BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1996/1997
REPORT #:	PAP 96-52
NAME:	DAVID KENNEDY

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations, section 15, 16 and 17.**
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (*see* section 16) required with this TECHNICAL REPORT.

Name David R. Kennedy Reference Number 96 197 P113

LOCATION/COMMODITIES

Project Area (as listed in Part A) Delta West Project Area MINFILE No. if applicable —

Location of Project Area NTS 104 A / 12 Lat 56° 36' Long 129° 38'

Description of Location and Access The Delta West Project is situated west of Delta Peak in the Skeena Mining Division, about 80km northeast of Stewart, B.C. Access is via Highway 37, which crosses the project area and via clear cuts and lumber roads

Main Commodities Searched For Gold, Copper

Known Mineral Occurrences in Project Area NONE

WORK PERFORMED

1. Conventional Prospecting (area)
2. Geological Mapping (hectares/scale) ± 4,000 ha reconnaissance at 1:10,000
3. Geochemical (type and no. of samples) stream sediment samples 52, rock chip 58
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no,. holes, size, depth in m, total m)
7. Other (specify) claim staking 11 mineral claims — 208 units

SIGNIFICANT RESULTS

Commodities gold, zinc, barium anomalies Claim Name FOK 33

Location (show on map) Lat 56° 38' Long 129° [illegible]' Elevation Map 4 Rpt.

Best assay/sample type FS08 (stream sediment 35 ppb Au, 122 ppm Zn, 35 ppm Cu, <0.2 ppm Ag, 0.5 ppm Cd, 40 ppm Ba

Description of mineralization, host rocks, anomalies The only stream sediment samples with significant gold were found flanking a linear zinc/barium soil anomally. Higher zinc, sometimes with elevated barium cluster in the northwest corner of the property. A multi element (Zn/Ba) signature is discernable in stream sediment samples, none is noted in the rock chip sampling. Mapping indicated Bowser Lake sediments on the west side of the property and Hazelton Group volcanics to the east and in "windows" within the the Bowser sediments.

Supporting data must be submitted with this TECHNICAL REPORT

REPORT ON THE 1996 DELTA WEST PROJECT.

DELTA PEAK AREA:

STAKING, STREAM GEOCHEMISTRY, ROCK GEOCHEMISTRY, & GEOLOGY

SKEENA MINING DIVISION

NORTHWESTERN BRITISH COLUMBIA

FOX 30-40 CLAIMS

LATITUDE 56° 37'NORTH

LONGITUDE 129° 39'WEST

NTS 104 A/12

BY

DAVID R. KENNEDY

NOVEMBER, 1996

SUMMARY:

DELTA WEST PROJECT

The Delta West Project was carried out partially in June, July, August, and September, 1996 as weather and field conditions permitted with compilation and report writing in October and November, 1996. The work comprised claim staking (11 mineral claims totalling 208 claim units) and reconnaissance stream sediment sampling (52 samples), reconnaissance rock chip sampling (58 samples) and reconnaissance geological mapping. The project area covers a part of the western margin of the Oweegee Dome which is postulated to be underlain by prospective Hazelton Group rocks.

The project area is located in the Stewart Gold Camp about 75 km north of Meziadin Junction in Northwestern British Columbia. The project area is centred on NTS Map Sheet 104A/12 at latitude 56° 37'N, longitude 129° 39'W and covers approximately 52 square kms.

The field program was carried out in conjunction with the activities of prospecting partner, David E. Molloy (see separate Molloy report). Mr. Molloy assisted in the claim staking and carried out the soil sampling program concurrently with the activities described in this report. An application has been filed to fund the majority of the approximately $10,900 expenditure under the 1996 Prospector's Assistance Program of British Columbia.

The main exploration target was gold and polymetallic mineralization most likely structurally controlled, sulfidized zones associated with hydrothermally altered, pyroclastic and intermediate to felsic intrusive rocks. Relevant models include Marc Zone type mineralization (auriferous pyrite and sphalerite in plunging oreshoots in structurally controlled zones in and in proximity to a porphyritic diorite intrusion) located on Barrick's Red Mountain Property; and, the Silbak-Premier en echelon ore bodies hosted by Unuk River Formation andesites and comagmatic porphyritic dacite sills and dykes and controlled by northwesterly and northeasterly trending structures and their intersections.

The majority of rather sparse outcrops are found along the Stewart-Cassiar Highway (Highway 37) and generally comprise northwest trending, steeply dipping Bowser Lake Group sediments ranging from fine grained black mudstones and siltstones to medium grained, grey sandstones that are often sheared and weakly to strongly liomonitized. Mafic to intermediate volcanic rocks showing

varying degrees of propylitic alteration also occur, most often on the eastern side of the project area that was evaluated.

Stream sediment sampling and rock sampling was carried out mainly along claim lines, the cutting of which was often limited by topography. All of the 52 stream sediment samples collected and all of the 58 rock chip samples collected were submitted to Chemex Labs in Vancouver and subjected to gold analysis (fire assay-AA finish) and 32 element ICP analysis in the hopes of delineating gold bearing drainages and/or areas of anomalous polymetallic mineralization.

Contrary to the postulated prospective gold environment, only 2 of the stream sediment samples returned moderately anomalous values of 35 and 25 ppb gold, while the remainder of the samples returned values of less than 5 ppb gold. Interestingly both values flank Zone 2 polymetallic signatures (one to the west and one to the east) as determined in the soil sampling program carried out by Mr. Molloy. These values are regarded as very significant in view of the high stream velocities encountered during the survey. The author is aware of streams which regularly produce gold anomalies in low water conditions but in which no gold can be detected after high water "flushes out" the drainage.

Zinc, copper, silver, cadmium and barium were determined as potentially useful pathfinder elements in the soil sampling program and were carefully scrutinized to determine if similar patterns existed in the stream sediment and rock chip samples. Zinc values in the stream sediments ranged from 54 to 262 ppm and averaged 148 ppm. Seven values exceeded an arbitrarily selected value of 200 ppm. Copper values ranged from 26 to 86 ppm and averaged 45 ppm. Silver values ranged from less than 0.2 ppm to 0.6 ppm, the majority of the samples returning less than 0.2 ppm Ag. Cadmium values ranged from less than 0.5 to 3 ppm with only two values exceeding 2 ppm. Barium values ranged from 80 to 490 ppm and averaged 244 ppm Ba. In general there is a moderate multi-element signature evident in the stream sediment population.

It is interesting to note that some of the highest zinc values, sometimes associated with elevated barium values, cluster in the north west corner of the property in the general areas of soil anomalies as determined by Mr. Molloy. This is an area of very limited sampling.

Much less exposed bedrock was found than anticipated when the program was planned. Some of the mapping and sampling is based on float samples rather than bedrock as noted in the sample description table. All of the 58 rock samples returned gold values of less than 5 ppb. Zinc values ranged from 22 to 232 ppm and averaged 95 ppm Zn. Only three values exceeded an arbitrarily selected threshold of 150 ppm Zn. Copper values ranged from 3 to 83 ppm with an average of 32 ppm Cu. Silver values in rock ranged from less than 2 ppm to 0.6 ppm Ag. The vast majority of samples returned less than 0.2 ppm Ag. All of the cadmium values were less than 0.5 ppm, save one value of 0.5 ppm Cd. Barium values ranged from 70 to 540 ppm and averaged 187 ppm Ba.

There appears to be virtually no multi-element signature in the rock chip samples while a multi-element signature is discernable in the stream sediment and soil samples. This may in part be due to the sample distribution, the soil samples being taken in a more systematic way while the rock samples depended on the availability of outcrop or float. There is however correlation between higher values of zinc and barium and the location of anomalous zones as determined by the soil sample survey.

The property is deserving of further work including additional soil survey lines, IP and magnetometer surveys to evaluate the current soil anomalies and additional stream and rock chip sampling to evaluate the portions of the property not currently covered.

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

LIST OF MAPS

REPORT ON THE 1996 DELTA WEST PROJECT:

SKEENA MINING DIVISION

NORTHWESTERN BRITISH COLUMBIA

1. INTRODUCTION:

This report describes the results of claim staking (11 mineral claims totalling 208 claim units), reconnaissance stream sediment sampling (52 samples), reconnaissance rock chip sampling (58 samples) and reconnaissance geological mapping carried out over a portion of the Delta West Project. The project area is located on the eastern edge of the Stewart Gold Camp, approximately 80 km northeast of Stewart in northwestern British Columbia (Figure 1). The area is located on part of the western flank of the Oweegee Dome which is postulated to be underlain by prospective Hazelton Group rocks.

The rationale for the program includes the copper and gold mineralization reported on Cominco's Delta 1 and 2 mineral claims located about 3 km east of the Delta west project area (Lee, 1990; Hamilton, 1991; Maps 1A, B); a historical report describing widespread gold and copper values apparently on the Old Claims (Map 1A) located just west of the project area (British Columbia Minister of Mines, 1929); and the presence of favourable Hazelton Group volcanic rocks mapped by the Geological Survey of Canada (Greig, Evenchick, 1993) on the flanks of the Oweegee Dome (Map 3). The Hazelton Group rocks host most of the significant gold deposits in the Stewart Camp and only minor historical exploration has ever been carried out in the Delta West Project Area.

The original project as outlined in the Application for Funding to the Prospector's Assistance Program contemplated the author participating in the claim staking and carrying out geological mapping and rock chip sampling of outcrops. The program was modified with consent from the director of the program: in view of the paucity of outcrops, D. Molloy, the prospecting partner, relinquished the stream sediment sampling portion of the project and this was assumed by the author.

The exploration target on the Delta West Property is gold and polymetallic mineralization most likely associated with structurally controlled, sulfidized zones and volcanogenic massive sulfides. Relevant models include the Marc Zone type mineralization (auriferous pyrite and sphalerite), located on Lac Mineral's Red Mountain property; and the Eskay Creek volcanogenic massive sulfide deposit.

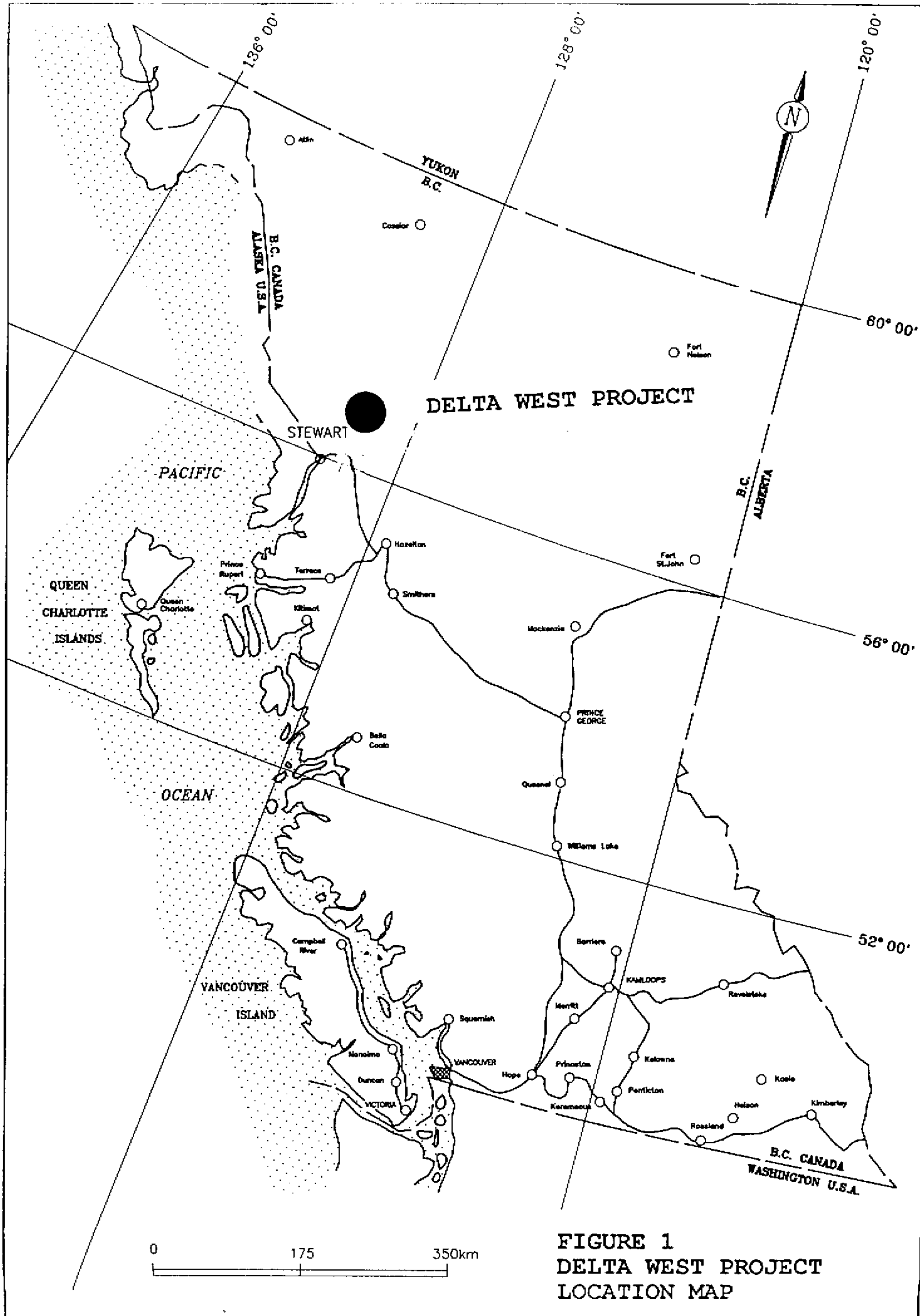


FIGURE 1
DELTA WEST PROJECT
LOCATION MAP

2. LOCATION AND ACCESS:

The Delta West Project is situated in the Delta Peak Area of the Skeena Mining Division at the eastern margin of the Stewart Gold Camp, about 80 km northeast of the town of Stewart, B.C. (Figure 2); and, about 75 km north of Meziadin Junction, B.C. on Highway 37 (Figure 3). The Delta West Project is centred on NTS Map Sheet 104A/12, at latitude 56° 37'N, longitude 129° 39'W (Map 2).

The Stewart-Cassiar Highway (Highway 37) trends generally northwest on the west side of the project area and provides excellent access. Much of the timber in the vicinity of the highway has been clear cut and a number of old lumber roads provide some additional, interior access. Accommodation and fuel can be obtained at Meziadin Junction or at Bell 2 (Figure 3). Gravel pits in close proximity to the highway and to the main streams draining the area provide excellent campsites.

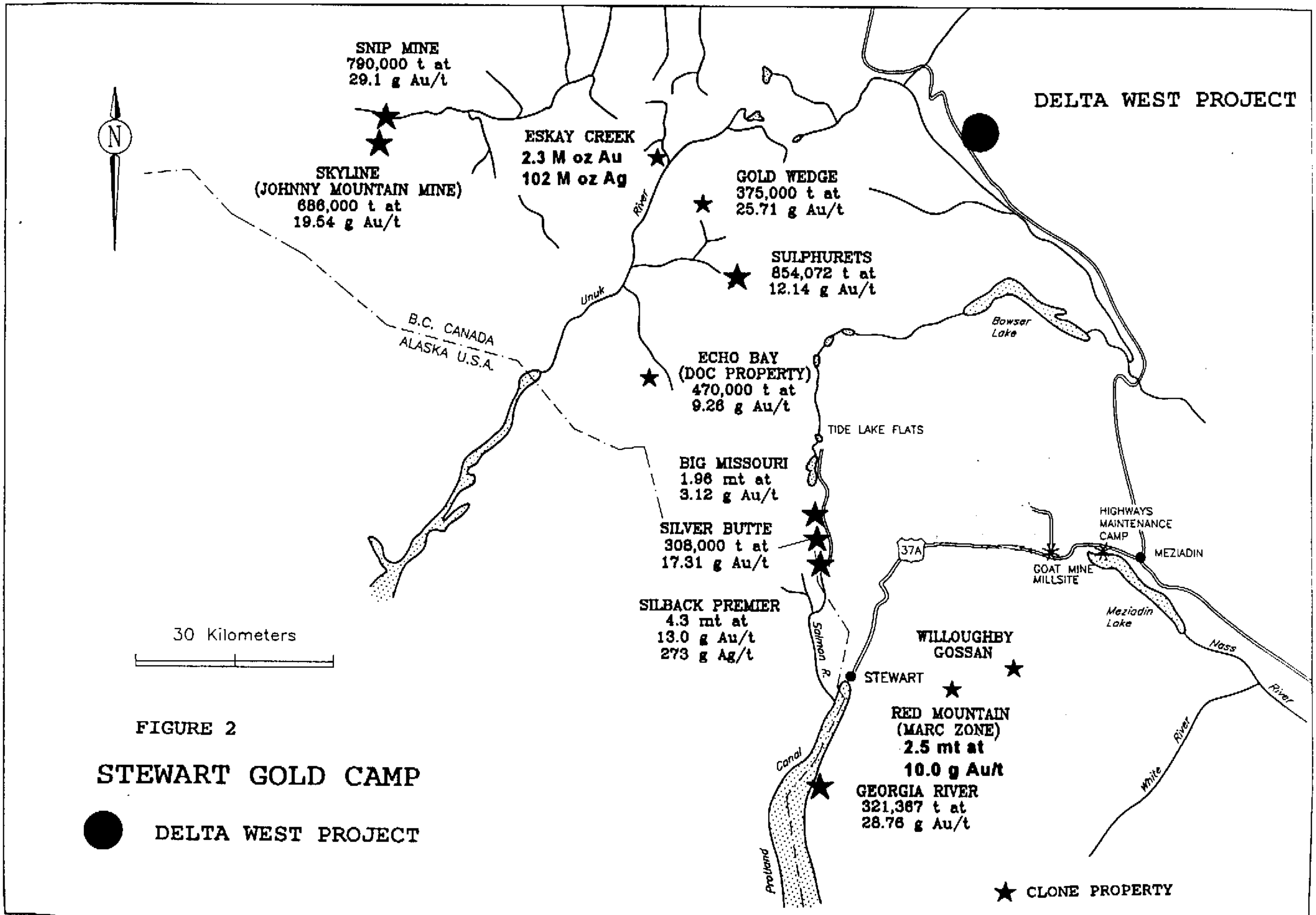


FIGURE 2

STEWART GOLD CAMP

FIGURE 3
DELTA WEST PROJECT
ROAD MAP

SCALE: 1:2,500,000

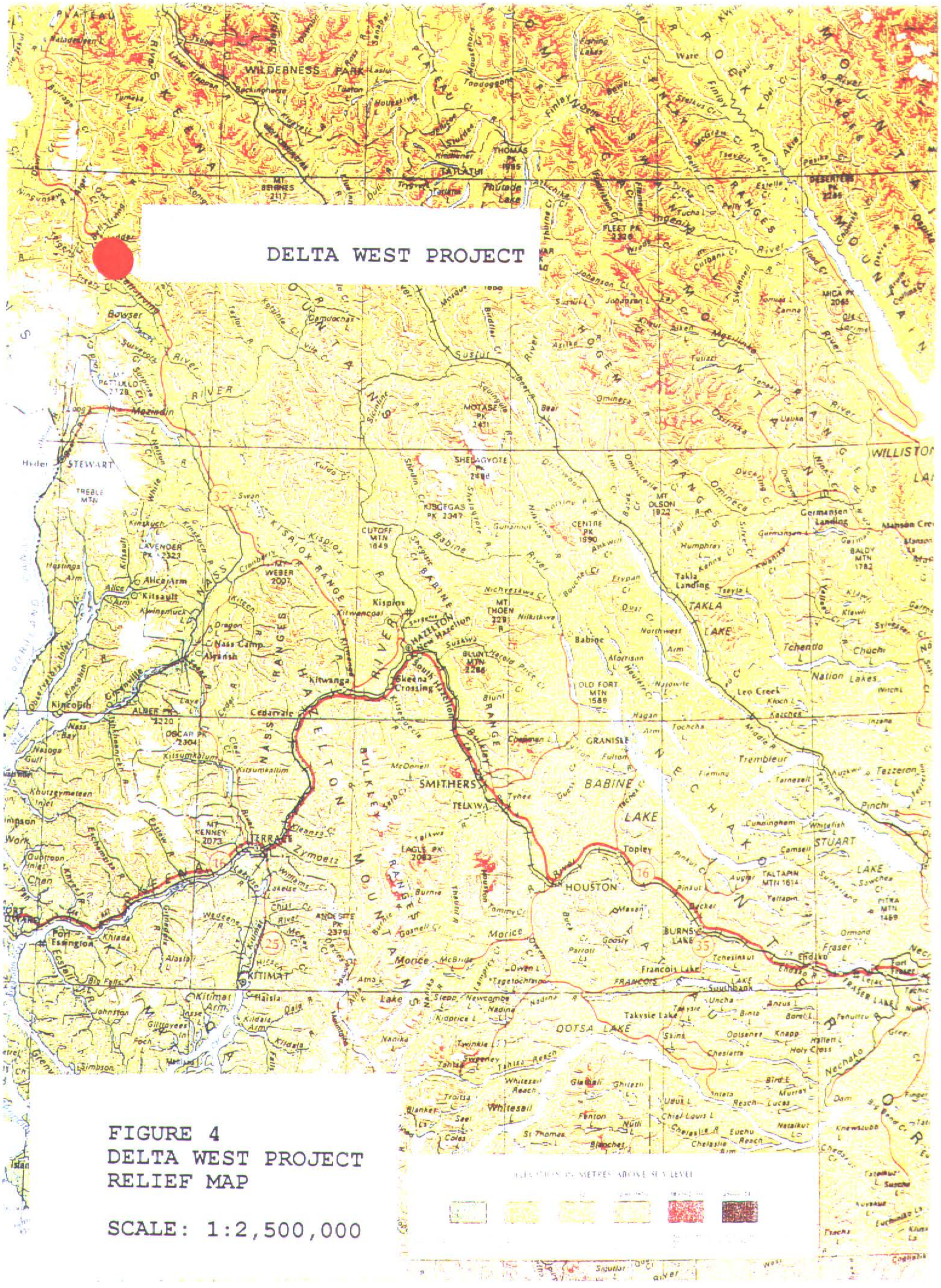


FIGURE 4
DELTA WEST PROJECT
RELIEF MAP

SCALE: 1:2,500,000

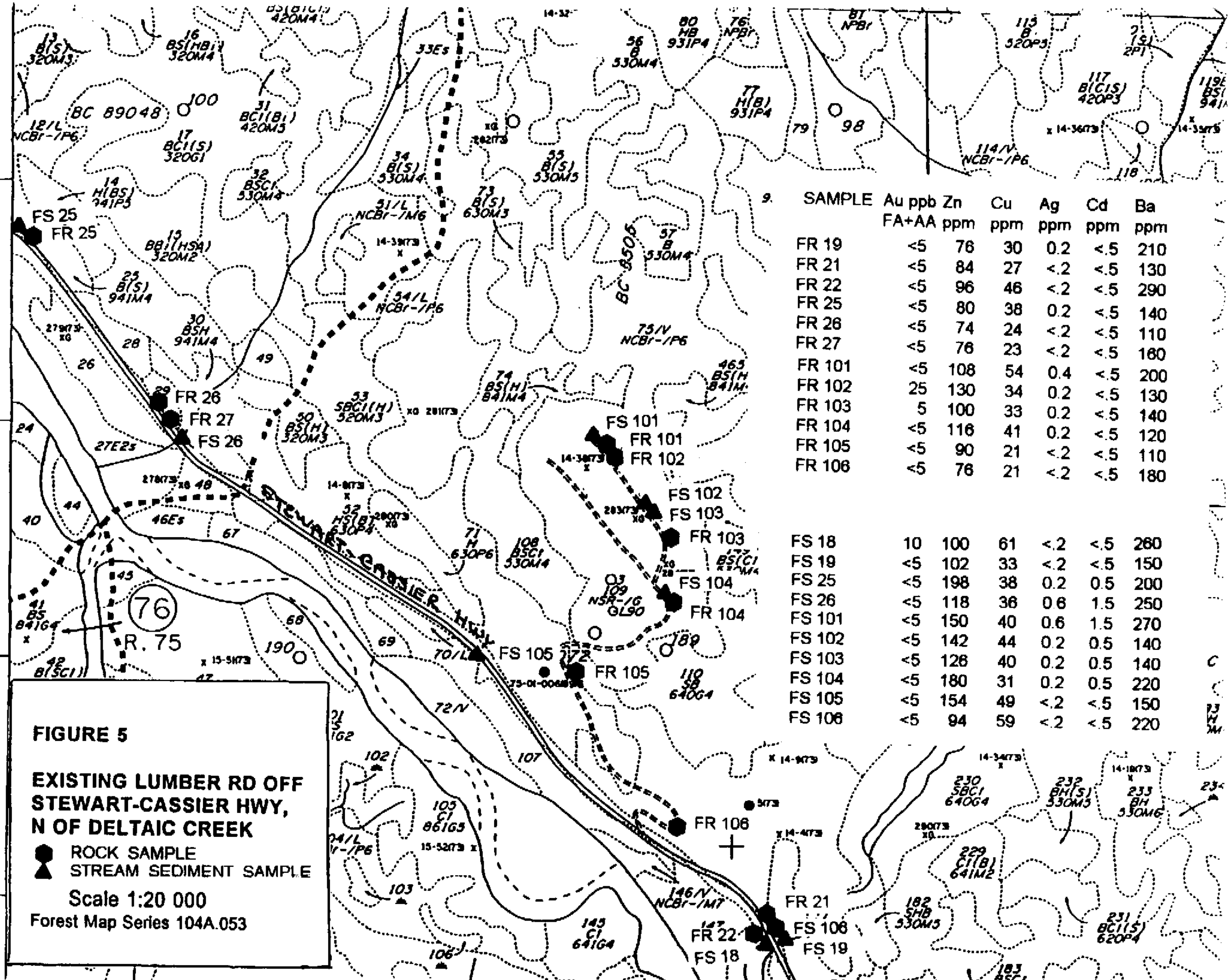
3. TOPOGRAPHY, DRAINAGE, CLIMATE, WILDLIFE & VEGETATION:

The Delta West Project is located within the Boundary Ranges of the northern British Columbia Coast Mountains (Figure 4). The general area is characterized by the Bell-Irving River valley and the fairly rugged mountainous terrain to the east ranging from about 500 to 1600 metres above sea level (Map 2). Delta Peak, to the east of the Project, and Oweegee Peak, 1 km north of Delta Peak, are both over 2200 m in elevation and dominate the topography, both are partially glacier covered. The mountain terrain is incised with young, deep valleys that trend northeast and drain the area to the southwest, generally into the Bell-Irving River that parallels the Stewart-Cassiar Highway (Map 2).

The field exploration season usually extends from June to October. Snowfalls are heavy and can deposit several meters in a 24 hour period. Recorded mean annual snowfalls in the area (Figure 2) range from 520 cm at Stewart (sea level) to 1,500 cm at Bear Pass (460 m elevation) to 2,250 cm at Tide Lake Flats (915 m elevation). In 1996, winter snow cover prevailed in most areas of the Stewart Camp at elevations over 1200 m almost to the end of July. Summers are characterized by long hours of daylight and pleasant temperatures. However, the proximity to the ocean and relatively high mountains make for highly changeable and unpredictable weather. The summer of 1996 was generally characterized by cold temperatures and fog and rain that, along with snow cover, tended to hinder exploration activities in the camp.

Wildlife in the area of the property mainly consists of mountain goats, foxes, grizzly bears, black bears, wolves, marmots, martins, and ptarmigan.

About 90% of the project area is situated below the treeline. Parts of the area immediately to the east and west of the Stewart-Cassiar Highway have been lumbered via clear cutting (Figure 5). Vegetation in the Project Area ranges from coastal rain forest including mature western hemlock, sitka spruce, fir, tag alders and cottonwood, with ferns, devil's club and moss as ground cover, to subalpine spruce thickets with heather and alpine meadows. Above treeline, at approximately 1,300 m, bare rock, talus slopes and glaciers with occasional islands of alpine meadow prevail.



SAMPLE	Au ppb FA+AA	Zn ppm	Cu ppm	Ag ppm	Cd ppm	Ba ppm
FR 19	<5	76	30	0.2	<.5	210
FR 21	<5	84	27	<.2	<.5	130
FR 22	<5	96	46	<.2	<.5	290
FR 25	<5	80	38	0.2	<.5	140
FR 26	<5	74	24	<.2	<.5	110
FR 27	<5	76	23	<.2	<.5	160
FR 101	<5	108	54	0.4	<.5	200
FR 102	25	130	34	0.2	<.5	130
FR 103	5	100	33	0.2	<.5	140
FR 104	<5	116	41	0.2	<.5	120
FR 105	<5	90	21	<.2	<.5	110
FR 106	<5	76	21	<.2	<.5	180
FS 18	10	100	61	<.2	<.5	260
FS 19	<5	102	33	<.2	<.5	150
FS 25	<5	198	38	0.2	0.5	200
FS 26	<5	118	36	0.6	1.5	250
FS 101	<5	150	40	0.6	1.5	270
FS 102	<5	142	44	0.2	0.5	140
FS 103	<5	126	40	0.2	0.5	140
FS 104	<5	180	31	0.2	0.5	220
FS 105	<5	154	49	<.2	<.5	150
FS 106	<5	94	59	<.2	<.5	220

FIGURE 5

EXISTING LUMBER RD OFF STEWART-CASSIER HWY, N OF DELTAIC CREEK

ROCK SAMPLE
STREAM SEDIMENT SAMPLE

Scale 1:20 000

Forest Map Series 104A.053

4. EXPLORATION HISTORY:

The Stewart area was prospected mainly for visible gold in quartz veins at the close of the 19th century but very little of this work was documented.

The Camp, after more recent discoveries that include Snip, Eskay Creek and Red Mountain (Figure 2), continues to be regarded as elephant country in which low cost discoveries can be made. For example, the Red Mountain deposit was discovered in 1989 on the first day of activities and more recent discoveries in the Stewart Camp such as the Teuton/Minvita Clone deposit were made in relatively short periods of time.

Some regional historical activities were reported apparently on the Old claims, in the 1920's. As referenced in the Annual Report of the British Columbia Minister of Mines, 1929, Consolidated Mining and Smelting Company of Canada carried out work on the north side of Treaty Creek about 58 km from the confluence of the Bell-Irving River with the Nass River. According to the Report the company indicates that "the values are scattered over a large mineralized area and appear to be mainly in gold, silver, and copper, although sufficient work has not been done to form a criterion of the possible value of the property".

Indigo Mines funded an Aerodat helicopterborne magnetometer and VLF-EM survey in 1991 that covered the area of Oweegee Dome. Apparently the company was wound up in 1992 and its ground position lapsed. There is no indication that the survey, the magnetic portion of which was useful in outlining Hazelton Formation rocks and structure, was followed-up on the ground.

In the 1990's, Cominco apparently carried out regional geochemical surveys in the area before staking the Delta 1 and 2 mineral claims that cover a large colour anomaly (Lee, 1990; Hamilton, 1991). Cominco initiated reconnaissance surveys in 1990 and 1991 that delineated very anomalous gold and copper values in rock, stream sediment and talus samples. No additional work was recommended and detailed follow-up was never carried out.

Geofine carried out the Phase 1A reconnaissance program on the Fox 1-26 claims surrounding the Delta claims (Molloy, 1993) for Barrick Gold in August 1993. The program focused on the evaluation of colour anomalies hosted by or in the vicinity of prospective geology. Although a number of the gossan zones (Skowill, Porphyry) failed to return encouraging assay results, the Deltaic Zone and surrounding areas are deemed to constitute a high priority gold target.

Based on the positive analytical results obtained from the Geofine and Cominco programs, the Deltaic Zone mineralization was interpreted to trend northeast over an apparent intermittent strike length of 3 km and have an apparent intermittent width of over 1 km. The Deltaic Zone remains open for expansion and detailed evaluation, and had never been drill tested.

As a follow-up to the 1993 Phase 1A program, Geofine carried out a 1993, Phase 1B program that was funded by Barrick Gold (Molloy, 1993A). The program was carried out on the Deltaic Grid on Delta and Fox 15 and 25 claims and comprised IP and magnetometer surveying, as well as soil geochemical surveys completed on grid lines totalling about 7.3 km. The follow-up program successfully delineated a number of weak - strong IP chargeability anomalies with coincident gold and copper geochemical anomalies. The most prominent targets are often haloed by geochemical zinc soil anomalies. The polymetallic geochemical signatures are similar to those that are associated with most gold deposits in the Stewart Camp.

5. REGIONAL GEOLOGY:

The Delta West property is situated on the eastern margin of a broad, north-northwest trending volcanogenic-plutonic belt consisting of the Upper Triassic Stuhini Group and the Upper Triassic to Lower Middle Jurassic Hazelton Group. This belt has been termed the "Stewart Complex" (Figure 6) by Grove (1986) and forms part of the Stikinia Terrane. The Stikinia Terrane together with the Cache Creek and Quesnel Terranes constitute the Intermontane Superterrane which was accreted to North America in Middle Jurassic time (Monger et al 1982). To the west the Stewart Complex is bordered by the Coast Plutonic Complex. Sedimentary rocks of the Middle to Upper Jurassic Bowser Lake Group overlay the Stewart Complex in the east.

The Jurassic stratigraphy was established by Grove (1986) during regional mapping conducted from 1964 to 1968. Formational subdivisions have been and are currently being modified and refined as regional work continues most notably by the Geological Survey Branch of the British Columbia Ministry of Energy Mines and Petroleum Resources (Alldrick 1984, 1985, 1989) and the Geological Survey of Canada (Anderson 1989, Anderson and Thorkelson 1990). The sedimentological, structural, and stratigraphic framework of the area is being established with some degree of precision.

The Hazelton Group represents an evolving (alkalic/cal-alkalic) island arc complex, capped by a thick turbidite succession (Bowser Lake Group; Figure 6). Grove (1986) divided the Hazelton into four litho-stratigraphic units (time intervals defined by Alldrick 1987):

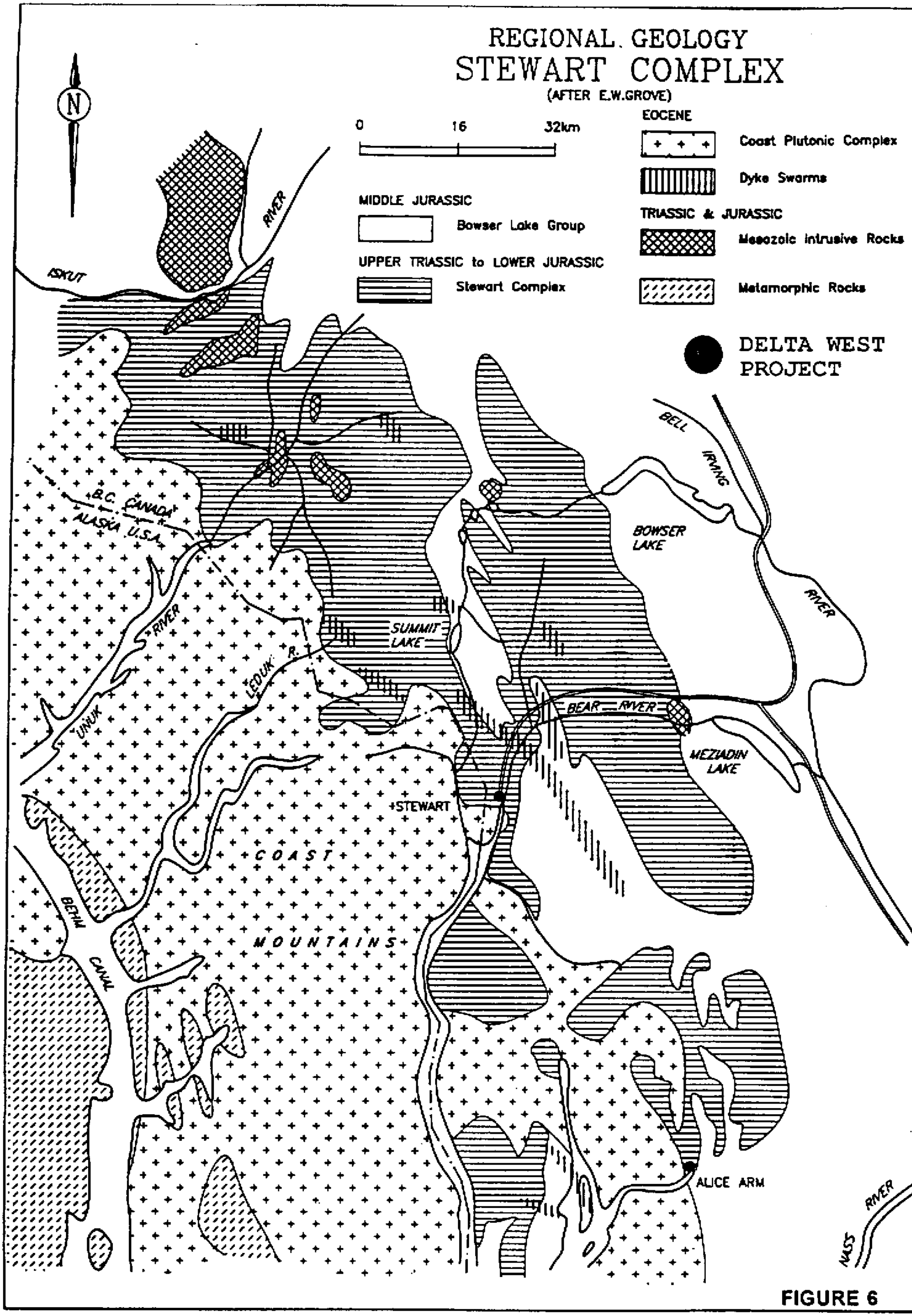

REGIONAL GEOLOGY
STEWART COMPLEX
(AFTER E.W.GROVE)
N
0
16
32km
MIDDLE JURASSIC
Bowser Lake Group
UPPER TRIASSIC to LOWER JURASSIC
Stewart Complex
EOCENE
Coast Plutonic Complex
Dyke Swarms
TRIASSIC & JURASSIC
Mesozoic intrusive Rocks
Metamorphic Rocks
DELTA WEST PROJECT
ISKUT
RIVER
BELL
IRVING
RIVER
BOWSER LAKE
B.C. CANADA
ALASKA U.S.A.
UNUK
RIVER
LEDUK R.
SUMMIT LAKE
BEAR RIVER
MEZIADIN LAKE
STEWART
COAST
MOUNTAINS
BEHM
CANAL
ALICE ARM
NASS
RIVER

FIGURE 6

1. The Upper Triassic to Lower Jurassic Unuk River Formation (Norian to Pliensbachian)
2. The Middle Jurassic Betty Creek Formation (Pliensbachian to Toarcian)
3. The Middle Jurassic Salmon River Formation (Toarcian to Bajocian)
4. The Middle to Upper Jurassic Nass Formation (Bathonian to Oxfordian - Kimmeridigian)

Alldrick assigned formational status (Mt. Dillworth Formation) to a Toarcian rhyolite unit (Monitor Rhyolite) overlying the Betty Creek formation. Rocks of the Salmon River Formation are transitional between the mostly volcanic Hazelton Group and the wholly sedimentary Bowser Lake Group and are presently regarded as the uppermost formation of the Hazelton or the basal formation of the Bowser Lake Group.

The Unuk River Formation, a thick sequence of andesitic flows and tuffs with minor interbedded sedimentary rocks, hosts a number of major gold deposits in the Stewart area (Figure 2). The unit is unconformably overlain by heterogeneous maroon to green, epiclastic volcanic conglomerates, breccias, greywackes and finer grained clastic rocks of the Betty Creek Formation. Felsic tuffs and tuff breccias characterize the Mt. Dillworth Formation (Figure 7A). This formation represents the climactic and penultimate volcanic event of the Hazelton Group volcanism and forms an important regional marker horizon. The overlying Salmon River Formation has been subdivided in the Iskut area into an Upper Lower Jurassic and a Lower Middle Jurassic member (Anderson and Thorkelson 1990). The upper member has been further subdivided into three north trending facies belts: the eastern Troy Ridge facies (starved basin), the medial Eskay Creek facies (back-arc basin) and the western Snippaker Mountain facies (volcanic arc).

Sediments of the Bowser Lake Group rest unconformably on the Hazelton Group rocks. They include shales, argillites, silt and mudstones, greywackes and conglomerates. The contact between the Bowser Lake Group and Hazelton Group passes between Strohn Creek in the north and White River in the south. The contact appears to be a thrust zone with Bowser Lake Group sediment "slices" occurring within and overlying the Hazelton Group pyroclastics to the west.

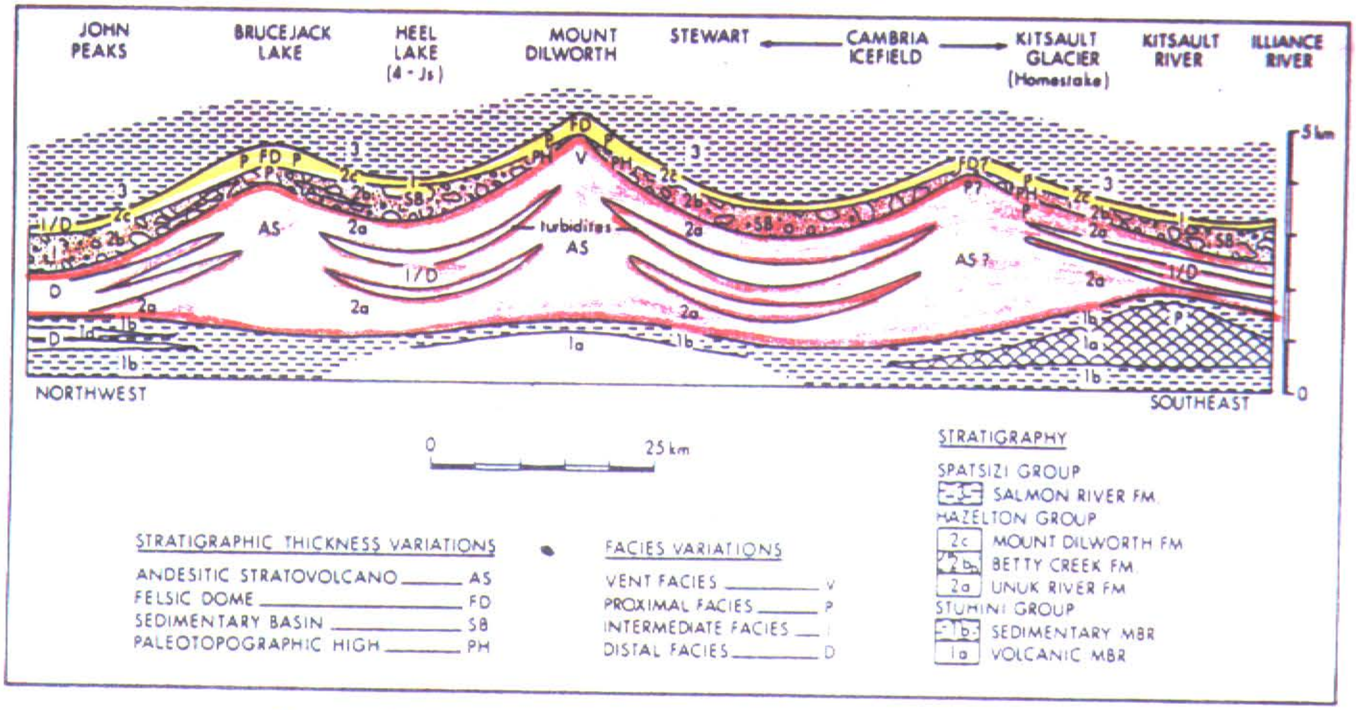


Figure 1-27-4. North-south schematic reconstruction through the Stewart complex.

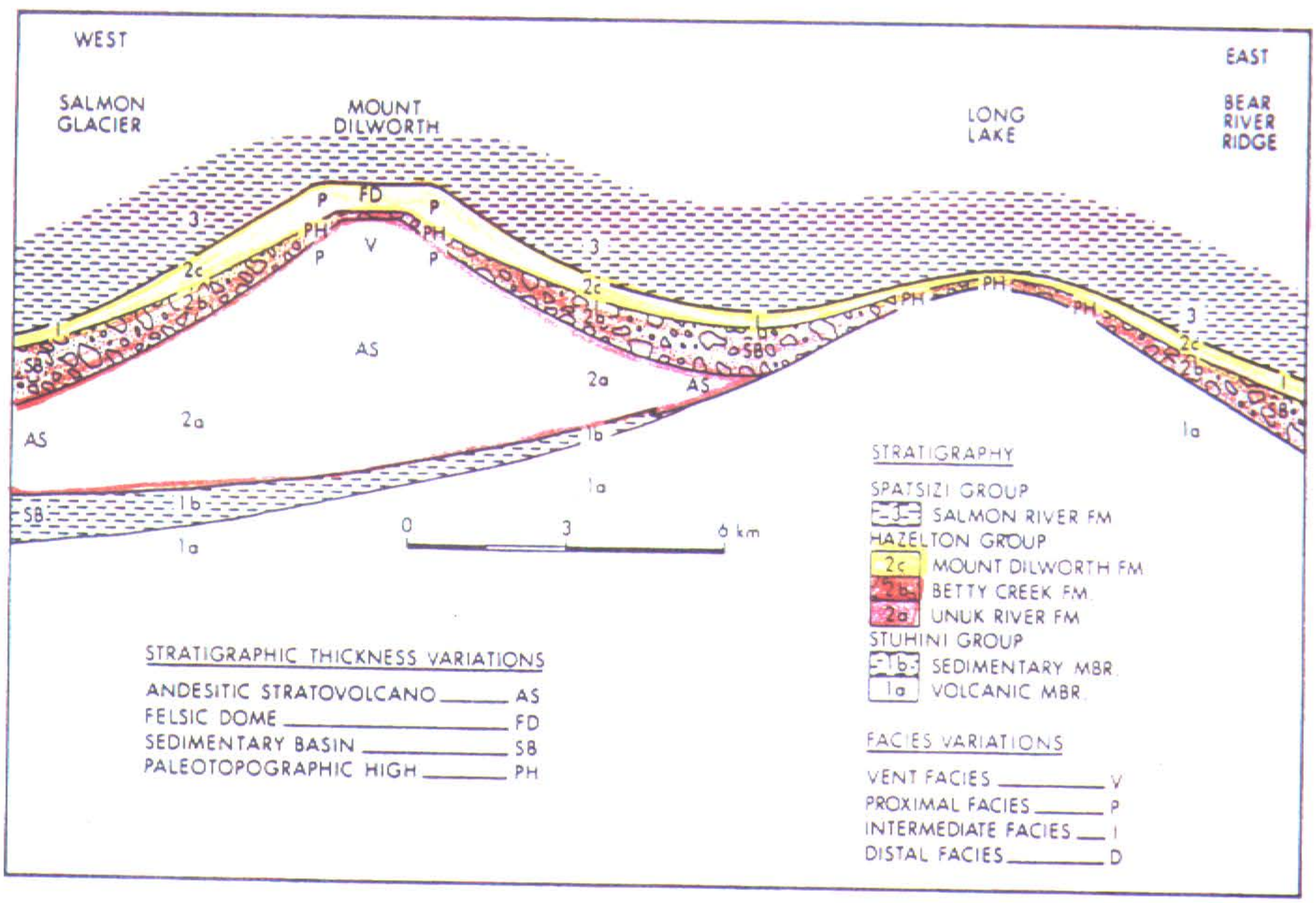


Figure 1-27-5. West-east schematic reconstruction through the Stewart complex.

FIGURE 7A

DILWORTH FORMATION IN STEWART COMPLEX STRATIGRAPHY

Two main intrusive episodes occur in the Stewart area: a Lower Jurassic suite of diorite to granodiorite porphyries (Texas Creek Suite) that are comagmatic with extrusive rocks of the Hazelton Group; and, an Upper Cretaceous to Early Tertiary intrusive complex (Coast Plutonic Complex and satellite intrusions). The early Jurassic suite is characterized by the occurrence of coarse hornblende, orthoclase and plagioclase phenocrysts and locally potassium feldspar megacrysts. The Eocene Hyder quartz-monzonite, comprising a main batholith, several smaller plugs and a widespread dike phase, represents the Coast Plutonic Complex.

Middle Cretaceous regional metamorphism (Alldrick et al. 1987) is predominantly of the lower greenschist facies. This metamorphic event seems to be related to compression and concomitant crustal thickening at the Intermontane - Insular superterrane boundary (Rubin et al. 1990). Biotite hornfels zones are associated with a majority of the quartz monzonite and granodiorite stocks.

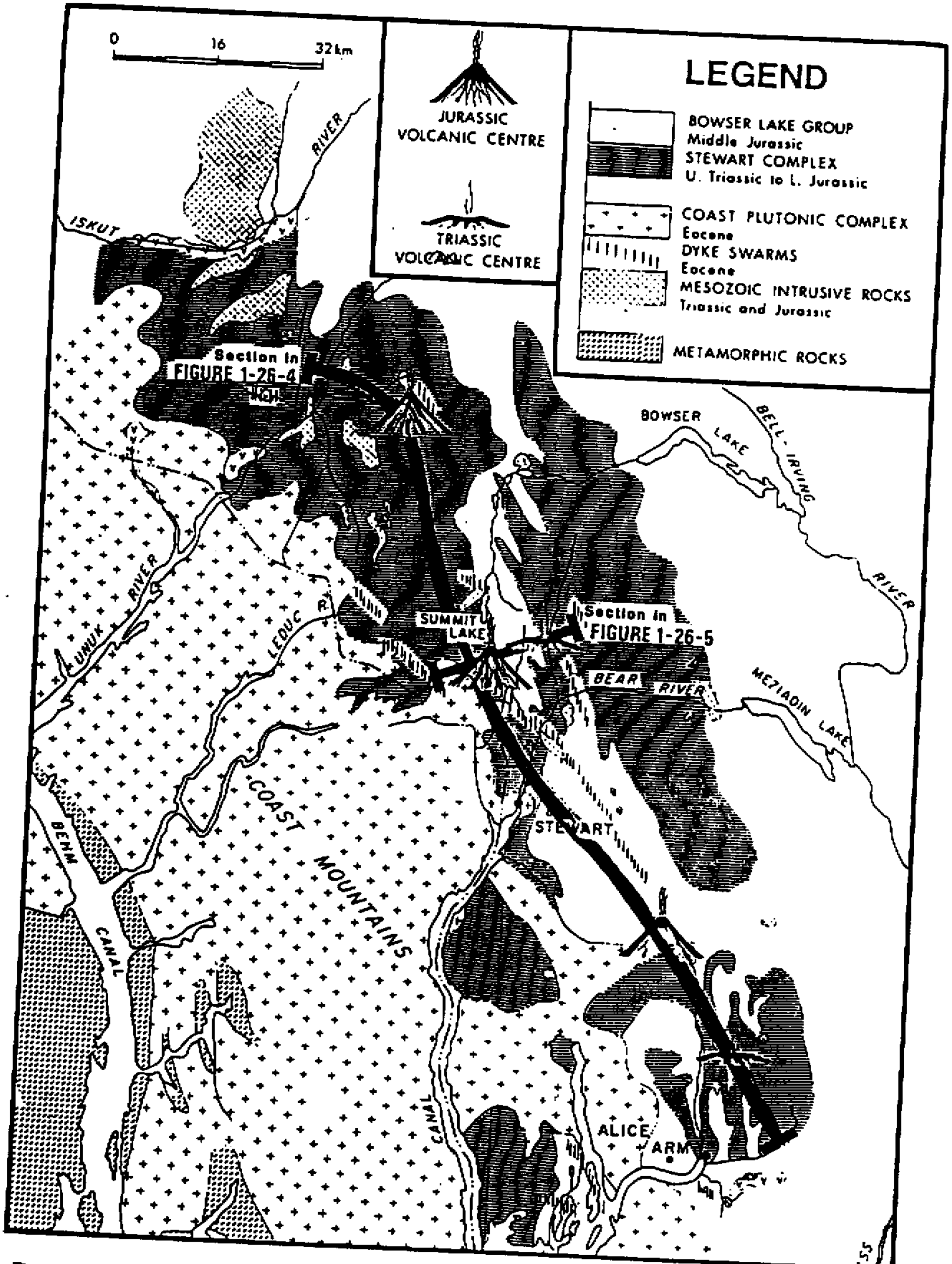
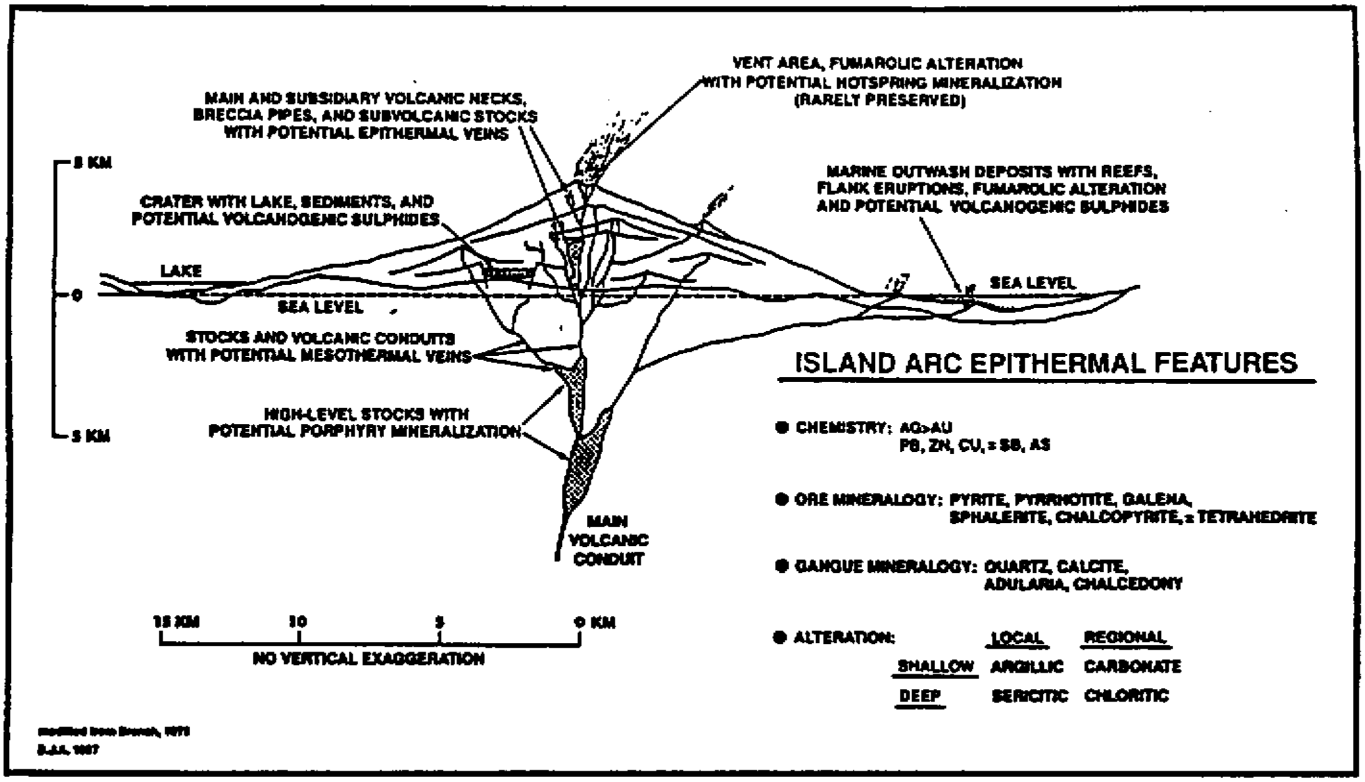


Figure 1-27-3. Distribution of the Stewart complex showing the locations of section lines for Figures 1-27-4 and 1-27-5.

FIGURE 7B

STEWART VOLCANIC BELT



Distribution of ore deposits within a stratovolcano (modified from Branch, 1976).

FIGURE 8

MINERALIZATION TYPES
STEWART CAMP

6. REGIONAL MINERALIZATION AND EXPLORATION ACTIVITIES:

The Stewart Complex is the setting for the Stewart (Silbak-Premier, Silver Butte, Big Missouri, Red Mountain, Clone), Iskut (Snip, Johnny Mountain, Eskay Creek), Sulphurets, and Kitsault (Alice Arm) gold/silver mining camps (Figure 2). Mesothermal to epithermal, depth persistent gold-silver veins form one of the most significant types of economic deposit. There appears to be a spatial as well as a temporal association of gold deposits to Lower Jurassic calc-alkaline intrusions and volcanic centres(Figures 7A, 7B). These intrusions are often characterized by 1-2 cm sized, potassium feldspar megacrysts and correspond to the top of the Unuk River Formation.

The most prominent example of this type of mineralization is the historic Silbak-Premiere gold-silver Mine which has produced 56,000 kg gold and 1,281,400 kg silver in its original lifetime from 1918 to 1976. The mine was reopened by Westmin in 1988 with reserves quoted as 5.9 million tonnes grading 2.16 g Au/t and 80.23 g Ag/t (Randall 1988). Mining was terminated in 1996 but the plant is still used for custom milling.

The ore is hosted by Unuk River Formation andesites and comagmatic Texas Creek porphyritic dacite sills and dykes. The ore bodies comprise a series of en echelon lenses which are developed over a strike length of 1800 metres and through a vertical range of 600 m (Grove 1986, McDonald 1988). The mineralization is controlled by northwesterly and northeasterly trending structures and their intersections but also occurs locally concordant with andesitic flows and breccias.

Two main vein types occur: silica-rich, low-sulfide precious metal veins and sulfide-rich base metal veins. The precious metal veins are more prominent in the upper levels of the deposit and contain polybasite, pyrargyrite, argentiferous tetrahedrite, native silver, electrum, and argentite. Combined sulfides of pyrite, sphalerite, chalcopyrite and galena are generally less than 5%. The base metal veins crosscut the precious metal veins and increase in abundance with depth. They contain 25 to 45% combined pyrite, sphalerite, chalcopyrite and galena with minor amounts of pyrrhotite, argentiferous tetrahedrite, native silver, electrum and arsenopyrite.

Quartz is the main gangue mineral, with lesser amounts of calcite, barite, and some adularia being present. The mineralization is associated with strong silicification, feldspathization, and pyritization. A temperature range of 250 to 260 degrees C has been determined for the deposition of the base and precious metals (McDonald 1990).

Middle Eocene silver-lead-zinc veins are characterized by high silver to gold ratios and by spatial association with molybdenum and/or tungsten occurrences. They are structurally controlled and lie within north, northwest, and east trending faults. This mineralization has been less significant in economic terms.

Porphyry molybdenum deposits are associated with Tertiary Alice Arm Intrusions, a belt of quartz-monzonite intrusions parallel to the eastern margin of the Coast Plutonic Complex. An example of this type of deposit is the B.C. Molybdenum Mine at Lime Creek.

Recent exploration in the Stewart Mining Camp has resulted in the discovery of a number of exciting new deposits. Cominco's Snip Mine commenced production in January of 1991 with reserves of 790,000 tonnes grading 29.1 grams gold per tonne. Production is scheduled at 90,000 ounces per year.

Tenajon Resources Corp. milled 102,500 tonnes with a recovered grade of 8.88 g Au/t. The ore was mined from the Silver Butte property (Figure 2) and processed at Westmin's Premier mill between July 9, 1991 and November 14, 1991 as a joint venture between Tenajon and Westmin.

The Eskay Creek gold-silver mine was constructed in 1994. Proven and probable reserves are currently estimated at about 2 million ounces of gold and 104 million ounces of silver. The mine is producing at a rate of 280 ounces per day with concentrates being trucked to Stewart for shipment to smelters in Japan and Quebec.

The Eskay Creek 21A Deposit is hosted within Contact Unit carbonaceous mudstone and breccia, as well as the underlying rhyolite breccia. Two styles of mineralization are present. The first is a visually striking assemblage of disseminated to near-massive stibnite and realgar within the Contact Unit. The second style occurs in the adjacent footwall rhyolite, and features a stockwork-style quartz-muscovite-chlorite breccia mineralized with sphalerite, tetrahedrite and pyrite. Highest gold and silver values are obtained where the Contact Unit is thickest and the immediately underlying rhyolite breccia is highly fractured and altered. Drilling has outlined a zone approximately 280 m long, up to 100 m wide and of variable thickness but averaging 10 m.

The Eskay Creek 21B Deposit is approximately 900 m long, from 60 to 200 m wide and locally in excess of 40 m thick. Contact Unit mineralization comprises a continuous stratiform sheet of banded high grade gold and silver bearing base metal sulfide layers, from 2 to 12 m thick. Mineralization appears to be bedding-parallel. Sulfide minerals present include sphalerite, tetrahedrite, boulangerite, bornite plus minor galena and pyrite. Gold and silver is associated with electrum, which occurs as abundant grains associated with sphalerite. Peripheral and footwall to the banded sulfide mineralization are areas of microfracture, veinlet hosted, disseminated tetrahedrite, pyrite and minor boulangerite mineralization.

Barrick's Red Mountain (formerly Bond Gold's and Lac Minerals') project (Figure 2) is currently being vigorously explored by Royal Oak. According to the August 5, 1996 Northern Miner, Royal Oak's strategy for 1996 is to expand minable reserves by 500,000 ounces to 1.3 million ounces gold through surface and underground drilling of the down plunge extensions of the deposit. The existing decline is being extended 330 m. The company is looking at putting the deposit into production in the fourth quarter of 1999 at a production rate of 150,000 ounces of gold per year. Cash costs are expected to be in the range of $150 per ounce.

The Marc Zone and its northerly extension the AV Zone occur as irregularly shaped sulfide lenses associated with the brecciated contact of the Goldslide Intrusion. The mineralization consists of densely disseminated to massive pyrite and/or pyrite stringers and veinlets and variable amounts of associated pyrrhotite and sphalerite as well as chalcopyrite, arsenopyrite, galena, tetrahedrite and various tellurides. Several phases of mineralization and deformation are indicated by the presence of different generations of pyrite and breccia fragments consisting of pyrite. High grade gold values are usually associated with the semi-massive, coarse-grained pyrite aggregates, but also with stockwork pyrite stringers and veinlets. Gold occurs as native gold, electrum and as tellurides.

The Willoughby Project (Figure 2) is located about 6 km east of Red Mountain and was initially drilled by Bond Gold in 1989. Seven structurally hosted zones of gold mineralization were intersected with varying amounts of copper, lead and zinc. Camnor and Giant Gold Mines are carrying out a $1.3 M, 1996 program of surface and underground drilling concentrated on the North and Wilby Zones. In 1995, drilling on the North and Wilby Zones had returned up to 2.3 m grading 382.91 g gold/t and, 13 m grading 13.37 g gold/t, respectively. Geochemical sampling has recently located a 150 by 150 m, very strong gold soil anomaly between the North and Wilby Zones that remains open in three directions. The gold mineralization is associated with massive and semi-massive pyrite/pyrrhotite lenses and hosted by Hazelton Group volcaniclastic and intrusive rocks.

On the Clone Property located south of Red Mountain, Teuton Resources and Minvita Enterprises continue their pursuit of two sub-parallel shear zones up to 1.5 km in length that host high grade gold veins and stockworks. To date, the companies have announced the completion of 64 diamond drill holes and 140 trenches. As emphasized by the Teuton/Minvita August 29, 1996 press release, plunging ore shoot morphologies can be difficult exploration targets: "results strongly suggest that the mineralization at Clone occurs in plunging shoots having an unknown size and orientation". Exploration continues with Homestake Canada Inc. and Prime Resources Group Inc. having a first right of refusal on any future financing. The latter companies are also technical advisors to Teuton and Minvita on the Clone Property.

7. DELTA PROJECT AREA GEOLOGY:

The Delta West Project is postulated to cover a tectonic window in which Jurassic Hazelton Group and Paleozoic Stikine Assemblage rocks have been exposed by the uplift of broad anticlinal features known as the Oweegee and Ritchie Domes and by the erosion of Upper Jurassic sediments of the Bowser Basin.

The evolution of geological thinking with regard to the project area is described in the 1993, Phase 1B program report (Molloy, 1993A). This report was filed for assessment credit on the adjoining Fox claims. The results of the Geological Survey of Canada's mapping activities are summarized on Map 3.

As indicated on Map 3, the west margin of the Oweegee Dome is dominated by rocks of the Jurassic Hazelton Group: intermediate to mafic plagioclase-pyroxene lapilli tuff-breccia, lapilli, ash and dust tuffs; intermediate and felsic flows and derived debris flows; tuffaceous arkose, siltstone and mudstone; and, conglomerate and sandstone. The rocks are interpreted to extend west to within 300 m to 1 km of the east side of the Stewart-Cassiar Highway. Further to the west, the Hazelton Group is overlain by the Upper Jurassic Bowser Lake Group sediments including silty mudstones, fine grained sandstone and arkose.

The main components of the structural fabric trend northwest and northeast. Older faults (pre-Bowser Lake Group) according to Greig (1991) are mainly characterized by northwest dips which place Permian limestone on Stuhini Group rocks, and a steeply south dipping fault which juxtaposes the Stuhini Group with Hazelton Group rocks.

8. 1996 DELTA WEST PROJECT:

The field portion of the Delta West Project was carried out partially in June, July, August, and September, 1996 as weather and field conditions allowed. Project expenditures total approximately $10,900 and are summarized in Table 1B along with a description of daily activities (Table 1A). British Columbia Prospector's Assistance funding of approximately $ 7,300 has been allocated to the project.

The Delta West Project as described in this report consisted of 4 main components:

- **A. CLAIM STAKING**
- **B. GEOCHEMICAL STREAM SEDIMENT SURVEY**
- **C. GEOCHEMICAL ROCK CHIP SURVEY**
- **D. GEOLOGICAL MAPPING**

8.A. CLAIM STAKING:

The staking of 11 mineral claims (Fox 30-40) comprising 208 units was the main focus of the first third of the project. The claims are shown on Mineral Titles Map 1A. The claims are summarized in Table 2 and are registered in the name of David R. Kennedy. A Notice of Work (Appendix 1) was granted on July 2, 1996 Approval Number SMI-96-0101533-200).

TABLE 2

LIST OF NEW CLAIMS:

NAME:	TAG:	UNITS:	STAKING DATE:
FOX 30	233413	20	JUNE 21, 1996
FOX 31	233414	20	JUNE 21, 1996
FOX 32	233415	16	JUNE 29, 1996
FOX 33	233416	20	JUNE 24, 1996
FOX 34	233417	20	JUNE 24, 1996
FOX 35	233160	16	JULY 03, 1996
FOX 36	233422	16	JUNE 24, 1996
FOX 37	233403	20	JULY 01, 1996
FOX 38	233402	20	JUNE 30, 1996
FOX 39	233402	20	JUNE 29, 1996
FOX 40	233421	20	JUNE 29, 1996
TOTALS: 11 CLAIMS		208 UNITS	

8.B. GEOCHEMICAL STREAM SEDIMENT SURVEY

Stream sediment sampling was carried out mainly along claim lines, the cutting of which was often limited by topography. All of the 52 stream sediment samples collected were submitted to Chemex Labs in Vancouver and subjected to gold analysis (fire assay-AA finish) and 32 element ICP analysis in the hopes of delineating gold bearing drainages and/or areas of anomalous polymetallic mineralization.

Stream sediment samples were collected along the soil sample lines where ever a drainage was noted. An effort was made to collect fine sediment without organics but this was not always possible. Sample locations and analytical results for the stream sediment samples (FS series) are shown on Map 4 and Figure 5. The extent of sampling was limited by the steep topographical conditions that terminated the running of most of the claim lines. Work was also hampered by the unusual 1996 weather conditions: The persistence of snow accumulations at higher elevations and generally wet weather that resulted in swollen streams (essentially spring run off conditions persisting throughout the summer) and often difficult traverse conditions.

Descriptions of the stream sediment samples are presented as Appendix 2, the certificates of analysis for the stream sediment samples are presented as Appendix 3.

Contrary to the postulated prospective gold environment, only 2 of the stream sediment samples returned moderately anomalous values of 35 and 25 ppb gold, while the remainder of the samples returned values of less than 5 ppb gold. Interestingly both values flank Zone 2 polymetallic signatures (one to the west and one to the east) as determined in the soil sampling program carried out by Mr. Molloy. These values are regarded as very significant in view of the high stream velocities encountered during the survey. The author is aware of streams which regularly produce gold anomalies in low water conditions but in which no gold can be detected after high water "flushes out" the drainage.

Zinc, copper, silver, cadmium and barium were determined as potentially useful pathfinder elements in the soil sampling program and were carefully scrutinized to determine if similar patterns existed in the stream sediment and rock chip samples. Zinc values in the stream sediments ranged from 54 to 262 ppm and averaged 148 ppm. Seven values exceeded an arbitrarily selected value of 200 ppm. Copper values ranged from 26 to 86 ppm and averaged 45 ppm. Silver values ranged from less than 0.2 ppm to 0.6 ppm, the majority of the samples returning less than 0.2 ppm Ag. Cadmium values ranged from less than 0.5 to 3 ppm with only two values exceeding 2 ppm. Barium values ranged from 80 to 490 ppm and averaged 244 ppm Ba. In general there is a moderate multi-element signature evident in the stream sediment population.

It is interesting to note that some of the highest zinc values, sometimes associated with elevated barium values, cluster in the north west corner of the property in the general areas of Zone 5 and Zone 3 soil anomalies. This is an area of very limited sampling.

The area around Zone 2 soil anomaly has virtually no zinc signature in stream sediment samples but it does have an association with some of the highest barium values found in the streams. Mapping in this general area revealed the presence of volcanic rocks as opposed to the more prevalent sediments.

Stream sampling on the south east portion of the property produced a cluster of streams with elevated zinc and generally moderately elevated barium. This cluster also includes the highest rock barium value of 540 ppm. There is a good correlation with the location of the Zone 4 soil geochemical anomaly.

8.C. GEOCHEMICAL ROCK CHIP SURVEY

Rock chip sampling was carried out mainly along claim lines, the cutting of which was often limited by topography. All of the 58 rock chip samples collected were submitted to Chemex Labs in Vancouver and subjected to gold analysis (fire assay-AA finish) and 32 element ICP analysis in the hopes of delineating gold bearing outcrops and/or areas of anomalous polymetallic mineralization. The results of the survey are displayed in Map 4 and Figure 5.

Much less exposed bedrock was found than anticipated when the program was planned. Some of the mapping and sampling is based on float samples rather than bedrock as noted in the sample description table (Appendix 4). All of the 58 rock samples returned gold values of less than 5 ppb with the exception of sample FR 102 which ran 25 ppb gold. This sample was taken along an old lumber road on the southern portion of the project area (Figure 5).

Zinc values ranged from 22 to 232 ppm and averaged 95 ppm Zn. Only three values exceeded an arbitrarily selected threshold of 150 ppm Zn. Copper values ranged from 3 to 83 ppm with an average of 32 ppm Cu. Silver values in rock ranged from less than 2 ppm to 0.6 ppm Ag. The vast majority of samples returned less than 0.2 ppm Ag. All of the cadmium values were less than 0.5 ppm, save one value of 0.5 ppm Cd. Barium values ranged from 70 to 540 ppm and averaged 187 ppm Ba.

The two highest zinc values (230 and 232 ppm respectively) occur in outcrops located on the Stewart Cassiar highway. Barium values, though reaching a maximum of 540 ppm Ba, do not correlate with the higher zinc values and no multi-element signatures are apparent.

The 540 ppm barium value is situated precisely on the Zone 4 soil geochemical anomaly. Zone 2 as interpreted from the soil data has a number of elevated zinc and barium values though not together in the same samples. Zone 3 is associated with elevated barium values in rock.

8.D. GEOLOGICAL MAPPING

The mapping component (Map 5) of the program was hindered by an extreme lack of outcrop. The major creeks were impossible to traverse due to high water conditions which persisted throughout the summer as snow melt continued well into August. Steep topographical conditions prevented traverses which potentially could have located bedrock on the south west facing slopes. The Bell-Irving River Valley where traversing was possible contains sand and gravel deposits of probable glacial/fluvial origin with only minor outcrop even along old logging roads.

Most of the outcrop located near the Stewart Cassiar Highway is sediment ranging from mudstone through siltstone to sandstone, often with inclusions of one size fraction within another. Colours range from dark grey to medium grey, occasionally dark blue to browns and orange where oxidized. The sediments are generally not resistant to erosion and contribute to the lack of outcrop.

A number of fine grained to very fine grained volcanic rocks ranging in composition from mafic to felsic and occasionally pyroclastics were also observed particularly in the vicinity of Fox 30, 31, 33 and 36. Some of the samples contain quartz veining, quartz carbonate, and barite. Possible tourmaline (FR 11, FR 15) was also noted occasionally. A few of the outcrops are gossanous. The volcanics apparently correlate with zinc and polymetallic mineralization as evidenced by the soil sampling carried out by Mr. Molloy, see separate report. It is surmised that these volcanic rocks are members of the Lower Hazelton Formation and appear in windows through the overlying Bowser Lake Group sediments.

Greig and Evenchick mapped (Map 3) the area for the Geological Survey of Canada in 1993. Most of the project area at lower elevation within the Bell-Irving River Valley was mapped as Middle(?) and Upper Jurassic Bowser Lake Group sediments (JBa) consisting of arkosic volcanic litharenite turbidite lithofacies; thin and medium bedded, fine to medium grained, poorly sorted arkosic litharenite with interbedded silty mudstone. Greig and Evenchick also mapped Lower Middle Jurassic Hazelton Group sediments (LMJSs) consisting of thin bedded siliceous silty mudstone, clay-altered dust tuff(?),discontinuous limestone lenses, Lower Jurassic (LJHr) felsic lapilli tuff-breccia, ash and ash dust (believed to be a Mt. Dilworth equivalent), Lower Jurassic Group coarse sediments and pyroclastics (LJHc) comprised of boulder and cobble conglomerate, pebbly sandstone; well-stratified, green and maroon ash, lapilli tuff-breccia, lapilli, ash and dust tuff, tuffaceous arkose and mudstone. Also mapped were Lower Jurassic (LJHv) volcanics consisting of intermediate to mafic plagioclase-pyroxene and subordinate plagioclase-hornblende phyric lapilli tuff-breccia, lapilli, ash and dust tuff, flows; derived debris flows, arkose and siltstone. Also noted within the project area were Upper Triassic (UTSa) Stuhini Group plagioclase-pyroxene crystal tuff turbidite arkose and siltstone, plagioclase-pyroxene phyric mafic to intermediate lapilli and ash tuff, tuff-breccia and rare flows; and minor limestone. The GSC mapping is supported by the author's work.

9. RECOMMENDATIONS:

Further stream sediment sampling is recommended particularly on the more easterly portions of the property not yet sampled. The author notes and the GSC mapping confirms that the Bowser Lake Group sediments thin and finally disappear as the eastern portions of the project are approached. The Hazelton Group rocks are regarded as one of the most prospective rock units in British Columbia and stream sediment sampling is regarded as one of the best tools to locate mineralized drainage basins. Sampling should be timed to low water conditions so that the various drainages can be walked.

In conjunction with the stream sediment sampling rock chip sampling and mapping should be carried out in the various drainages. High water conditions prevented the walking of the stream courses in the present program but should not be insurmountable in a more normal weather year.

10. CONCLUSIONS:

An 11 unit 208 unit property has been staked to cover a prospective area underlain by Hazelton Group volcanics and pyroclastics and by Bowser Lake Group sediments apparently of limited thickness overlying Hazelton Group rocks.

Stream sediment sampling and rock chip sampling was carried out mostly on the western portion of the project area due to topographical, weather and high water levels in streams. The stream sediment sampling program produced two anomalous gold values located on the flanks of the widest (Zone 2) multi-element geochemical soil anomaly discovered in Mr. Molloy's work. The sample (FS 08; 35 ppb Au) is located downslope from The Zone 2 soil anomaly referenced in the Molloy report and could suggest a gold component to this zone. The other sample (FS 42B; 25 ppb Au) is located up stream from the Zone 2 zinc/multi-element anomaly and is suggestive of another zone to the east. Values at this level should be considered significant in the high water velocities encountered during the survey. There is a moderate multi-element signature (zinc and barium) in the stream sediment sample population.

Rock chip sampling produced one anomalous gold value of 25 ppb Au near the upper reaches of a lumber road in the southern portion of the project area. The sample was characterized by a soft black fibrous mineral (sooty goethite?). The survey failed to locate any obvious multi-element anomalous areas though elevated values in both zinc and barium were detected and often these correlated with soil geochemical anomalies as outlined in Mr. Molloy's report.

The geologic mapping confirmed the presence of favourable Hazelton Group volcanics and pyroclastics and Hazelton Group covered by thin Bowser Lake Group sediments as evidenced by the "windows" which expose the Hazelton volcanics. The Hazelton sequence is host to many mineral deposits and several mining operations. The property is deserving of further work including additional soil survey lines, IP and magnetometer surveys to evaluate the current soil anomalies and additional stream and rock chip sampling to evaluate the portions of the property not currently covered.

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12. STATEMENT OF QUALIFICATIONS:

I, David Roy Kennedy, of North Vancouver, British Columbia, hereby certify that:

1. I am an independent Geologist, president of Ailsa Exploration Consultants Ltd., and I am associated with Geofine Exploration Consultants Ltd. but act in the role of independent contractor.

2. I am a graduate of Acadia University, Wolfville, Nova Scotia having obtained the degree B.Sc. with a major in Geology (1970).

3. I have practised my profession in mineral exploration continuously for the past 26 years including 6 years as a consultant, 10 years with St. Joe Canada Inc./Bond Gold Canada Inc./LAC Minerals Ltd. as Exploration Manager, Western Canada and 9 years with the consulting firm Flanagan McAdam & Co. in the capacity of operations manager, Chibougamau, Quebec.

4. I am a "Professional Geoscientist" as defined by the Association of Professional Engineers and Geoscientists, Province of British Columbia. Registration # 20811.

5. I am a member of the B.C. and Yukon Chamber of Mines.

6. I have carried out the field program as described herein and prepared this report titled "Report on the 1996 Delta West Project, Staking, Stream Geochemistry, Rock Geochemistry and Geology; Delta Peak Area:, Skeena Mining Division, Northwestern British Columbia". I have referenced the technical data available in the BCMEMPR assessment work files as well as other sources listed in the References.

Dated at North Vancouver, this 16th day of November, 1996.

PROFESSIONAL PROVINCE OF D.R. KENNEDY BRITISH COLUMBIA GEOSCIENTIST

David R. Kennedy, B.Sc., Professional Geoscientist

APPENDIX 1

APPENDIX 2

A. STREAM SEDIMENT SURVEYS:

CLAIM:	LOCATION: CL. LINE:	CL. POST:	DIR.:	DIST (M):	STREAM SEDIMENT SAMPLES: NUMBER:	NAME:	COLOUR :	GR. SIZE:	COMP.:	DRAINAGE:	COMMENTS:
	N OF LCP	LCP 30, 31, 32	N	50	FS1	SAND	GRY	FI-CO	FRAGS VOL, QTZ, OXID MAT, SIL	GLACIER CREEK	NEAR N BANK
	N OF LCP	LCP 30, 31, 32	N	935	FS2	ORG MUCK	BLK	FI	ORG	SM CRK DRAINS BP	
F 30	E-W SOIL L		SE ON RD	ABOUT 400 M	FS3 L FORK	AS FS2				SMALL CRK	LEFT FORK
F 30	E-W SOIL L		SE ON RD	ABOUT 400 M	FS4 R FORK	AS FS2					
FOX 31/33	EW	LCP PT AT RD	W FR 2E PT	885 W	FS5	ORG MUCK	BLK	FI	ORG	TRIB TO GC	
FOX33/34	NORTH	LCP33/34	E	210	FS6	SD GRAV	BRN	FI-CO	SIL, VOL SD	SMALL CRK	
FOX33/34	NORTH	LCP33/34	E	680	FS7	AS FS5				SMALL CRK	
FOX33/34	NORTH	LCP33/34	E	1340	FS8	AS FS5				SMALL CRK	
FOX33/34	NORTH	LCP33/34	E	1745	FS9	ORG/SD	BRN	SIL-CO	ORG, WH QTZ, GRY VOL, SOME CL	SMALL CRK	
FOX33/34	NORTH	LCP33/34	E	1650	FS10	CL-SD-GRA	BRN	CL-PEBS	CL, GRY GRN VOL, WH QTZ LIM TUFF	SMALL CRK	
FOX33/34	NORTH	LCP33/34	E	1625	FS11	CL-SD	BRN	CL-CO	CL, VOL SD	S FLOW SMALL CRK	
FOX 33	W		S TO SKOW	1700	FS12	SD	BLK	FI-MED	M VOL, WH QTZ, SIL	SKOWILL CRK	CRK IN FLOOD SAMPLE FROM IS.
F30/33	NEW EW LINE	2200E	W TO RD		FS13	ORG MUCK	BLK	FI-MED	ORG	SMALL CRK	
F30/31	NEW N LINE	300 M N	N	ABOUT	FS14	CL-SD	BLK-BRN	FI-CO	ORG, CL, SD, PEBS	PURE CRK	

A. STREAM SEDIMENT SURVEYS:

CLAIM:	LOCATION: CL. LINE:	CL. POST:	DIR.:	DIST (M):	STREAM SEDIMENT SAMPLES: NUMBER:	NAME:	COLOUR :	GR. SIZE:	COMP.:	DRAINAGE:	COMMENTS:
		INT 4		2600					M VOL		
F30/31	NEW N LINE	300 M N INT 4	N	ABOUT 2850	FS15	SD-GRAV	GRY-BLK	FI-PEBS	SD, M VOL PEBS, MIN ORG	PURE CRK	
F30/33	NEW	LCP30	W TO RD	1580	FS16	ORG MUCK	BLK	FI-MED	ORG	SMALL CRK	
250M N SW CORN F33	N-S		N TO SKOW CK	250	FS17	SD	BRN/BLK	FI-CO	FRAGS WH QTZ, BK SE GRG-GRN VOL	SKOWALLLCRK	
NONE	15 M DOWNSTREAM FROM BRIDGE ON RD				FS18	SD	BLK	FI-CO	FRAGS WH QTZ, BK SE GRG-GRN VOL	DELTAIC CRK	
NONE	TRIB TO DELTAIC CRK ABOUT 50 M N OF BRIDGE, 15 TO EAST OF RD				FS19	CL-SD	GRY/BLK	CL-CO	OXID MAT, BLK SEDS, WH QTZ	TRIB TO DELTAIC FLOWS 160 DEG	
APPROX 400 M S OF RD TO CC SOUTH OF SKOWALL CKR					FS20	CL-SD-ORG	BRN	CL-CO	CL, ORG-ROOTS, MUCK, FRAGS ARG	SMALL CRK FLOWS 240	
800 M S OF GLACIER CRK ON RD					FS21	SD	BRN	FI-CO	FRAGS WH QTZ, BK SEDS, GRG-GRN VOL, OXID MAT	FLOODED CK FLOWS 220 DEG	
2.45 KM S OF GLACIER CRK					FS22	SD	BRN	SIL-FI	SIL, SD	SMALL BR CREEK - W BR FLOWS 300 DEG	
	•				FS23	SD-GRAV	BRN	FI-PEBS	OXID MAT, BLK SED, QTZ, MIN ORG	RT BR FLOWS 270	
2.70 KM S OF GLACIER CK ON RD					FS24	AS F22				SMALL CRK FLOWS 235 DEG	
4.3 KM S OF GLACIER CK ON RD					FS25	SD	BRN	SIL-FI	SIL, SD, ORGS	SMALL CRK FLOWS 252 DEG	
5.4 KM S OF GLACIER CK ON RD					FS26	ORG MUCK	BRN	SIL, CL	SIL, CL, ROOTS	SMALL CK FLOWS 240 DEG	
F32/39	NS- W39 E32	LCP39, 40	S TO RD	425	FS27	SD-GRAV	GRY-BLK	FI-PEBS	20% SED PEBS, 10 % ORGS		
F32/39	NS- W39	LCP39, 40	S TO RD	925	FS28	SD	BRN	FI-SIL	SIL, SD, CL 10%	CK IN FLOOD FLOWS 210 DEG	

A. STREAM SEDIMENT SURVEYS:

CLAIM:	LOCATION: CL. LINE:	CL. POST:	DIR.:	DIST (M):	STREAM SEDIMENT SAMPLES: NUMBER:	NAME:	COLOUR :	GR. SIZE:	COMP.:	DRAINAGE:	COMMENTS:
	E32										
F32/39	NS- W39 E32	LCP39, 40	S TO RD	950	FS29	AS FS29				BR OF FS29 CRK FLOWS 265	
F32/39	NS- W39 E32	LCP39, 40	S TO RD	970	FS30	CL-SD	BRN	CL-FI	CL, SD	BR OF FS29 CRK FLOWS 250	
F32/39	NS- W39 E32	LCP39, 40	S TO RD	1035	FS31	SD	GRY	SI-FI	SI, SD	CK FLOWS 207	
F39	NS	AT 4S PT	RE	500 M S OF RD	FS32	SD-GRAV	BRN	FI-CO	SD, MIN ORG, FRAGS BLK SED	FLOWS 240	
F39	W ON EW CL L	TO RD	W TO RD	390 W OF END OF LINE	FS33	CL-SD-GRA	BRN	CL-PEBS	CL, 10% org (twigs) 25% ang frags - oxid mat well sheared sed, min wh qtz	FLOWS 255	
F37/38	W-NS	LCP37,38	S TO COR PT	145	FS34	SD-GRAV	BRN	SIL-PEBS	SIL, SD, PEBS	SM CKR FLOWS 270	
F37/38	W-NS	LCP37,38	S TO COR PT	500	FS35	SD	GRY	FI	SD, MIN ORG, FEW PEBS BLK SED	SMALL CK	FLOWS 260
F37/38	W-NS	LCP37,38	S TO COR PT	1300	FS36	ORG	BLK	FI-CO	ORGS-TWIGS, ROOTS	SMALL CK	FLOWS 215
F37/38	S-EW	SW CORN	W TO COR PT	540	FS37	ORG MUCK	BLK	CL-CO	CL, SIL, SD, ORG	SM CK	FLOWS 200 DEG
F37/38	S-EW	SW CORN	W TO COR PT	150	FS38	ORG MUCK	BLK	CL-CO	CL, SIL, SD, ORG	SM CK	FLOWS 170 DEG NOT MUCH SED
F34	N-S	2NF34	S	1240	FS 39	ORG MUCK	BLK	CL-CO	CL, SIL, ORG	SM CK	FLOWS 260 DEG NOT MUCH SED
F36	N-S	2NF36	S TO LCP 36	0	FS40	SD	BRN	FI-CO	CL 75%, 25% PEBS OF OXID MAT, GRY/GRY VOL, SOME PLATY BLK SEDS, MIN SILT	SM CK	FLOWS 250 DEG
F36	N-S	2NF36	S TO LCP 36	230	FS41	SD-GRAV	BRN	FI-PEBS	SD, 35% PEBS- ANG, 1 OXID MAT, GRY/GRN VOL, WH QTZ, PLATY SEDS	SM CKR SM CK	FLOWS 248 DEG AT FR46 LOC -RHY FRAG
F36	N-S	2NF36	S TO LCP	390	FS42	ORG MUCK	BLK	FI-CO	ORGS	SM CK/SPRING	

A. STREAM SEDIMENT SURVEYS:

	LOCATION:				STREAM SEDIMENT SAMPLES:						
CLAIM:	CL. LINE:	CL. POST:	DIR.:	DIST (M):	NUMBER:	NAME:	COLOUR :	GR. SIZE:	COMP.:	DRAINAGE:	COMMENTS:
F36	N-S	2NF36	36 S TO LCP 36	515	FS42A	SD-GRAV	BRN	FI-PEBS	40% PEBS - 80% OXID 20% GRN/GRY VOL, MIN WH QTZ; 55% FI SD, 5% ORGS/ROOTS	SM CKR	FLOWS 220 DEG IN MIXED FOR, AT FR47 LOC, SIL VOL FLOWS 170 DEG EDGE CC
F32	E-W	4E4SF32	E FR BI R	33	FS43	ORG	BLK	FI	ORG	SM, SLOW CK	FLOWS 210 DEG
F32	E-W	600 M S OF LCP 30, 31, 32	E FR BIR	0	FS44	CL-SD	GRY	CL-FI	CL, SD	UN CK	FLOWS 330AT BIR MAT FIR FOR
DCSIDECRIN END OF RD					FS101	ORG MUCK	BLK	CL-FI	CL, SILT, ORG	SM CRK	SW
DCSIDECRIN END OF RD				415 M FR F503	FS102	SILT/SD	BRN	SILT-FI	SI, SD	SM CRK	SE
DCSIDECRIN END OF RD				535 M FR FS 102	FS103	CL/SD	BRN	CL-FI	CL, SD	SM CRK	SE
DCSIDECRIN END OF RD				1055 M FR F505 AT W1, R103	FS104	SILT/SD	BRN	FI-CO	SILT/SD	SM CRK BELOW PD	S

APPENDIX 3

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

A9631661

Comments: ATTN:DAVID KENNEDY

CERTIFICATE A9631661

(KIV) - GEOFINE EXPLORATION CONSULTANTS LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	46	Dry, sieve to -80 mesh
202	46	save reject
229	46	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	46	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	46	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	46	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	46	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	46	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	46	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	46	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	46	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	46	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	46	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	46	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	46	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	46	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	46	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	46	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	46	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	46	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	46	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	46	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	46	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	46	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	46	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	46	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	46	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	46	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	46	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	46	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	46	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	46	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	46	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	46	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	46	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	46	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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L3R 4J8

Project :
Comments: ATTN:DAVID KENNEDY

Certificate Date: 19-SEP-96
Invoice No. : I9631661
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9631661

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
FS 01	201	202	< 5	< 0.2	3.12	8	80	< 0.5	< 2	1.77	< 0.5	16	25	85	4.56	10	< 1	0.09	< 10	1.76	1155
FS 02	201	202	< 5	< 0.2	1.41	12	430	< 0.5	< 2	2.32	0.5	12	27	26	2.75	< 10	< 1	0.07	< 10	0.44	6040
FS 03	201	202	< 5	< 0.2	2.25	12	190	< 0.5	< 2	0.43	< 0.5	15	48	52	3.34	< 10	< 1	0.11	< 10	1.04	665
FS 04	201	202	< 5	< 0.2	1.63	32	270	< 0.5	< 2	1.35	0.5	13	21	53	2.58	< 10	< 1	0.10	10	0.57	1855
FS 05	201	202	< 5	0.6	1.41	16	400	0.5	< 2	1.52	1.5	33	23	44	3.53	< 10	< 1	0.07	10	0.46	>10000
FS 06	201	202	< 5	< 0.2	1.67	38	220	0.5	< 2	0.53	1.0	16	21	33	3.37	< 10	< 1	0.11	10	0.58	2460
FS 07	201	202	< 5	< 0.2	1.66	14	300	< 0.5	< 2	0.61	0.5	14	20	33	3.25	< 10	< 1	0.10	10	0.52	1885
FS 08	201	202	35	< 0.2	1.63	22	270	< 0.5	< 2	0.69	0.5	12	20	35	3.10	< 10	< 1	0.12	< 10	0.49	1570
FS 09	201	202	< 5	< 0.2	1.47	24	210	< 0.5	< 2	1.02	0.5	11	20	45	2.81	< 10	< 1	0.08	< 10	0.48	1665
FS 10	201	202	< 5	< 0.2	1.52	20	270	< 0.5	< 2	1.32	0.5	11	19	35	2.80	< 10	< 1	0.08	< 10	0.43	2110
FS 11	201	202	< 5	< 0.2	1.71	30	200	0.5	< 2	1.11	< 0.5	11	20	39	3.06	< 10	< 1	0.09	10	0.44	1000
FS 12	201	202	< 5	< 0.2	2.28	20	210	< 0.5	< 2	3.86	< 0.5	15	39	62	4.15	< 10	< 1	0.06	< 10	1.85	740
FS 13	201	202	< 5	< 0.2	0.59	18	220	< 0.5	< 2	2.78	< 0.5	4	9	29	1.07	< 10	< 1	0.05	10	0.14	1575
FS 14	201	202	< 5	< 0.2	1.67	50	260	0.5	< 2	1.04	< 0.5	11	14	45	2.91	< 10	< 1	0.08	10	0.52	1565
FS 15	201	202	< 5	< 0.2	1.73	54	270	0.5	< 2	0.73	< 0.5	14	16	39	3.59	< 10	< 1	0.10	10	0.59	2840
FS 16	201	202	< 5	< 0.2	2.18	14	320	0.5	< 2	0.74	1.0	25	38	42	4.05	< 10	< 1	0.10	10	0.85	5480
FS 17A	201	202	< 5	0.2	1.68	8	490	< 0.5	< 2	2.35	3.0	15	44	65	2.40	< 10	< 1	0.05	10	0.75	6590
FS 17B	201	202	< 5	0.2	2.51	20	220	< 0.5	< 2	4.35	< 0.5	15	41	65	4.22	< 10	< 1	0.09	< 10	1.84	835
FS 18	201	202	10	< 0.2	2.47	12	260	< 0.5	< 2	1.25	< 0.5	14	42	61	4.03	< 10	< 1	0.10	< 10	1.48	725
FS 19	201	202	< 5	< 0.2	1.89	10	150	< 0.5	< 2	0.37	< 0.5	12	66	33	2.92	< 10	< 1	0.12	< 10	1.10	890
FS 20	201	202	< 5	< 0.2	2.00	22	240	< 0.5	< 2	0.74	0.5	26	41	40	5.23	< 10	< 1	0.09	< 10	1.11	2730
FS 21	201	202	< 5	< 0.2	2.00	24	180	0.5	< 2	0.50	0.5	21	19	67	4.79	< 10	< 1	0.09	< 10	0.92	2900
FS 22	201	202	< 5	< 0.2	1.37	58	190	0.5	< 2	0.80	0.5	15	15	47	4.34	< 10	< 1	0.08	< 10	0.57	1195
FS 23	201	202	< 5	0.2	1.16	42	220	0.5	< 2	0.57	0.5	13	16	39	4.01	< 10	< 1	0.09	< 10	0.55	1040
FS 24	201	202	< 5	0.2	1.19	20	220	0.5	< 2	0.46	0.5	16	22	47	3.89	< 10	< 1	0.09	< 10	0.60	875
FS 25	201	202	< 5	0.2	1.91	12	200	0.5	< 2	0.56	0.5	17	43	38	3.41	< 10	< 1	0.10	< 10	0.77	1605
FS 26	201	202	< 5	0.6	1.77	10	250	0.5	< 2	0.51	1.5	24	49	36	4.29	< 10	< 1	0.12	10	0.72	2600
FS 27	201	202	< 5	0.2	1.86	22	230	0.5	< 2	0.63	0.5	20	20	55	3.89	< 10	< 1	0.12	< 10	0.56	2630
FS 28	201	202	< 5	0.2	1.63	70	220	0.5	< 2	1.11	1.0	17	17	49	4.84	< 10	< 1	0.12	< 10	0.53	1445
FS 29	201	202	< 5	0.2	1.56	70	230	0.5	< 2	0.87	0.5	17	16	49	4.76	< 10	< 1	0.11	< 10	0.58	1620
FS 30	201	202	< 5	< 0.2	1.44	66	210	0.5	< 2	1.04	1.0	17	15	48	4.70	< 10	< 1	0.09	< 10	0.48	1470
FS 31	201	202	< 5	0.2	1.33	46	290	0.5	< 2	0.63	1.0	15	17	44	4.08	< 10	< 1	0.11	< 10	0.54	1430
FS 32	201	202	< 5	< 0.2	1.27	18	130	0.5	< 2	0.50	0.5	14	26	42	3.71	< 10	< 1	0.09	< 10	0.57	1100
FS 33	201	202	< 5	0.2	1.33	14	250	0.5	< 2	0.63	1.5	19	32	48	4.05	< 10	< 1	0.09	< 10	0.43	1850
FS 34	201	202	< 5	< 0.2	1.60	26	310	0.5	< 2	0.62	< 0.5	16	17	26	4.43	< 10	< 1	0.10	10	0.54	2990
FS 35	201	202	< 5	< 0.2	1.77	22	240	0.5	< 2	0.56	1.5	14	27	34	3.34	< 10	< 1	0.11	< 10	0.63	1560
FS 36	201	202	< 5	< 0.2	1.86	8	280	0.5	< 2	1.09	1.5	15	25	35	2.51	< 10	< 1	0.09	10	0.56	2250
FS 37	201	202	< 5	0.2	1.23	8	110	< 0.5	< 2	1.69	1.0	16	14	19	3.66	< 10	< 1	0.05	10	0.28	3590
FS 38	201	202	< 5	< 0.2	2.12	16	260	0.5	< 2	0.61	0.5	22	34	29	4.00	< 10	< 1	0.07	10	0.81	5130
FS 39	201	202	< 5	0.2	1.59	28	220	0.5	< 2	1.26	0.5	12	21	38	2.49	< 10	< 1	0.09	10	0.47	1185

CERTIFICATION: ______________

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Project :
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Certificate Date: 19-SEP-96
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CERTIFICATE OF ANALYSIS A9631661

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
FS 01	201	202	2	0.03	19	850	6	2	10	68	0.29	< 10	< 10	147	< 10	88
FS 02	201	202	2	< 0.01	27	1370	16	< 2	3	88	0.04	< 10	< 10	40	< 10	124
FS 03	201	202	2	0.01	60	630	16	< 2	7	21	0.04	< 10	< 10	70	< 10	130
FS 04	201	202	2	< 0.01	36	890	22	< 2	5	56	0.04	< 10	< 10	47	< 10	144
FS 05	201	202	2	0.01	68	970	12	< 2	4	106	0.04	< 10	< 10	54	< 10	156
FS 06	201	202	3	< 0.01	41	700	16	< 2	5	28	0.04	< 10	< 10	50	< 10	186
FS 07	201	202	2	< 0.01	39	650	12	2	5	30	0.03	< 10	< 10	47	< 10	148
FS 08	201	202	4	0.01	29	680	10	< 2	5	36	0.02	< 10	< 10	49	< 10	122
FS 09	201	202	3	0.01	30	660	18	< 2	4	40	0.02	< 10	< 10	46	< 10	130
FS 10	201	202	4	0.01	30	740	18	< 2	4	50	0.01	< 10	< 10	49	< 10	118
FS 11	201	202	4	0.01	29	810	12	< 2	5	40	0.01	< 10	< 10	47	< 10	120
FS 12	201	202	1	0.01	40	680	14	< 2	8	68	0.11	< 10	< 10	95	< 10	94
FS 13	201	202	3	< 0.01	11	900	4	< 2	1	98	< 0.01	< 10	< 10	16	< 10	54
FS 14	201	202	2	0.01	23	780	16	< 2	5	42	0.05	< 10	< 10	47	< 10	116
FS 15	201	202	3	< 0.01	30	660	18	< 2	5	34	0.08	< 10	< 10	63	< 10	124
FS 16	201	202	3	0.01	75	980	18	< 2	6	45	0.04	< 10	< 10	62	< 10	232
FS 17A	201	202	3	0.01	81	1090	14	2	5	91	0.01	< 10	< 10	40	< 10	150
FS 17B	201	202	1	0.01	40	680	6	< 2	8	79	0.11	< 10	< 10	103	< 10	100
FS 18	201	202	1	0.01	50	670	12	< 2	8	39	0.13	< 10	< 10	107	< 10	100
FS 19	201	202	1	0.01	78	670	12	< 2	6	26	0.04	< 10	< 10	52	< 10	102
FS 20	201	202	2	< 0.01	57	1160	14	< 2	6	33	0.04	< 10	< 10	72	< 10	128
FS 21	201	202	3	0.01	48	860	14	< 2	6	26	0.04	< 10	< 10	67	< 10	178
FS 22	201	202	6	0.01	50	830	8	< 2	7	32	0.01	< 10	< 10	46	< 10	184
FS 23	201	202	4	0.01	48	950	10	< 2	6	33	< 0.01	< 10	< 10	43	< 10	172
FS 24	201	202	4	< 0.01	58	910	12	< 2	6	35	< 0.01	< 10	< 10	48	< 10	158
FS 25	201	202	1	< 0.01	95	760	10	< 2	5	57	< 0.01	< 10	< 10	51	< 10	198
FS 26	201	202	1	0.01	77	1880	20	< 2	5	59	0.01	< 10	< 10	52	< 10	118
FS 27	201	202	2	< 0.01	78	880	14	< 2	7	42	0.02	< 10	< 10	60	< 10	200
FS 28	201	202	8	0.01	56	830	16	< 2	7	35	< 0.01	< 10	< 10	50	< 10	202
FS 29	201	202	7	0.01	53	900	10	< 2	7	35	< 0.01	< 10	< 10	51	< 10	196
FS 30	201	202	7	0.01	54	830	12	< 2	7	33	< 0.01	< 10	< 10	44	< 10	194
FS 31	201	202	5	0.01	53	1020	12	< 2	7	38	< 0.01	< 10	< 10	48	< 10	182
FS 32	201	202	3	0.01	53	900	12	< 2	6	37	0.01	< 10	< 10	56	< 10	130
FS 33	201	202	3	0.01	138	1030	14	2	7	68	< 0.01	< 10	< 10	44	< 10	212
FS 34	201	202	4	0.01	38	860	14	< 2	5	35	0.01	< 10	< 10	52	< 10	140
FS 35	201	202	3	0.01	44	770	12	< 2	5	31	0.03	< 10	< 10	62	< 10	202
FS 36	201	202	1	< 0.01	80	1190	10	< 2	3	60	0.03	< 10	< 10	39	< 10	246
FS 37	201	202	2	< 0.01	39	2280	12	< 2	3	76	0.03	< 10	< 10	24	< 10	186
FS 38	201	202	3	< 0.01	78	930	8	< 2	4	33	0.04	< 10	< 10	48	< 10	262
FS 39	201	202	1	0.01	44	970	12	< 2	4	60	0.04	< 10	< 10	38	< 10	142

CERTIFICATION: ________

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49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN:DAVID KENNEDY

Certificate Date: 19-SEP-96
Invoice No. : I9631661
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9631661

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
FS 40	201	202	< 5	< 0.2	1.66	52	240	0.5	< 2	1.24	< 0.5	14	12	71	3.06	< 10	< 1	0.11	10	0.36	2430
FS 41	201	202	< 5	< 0.2	1.61	30	300	0.5	< 2	1.10	< 0.5	13	23	42	3.01	< 10	< 1	0.10	10	0.52	1725
FS 42A	201	202	< 5	< 0.2	0.83	6	400	0.5	< 2	4.05	0.5	6	15	86	1.31	< 10	< 1	0.06	90	0.28	1925
FS 42B	201	202	25	0.2	1.60	36	310	0.5	< 2	0.93	0.5	13	17	47	3.01	< 10	< 1	0.10	10	0.43	2160
FS 43	201	202	< 5	0.4	1.41	12	380	< 0.5	< 2	0.92	2.0	14	29	35	3.10	< 10	< 1	0.10	< 10	0.63	4610
FS 44	201	202	< 5	< 0.2	2.14	10	170	< 0.5	< 2	0.52	< 0.5	14	65	41	3.36	< 10	< 1	0.13	< 10	1.33	510

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
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SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
FS 40	201	202	3	< 0.01	28	990	16	< 2	5	37	0.02	< 10	< 10	47	< 10	126
FS 41	201	202	2	0.01	32	560	16	< 2	5	32	0.03	< 10	< 10	53	< 10	136
FS 42A	201	202	2	0.03	22	1040	8	< 2	5	134	0.03	< 10	< 10	18	< 10	82
FS 42B	201	202	2	< 0.01	27	840	14	< 2	5	36	0.02	< 10	< 10	46	< 10	126
FS 43	201	202	2	0.01	97	1110	12	< 2	5	61	0.01	< 10	< 10	46	< 10	136
FS 44	201	202	1	0.01	80	650	10	< 2	6	28	0.04	< 10	< 10	65	< 10	98

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN:DAVID KENNEDY

Certi... Date: 19-SEP-96
Invoice No. :19631624
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9631624

SAMPLE	PREP CODE		Au ppb [illegible]	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
HF 41	241	202	< 5	0.2	2.93	10	100	< 0.5	< 2	0.19	0.5	12	24	38	4.92	10	< 1	0.06	< 10	0.81	1230
FS 101	241	202	< 5	0.6	2.16	12	270	0.5	< 2	0.82	1.5	18	29	40	2.72	< 10	< 1	0.09	< 10	0.39	3240
FS 102	241	202	< 5	0.2	1.82	16	140	0.5	< 2	0.18	0.5	18	34	44	3.61	< 10	< 1	0.08	< 10	0.57	1360
FS 103	241	202	< 5	0.2	1.61	18	140	< 0.5	< 2	0.22	0.5	19	31	40	3.77	< 10	< 1	0.07	< 10	0.51	3980
FS 104	241	202	< 5	0.2	1.87	16	220	0.5	< 2	0.39	0.5	21	32	31	3.54	< 10	< 1	0.07	< 20	0.51	1980
FS 105	241	202	< 5	< 0.2	1.48	20	150	0.5	< 2	0.31	< 0.5	20	42	49	4.12	< 10	< 1	0.09	< 10	0.68	1250
FS 106	241	202	< 5	< 0.2	2.40	12	220	< 0.5	< 2	1.13	< 0.5	16	43	59	3.75	< 10	< 1	0.10	< 10	1.65	725
F 500	241	202	< 5	0.4	2.08	18	100	0.5	< 2	0.06	< 0.5	16	37	48	4.42	< 10	< 1	0.08	< 10	0.49	950
F 501	241	202	< 5	0.6	2.85	20	100	< 0.5	< 2	0.07	< 0.5	10	44	44	5.30	< 10	< 1	0.07	< 10	0.40	690
F 502	241	202	< 5	0.6	2.82	20	120	< 0.5	< 2	0.13	< 0.5	11	39	46	4.81	< 10	< 1	0.06	< 10	0.45	720
F 503	241	202	< 5	0.4	1.90	24	170	< 0.5	< 2	0.12	0.5	12	31	52	4.51	< 10	< 1	0.07	< 10	0.31	1515
F 504	241	202	< 5	0.4	2.35	24	100	0.5	< 2	0.08	< 0.5	18	37	62	4.62	< 10	< 1	0.07	< 10	0.57	1210
F 505	241	202	< 5	0.6	2.63	22	80	< 0.5	< 2	0.10	< 0.5	19	39	58	4.79	< 10	< 1	0.06	< 10	0.50	1415
F 506	241	202	< 5	0.6	2.34	16	120	< 0.5	< 2	0.11	< 0.5	13	37	42	4.34	< 10	< 1	0.07	< 10	0.51	1095

CERTIFICATION:

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: [illegible] EXPLORATION CONSULTANTS LTD.
[illegible] DALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN:DAVID KENNEDY

Page Number : 2-B
Total Pages : 2
Certificate Date: 19-SEP-96
Invoice No. : I9631624
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9631624

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
P 41	241	202	4	< 0.01	8	1360	10	< 2	2	15	0.11	< 10	< 10	156	< 10	106
F8 101	241	202	1	< 0.01	89	1500	6	< 2	3	103	0.01	< 10	< 10	47	< 20	150
F8 102	241	202	3	< 0.01	57	770	8	< 2	6	19	0.01	< 10	< 10	57	< 10	142
F8 103	241	202	1	< 0.01	51	770	8	< 2	5	23	0.01	< 10	< 20	54	< 10	126
F8 104	241	202	1	< 0.01	76	1060	6	< 2	5	49	0.01	< 10	< 10	40	< 10	180
F8 105	241	202	3	< 0.01	93	820	8	< 2	7	38	< 0.01	< 10	< 10	51	< 10	154
F8 106	241	202	1	0.01	49	650	6	< 2	9	30	0.13	< 10	< 10	100	< 10	94
F 500	241	202	1	< 0.01	59	640	10	< 2	6	13	< 0.01	< 10	< 10	57	< 10	138
F 501	241	202	2	< 0.01	48	870	12	< 2	5	13	0.01	< 10	< 10	63	< 10	152
F 502	241	202	1	< 0.01	53	780	8	< 2	5	17	0.01	< 10	< 10	64	< 10	152
F 503	241	202	2	< 0.01	39	1700	12	< 2	5	17	0.03	< 10	< 10	72	< 10	200
F 504	241	202	1	< 0.01	65	730	12	< 2	6	11	0.02	< 10	< 10	58	< 10	178
F 505	241	202	2	< 0.01	65	1000	12	< 2	6	12	0.02	< 10	< 10	58	< 10	182
F 506	241	202	1	< 0.01	51	780	10	< 2	4	14	0.03	< 10	< 10	65	< 10	150

CERTIFICATION: [illegible]

APPENDIX 4

B. GEOLOGY SURVEYS:

ROCK SAMPLES:

CLAIM:	LOCATION: CL. LINE:	CL. POST:	DIR.:	DIST (M):	NUMBER:	NAME:	COLOUR :	GR. SIZE:	———COMP.———:	ALT.:	STRUCT	COMMENTS
F30/33	SOIL LINE EW		W FROM F49	190	FR1	M VOL OC	GRY BLK BLEACHED SURF	FI	AND LIM ON FRAC VUGGY CAL MOD SILIC			
F30/33	SOIL LINE EW		W FROM F49	500	FR2	M VOL OC	GRN GREY BLEACHED ON SURF	FI	AND: TR HEM, WK SILIC			
F30/33	SOIL LINE EW		W FROM F49	1000	FR3	M VOL SH OC	BLU-GRY	FI	AND	SHEARED WK LIM, HEM, MANG S 1-2% DISS PY		UP TO 2-3% DISS SULF
FOX 31/33	EW	LCP PT AT RD	W FR 2E PT	1000 E	FR4	SILTSONE OC	DK GRY GRN	FI	SILTST: LAM, WK LIM, WK SILIC, CARB; TOUR, MN STAIN 3-4% PY ON FRAC SUR		24/VERT	
FOX 31/33	EW	LCP PT AT RD	W FR 2E PT	785 E	FR5	SEDIMENT' OC	GRY GRN BLK	FI	SILTSONE: WK CARB, WEATH BLEACH SURF, TOUR, THIN LAM, LIM ON LAM, 1% PY		32/72W	
FOX 31/33	EW	LCP PT AT RD	W FR 2E PT	750 E	FR6	SILSTONE FLOAT	DK GRN GRY	FI	SILTSONE: 3 % PY THIN CO LAM, LIM ON LAM			
FOX 31/33	EW	LCP PT AT RD	W FR 2E PT	605 E	FR7	M VOL FLOAT COMPOSITE	GRN GRY	FI-CO	AND: WK TO STR CARB/QTZ/BAR? ANK STWK; WK STR LIM, DIS PY IN STWK; WK TO MOD SILIC		MOD SHEARED	FLOAT OVER 75 M ASSOC WITH HILL
FOX 31/33	EW	LCP PT AT RD	W FR 2E PT	590 E	FR8	AS FR7 comp	WH GRY	FI-FRAGS	40% QTZ, 40%BAR MATRIX, 20 M VOL AS BRECC FRAGS			
FOX 31/33	EW	LCP PT AT RD	W FR 2E PT	525 E OC	FR9	AS FR7 LESS STWMWH	GRY-GRN	FI	QTZ CARB STWK WITH VUGGY PY/open fr filling 1-2% py in rock and stwk			
FOX33/34	NORTH	LCP33/34	E	2000	FR10	DIORITE? OC	GRY GRN	FI-CO	M VOL? SOME PORPHS SUGAR TEXTURE	MIN LIM WK SILIC		
FOX33/34	NORTH	LCP33/34	E	1250	FR11	QTZ TOUR FLOAT	WH BL	FI	QT VEIN MAT C/W GRAN BLK TOUR STR AND STWK STRONG CARB		NO APPARENT SULF	
FOX33/34	NORTH	LCP33/34	E	1200	FR12	SILTSONE FLOAT	DK GRN GRY	FI	SILTST: MOD LAM, WK LIM, MANG STAIN 1% DISS PY			
FOX33/34	NORTH	LCP33/34	E	1000	FR13	M VOL OC	DK GRN GRY	V FI	AND: SHEARED, WK LIM, AND HEM ON FR WK CARB, SHEARED 1% FINELY DISSPY			
FOX33/34	NORTH	LCP33/34	E	500	FR14	M VOL FLOAT	GRY BLK GRN	FI MASSIVE	AND: SHEARED, WK LIM, MANG STAIN; TR PY			
FOX33/34	NORTH	LCP33/34	E	360	FR15 FLT	QT/BAR FL	BLU-GRY	APANITIC	VEIN MAT TR TOUR; NO CARB, NO SULFIDE			
F30/33	NEW	2200E	W TO RD	2100E	FR15A	RHY	GRY-WH	VEIN MAT	90% SILICA	MIN LIM		FLOAT IN CRK

B. GEOLOGY SURVEYS:

ROCK SAMPLES:

CLAIM:	LOCATION: CL. LINE:	CL. POST:	DIR.:	DIST (M):	NUMBER:	NAME:	COLOUR :	GR. SIZE:	——COMP.——	: ALT.:	STRUCT	COMMENTS
	NEW EW L LCP								SOME SPOT CARB; SOME EUH PY			RESEM SKOWALL ZONE
F30/33	NEW NEW EW L LCP	2200E	W TO RD	2143	FR16	SILTSONE	DK GRN GRY FR; WEATH - OXID	FI	SILTST	WK LIM, WELL LAM MAN STAIN ON LAMS TR PY		
F30/33	NEW NEW EW L LCP	2200E	W TO RD	2143	FR17	SILTSONE	GRY-BLK	FI	SILST	LIM, TR PY	WELL LAM	
F30/33	NEW NEW EW L LCP	2200E	W TO RD	2060	FR18	SILTSONE	DK BLU GR FR; WEATH -OXID	FI	SILTSTONE	LIM ON FRACT OR LA 1% DISS PY		FRAGS IN SOIL SAMPLE
F30/31	NEW N LINI	LCP 3100	N	3050	FR19	SILTSTONE	GRY GRN FR; WEATH - OXIDIZED	FI	SILTSTONE	WK SHEARED, WK CARB, LIM , HEM OR WK LAM BLEACHED SURF, 2% DISSEM PY		
NW DELTAIC CK, 100 M LONG OC					FR20	SILTSTONE OR MUDST?	BLU-GRY	FI	SILTSONE? BLK MATRIX C/W OXID INCL	HEM, LIM ON FRACS FI TO CO LAM OR INTENSELY SHEARED IN VAR OF DIR		
NW DELTAIC CK, 100 M LONG OC					FR21	SILTST/GR WACKE	BLU-GRY	FI-CO	GRYWACKE (SST) INC IN SILTST?	LIM ON FRACS	VAR OF SHEARS: 340/V 355/V	
NW DELTAIC CK, 100 M LONG OC ACROSS RD					FR22	SILSTONE	BLU-GRY	FI TO V FI	SILTSTONE C/W FI CARB STWK		280/80SE	
400 M S OF RD TO CL CUT S OF SKOWALL CK					FR23	SILTSTONE?	BLK	FI	THIN BEDDED ON SHEARED SED	LIM OF FR	CL288/48W ALSO 005/60W	ON BOTH SIDES OF HWY
1200 M S GLACIER CK					FR24	SILTSTONE SLATE	DK GRY-BL	FI TO VFI	FI LAM	LIM ON FR	INTENSE SHEAR 20N AND ALSO AT ALL ANGLES RECOM FOLD ALSO OBSERVED	
4.3 KM S OF GLACIER CK					FR25	SILTSTONE ARG	BLK	FI	INTERBEDDED SILTSTONE/ARG		066/80NW	
5.2 KM S OF GLACIER CK					FR26	SST	MED GRY	FI-CO	MASS SST BUT OCC SILTSONE LA SUGARY TEXT, CARB IN PLACES, LIM		090/40N	
5.4 KM S OF GLACIER CK					FR27	SST	MED GRY	CO	MASS SST WITH THIN SILTSONE INTERBEDS 090/60N	CARB ON FR, LIM ON SOME FR		
F32/39	NS- W39 E32	LCP39, 40	S TO RD	200	FR28	SILTSTONE	BLK	FI				
	EW	4S PT	GOING W TO RD AND PT E OF POST	850	FR29	SST OR CO VOL	GRY BLK	FI-CO	HEM INCL, SER ?, ARG FRAGS IN VOL OR SST			FROM LARGE TALUS SLOPE INTERP TO BE NEAR VOL CT

B. GEOLOGY SURVEYS:

ROCK SAMPLES:

CLAIM:	LOCATION: CL. LINE:	CL. POST:	DIR.:	DIST (M):	NUMBER:	NAME:	COLOUR :	GR. SIZE:	COMP	ALT.:	STRUCT	COMMENTS
F39	EW	4S PT	GOING W TO RD AND PT	800 E OF POST	FR30	ARG	BLK	FI	OXID, SHEARED, ANG FRAGS IN SOIL HOLE		SHEARED FI GR BLK VOL BEDROCK POSSIBLY NEAR VOL CONTACT	
F39	EW	4S PT	GOING W TO RD AND PT	760 E OF POST	FR31	SST OR VO C/W BLK FRAGS SED	BLK	FI-CO	CO VOL OR CO SST, HEM RD INCL AND FRAGS BLK SED- 1 CM		FLOAT	
F37/38	W:N-S	LCP AND WIT 38	S TO SW COR PT	0	FR32	SILTSTONE SST FRAGS	BLK	FI-CO		LIM	SH/ FINELY LAM	AT LARGE TALUS SLOPE
F37/38	W:N-S	LCP AND WIT 38	S TO SW COR PT	150	FR33	SILTSTONE	BLK	FI		LIM		
F37/38	W:N-S	LCP AND WIT 38	S TO SW COR PT	900	FR33A	SILTSTONE	BLK	FI	THIN LAM SILTSONE	LIM WK CARB	040\85N	
F37/38	W:N-S	LCP AND WIT 38	S TO SW COR PT	2100	FR34	INTERBED SST AND SILTSTONE	BLK BLEACHED ON WEATH	FI-CO	SILTS AND INTERBED SST ALSO FRAGS SST IN SILT			
F37/38	W:N-S	LCP AND WIT 38	S TO SW COR PT	2230	FR35	SILTSONE	BLK	FI	SILTS, 1 % DISSEM PY THIN LAM	LIM	POS SHEARED 015/70W	NOTE VARYING INTENSITIES OF SHEARING AND OXIDATION; NOTE ALSO CROSS CUTTING SHEARS AS OBSERVED IN OTHER OUTCROPS
F37	S:E-W	SW CORN F37	GOING W TO CORN	485E	FR35A	SST	FR:DK BLU GR W:PALE W	MED-CO	MASSISVE SST	MANG ST HEM ON FR		
F37	150 M W OF SW COR F37		ON RD W O F37	150 M	FR36	SST/SILT STONE	GRY-BLK	FI-MED	SILTSONE C/W FI BAN SST AND SILTSTONE WITH FRAGS SST	SHEARED LIM ON SHS MN STAIN	SHEARED	NOTE SST/SILST SIMILAR RELATIONSHIP ELSEWHERE
F34	N-S	2NF34	S TO RD	0	FR37	SED FLOAT	FR BLK WEA GRY BRN	FI	SILTSTONE, LIM SURF THIN LAM AND MASS			IN SOIL HOLE, F286
F34	N-S	2NF34	S TO RD	125	FR38	AS FR37 IN SOIL HOLE F287						
F34	N-S	2NF34	S TO RD		FR39	SED FLOAT	FR BLK WEA GRY BRN	FI	SILTSTONE, LIM SURF THIN LAM AND MASS			
F34	N-S	2NF34	S TO RD		FR40	SED	BRN-BLK	FI	LIM SILSTONE WITH SOME FI LAM	POSS VEIN SPHAL		
F34	N-S	2NF34	S TO RD	1780	FR41	SST OC	BRN-BLK BLEACHED	MED	SST LIM ON LAM, MN STAIN			FS

B. GEOLOGY SURVEYS:

ROCK SAMPLES:

CLAIM:	LOCATION: CL. LINE:	CL. POST:	DIR.:	DIST (M):	NUMBER:	NAME:	COLOUR :	GR. SIZE:	COMP.	ALT.:	STRUCT	COMMENTS
F34	N-S	2NF34	S TO RD		FR42	SST OC	ON WEATH BRN-BLK	MED	SHEARED SST			DIR?
F36	N-S	2NF36	S TO LCP	0	FR43	FEL PYRO CK FLT	ORG/BRN	FI-FRAGS	CO FRAGS TO 1 CM, ANG, SUBROUNDED IN DK MATRIX	MN STAIN, LIM		
F36	N-S	2NF36	S TO LCP	20	FR44	M VOL AND FLT	DK GRY	FI		CARB ON F FRT AND INTERST LIM ON WEA SURF		
F36	N-S	2NF36	S TO LCP	100	FR45	RHY FLT	BRN ON WEAT CREAM GRN ON FRH	V FI		LIM, MN ON FRAC FRACS		FI GR CUB PY AT F285 LOC
F36	N-S	2NF36	S TO LCP	230	FR46	RHY FRAG FLT	BRN ON WEAT CR BRN ON FR	FI	FRAGS ANG, TO 0.5 CM	LIM		AT FS1 LOC
F36	N-S	2NF36	S TO LCP	390	FR47	WELL SIL VOL	DK BLU GR FR, RUSTY BRN ON WEATH	V FI	SIL, CARB, LIM	WK CARB, LIM		CON FRAC AT FS42 LOC
F36	N-S	2NF36	S TO LCP	397	FR48	VOL FLT AND	FR- DK BLU W-ORG/BRN	V FI	AND	LIM, MIN HEM ON SH SURF, WK CARB MOD SIL	WKY SH SURF	UN TREE AT F288 LOC
F36	N-S	2NF36	S TO LCP	750	FR49	QPF FLT	FR-BLU/GR W-RUSTY	FI	SIL MATRIX WITH PHENOS TO 1 MM, OF ANG, WH QTX	WK LIM		AT F292 LOC
F36	N-S	2NF36	S TO LCP	875	FR50	PYRO FLT	FR-GRN/W W-RUSTY	FI-MED	FRAGS WH QTZ TO 2 C, SIL, LIM, HEM, MN	WELL SIL FRAGS, WKLY LIM, HEM, MN STAIN		
DCSIDERD N END			25M		FR101	SILTSTONE						
DCSIDERD N END			210M		FR102	BLK FIBROUS MINE - SOOTY GOOTHITE??						
DCSIDERD N END			AS FS104 AT MAIN CRK		FR103	SED - FI FR AND CO FR						
DCSIDERD N END			1425 FR F506		FR104	SED - FI FR AND CO FR LT GREY, MED GR GRITTY SED WITH FI, DK GRY INC						
DCSIDERD N END			1525 FR FR104		FR105	CS LIGHT SED, BLOCKY						

B. GEOLOGY SURVEYS:

ROCK SAMPLES:

CLAIM:	LOCATION: CL. LINE:	CL. POST:	DIR.:	DIST (M):	NUMBER:	NAME:	COLOUR :	GR. SIZE:	——COMP.——:	ALT.:	STRUCT	COMMENTS
DCSIDERD	N END		2850 M		FR106	MED CO GRITTY LIGHT GREY SED- GREYWACKE? ROUNDED GRAINS; LIM ON SURF						

APPENDIX 5

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
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To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
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Project :
Comments: ATTN:DAVID KENNEDY

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CERTIFICATE OF ANALYSIS A9631660

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
FR 01	205	226	< 5	< 0.2	2.05	10	140	< 0.5	< 2	1.72	< 0.5	13	123	28	3.40	< 10	< 1	0.16	< 10	1.20	1845
FR 02	205	226	< 5	< 0.2	1.69	6	330	< 0.5	< 2	1.12	< 0.5	10	165	24	2.49	< 10	< 1	0.16	< 10	1.44	365
FR 03	205	226	< 5	< 0.2	1.87	12	210	< 0.5	< 2	0.15	< 0.5	10	106	33	3.38	< 10	< 1	0.16	< 10	1.02	720
FR 04	205	226	< 5	< 0.2	1.87	20	180	< 0.5	< 2	0.03	< 0.5	15	31	59	4.20	< 10	< 1	0.21	< 10	0.55	1780
FR 05	205	226	< 5	< 0.2	1.56	26	160	< 0.5	< 2	0.09	< 0.5	5	36	40	3.91	< 10	< 1	0.22	10	0.43	470
FR 06	205	226	< 5	0.2	1.25	16	140	< 0.5	< 2	0.04	< 0.5	20	28	76	3.60	< 10	< 1	0.13	10	0.35	955
FR 07	205	226	< 5	< 0.2	0.34	6	110	< 0.5	< 2	0.05	< 0.5	12	78	16	2.98	< 10	< 1	0.07	< 10	0.07	745
FR 08	205	226	< 5	< 0.2	0.52	2	100	< 0.5	< 2	0.40	< 0.5	7	139	10	1.92	< 10	< 1	0.06	< 10	0.22	1220
FR 09	205	226	< 5	0.2	0.50	16	100	< 0.5	< 2	0.10	< 0.5	10	86	31	2.00	< 10	< 1	0.09	< 10	0.13	660
FR 10	205	226	< 5	< 0.2	2.35	12	40	< 0.5	< 2	0.61	< 0.5	10	24	13	4.88	10	< 1	0.09	10	1.09	735
FR 11	205	226	< 5	< 0.2	0.58	2	140	< 0.5	< 2	1.35	< 0.5	4	185	13	1.07	< 10	< 1	0.06	< 10	0.28	1725
FR 12	205	226	< 5	< 0.2	1.51	8	440	< 0.5	< 2	0.03	< 0.5	14	39	49	3.46	< 10	< 1	0.17	< 10	0.64	985
FR 13	205	226	< 5	< 0.2	1.88	12	200	< 0.5	< 2	0.27	< 0.5	17	39	42	3.40	< 10	< 1	0.20	< 10	0.90	1135
FR 14	205	226	< 5	< 0.2	1.68	12	330	< 0.5	< 2	0.23	< 0.5	14	88	26	3.41	< 10	< 1	0.13	< 10	0.81	905
FR 15	205	226	< 5	< 0.2	0.14	< 2	40	< 0.5	< 2	0.01	< 0.5	2	197	16	0.96	< 10	< 1	0.02	< 10	0.02	600
FR 15A	205	226	< 5	< 0.2	0.34	6	30	< 0.5	< 2	0.47	< 0.5	1	100	6	0.73	< 10	< 1	< 0.01	10	0.13	255
FR 16	205	226	< 5	< 0.2	1.46	14	290	< 0.5	< 2	0.17	< 0.5	12	32	48	3.52	< 10	< 1	0.22	< 10	0.58	960
FR 17	205	226	< 5	< 0.2	1.64	12	180	< 0.5	< 2	0.14	< 0.5	8	38	48	3.49	< 10	< 1	0.21	< 10	0.72	980
FR 18	205	226	< 5	< 0.2	1.75	20	280	< 0.5	< 2	0.21	< 0.5	18	26	49	3.82	< 10	< 1	0.15	< 10	0.88	1235
FR 19	205	226	< 5	0.2	1.71	8	210	0.5	< 2	>15.00	< 0.5	19	7	30	3.28	< 10	< 1	0.01	30	0.95	>10000
FR 21	205	226	< 5	< 0.2	1.10	8	130	< 0.5	< 2	2.31	< 0.5	15	72	27	3.24	< 10	< 1	0.21	< 10	1.42	885
FR 22	205	226	< 5	< 0.2	2.51	10	290	0.5	< 2	0.34	< 0.5	15	103	46	3.55	< 10	< 1	0.20	< 10	1.69	770
FR 23	205	226	< 5	0.4	2.47	22	150	0.5	< 2	1.28	< 0.5	26	53	83	4.64	< 10	< 1	0.23	< 10	1.48	1775
FR 24	205	226	< 5	0.2	1.97	16	170	0.5	< 2	1.42	< 0.5	22	61	83	3.62	< 10	< 1	0.20	< 10	1.27	1190
FR 25	205	226	< 5	0.2	1.55	18	140	0.5	< 2	6.79	< 0.5	9	34	38	4.11	< 10	< 1	0.13	< 10	2.30	4790
FR 26	205	226	< 5	< 0.2	0.66	2	110	< 0.5	< 2	0.63	< 0.5	13	87	24	3.35	< 10	< 1	0.10	< 10	0.91	455
FR 27	205	226	< 5	< 0.2	1.97	6	160	< 0.5	< 2	1.50	< 0.5	15	115	23	3.50	10	< 1	0.09	< 10	2.10	925
FR 28	205	226	< 5	0.2	1.64	26	540	< 0.5	< 2	0.61	< 0.5	10	55	46	4.13	< 10	< 1	0.31	< 10	0.35	445
FR 29	205	226	< 5	< 0.2	1.90	8	190	< 0.5	< 2	0.95	< 0.5	13	124	25	2.68	< 10	< 1	0.20	< 10	1.35	390
FR 30	205	226	< 5	0.2	2.17	12	140	< 0.5	< 2	0.07	< 0.5	8	107	44	4.08	< 10	< 1	0.14	< 10	1.27	115
FR 31	205	226	< 5	< 0.2	2.30	8	250	0.5	< 2	0.31	< 0.5	18	167	36	4.04	< 10	< 1	0.13	< 10	1.52	215
FR 32	205	226	< 5	< 0.2	1.27	10	160	< 0.5	< 2	0.04	< 0.5	3	37	16	2.82	< 10	< 1	0.16	< 10	0.48	570
FR 33	205	226	< 5	< 0.2	1.72	14	200	< 0.5	< 2	0.20	< 0.5	6	29	24	3.51	< 10	< 1	0.14	< 10	0.76	825
FR 33A	205	226	< 5	< 0.2	0.58	34	150	< 0.5	< 2	0.03	< 0.5	9	29	21	3.57	< 10	< 1	0.15	< 10	0.09	225
FR 34	205	226	< 5	< 0.2	1.78	6	170	< 0.5	< 2	0.30	< 0.5	5	98	25	2.72	< 10	< 1	0.15	< 10	1.08	515
FR 35	205	226	< 5	0.2	2.31	28	190	< 0.5	< 2	0.39	< 0.5	10	61	33	4.32	< 10	< 1	0.13	< 10	1.40	595
FR 35A	205	226	< 5	< 0.2	1.83	8	150	< 0.5	< 2	0.44	< 0.5	13	103	22	3.22	< 10	< 1	0.09	< 10	1.14	1520
FR 36	205	226	< 5	0.6	2.15	22	130	0.5	< 2	0.45	< 0.5	20	56	54	4.09	< 10	< 1	0.16	< 10	1.20	1685
FR 37	205	226	< 5	< 0.2	1.84	18	230	< 0.5	< 2	0.07	< 0.5	21	38	28	3.50	< 10	< 1	0.16	< 10	0.74	2300
FR 38	205	226	< 5	< 0.2	1.72	12	160	< 0.5	< 2	0.31	< 0.5	7	51	30	3.19	< 10	< 1	0.16	10	0.87	1020

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN:DAVID KENNEDY

Certificate Date: 19-SEP-96
Invoice No. : I9631660
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9631660

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
FR 01	205	226	3	0.03	87	500	8	< 2	5	82	0.01	< 10	< 10	53	< 10	80
FR 02	205	226	1	0.02	97	360	4	< 2	6	86	< 0.01	< 10	< 10	46	< 10	86
FR 03	205	226	3	0.02	65	420	6	< 2	5	18	< 0.01	< 10	< 10	59	< 10	74
FR 04	205	226	3	0.02	39	440	12	< 2	6	8	< 0.01	< 10	< 10	67	< 10	108
FR 05	205	226	3	0.02	13	470	16	2	4	9	< 0.01	< 10	< 10	51	< 10	74
FR 06	205	226	3	0.03	34	510	12	< 2	8	10	< 0.01	< 10	< 10	71	< 10	142
FR 07	205	226	1	0.02	73	440	4	< 2	4	14	< 0.01	< 10	< 10	31	< 10	128
FR 08	205	226	1	0.01	42	350	2	< 2	2	37	< 0.01	< 10	< 10	18	< 10	62
FR 09	205	226	1	0.03	57	590	8	< 2	3	8	< 0.01	< 10	< 10	23	< 10	84
FR 10	205	226	2	0.04	4	1540	10	< 2	8	11	0.19	< 10	< 10	151	< 10	114
FR 11	205	226	2	< 0.01	16	180	< 2	< 2	1	111	< 0.01	< 10	< 10	10	< 10	70
FR 12	205	226	< 1	0.03	44	280	10	< 2	6	12	< 0.01	< 10	< 10	58	< 10	162
FR 13	205	226	1	0.01	52	270	10	< 2	6	9	0.17	< 10	< 10	42	< 10	86
FR 14	205	226	2	0.03	80	940	10	< 2	5	13	< 0.01	< 10	< 10	50	< 10	82
FR 15	205	226	< 1	< 0.01	16	170	< 2	< 2	< 1	1	< 0.01	< 10	< 10	8	< 10	26
FR 15A	205	226	1	0.08	3	190	2	< 2	1	8	0.08	< 10	< 10	19	< 10	36
FR 16	205	226	1	0.01	34	300	14	< 2	6	13	0.22	< 10	< 10	49	< 10	72
FR 17	205	226	1	0.01	30	260	12	< 2	6	10	0.19	< 10	< 10	47	< 10	60
FR 18	205	226	1	< 0.01	48	310	16	< 2	6	14	0.19	< 10	< 10	47	< 10	106
FR 19	205	226	< 1	0.01	41	1670	< 2	2	8	526	< 0.01	< 10	< 10	61	< 10	76
FR 21	205	226	3	0.03	72	680	4	< 2	5	115	< 0.01	< 10	< 10	42	< 10	84
FR 22	205	226	1	0.01	108	400	6	< 2	6	17	0.10	< 10	< 10	59	< 10	96
FR 23	205	226	5	0.02	97	760	8	< 2	8	90	< 0.01	< 10	< 10	86	< 10	232
FR 24	205	226	4	0.03	80	450	8	< 2	7	93	< 0.01	< 10	< 10	67	< 10	230
FR 25	205	226	1	0.01	32	1450	2	< 2	7	428	< 0.01	< 10	< 10	85	< 10	80
FR 26	205	226	1	0.04	96	500	< 2	< 2	6	28	< 0.01	< 10	< 10	53	< 10	74
FR 27	205	226	1	0.04	84	520	2	< 2	7	36	< 0.01	< 10	< 10	79	< 10	76
FR 28	205	226	2	0.03	38	3670	12	< 2	8	89	< 0.01	< 10	< 10	104	< 10	120
FR 29	205	226	1	0.03	118	700	8	< 2	6	77	< 0.01	< 10	< 10	50	< 10	100
FR 30	205	226	2	0.01	90	550	10	< 2	5	17	< 0.01	< 10	< 10	65	< 10	64
FR 31	205	226	4	0.02	194	610	6	< 2	6	39	< 0.01	< 10	< 10	59	< 10	132
FR 32	205	226	< 1	0.03	22	380	10	< 2	3	5	< 0.01	< 10	< 10	33	< 10	50
FR 33	205	226	1	0.01	32	700	12	< 2	5	10	0.11	< 10	< 10	47	< 10	72
FR 33A	205	226	1	0.01	19	310	16	< 2	3	9	< 0.01	< 10	< 10	38	< 10	86
FR 34	205	226	2	< 0.01	72	570	4	< 2	4	10	0.18	< 10	< 10	45	< 10	60
FR 35	205	226	3	0.01	63	1130	10	< 2	5	22	0.15	< 10	< 10	51	< 10	78
FR 35A	205	226	3	0.02	107	410	6	< 2	4	22	0.06	< 10	< 10	43	< 10	120
FR 36	205	226	2	0.01	67	530	10	< 2	5	34	< 0.01	< 10	< 10	61	< 10	142
FR 37	205	226	2	0.02	62	450	14	< 2	4	7	< 0.01	< 10	< 10	48	< 10	74
FR 38	205	226	3	0.01	50	1760	10	< 2	4	25	0.01	< 10	< 10	52	< 10	76

CERTIFICATION: [signature]

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 905-624-2806 FAX: 905-624-6163

To: GEOFINE EXPLORATION CONSULTANTS LTD.
49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN:DAVID KENNEDY

Certificate Date: 19-SEP-96
Invoice No. : I9631660
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9631660

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
FR 39	205	226	< 5	< 0.2	1.68	10	300	< 0.5	< 2	0.24	< 0.5	6	131	37	2.47	< 10	< 1	0.22	10	0.79	615
FR 40	205	226	< 5	< 0.2	2.34	14	290	< 0.5	< 2	0.33	< 0.5	11	68	31	3.98	< 10	< 1	0.19	10	1.19	1015
FR 41	205	226	< 5	< 0.2	1.78	10	220	< 0.5	< 2	0.10	< 0.5	10	161	29	2.95	< 10	< 1	0.19	< 10	0.85	365
FR 42	205	226	< 5	< 0.2	1.36	2	270	< 0.5	< 2	0.11	< 0.5	17	143	31	2.44	< 10	< 1	0.20	< 10	0.55	900
FR 43	205	226	< 5	< 0.2	0.43	16	150	< 0.5	< 2	0.24	< 0.5	1	103	6	0.81	< 10	< 1	0.19	10	0.04	440
FR 44	205	226	< 5	< 0.2	4.76	28	110	0.5	< 2	3.96	< 0.5	18	23	43	5.34	10	< 1	0.08	< 10	1.94	1385
FR 45	205	226	< 5	< 0.2	1.50	< 2	180	< 0.5	< 2	1.34	< 0.5	4	43	9	2.55	< 10	< 1	0.15	< 10	0.65	440
FR 46	205	226	< 5	< 0.2	0.56	2	70	< 0.5	< 2	0.08	< 0.5	< 1	92	3	0.89	< 10	< 1	0.17	20	0.12	295
FR 47	205	226	< 5	< 0.2	2.33	< 2	240	< 0.5	< 2	0.78	< 0.5	6	26	12	4.06	< 10	< 1	0.20	10	1.03	345
FR 48	205	226	< 5	< 0.2	2.25	2	240	< 0.5	< 2	0.77	< 0.5	6	25	12	3.97	< 10	< 1	0.18	10	1.00	350
FR 49	205	226	< 5	< 0.2	1.45	10	300	< 0.5	< 2	0.61	< 0.5	12	153	25	2.43	< 10	< 1	0.23	< 10	0.73	520
FR 50	205	226	< 5	< 0.2	2.01	42	140	0.5	< 2	1.48	0.5	8	42	8	3.32	< 10	< 1	0.27	10	0.90	1245

CERTIFICATION:

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
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To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN:DAVID KENNEDY

Page Number :2-B
Total Pages :2
Certificate Date: 19-SEP-96
Invoice No. : I9631660
P.O. Number :
Account :KIV

CERTIFICATE OF ANALYSIS A9631660

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
FR 39	205	226	2	0.04	62	1050	6	< 2	4	22	< 0.01	< 10	< 10	52	< 10	70
FR 40	205	226	4	0.01	46	1980	8	< 2	5	27	0.01	< 10	< 10	49	< 10	102
FR 41	205	226	3	0.03	78	690	8	< 2	4	20	< 0.01	< 10	< 10	52	< 10	78
FR 42	205	226	1	0.03	105	590	8	< 2	5	16	< 0.01	< 10	< 10	43	< 10	136
FR 43	205	226	1	0.03	6	140	2	< 2	1	10	< 0.01	< 10	< 10	6	< 10	22
FR 44	205	226	1	0.03	5	1110	10	< 2	9	45	0.23	< 10	< 10	143	< 10	106
FR 45	205	226	1	0.04	3	120	8	< 2	5	39	< 0.01	< 10	< 10	13	< 10	48
FR 46	205	226	< 1	0.03	1	120	8	< 2	< 1	5	< 0.01	< 10	< 10	6	< 10	38
FR 47	205	226	< 1	0.02	3	400	8	< 2	6	24	0.02	< 10	< 10	16	< 10	84
FR 48	205	226	< 1	0.02	3	390	6	< 2	6	24	0.02	< 10	< 10	16	< 10	82
FR 49	205	226	2	0.03	86	560	8	< 2	5	48	< 0.01	< 10	< 10	37	< 10	160
FR 50	205	226	< 1	0.03	5	1000	14	< 2	4	31	0.04	< 10	< 10	47	< 10	200

CERTIFICATION: [signature]

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To: GEOFINE EXPLORATION CONSULTANTS LTD.

49 NORMANDALE RD.
UNIONVILLE, ON
L3R 4J8

Project :
Comments: ATTN:DAVID KENNEDY

Certificate Date: 19-SEP-96
Invoice No. : I9631625
P.O. Number :
Account : KIV

CERTIFICATE OF ANALYSIS A9631625

SAMPLE	PREP CODE		Au ppb RUSH	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
FR 101	255	226	< 5	0.4	2.98	22	200	0.5	< 2	0.14	< 0.5	12	67	54	4.57	< 10	< 1	0.26	< 10	1.39	380
FR 102	255	226	25	0.2	1.69	12	130	< 0.5	< 2	0.03	< 0.5	14	93	34	3.94	< 10	< 1	0.20	< 10	0.42	535
FR 103	255	226	5	0.2	2.38	12	140	< 0.5	< 2	0.63	< 0.5	16	212	33	3.71	< 10	< 1	0.14	< 10	1.87	915
FR 104	255	226	< 5	0.2	3.00	10	120	0.5	< 2	1.28	< 0.5	23	117	41	4.02	10	< 1	0.08	< 10	2.40	705
FR 105	255	226	< 5	< 0.2	2.82	6	110	< 0.5	< 2	0.35	< 0.5	17	145	21	4.12	10	< 1	0.10	< 10	2.52	405
FR 106	255	226	< 5	< 0.2	2.48	6	180	< 0.5	< 2	0.63	< 0.5	15	133	21	3.39	10	< 1	0.08	< 10	2.42	330
IR-1	255	226	< 5	< 0.2	3.03	2	100	< 0.5	< 2	1.16	< 0.5	16	45	52	4.94	10	< 1	0.15	< 10	1.82	980

CERTIFICATION: [signature]

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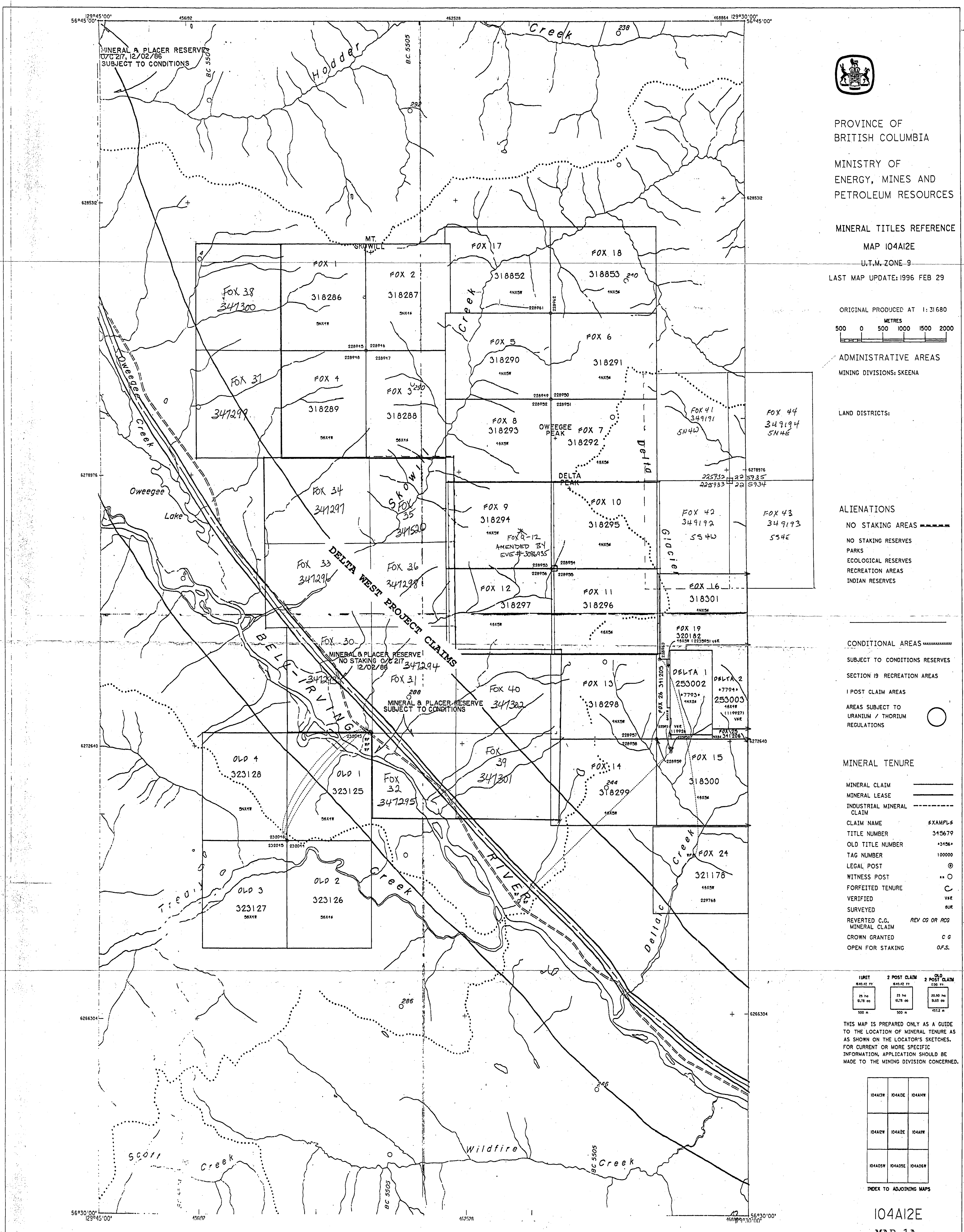
Account : KIV

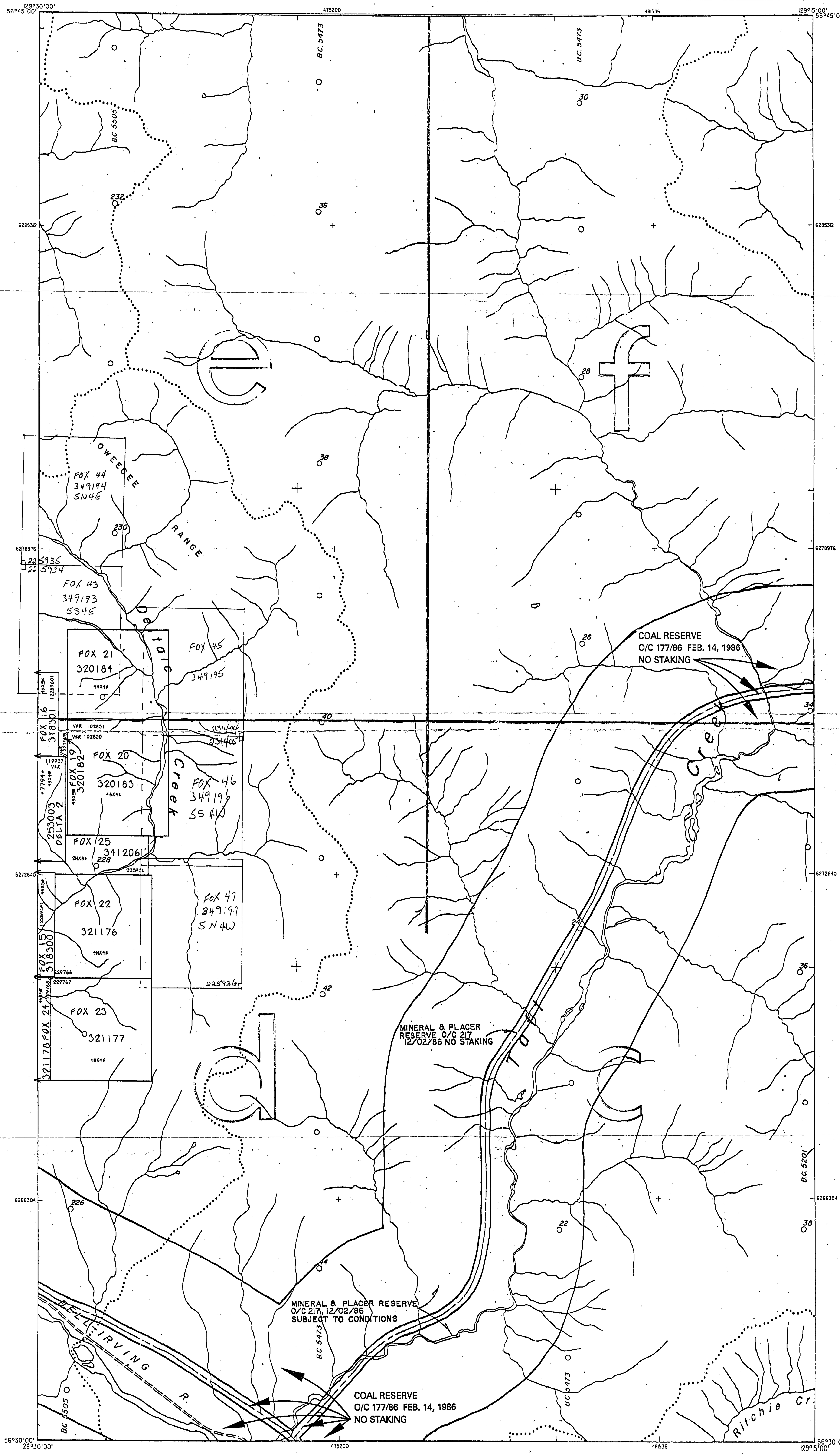
CERTIFICATE OF ANALYSIS A9631625

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
FR 101	255	226	2	0.01	66	990	10	2	6	22	< 0.01	< 10	< 10	77	< 10	108
FR 102	255	226	1	0.01	57	370	10	< 2	5	10	< 0.01	< 10	< 10	42	< 10	130
FR 103	255	226	1	0.01	179	810	10	< 2	8	60	< 0.01	< 10	< 10	56	< 10	100
FR 104	255	226	1	0.02	81	450	8	< 2	11	25	0.24	< 10	< 10	128	< 10	116
FR 105	255	226	< 1	0.04	71	740	6	< 2	7	15	< 0.01	< 10	< 10	95	< 10	90
FR 106	255	226	< 1	0.03	64	680	6	< 2	10	21	0.22	< 10	< 10	88	< 10	76
IR-1	255	226	< 1	0.01	11	1020	6	< 2	9	35	0.29	< 10	< 10	153	< 10	96

CERTIFICATION: [signature]


PROVINCE OF BRITISH COLUMBIA
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES
MINERAL TITLES REFERENCE
MAP 104A12E
U.T.M. ZONE 9
LAST MAP UPDATE: 1996 FEB 29
ORIGINAL PRODUCED AT 1: 31680
METRES
500 0 500 1000 1500 2000
ADMINISTRATIVE AREAS
MINING DIVISIONS: SKEENA
LAND DISTRICTS:
ALIENATIONS
NO STAKING AREAS
NO STAKING RESERVES
PARKS
ECOLOGICAL RESERVES
RECREATION AREAS
INDIAN RESERVES
CONDITIONAL AREAS
SUBJECT TO CONDITIONS RESERVES
SECTION 19 RECREATION AREAS
1 POST CLAIM AREAS
AREAS SUBJECT TO URANIUM / THORIUM REGULATIONS
MINERAL TENURE
MINERAL CLAIM
MINERAL LEASE
INDUSTRIAL MINERAL CLAIM
CLAIM NAME
TITLE NUMBER
OLD TITLE NUMBER
TAG NUMBER
LEGAL POST
WITNESS POST
FORFEITED TENURE
VERIFIED
SURVEYED
REVERTED C.G. MINERAL CLAIM
CROWN GRANTED
OPEN FOR STAKING
EXAMPLE
345679
3456
100000
REV CG OR RCG
C G
O.F.S.
UNIT
2 POST CLAIM
OLD 2 POST CLAIM
THIS MAP IS PREPARED ONLY AS A GUIDE TO THE LOCATION OF MINERAL TENURE AS AS SHOWN ON THE LOCATOR'S SKETCHES. FOR CURRENT OR MORE SPECIFIC INFORMATION, APPLICATION SHOULD BE MADE TO THE MINING DIVISION CONCERNED.
104A13W 104A13E 104A14W
104A12W 104A12E 104A11W
104A05W 104A05E 104A06W
INDEX TO ADJOINING MAPS
104A12E
MAP 1A
96-52 ①
56°45'00"
129°45'00"
129°30'00"
56°30'00"
MINERAL & PLACER RESERVE O/C 217, 12/02/86 SUBJECT TO CONDITIONS
Hodder Creek
Creek
BC 5504
BC 5505
MT. SKOWILL
FOX 1 318286
FOX 2 318287
FOX 38 341300
FOX 37 341299
FOX 4 318289
FOX 3 318288
FOX 17 318852
FOX 18 318853
FOX 5 318290
FOX 6 318291
FOX 8 318293
OWEEGEE PEAK
FOX 7 318292
DELTA PEAK
FOX 9 318294
FOX 10 318295
FOX 9-12 AMENDED BY EVG #3086935
FOX 12 318297
FOX 11 318296
FOX 16 318301
FOX 41 349191 5N4W
FOX 44 349194 5N4E
FOX 42 349192 5S4W
FOX 43 349193 5S4E
FOX 34 341297
FOX 35 341320
FOX 33 341296
FOX 36 341298
DELTA WEST PROJECT CLAIMS
FOX 30 341293
MINERAL & PLACER RESERVE NO STAKING O/C 217 12/02/86
FOX 31 341294
MINERAL & PLACER RESERVE SUBJECT TO CONDITIONS
FOX 40 341302
FOX 19 320182
FOX 13 318298
DELTA 1 253002 *7793*
DELTA 2 253003 *7794*
FOX 26 311205
FOX 25 341206
FOX 14 318299
FOX 15 318300
FOX 39 341301
FOX 32 347295
OLD 4 323128
OLD 1 323125
OLD 3 323127
OLD 2 323126
FOX 24 321178
Oweegee Creek
Oweegee Lake
Skowill
Delta Glacier
BELL-IRVING RIVER
Treaty Creek
Deltaic Creek
Scott Creek
Wildfire Creek
Creek

104A/11W



PROVINCE OF
BRITISH COLUMBIA

MINISTRY OF
ENERGY, MINES AND
PETROLEUM RESOURCES

MINERAL TITLES REFERENCE
MAP 104A11W
U.T.M. ZONE 9
LAST MAP UPDATE: 1996 FEB 13

ORIGINAL PRODUCED AT 1:31680
METRES
500 0 500 1000 1500 2000

ADMINISTRATIVE AREAS
MINING DIVISIONS: SKEENA

LAND DISTRICTS:

ALIENATIONS
NO STAKING AREAS
NO STAKING RESERVES
PARKS
ECOLOGICAL RESERVES
RECREATION AREAS
INDIAN RESERVES

CONDITIONAL AREAS
SUBJECT TO CONDITIONS RESERVES
SECTION 19 RECREATION AREAS
1 POST CLAIM AREAS
AREAS SUBJECT TO URANIUM / THORIUM REGULATIONS

MINERAL TENURE

MINERAL CLAIM	
MINERAL LEASE	
INDUSTRIAL MINERAL CLAIM	
CLAIM NAME	EXAMPLE
TITLE NUMBER	345679
OLD TITLE NUMBER	*3456*
TAG NUMBER	100000
LEGAL POST	
WITNESS POST	
FORFEITED TENURE	
VERIFIED	VER
SURVEYED	SUR
REVERTED C.G. MINERAL CLAIM	REV CG OR RCG
CROWN GRANTED	C G
OPEN FOR STAKING	O.F.S.

1 UNIT	2 POST CLAIM	OLD 2 POST CLAIM
1640.42 ft	1640.42 ft	1500 ft
25 ha 61.78 ac	25 ha 61.78 ac	20.90 ha 51.65 ac
500 m	500 m	457.2 m

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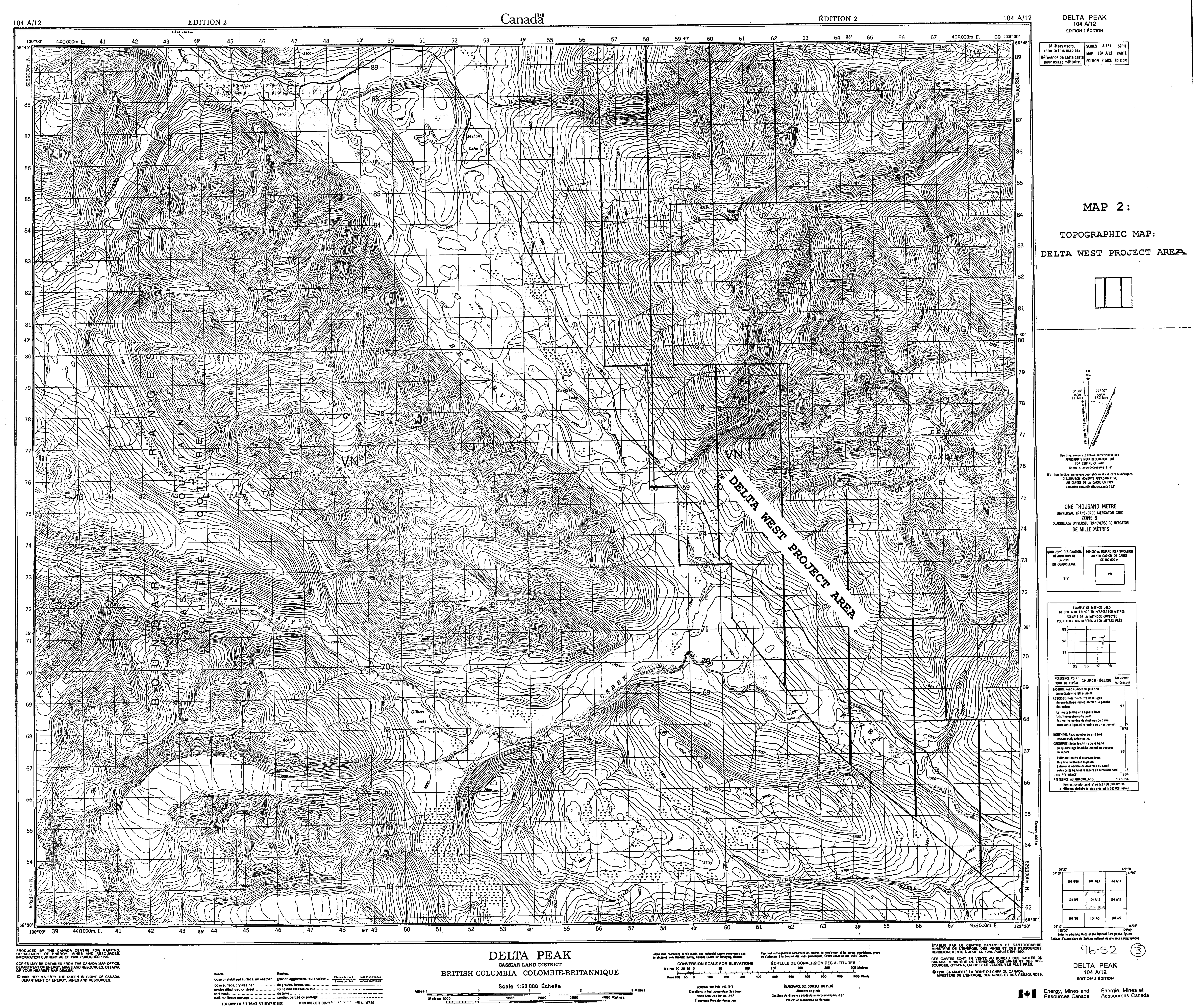
104A13E	104A14W	104A14E
104A12E	104A11W	104A11E
104A05E	104A06W	104A06E

INDEX TO ADJOINING MAPS

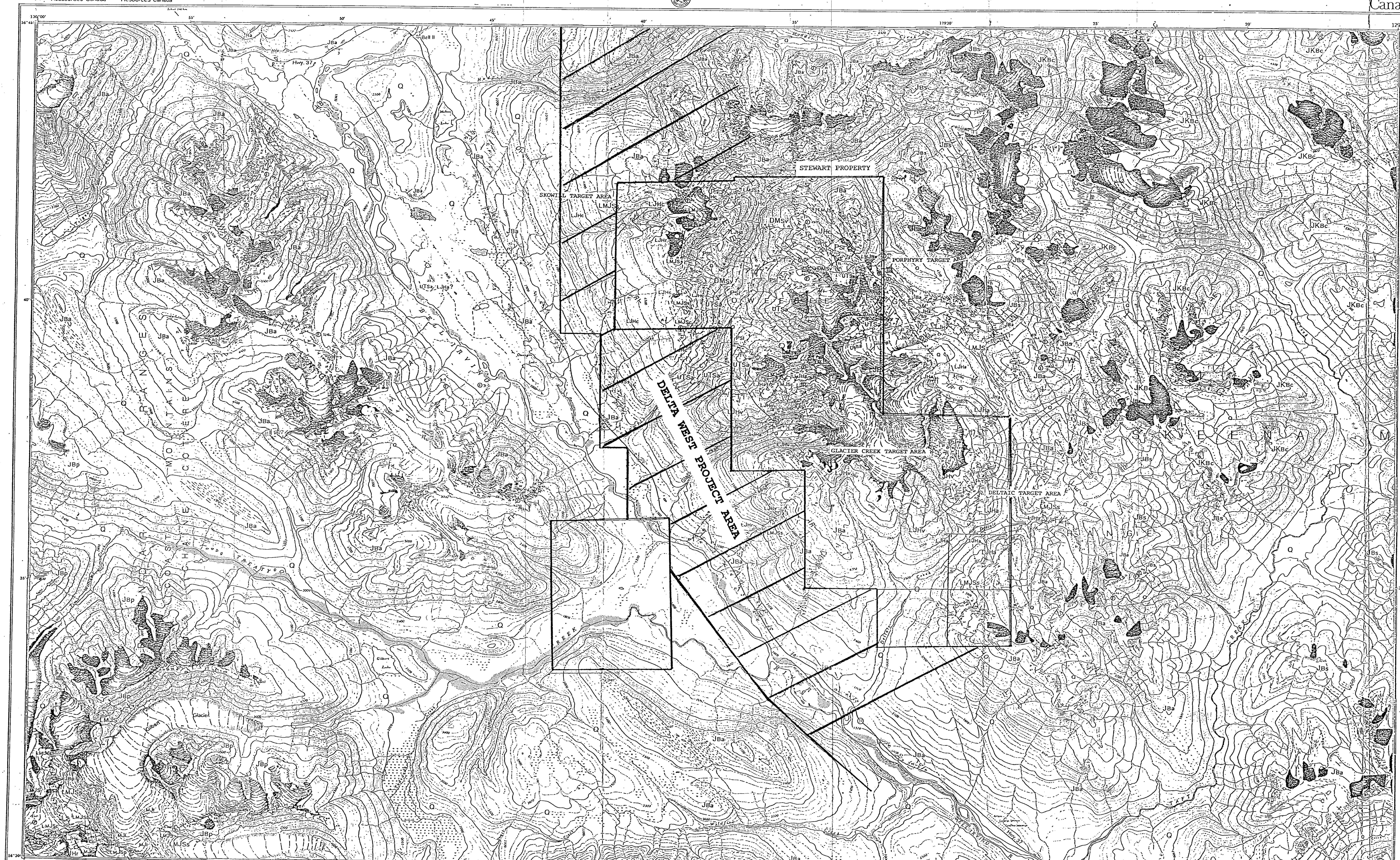
104A11W
MAP 1B

96-52 (2)


104 A/12
EDITION 2
Canada
ÉDITION 2
104 A/12
DELTA PEAK
104 A/12
EDITION 2 ÉDITION
Military users, refer to this map as:
Référence de cette carte pour usage militaire:
SERIES A 721 SÉRIE
MAP 104 A/12 CARTE
EDITION 2 MCE ÉDITION
MAP 2:
TOPOGRAPHIC MAP:
DELTA WEST PROJECT AREA
DELTA WEST PROJECT AREA
BOUNDARY RANGES
COAST MOUNTAINS
CHAÎNE CÔTIÈRE
SNOWSLIDE RANGE
SKEENA MOUNTAINS
SPOWERGEE RANGE
BELL-IRVING
TREATY CREEK
DELTA GLACIER
Gilbert Lake
Mehan Lake
VN
ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 9
QUADRILLAGE UNIVERSEL TRANSVERSE DE MERCATOR
DE MILLE MÈTRES
DELTA PEAK
CASSIAR LAND DISTRICT
BRITISH COLUMBIA COLOMBIE-BRITANNIQUE
Scale 1:50 000 Échelle
96-52 (3)
DELTA PEAK
104 A/12
EDITION 2 ÉDITION
Energy, Mines and Resources Canada
Énergie, Mines et Ressources Canada

Énergie, Mines et Ressources Canada   Energy, Mines and Resources Canada

Canada



DELTA PEAK
CASSIAR LAND DISTRICT
BRITISH COLUMBIA COLOMBIE-BRITANNIQUE
Scale 1:50 000 Échelle

TAFT CREEK
CASSIAR LAND DISTRICT
BRITISH COLUMBIA
Scale 1:50,000 Échelle

GEOLOGY OF OWEEGEE DOME

DELTA PEAK (104A/12) AND TAFT CREEK (104A/11W) MAP AREAS, NORTHWESTERN BRITISH COLUMBIA

C.J. GREIG and C.A. EVENCHICK
(with contributions by M.H.Gunning, B.D.Ricketts and S.P.Porter)

Scale 1:50,000

LEGEND

QUATERNARY

Q	thick drift: colluvium, alluvium, till.

STRATIFIED ROCKS

MIDDLE(?) AND UPPER JURASSIC TO LOWER CRETACEOUS(?)

BOWSER LAKE GROUP

JKBc	chert litharenite lithofacies: fine to medium grained, moderately well sorted chert litharenite, interrbedded silty mudstone, common bivalve coquinas, rare chert pebble conglomerate.

MIDDLE(?) AND UPPER JURASSIC

BOWSER LAKE GROUP

JBs	silty mudstone lithofacies: bioturbated silty mudstone with regularly interbedded, buff weathering, Fe-carbonate cemented fine grained sandstone.
JBa	arkosic volcanic litharenite turbidite lithofacies; thin and medium bedded, fine to medium grained, poorly sorted arkosic litharenite with interbedded silty mudstone.
JBp	pyritic silty mudstone lithofacies; pyritic, siliceous, tuffaceous silty mudstone, fine to medium grained lithic arkose.

LOWER AND MIDDLE JURASSIC

HAZELTON GROUP
SALMON RIVER FORMATION

LMJSs	thin bedded siliceous silty mudstone, clay-altered dust tuff(?), discontinuous limestone lenses.
LMJSb	amygdaloidal pillow basalt, basalt pillow breccia, tuff-breccia and debris flow breccia.
LMJSr	rhyodacite lapilli tuff-breccia; locally welded.
LMJS	fossiliferous limy, coarse grained arkose; polymict pebble, boulder and cobble conglomerate.
LMJSp	pyritic silty shale and mudstone.
LMJS	undivided Spatsizi Group

LOWER JURASSIC

HAZELTON GROUP

LJHr	felsic lapilli tuff-breccia, ash and dust tuff.
LJHc	boulder and cobble conglomerate, pebbly sandstone; well-stratified, green and maroon ash, lapilli and dust tuff, tuffaceous arkose and mudstone.
LJHv	intermediate to mafic plagioclase-pyroxene and subordinate plagioclase-hornblende phyric lapilli tuff-breccia, lapilli, ash and dust tuff, flows; derived debris flows, arkose and siltstone.
LJHa	thick bedded and massive tuffaceous arkose and siltstone with abundant syn-depositional soft-sediment deformation structures; mafic to intermediate fragmental volcanic rocks and associated debris flows.

UPPER TRIASSIC

STUHINI GROUP

UTSa	plagioclase-pyroxene crystal tuff turbidite arkose and siltstone, plagioclase-pyroxene phyric mafic to intermediate lapilli and ash tuff, tuff-breccia and rare flows; minor limestone lenses.

PALEOZOIC

STIKINE ASSEMBLAGE

PERMIAN

Psl	medium and thick bedded to massive bioclastic limestone with chert interlayers; thin-bedded micrite.

DEVONIAN AND MISSISSIPPIAN

DMSv	mafic to intermediate plagioclase-pyroxene phyric lapilli tuff, lapilli tuff-breccia, and flows; plagioclase phyric amygdaloidal andesite(?) flows; rhyolite and rhyodacite lapilli tuff-breccia.

INTRUSIVE ROCKS

MIDDLE JURASSIC OR YOUNGER

MJi	pyroxene diorite sills.

MAP SYMBOLS

- Limit of thick Quaternary drift.
- Geologic contact: defined, approximate, inferred.
- Thrust or reverse fault, defined, approximate, inferred; teeth on upthrown side.
- High angle fault, defined, approximate, inferred; ball on downthrown side.
- Bedding: inclined, vertical, overturned; estimated: vg=very gentle(<10°), g=gentle (10°-30°), m=moderate(30°-50°), s=steep(50°-70°), vs=very steep(>70°).
- Bedding formlines.
- Cleavage: inclined, vertical.
- Minor fold axis, plunge.
- Anticline, overturned anticline, trace of axial surface: defined, approximate; arrow indicates vergence direction.
- Syncline, overturned syncline, trace of axial surface: defined, approximate; arrow indicates vergence direction.
- Line of cross-section

MAP 3

GEOLOGY - GENERAL PROJECT AREA

E **PROJECT AREA**

96-52 (4)


N
FOX 38
FOX 1
FOX 2
FOX 17
FOX 5
FOX 37
FOX 4
FOX 3
FOX 8
FOX 34
FOX 35
FOX 9
FOX 33
FOX 36
FOX 12
FOX 30
FOX 31
FOX 40
FOX 32
FOX 39
SKOWILL CREEK
GLACIER CREEK
HIGHWAY 37
BELL-IRVING RIVER
MAP 4
DELTA WEST PROJECT
SAMPLE RESULTS
1:10,000
FS 21 STREAM SEDIMENT SAMPLE LOCATION AND NUMBER
FR 32 ROCK CHIP SAMPLE AND LOCATION
25,126,47,0.2,0.5,310 Au (ppb), Zn, Cu, Ag, Cd, Ba (ppm)
CLAIM LINE
LEGAL CLAIM POST

96-52 (5)

FOX 38
FOX 1
FOX 2
FOX 17
N
FOX 5
FOX 37
FOX 4
FOX 3
FOX 8
FOX 34
FOX 35
FOX 9
SKOWILL CREEK
FOX 33
FOX 36
FOX 12
GLACIER CREEK
FOX 30
HIGHWAY 37
FOX 31
FOX 40
BELL-IRVING RIVER
FOX 32
FOX 39
5000
4500
5500
2500
6000
3500
2000
clear cut
alder
fir
MAP 5
DELTA WEST PROJECT
GEOLOGY
1:10,000
ROCK SAMPLE LOCATION
FR 23 SAMPLE #
SILTSTONE NAME
DARK BLUE COLOUR
FINE GRAIN SIZE
STREAM
TOPOGRAPHIC CONTOURS (INTERVAL 500 FEET)
fir, alder, clear cut VEGETATION

96-52 (6)