1936		1			Silver Gold Copper Lead	218 187	
SUMMARY TOTALS	<u>S</u> : 103P 100		NAME:	GOLD DROP			
			Metric		<u>Imperial</u>		
Recovery:	Mined: Milled:		1	tonnes tonnes	1	tons tons	
noovery.	Silver: Gold: Copper: Lead:		187 3	grams grams kilograms kilograms	6 7	ounces ounces pounds pounds	

MINFILE NUMBER: 103P 100

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MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER: 103P 111 NAME: TIDEWATER STATUS: Past Producer Production Tonnes Tonnes Grams Kilograms

IndicationTonnesTonnesGramsKilogramsYearMinedMilledCommodityRecoveredRecovered19161Molybdenum3,540

SUMMARY TOTALS: 103P 111 NAME: TIDEWATER

Metric Imperial

Mined: 1 tonnes 1 tons Milled: tonnes tons

Recovery:

Molybdenum: 3,540 kilograms 7,804 pounds

Comments: 1916: Quantity uncertain-equals 5907 kg of molybdenite(Bull. 9, pg. 65)

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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MINFILE NUMBER:	103P 112		NAME:	MACY			STATUS: Past Producer
Production <u>Year</u>		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1920		4,257			Silica		4,256,511
1917		17,963			Silica		17,963,164
1916		591			Silica		590,577
SUMMARY TOTALS	S: 103P 112		NAME:	MACY			
			Metric		<u>Imperial</u>		
Recovery:	Mined: Milled:		22,811	tonnes tonnes	25,145	tons tons	
Necovery.	Silica:		22,810,252	kilograms	50,287,983	pounds	

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103P 120		NAME:	<b>KITSAULT</b>		S <sup>-</sup>	ΓATUS: Past Producer
Productio <u>Ye</u> a		Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
198	32	6,816,600	2,228,831		Molybdenum		2,556,679
198	31	8,259,450	1,840,717		Molybdenum		548,929
197	<b>'</b> 2	996,422	473,208		Molybdenum		762,043
197	<b>'</b> 1	4,488,088	2,246,336		Molybdenum		2,177,404
197	0	6,230,662	2,443,242		Molybdenum		2,661,384
196	69	5,240,818	2,137,782		Molybdenum		2,595,907
196	88	6,155,958	1,948,617		Molybdenum		2,263,283
196	<b>57</b>	154,952	80,484		Molybdenum		7,370
SUMMARY TOTA	LS: 103P 120		NAME:	KITSAULT			
			<u>Metric</u>		<u>Imperial</u>		
Dagayanu	Mine Mille		38,342,950 13,399,217		42,265,867 14,770,108		
Recovery:	Molybdenum	r:	13,572,999	kilograms	29,923,332	pounds	

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## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 125 NAME: WOLF STATUS: Past Producer Production **Tonnes Kilograms Tonnes Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1953 5 Silver 14,338 Gold 31 Copper Lead 3 54 67,151 124 1927 25 Silver Gold 70 Copper 1925 15 Silver 72,408 Gold 93 294 Lead 329 Zinc SUMMARY TOTALS: 103P 125 NAME: WOLF Metric <u>Imperial</u> Mined: 45 tonnes 50 tons Milled: tonnes tons Recovery: 153,897 grams 4,948 ounces Silver: 248 grams 73 kilograms Gold: 8 ounces 161 pounds 767 pounds 725 pounds Copper: Lead: 348 kilograms 329 kilograms Zinc:

MINFILE NUMBER: 103P 125

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### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 126 NAME: ESPERANZA STATUS: Past Producer **Production Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> <u>Milled</u> Recovered 1948 31 53,031 Silver Gold 311 Copper 35 60 Lead 1938 4 Silver 16,267 31 Gold 634,781 1937 2,014 Silver Gold 1,866 Copper 232 2,004 Ľėad 1936 1,481 Silver 616,026 Gold 1,369 Copper 253 2,037 Lead 1927 56 Silver 211,314 Gold 373 318 Lead Silver 1926 136 187,784 Gold 307 262 Lead 1925 142 Silver 264,749 Gold 342 Copper 57 Lead 590 1924 210 Silver 544,334 871 Gold Copper 197 151 Lead 1923 128 Silver 345,461 Gold Copper 233 290 Lead 1922 210 Silver 377,217 Gold 684 Copper 183 Lead 583 1920 16 Silver 117,818 Gold 124 1918 12 Silver 83,978 316,318 311 77 1917 Silver Gold 642,277 1916 88 Silver Gold 871 227,736 218 1911 56 Silver Gold NAME: ESPERANZA SUMMARY TOTALS: 103P 126 **Metric Imperial** Mined: 4,661 tonnes 5,138 tons Milled: tonnes tons Recovery: 149,150 ounces 267 ounces 2,624 pounds Silver: 4,639,091 grams Gold: 8,300 grams Copper: 1,190 kilograms 6,295 kilograms 13,878 pounds Lead:

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### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 129 NAME: MONTANA (L.4974) STATUS: Past Producer Production **Tonnes Kilograms Tonnes** Grams <u>Mined</u> Milled Commodity Recovered Recovered <u>Year</u> 1930 4 Silver 25,162 Copper Lead 10 161 1915 15 Silver 68,084 Gold 62 Lead 2.247 2,964 Zinc 1913 5 Silver 52,564 Gold 93 985 Lead SUMMARY TOTALS: 103P 129 NAME: MONTANA (L.4974) **Metric** <u>Imperial</u> Mined: 24 tonnes 26 tons Milled: tonnes tons Recovery: 145,810 grams 155 grams 10 kilograms 4,688 ounces 5 ounces 22 pounds Silver: Gold: Copper: 3,393 kilograms 2,964 kilograms Lead: Zinc: 7,480 pounds 6,534 pounds Comments: Operated by Marmot Metals Mining Co. Ltd. Operated by G. Bruggy & H.C. Magee. 1930: 1913:

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Production

MINFILE NUMBER:

Recovery:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION PAGE: 84 REPORT: RGEN0200 NAME: ILLY STATUS: Past Producer **Tonnes** Kilograms **Grams** Commodity Recovered Milled Recovered Silver 105,626 Gold Lead 31 3,571 NAME: ILLY **Metric Imperial** 

SUMMARY TOTALS: 103P 141

<u>Year</u>

1923

103P 141

Tonnes

<u>Mined</u>

33

Mined: 33 tonnes 36 tons Milled: tonnes tons 105,626 grams 31 grams 3,571 kilograms 3,396 ounces 1 ounces 7,873 pounds Silver: Gold: Lead:

MINFILE NUMBER: 103P 141

# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER:	103P 170	NAME:	LA ROSE			STATUS: Past Producer
Production <u>Year</u>	Tonnes <u>Mined</u>	Tonnes <u>Milled</u>		Commodity	Grams <u>Recovered</u>	Kilograms <u>Recovered</u>
1927	4			Silver Gold Lead	25,131 31	167
1926	38			Silver Gold Lead Zinc	232,806 311	1,183 1,622
1919	20			Silver Gold Lead	191,501 93	638
1918	10			Silver Gold	47,992 31	
SUMMARY TOTALS	<u>5</u> : 103P 170	NAME: <u>Metric</u>	LA ROSE	<u>Imperial</u>		
Dagayanu	Mined: Milled:	72	tonnes tonnes	79	tons tons	
Recovery:	Silver: Gold: Lead: Zinc:	1,988	grams grams kilograms kilograms	15 4,383	ounces ounces pounds pounds	

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### MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 188 NAME: **DOLLY VARDEN** STATUS: Past Producer **Production Tonnes Kilograms Tonnes** Grams <u>Mined</u> Milled Commodity Recovered <u>Year</u> Recovered 1940 Silver 14,929 1 1 1939 15 15 Silver 147,117 Copper 15 12 Lead 1938 14 14 Silver 438,615 Copper Ľėad 68 1937 173 173 Silver 1,055,014 Gold Copper 162 Lead 849 1935 10 10 Silver 322,756 1,700 1,700 1921 Silver 1,419,790 1920 25,435 25,435 Silver 25,866,437 1919 6,086 6,086 Silver 13,186,179 **SUMMARY TOTALS: 103P 188** NAME: **DOLLY VARDEN** <u>Metric</u> <u>Imperial</u> 33,434 tonnes 33,434 tonnes 36,855 tons 36,855 tons Mined: Milled: Recovery: 42,450,837 grams 31 grams 191 kilograms 1,364,824 ounces 1 ounces Silver: Gold: Copper: 421 pounds Lead: 929 kilograms 2,048 pounds

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# MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

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Recovered

MINFILE NUMBER:	103P 189		NAME:	<b>NORTH STAR</b>	STATI	JS: Past Producer
Production		Tonnes	Tonnes		Grams	Kilograms

Commodity <u>Year</u> <u>Mined</u> Milled Recovered 1921 77 77 Silver 58,163 1919 24 24 Silver 30,108

SUMMARY TOTALS: 103P 189 NAME: NORTH STAR

Metric **Imperial** Mined: 101 tonnes 111 tons Milled: 101 tonnes 111 tons

Recovery: Silver: 88,271 grams 2,838 ounces

### MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH

ENERGY AND MINERALS DIVISION

MINFILE NUMBER: 103P 191 STATUS: Past Producer NAME: TORBRIT Production **Kilograms Tonnes Tonnes** Grams Commodity Recovered <u>Year</u> <u>Mined</u> Milled Recovered 1959 84,891 84,891 Silver 26,457,052 404,436 Lead 1958 123,279 123,279 Silver 41,400,830 Lead 683,492 1957 140,086 140,086 Silver 52,071,585 Lead 664,993 1956 122,154 122,154 Silver 48,596,478 Lead 476,894 Silver 1955 137,767 137,767 56,594,801 512,027 Lead 1954 136,290 136,290 Silver 64,183,840 Gold 404 441,009 Lead 5,803 Zinc 1953 65,192 Silver 36,600,735 65,192 Gold 404 235,429 Lead Zinc 45,368 1952 123,160 123,160 Silver 72,987,886 Gold 1,182 Lead 460,412 Zinc 75,756 1951 108,599 108,599 Silver 63,798,163 Gold 378,033 Lead Zinc 55,607 1950 118,196 118,196 Silver 71,326,582 Gold 684 455,492 Lead Zinc 86,569 44,941,502 1949 90,328 90,328 Silver Gold 141,390 13,934 Lead Zinc 1929 48 Silver 352,241 4,129 Lead 1928 1,397 Silver 1,397 644,299 10,587 Lead SUMMARY TOTALS: 103P 191 NAME: **TORBRIT** Metric <u>Imperial</u> 1,251,339 tonnes 1,251,387 tonnes 1,379,365 tons 1,379,418 tons Mined: Milled: Recovery: 579,955,994 grams 3,452 grams 4,868,323 kilograms 18,645,991 ounces 111 ounces Silver: Gold: 10,732,812 pounds Lead: Zinc: 283,037 kilograms 623,990 pounds Comments: 1929:

Concentrates.

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Recovery:

Lead: Zinc:

MINFILE PRODUCTION REPORT GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION PAGE: 89 REPORT: RGEN0200 MINFILE NUMBER: 103P 224 NAME: BLUE GROUSE STATUS: Past Producer Production **Tonnes Tonnes** Kilograms **Grams** Commodity Recovered <u>Mined</u> Milled Recovered <u>Year</u> 1973 Silver 18,102 Lead Zinc 1,084 561 7 Silver 1968 27,277 850 1,630 Lead Zinc SUMMARY TOTALS: 103P 224 NAME: BLUE GROUSE Metric **Imperial** Mined: 11 tonnes 12 tons Milled: tonnes tons 45,379 grams 1,934 kilograms 2,191 kilograms 1,459 ounces 4,264 pounds 4,830 pounds Silver:

Production

<u>Year</u>

1924

1923

1922

1921

1920

MINFILE NUMBER:

## MINFILE PRODUCTION REPORT

GEOLOGICAL SURVEY BRANCH ENERGY AND MINERALS DIVISION

PAGE: 90 REPORT: RGEN0200 NAME: RAMBLER STATUS: Past Producer **Tonnes Kilograms Grams** Commodity Recovered Milled Recovered Silica 15,247,053 23,214,584 Silica Silica 16,127,022 Silica 20,659,317 Silica 32,464,511 NAME: RAMBLER **Metric Imperial** 

32,464 **SUMMARY TOTALS: 103P 226** 

**Tonnes** 

<u>Mined</u>

15,247

23,215

16,127

20,659

103P 226

Mined: 107,712 tonnes 118,732 tons Milled:

Recovery: Silica: 107,712,487 kilograms 237,465,319 pounds