Province of British Columbia
Ministry of Energy, Mines and
Petroleum Resources

MINERAL RESOURCES DIVISION
Geological Survey Branch

EXPLORATION IN BRITISH COLUMBIA 1987

Part A — Overview of Exploration Activity

Part B — Geological Descriptions of Selected Properties

Part C — Assessment Report Summaries, Minerals and Coal

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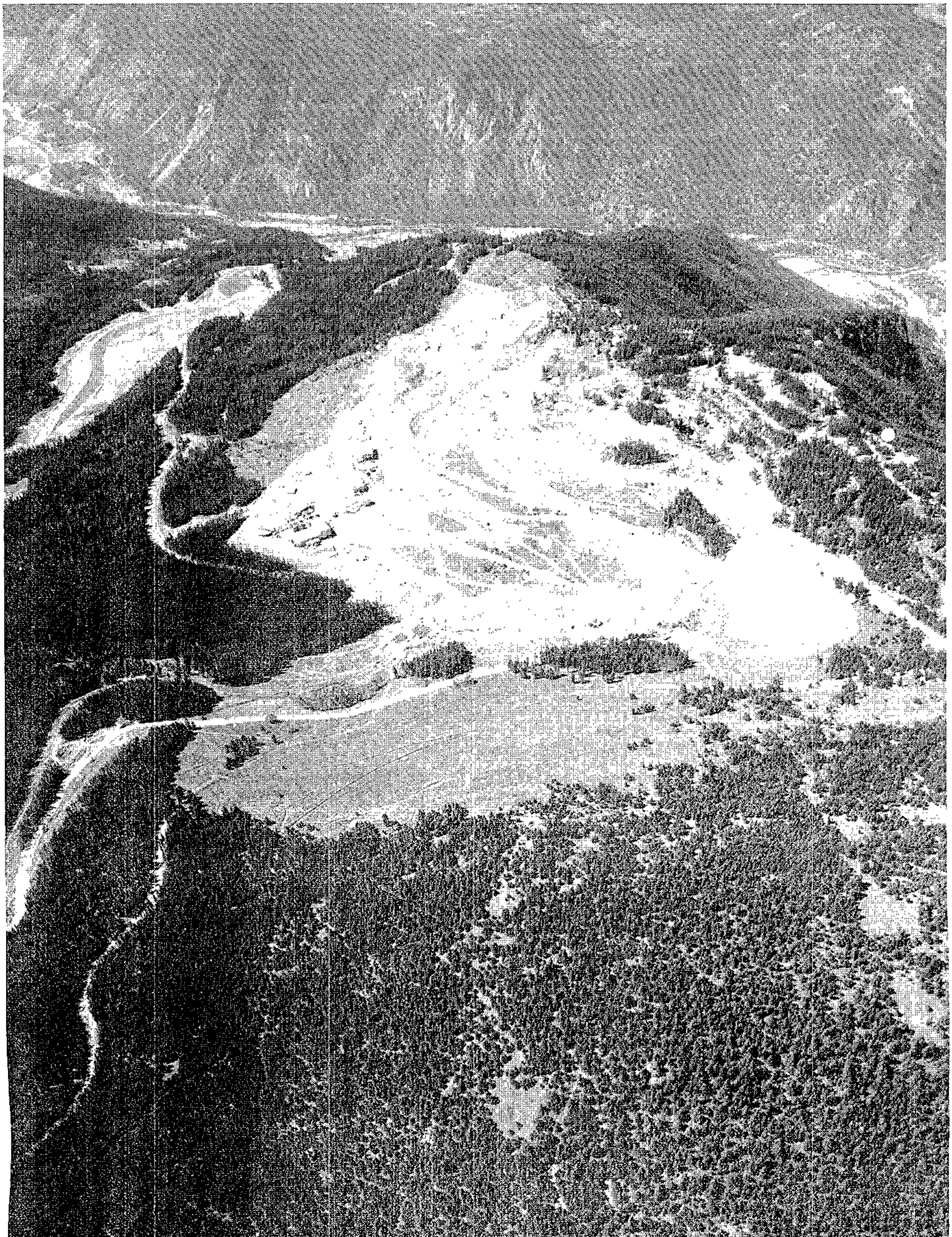

Frontispiece: The Nickel Plate mine of Mascot Gold Mines Ltd. which opened in 1987.

FORWARD

The first Minister of Mines of the Province of British Columbia was appointed in 1874. One of his responsibilities was "the duty of collecting information on the subject of the mining industries of the Province". This material, which consisted of reports by the Gold Commissioners and the Mining Recorders of the province, was published in the Annual Report of the Minister of Mines.

A Bureau of Mines was established by Parliamentary authority in 1895 and in 1896 was staffed by a Provincial Mineralogist and an assayer/chemist. Technical reports on mines and mining activities were prepared by them and published in the Annual Report, together with reports contributed by the Mining Recorders and Gold Commissioners.

Over the years, with the expansion of the mining industry, the staff of the Department of Mines grew, as did the number and size of the technical reports on geology and mining that were still published in the Annual Report of the Minister of Mines. Over a period of nearly 75 years the Annual Report became known as the authoritative record of mining in the province

However, because of the size to which the Annual Report had grown, it was decided in 1969 to publish all geological and technical reports dealing with solid minerals in a separate volume entitled *Geology, Exploration and Mining in British Columbia*. Thus a new annual publication was initiated with chapters on exploration and mining related to metals, placer, structural materials and industrial minerals, and coal. In 1975 a revised format was introduced for *Geology, Exploration and Mining in British Columbia* to allow the three main sections to be released as soon as prepared with the whole to be eventually bound together as a volume. The separate sections are *Mining in British Columbia* - a record of mining in the province plus the Chief Inspector's report; *Exploration in British Columbia* - a record of the performance of the industry in exploration; and *Geology in British Columbia* - a record of the mapping and research of the Geological Survey Division of the Mineral Resources Branch. The *Geology in British Columbia* section has been discontinued with the final edition covering 1977-1981.

In the 1981 to 1984 editions of *Exploration in British Columbia*, a computerized format based only on assessment reports submitted, was introduced to further improve the timeliness of information release. Since 1985, *Exploration in British Columbia* has been divided into three parts: Part A is an exploration overview; Part B contains short geological writeups on properties mapped by Ministry geologists; and Part C is a computer listing of exploration work on properties, based on assessment reports submitted.

Assessment reports are confidential for one year from date of submission. Permission was requested from companies to publish the information submitted on the "Assessment Report Title Page and Summary" in Part C of the volume, prior to the expiry of the confidential period. Where this was refused the entry is blank and the information will be published in *Exploration in British Columbia 1988*.

PART A

OVERVIEW

PART A
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OVERVIEW

By V.A. Preto, Manager, District Geology and Coal Resources

INTRODUCTION

Mineral exploration in British Columbia reached record levels in 1987, driven by strong interest in precious metals, flow-through financing, continued exploration successes, and the opening of another new gold mine, at Hedley. The provincial government Financial Assistance for Mineral Exploration (FAME) program was continued for a second year providing $5 million in funding, and contributed significantly to the attainment of such high levels of exploration activity and expenditures.

Major diamond-drilling programs were up 68 per cent, to 150 in 1987 from 89 in 1986. The number of lode and placer claims staked during the year was 89 185, up 37 per cent from the 65 215 claims staked in 1986. Exploration expenditures reached an all-time high of $189 million, double the $94.2 million spent in 1986 and 2.5 times the $80 million spent in 1985 (Figure A1). Fully two-thirds of these expenditures were funded by flow-through shares, with more than 50 companies spending in excess of $1 million each.

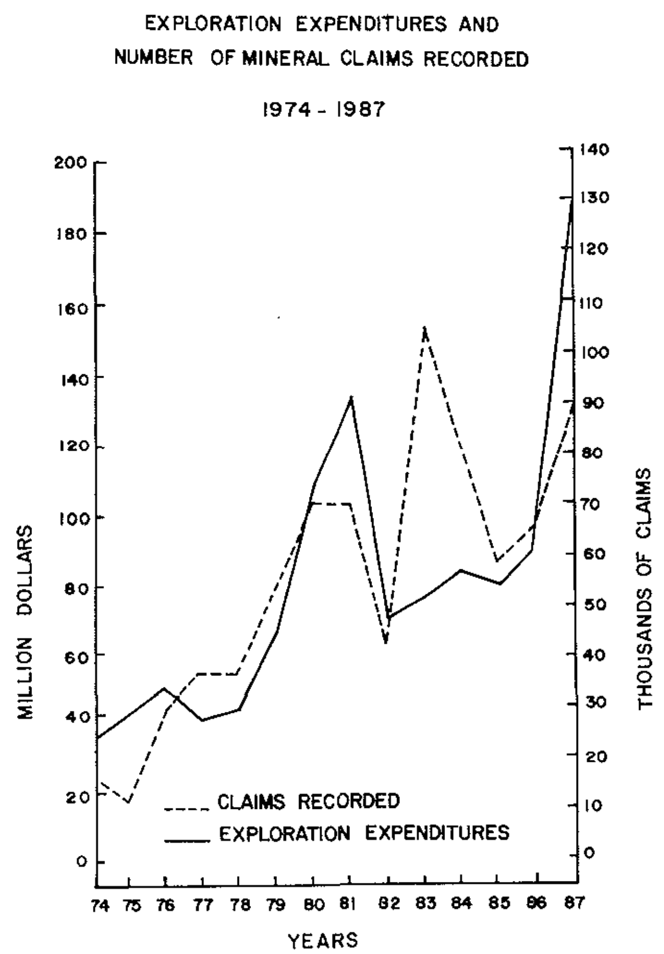

Figure A1. Mineral exploration expenditures and number of claims recorded, 1974-1987.

Recent estimates are that 1987 gold production was 11 925 000 grams or 383 400 ounces, up 27 per cent from the 9 391 519 grams or 301 900 ounces produced in 1986. By 1990 production is expected to exceed 18 700 000 grams or 600 000 ounces and thus surpass the peak annual production of 18 000 000 grams achieved in 1939.

There were at least 25 major underground exploration projects in British Columbia during 1987, and at least 50 properties can be listed as having meaningful reserves that are, or are close to being, economically viable. At present, a total of 31 projects have formally entered the government permitting process; 26 of these are for precious metals.

The Nickel Plate mine of Mascot Gold Mines Ltd. officially opened August 17. Mill throughput and gold production to date have exceeded design specifications. Operations continued very successfully at the Blackdome mine which reached full payback within nine months of its opening in May 1986, and at the Brenda, Bell and Endako porphyry mines, all of which re-opened in 1987. A continued strengthening of the price of copper in the year brought welcome relief to all the porphyry copper operations in the province, including the Highland Valley Copper, Island Copper and Similkameen mines.

EXPLORATION HIGHLIGHTS

As in previous years, gold, silver and polymetallic deposits with precious metal values continue to be found in four main environments, with a sprinkling of deposits that are transitional between these models. A summary of exploration highlights by deposit type is given below, followed by more detailed accounts by each of the seven District Geologists.

GOLD-BEARING SKARNS

The importance of this deposit type was emphasized earlier in the year by the opening of the Nickel Plate mine near Hedley. This old mine, now in its third life, has already produced 48.4 million grams of gold from 3.6 million tonnes of underground ore between 1902 and 1957. Pittable reserves are 9.0 million tonnes grading 4.56 grams per tonne with an additional 1.8 million tonnes of similar grade mineable underground. Together with the past production, this brings the known gold content of this deposit to roughly 90 tonnes, with excellent prospects for discovering additional reserves.

British Columbia has more than 300 other recorded skarn occurrences, roughly one-third of which are known to contain gold. Some of these have produced in the past and others are potential producers, for example, the Tillicum Mountain property of Esperanza Explorations Ltd. and deposits at Zeballos on Vancouver Island, on Banks Island and on Texada Island.

Another deposit which is generally regarded as a porphyry system, but which has skarn affinities, is the QR deposit of Placer Dome

Inc., west of Likely. Gold occurs associated with intense propylitic alteration in Upper Triassic volcanics and sediments cut by a consanguineous differentiated syenitic stock. This deposit is at the feasibility stage. The favourable geology that hosts the QR deposit continues to the northwest along the axis of the Quesnel trough where intrusions similar to the QR stock are known to occur in an area of poor exposures. These are obvious targets for deposits similar to the QR, but are also a challenge to the explorationist.

EPITHERMAL DEPOSITS

The search for gold-bearing epithermal systems has continued at a brisk pace for several years with considerable success. The Blackdome mine, located 250 kilometres north of Vancouver, began production in May 1986 at 165 tonnes per day from a classic, high-level epithermal vein system hosted in Eocene subaerial volcanic flows and pyroclastics.

The Toodoggone camp, located 300 kilometres north of Smithers, has been one of the hottest exploration areas in the province for several years. More than $10.6 million were spent in this camp in 1987, compared to $3.5 million the previous year. This increased activity is due to three factors:

* The completion of road access to the area, funded in good part by a $4.5-million government loan.

* The decision by Cheni Gold Mines Inc. to go ahead at a planned production rate of 450 tonnes per day on its Lawyers deposit.

* The considerable success of other projects in the area.

Significant developments in the Toodoggone this year have been the discovery of above-average grade gold-silver mineralization at depths of more than 330 metres at the Lawyers Cliff Creek zone; the tracing of mineralization by drilling and trenching over a strike length in excess of 750 metres at the Al deposit; and the discovery of gold-bearing skarn at Cheni Gold's Acapulco prospect.

Another very promising deposit is the Mount Washington property of Better Resources Ltd. on Vancouver Island. Mineralization is associated with a Tertiary quartz porphyry and breccia eruptive centre cutting Cretaceous Nanaimo Group sediments and Triassic Karmutsen volcanic rocks and occurs in tabular, shallow-dipping alteration zones locally up to 30 metres thick. Sulphides are mainly pyrite and arsenopyrite.

On Graham Island in the Queen Charlotte Islands, City Resources (Canada) Ltd. has completed a thorough re-assessment of the Cinola deposit which represents the exposed middle to upper levels of a Tertiary epithermal hot-spring-type precious metal system.

VOLCANIC AND CLASTIC-HOSTED MASSIVE SULPHIDE DEPOSITS

Another important target is massive sulphide mineralization with precious metal values. On Vancouver Island, Abermin Corporation has continued an aggressive exploration program on its Lara property near Chemainus, and has announced its decision to go underground with a decline early in 1988.

The Adams Lake area, 65 kilometres northeast of Kamloops, has been the focus of intense exploration activity since late 1983, when A. Hilton discovered gold-bearing massive sulphides (Rea Gold) near Johnson Lake. The discovery in late 1985 of the Samatosum silver deposit by Minnova Inc. has opened up a new target in this area. This project has just entered the government permitting process. Mineralization is localized in tuffaceous sediments of the Paleozoic Eagle Bay assemblage, that lie on top of a thick sequence of mafic volcanics of similar age. Sulphides include tetrahedrite, galena, sphalerite, chalcopyrite and pyrite. Recently released reserve estimates are 595 000 tonnes of open-pittable ore, grading 1097 grams per tonne silver, 1.78 grams per tonne gold, 3.5 per cent zinc, 1.7 per cent lead and 1.2 per cent copper. Similar mineralization is being explored on the nearby Twin and Kamad properties by Esso Minerals Canada.

In the extreme northwestern corner of the province, Geddes Resources Ltd. is carrying out a major underground program at the 300-million-tonne plus Windy Craggy copper-gold-cobalt massive sulphide deposit.

VEIN DEPOSITS TRANSITIONAL TO PORPHYRY DEPOSITS

A number of gold deposits that can be classified as transitional between epithermal and porphyry systems occur in northwestern British Columbia and are in the advanced exploration and development stage.

Underground development work continued at the Dome Mountain property of Teeshin Resources Ltd. 40 kilometres east of Smithers. Gold-silver mineralization occurs in a number of mesothermal, sheeted quartz veins in Early to Middle Jurassic volcanics and sediments. This deposit is at the feasibility stage.

The Stewart - Iskut River gold belt is one of the busiest, most exciting and promising areas in the province. At the southeast end of this belt, near Stewart, Westmin Resources Limited has decided to proceed with its Premier gold project. Quartz stockwork mineralization occurs in Early Jurassic andesitic volcanics intruded by the subvolcanic Premier porphyries. An open-pit operation at 1800 tonnes per day, with capital costs in excess of $80 million, is anticipated. If past production is added to the 21 million grams of gold and 615 million grams of silver represented by the current reserves, the total known mineable precious metals contained in the Silbak Premier and Big Missouri deposits is 76 tonnes of gold and about 1875 tonnes of silver.

Forty-two kilometres northwest of Silbak Premier, another very active camp is the Sulphurets area, where at least 18 separate mineralized zones have been located in Early Jurassic volcanics intruded by syenites. Mineralization in these zones ranges from copper-molybdenum-gold to disseminated gold to complex gold-silver vein and stockwork systems to simple epithermal veins. The West zone at Brucejack Lake continues to be the target of an aggressive underground development program by Newhawk Gold Mines Ltd. Drill-indicated and inferred reserves are 1.36 million tonnes grading 17.35 grams per tonne gold and 692 grams per tonne silver.

Perhaps the most exciting developments are occurring 50 kilometres to the northwest, at the Iskut River end of the belt, where Skyline Explorations Ltd. is moving ahead with production plans for its Stonehouse (Reg) deposit. Gold-silver-copper mineralization here occurs in a number of lenses or veins along a fracture system in Lower Jurassic volcaniclastic and sedimentary rocks and has been traced for a strike length of 1.5 kilometres. This deposit is transitional between a porphyry system at depth and a mesothermal vein system above.

The Iskut camp was one of the busiest areas in the province in 1987 with exploration expenditures of roughly $10 million and at least 15 companies carrying out major programs. Most notable amongst these is the Cominco Ltd. - Delaware Resources Corp. joint venture's Snip property, where a major drilling program has produced drill-indicated reserves of 1.1 million tonnes grading 24 grams per tonne gold in a system of well-defined quartz veins over a strike length of 900 metres and a vertical extent of more than 300 metres. Facilities at this property are being upgraded and a major underground program is underway. This property is one of the two most significant and promising developments in the province in 1987.

West of Dease Lake, the North American Metals Corporation - Chevron Minerals Ltd. joint venture continued with underground development work on the Golden Bear deposit. Gold mineralization occurs in silicified and breccia zones along a major fault zone between Permian limestone and upper Triassic andesites. This deposit is vein type with epithermal characteristics. The best mineralization is in flexures or rolls in the fault system. Proven reserves in the Bear main zone are approximately 625 000 tonnes grading 18.6 grams per tonne gold. The project is at the feasiblity stage.

Southeast of Revelstoke, near the old mining town of Camborne, very promising results have been obtained by Granges Exploration Ltd. from extensive drilling on the Goldfinch property. Native gold and tetrahedrite occur in structurally controlled quartz veins in Paleozoic metasedimentary and metavolcanic rocks of the Broadview and Jowett formations.

OTHER DEPOSITS OF INTEREST

A number of other gold deposits of different types are highlights on the British Columbia scene. Some are at the advanced underground development stage, for example, the Abo deposit of the Bema Industries Ltd. - Kerr Addison Mines Limited joint venture at Harrison Lake and the Willa property of Northair Mines Limited near Slocan.

On Vancouver Island, Westmin Resources Limited, in joint venture with Nexus Resources Corporation and Angle Resources Limited, has begun a major underground exploration program on the Debbie property, southeast of Port Alberni. This large property ranks with the Snip as one of the two most significant developments in the province in 1987. Gold mineralization occurs in Sicker Group rocks near the old Thistle mine, a massive sulphide deposit, and is found in at least three different zones:

* The 900 zone: a magnetite-jasper-sulphide-bearing chert with quartz-vein stockwork in footwall basalt.

* The Mineral Creek zone: an area of extensive quartz-carbonate alteration associated with north-trending faults that may be related to Tertiary thrusts or steep reverse faults.

* The Linda zone: consisting of separate quartz vein structures.

ACKNOWLEDGMENTS

The articles which follow provide more detail of the activity in each of the seven District Geologist's areas. A separate section is devoted to industrial minerals exploration. Details of exploration work completed are provided, on a project by project basis, in Table A1 and key statistics for operating mines are listed in Table A2. Both tables are referenced to location maps (Fiqures A2 and A3) and in the text of the reports that follow. Information on mineral exploration programs was supplied to the District Geologists, either directly or through press releases, by the many exploration companies active throughout the province. Mineral claims and exploration expenditure statistics were supplied by the ministry's Mineral Titles Branch and by the British Columbia and Yukon Chamber of Mines. Input was by Debbie Bulinckx and Sherry Dick, and editing by John Newell. The cooperation and contributions of these individuals and agencies are gratefully acknowledged.

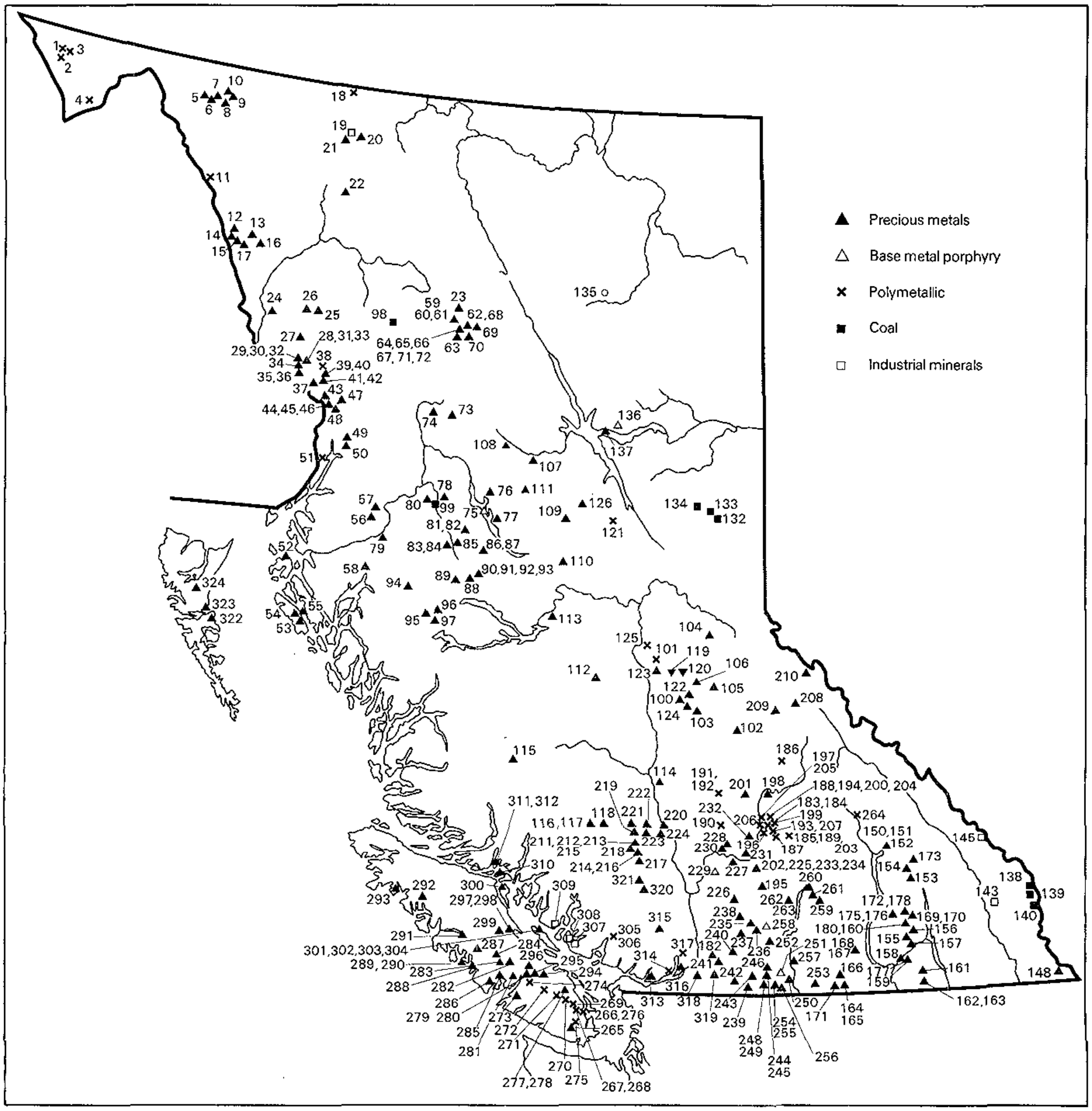

Figure A2. Selected exploration and development projects in British Columbia, 1987.

TABLE A1. EXPLORATION AND DEVELOPMENT IN BRITISH COLUMBIA, 1987
(Map numbers are keyed to Figure A2)

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
NORTHWESTERN DISTRICT							
1	Windy-Craggy (Geddes Resources)	114P-002	Atlin	114P/7E	Ag,Au,Cu, Pb,Zn,Ba	volcanogenic massive sulphide	> 1000 m of underground development; 2 ddh, 587 m; geological mapping
2	Tats (Geddes Resources)	114P-003	Atlin	114P/12E	Cu,Co,Au	massive sulphide	3 ddh, 346 m; geological mapping
3	Rime (St. Joe Canada)	114P-064,	Atlin	114P/11, 12,13	Au,Ag,Cu	massive sulphide	2 ddh, approx. 700 m
4	Low Herbert, Grizzly Heights (Stryker Resources/ Freeport Resources)	114P-064, 068	Atlin	114P/7E 7W,8W	Ag,Au,Cu, Pb,Zn,Ba	vein and volcanogenic massive sulphide	5 ddh, 1433 m; sampling
5	Engineer (Total Erickson Resources)	104M-014	Atlin	104M/8E	Au,Ag	vein	8 ddh, 1778 m; geological mapping; geochem.; VLF-EM, mag.
6	Pictou (Homestake Mineral Development)	104N-044	Atlin	104N/12E	Au	vein	rcrd, 3000 m
7	Yellowjacket (Homestake Mineral Development)	104N-043	Atlin	104N/12E	Au	vein	15 ddh, 2550 m; rcrd
8	Spruce Creek/Shuksan (Placer Dome)	104N-098	Atlin	104N/11W	Au	vein	10 ddh, 1399 m; mag., VLF-EM
9	Lakeview (Cream Silver Mines)	104N-009	Atlin	104N/11W	Au,Ag	vein	11 ddh, 1250 m; geological mapping; geochem.; mag., VLF-EM, IP; bulk sampling
10	Ruby Mountain (Cream Silver Mines)	104N-006	Atlin	104N/11W	Pb,Zn,Sn, W	skarn	12 ddh, 1128 m; geological mapping; geophys.
11	Tulsequah Chief (Cominco)	104K-002	Atlin	104K/11, 12	Ag,Au,Pb, Zn,Cu	volcanogenic massive sulphide	approx. 7 ddh, approx. 4000 m; geological mapping
12	Outlaw (Chevron Canada Resources/ Diamet Minerals/ Lightning Creek Mines)	104K/083	Atlin	104K/10W	Au,Ag,Mn, Pb,Zn	vein	Trenching; geological mapping; 40 ddh, 3509 m on all Chevron properties
13	Nie (Chevron Canada Resources/ Diamet Minerals/ Lightning Creek Mines)	104K-081	Atlin	104K/8W	Au	vein	ddh (see above)

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
14	Tot (Chevron Canada Resources/ Diamet Minerals/ Lightning Creek Mines	104K/037	Atlin	104K/8W	Sb,Au	vein	ddh *(see* above)
15	Tut (Chevron Canada Resources/ Diamet Minerals/ Lightning Creek Mines)	104K/080	Atlin	104K/8W	Au,Ag	vein	ddh *(see* above)
16	Slam (Chevron Canada Resources/ Diamet Minerals/ Lightning Creek Mines)	104K/082	Atlin	104K/1E	Au,Ag,Sb	vein	ddh *(see* above)
17	Golden Bear/Muddy Lake (North American Metals B.C./Chevron Canada Resources)	104K/079	Atlin	104K/1W	Au,Ag	vein	77 underground ddh, 3498 m; 1124 m underground development; road survey; feasibility study
18	Silverknife (Reg Resources/Terly Resources/Chevron Canada Resources)		Liard	104O/16W	Ag,Pb,Zn	manto	17 ddh, 1800 m
19	McDame (Cassiar Mining)	104P-084	Liard	104P/5E	Asbestos	ultramafic	212 m underground development; feasibility study
20	Erickson Gold (Total Erickson Resources)	104P-019, 070,029 034	Liard	104/4E	Au	vein	23 ddh, 2300 m; trenching; soil sampling; geological mapping
21	Taurus Mine/Cornucopia (Taurus Resources)	104P-012	Liard	104/5E	Au,Ag	vein	Underground drifting; 400 m drilling on Snowy Creek; 1 ddh, 76 m in Sable area; Hopeful adit
22	Thibert Creek (Equity Silver Mines)	104J-007	Liard	104J/13E	Au,Pt	alteration zone	ddh, 762 m
23	Discovery (Duke Minerals)		Liard	104G/2W	Au		4 ddh, 457 m
24	Paydirt (Long Reach Resources)	104G-023	Liard	104G/3W, 4E	Au	vein	4 ddh, 61 m; 65.5 m adit
25	Hank (Lac Minerals)	104G-107	Liard	104G/1W, 2E	Au,Cu,Ag	vein, porphyry	9 ddh, 1067 m; IP
26	Bam (Radcliffe Resources)	104G-027	Liard	104G/2W	Au,Cu,Ag	porphyry?	9 ddh, 851 m; geological mapping; IP; trenching
27	McClymont (Gulf International Minerals)	104G-126	Liard	104G/15W	Cu,Ag,Au	vein	39 ddh, 3400 m; trenching; geological mapping;geochem.; geophys.

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
28	Sky 5 (Hector Resources)		Liard	104B/10W	Au	vein	15 ddh, 621 m; geological mapping; sampling; airborne mag., EM
29	Reg/Johnny Mountain (Skyline Explorations)	104B/107	Liard	104B/11E	Au,Ag,Cu	vein	157 ddh, 13 665 m; 226 m raise development; 551.4 m drifting; airstrip extended to 1700 m; mill site prepared
30	Snip/Bron (Cominco/Delaware Resources)	104B/004	Liard	104B/11	Au,Ag,Zn, Cu	vein	73 ddh, 13 857 m; geological mapping; trenching; airstrip
31	Waratah (Tungco Resources)		Liard	104B/10W 11E	Au	vein	24 ddh, 1038 m; geological mapping; soil sampling; VLF-EM, mag.
32	Hemlo West (Delaware Resources/ American Ore/Golden Bend Resources)		Liard	104B/11E	Au	vein	8 ddh, 956 m; trenching; geological mapping; soil sampling
33	Handel (Winslow Gold)		Liard	104B/10W 11E	Au	vein	7 ddh, 1095 m; geological mapping; soil sampling; VLF-EM, mag.
34	Inel (Inel Resources)	104B-113	Liard	104B/10W	Cu,Zn,Pb, Au,Ag,Mo	vein	Underground development
35	Gossan (Western Canadian Mining)		Liard	104B/10W	Au,Ag,Cu, Zn	massive sulphide	18 ddh, 2219 m; trenching; geological mapping; geochem.
36	Snip (Teck Corporation)	104B-116	Liard	104B/10W	Cu,Au	vein	8 ddh, 1115 m; geological mapping; mag.
37	Doc/Globe (Magna Ventures)	104B-015	Skeena	104B/8W	Au,Ag,Pb	vein	300 m drifting; underground dd; soil sampling
38	Konkin Gold Zone/ Treaty Creek (Teuton Resources)	104B-078	Skeena	104B/9E	Au,Cu,Ag, Pb,Zn	skarn	3 ddh, 183 m
39	Sulphurets/Red River (Newhawk Gold Mines, Lacana Mining/ Granduc Mines)	104B-118, 022	Skeena	104B/8E	Ag,Au	vein	94 ddh, 10 668 m; decline advanced 157 m; 59 m underground development; access road completed
40	Gold Wedge (Catear Resources)	104B/105	Skeena	104B/8E	Au,Ag	vein	Underground development started; 43 ddh, 4117 m; trenching

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
41	Kerr (Western Canadian Mining)	104B-100	Skeena	104B/8E	Au,Ag,Cu	porphyry, vein	14 ddh, 1450 m; trenching; geochem.
42	Mount Madge (Bighorn Development /Catear Resources)		Skeena	104B/8E	Au,Ag	vein	6 ddh, 650 m; geological mapping; geochem.
43	Scottie (Royal Scot Resources)	104B-074	Skeena	104B/1E	Au,Ag	vein	Underground 5 ddh, 1524 m
44	Silver Butte (Tenajon Silver)	104B-083	Skeena	104B/1E	Ag,Au,Cu	vein	23 ddh, 3810 m; >365 m adit started
45	Big Missouri (Westmin Resources/ Canacord Resources/ Tournigan Mining Explorations)	104B-046	Skeena	104B/1E	Ag,Au	vein	92 ddh, 7292 m
46	Silbak Premier (Westmin Resources/ Silbak Premier Mines)	104B-054	Skeena	104B/1E	Au,Ag,Cu	vein	Phase I, 44 ddh, 5238 m; underground geological mapping; feasibility study
47	Todd Creek (Noranda Exploration/ Golden Nevada Resources)	104A-001	Skeena	104A/4,5	Au,Cu	vein	9 ddh, 580 m; geological mapping; rock sampling
48	Joutel/Red Cliff? (Joutel Resources)	104A-037?	Skeena	104A/4W	Au,Ag,Cu		6 ddh, 1036 m; access road; trenching
49	Dolly Varden (Dolly Varden Minerals)	103P-188	Skeena	103P/11W	Ag,Pb,Zn, Cu	vein	5504 m underground development; 1488 m underground ddh
50	Kit (Cominco)	104P-245	Skeena	103P/11W	Ag	shear zone	5 ddh, 720 m; UTEM and mag.
51	Anyox/Hidden Creek (Cominco)	103P-021 022	Skeena	103P/5W	Cu,Au,Ag, Zn	volcanogenic massive sulphide	6 ddh, 1517 m; 30 km UTEM and mag.
52	Porcher Island (Imperial Metals)	103J-002	Skeena	103J/1W	Au	vein	approx. 15 ddh; geochem.
53	Keech/Banker (Gold Ventures)	103H-010	Skeena	103H/5W	Au,Zn	shear	7 ddh, 464 m; geochem.; VLF-EM
54	Yellow Giant (Trader Mines)	103G-024	Skeena	103G/5W	Au	vein	71 ddh, 8018 m; trenching
55	Skarn (Trader Resources)		Skeena	103G/8E	V,Ti,Pt	ultramafic	1 ddh, 155 m; detailed rock sampling; geological mapping; mag.
56	Burn/Portland (Terracamp Development)	103I-019	Skeena	103I/10E, 15W	Au,Ag,Cu	vein	3 ddh, 395 m; trenching
57	Kalum (Cannon Exploration)	103I-118	Skeena	103I/15E, 15W	Au	vein	6 ddh
58	Kitimat (BP Resources Canada)		Skeena	103I/2E	Au	vein	4 ddh, 210m; geophys.; geochem.

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
59	A1 (Energex Minerals)	94E-091	Skeena	94E/6W	Au	vein	122 ddh, 8687 m; 165 trenches, 12 000 m; soil sampling
60	Mets (Manson Creek Resources)	94E-093	Omineca	94E/6E	Au,Ag	vein	40 ddh, 6060 m; geological mapping; geochem.; trenching
61	Metsantan (American Ore)	94E-064	Omineca	94E/6W	Au,Ag	alteration zone	1 ddh, 84 m; 3 trenches
62	Moosehorn (Cyprus Metals Canada)	94E-086	Omineca	94E/6E, 7W	Au,Ag	vein	11 ddh, 1067 m; VLF-EM, IP; geochem.
63	Golden Stranger (Western Horizon Resources)	94E-076	Omineca	94E/6	Au,Ag	vein	18 ddh, 1859 m
64	Lawyers (Cheni Gold Mines)	94E-066, 067,074	Omineca	94E/6E	Ag,Au	vein	49 ddh, 10 432 m; millsite preparation; Omineca Mine Road extension; development adit started
65	Silver Pond (St. Joe Canada)	94E-069	Omineca	94E/6	Au,Ag	vein	99 ddh, 12 935 m; trenching
66	Perry Mason (Cheni Gold Mines)		Omineca	94E/6E	Au,Ag	vein	8 ddh, 1123 m
67	Chappelle/Baker (Multinational Mining)	94E-026	Omineca	94E/6E	Ag,Au	vein	28 ddh, 3616 m; VLF-EM
68	Shasta/Shas (Esso Minerals Canada)	92E-050	Omineca	94E/2,3, 6,7	Au,Ag,Pb, Zn	vein	8 ddh; access road; 38 trenches
69	Brenda (Canasil Resources)		Omineca	94E/7W	Au,Ag	vein	24 ddh, 220 m; trenching soil and rock sampling
70	Acapulco (Cheni Gold Mines)	94E-058	Omineca	94E/2W	Cu,Zn,Pb, Ag	skarn	5 ddh, 856 m; mag.
71	Marmot (Cheni Gold Mines)	94E-073	Omineca	94E/6E	Au,Ag,Pb	vein	2 ddh, 323 m
72	Wrich (Cheni Gold Mines)	94E-082	Omineca	94E/2E	Au,Ag,Pb, Zn,Cu	vein	5 ddh, 883 m
73	Motase Lake (Prolific Petroleum)	94D-001	Omineca	94D/3E	Au,Ag	vein	10 ddh, 914 m
74	Tommy Jack/Goodridge and Bish (Noranda Exploration/ Goldcap)	94D-031, 036	Omineca	94D/4E	Au,Ag,Pb, Zn	vein	25 ddh, 1690 m; geochem. mag.
75	Bell (Noranda)	93M-001	Omineca	93M/1W	Cu,Au	porphyry	16 ddh, 1585 m; geological mapping
76	Danny Boy (Gold Canyon Resources)		Omineca	93M/1E	Ag,Pb,Zn	vein	10 ddh; geochem.; max-min, mag.
77	Red (Equity Silver Mines)	93L-220	Omineca	93L/16E	Cu	massive sulphide	7 ddh, 914 m

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
78	Skilokis Creek (Noranda Exploration/ Atna Resources)		Omineca	93M/3	Ag,Au,Cu, Mo	vein	3 ddh, 185 m; geochem.
79	Lucky Boy (AJM Metals)	103I/146?	Omineca	103I-9W	Au	vein	> 4 ddh, > 399 m; geochem.; mag., VLF-EM
80	Red Rose (Freeport Resources)	93M-067	Omineca	93M/4E	Au,Ag,W, Cu,Mo,U	vein	2 ddh, 457 m; ungraded access road
81	Free Gold/SK (Total Erickson Resources)	93L-023	Omineca	93L/15E	Au,Ag,Pb, Zn,Cu	vein	4 ddh, 349 m
82	Dome Mountain (Teeshin Resources, Canadian United Minerals, Total Erickson Resources)	93L-022	Omineca	93L/10, 15E	Au,Ag	vein	428 m underground work; 43 ddh
83	Emerson (Lornex Mining)	93L-032	Omineca	93L/7W	Ag,Au,Pb, Zn		5 ddh, 327 m; IP
84	Canyon (Lacana Mining)	93L-031	Omineca	93L/7W	Cu,Au	skarn	6 ddh, 914 m; trenching; geo-logical mapping; geochem.
85	Mineral Hill (Dafrey Resources)		Omineca	93L/10E	Ag,Cu,Mo, Zn,Pb	transitional vein	305 m ddh
86	Topley (Bishop Resources)	93L-015, 016	Omineca	93L/9E	Ag,Cu,Pb, Zn,Au	vein	3 ddh
87	Richfield (Esso Minerals Canada)	93L-018	Omineca	93L/9E	Ag,Au,Zn, Cu	vein	4 ddh, 1134 m; 75 rcdh, 5486 m
88	Bob Creek/Gold Brick (Bard Silver and Gold)	93L-009	Omineca	93L/7E	Au,Ag,Zn	vein	ddh
89	Silver Queen (Houston Metals)	93L-002	Omineca	93L/2	Au,Ag,Pb, Zn,Ga,Ge	vein	26 surface ddh, 2864 m; 39 under-ground ddh, 1668 m; 283 m decline; 300 m crosscut, 764 m drifting; metallurgical studies
90	Sam (Faraway Gold Mines)	93L-260	Omineca	93L/1W	Ag,Cu,Zn, Pb	disseminated	36 ddh, 5927 m
91	Equity Silver mine (Equity Silver Mines)	93L-001	Omineca	93L/1W	Ag,Au,Cu	transitional	13 000 m ddh
92	Gaul (Teck Corp./Equity Silver Mines)	93L-256	Omineca	93L/1W	Ag,Au,Cu	transitional	6 ddh, 914 m
93	Dev (Normine Resources)		Omineca	93L/1E	Pb,Zn,Mo, Ag	transitional	4 ddh, 653 m

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94	New Moon (Newmont Exploration)	93E-011	Omineca	93E/13	Pb,Zn,Au, Ag	vein	13 ddh, 1075 m; surface sampling and geological mapping
95	Coles Creek (Westbank Resources)	93E-041?	Omineca	93E/11	Pb,Zn,Cu, Ag		914 m ddh
96	Lean-To (Lansdowne Oil and Minerals)	93E-105	Omineca	93E/11E	Cu,Ag,Au	transitional	5 ddh, 610 m
97	Troitsa (Alpine Explorations)		Omineca	93L/11E	Au	vein	5 ddh, 900 m; EM
98	Klappan (Gulf Canada Resources)		Omineca/ Liard	104H/1,2, 3,6,7,8, 9,10,11	Coal (anthracite)		34 ddh, 5000 m; Stage II submission; detailed geological mapping
99	Bulkley (Atna Resources)	93M-095	Omineca	93M/3W	Coal		2 ddh
CENTRAL DISTRICT							
100	QR (Placer Dome)	93A-040	Cariboo	93A/12W	Au	transitional porphyry	36 ddh, 6000 m; prefeasibility studies
101	G (Gabriel Resources)	93G-004, 007,008	Cariboo	93G/1E	Au	remobilized volcanogenic massive sulphide	21 ddh, 75 pdh, 6200 m; geochem.; AEM, ground geophys.
102	Frasergold (Eureka Resources joint venture)	93A-150	Cariboo	93A/7E	Au	phyllite-hosted gold	20 large diam. pdh; 180 m adit; bulk sampling; mill tests
103	CPW (Pundata Gold Corp. joint venture)	93A-061, 141	Cariboo	93A/12E	Au	phyllite-hosted gold	36 ddh, 3270 m; 6 pdh, 675 m; 16 trenches; mill tests
104	AK (International Rhodes/ Noranda)	93H-133	Cariboo	93H/6	Au,Ag	replacement veins	27 ddh, 1858 m; 10 trenches; geochem.; geophys.
105	May Be (Gibraltar Mines)		Cariboo	93A/14	Ag,Pb, Zn	replacement vein	20 ddh, 2000 m
106	Cariboo Hudson (Cathedral Gold)	93A-071, 093	Cariboo	93A/14W	Au	mesothermal veins	ddh, 1525 m
107	Takla-Rainbow (Cathedral Gold)	93N-082	Omineca	93N/11W	Au	mesothermal vein	13 km road; 14 ddh
108	Axelgold (Cathedral Gold)	93N-196	Omineca	93N/13W	Au	vein	portable ddh
109	Tas (Noranda joint venture)	93K-080	Omineca	93K/16E	Au	porphyry related	17 ddh, 1200 m; 11 pdh, 400 m; 10 trenches; IP, mag., EM
110	Snowbird (X-Cal Resources)	93K-036	Omineca	93K/7E, 8W	Au	quartz-stibnite veins	10 ddh; 57 pdh; basal till sampling

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111	Indata (Eastfield Resources)	93N-192	Omineca	93N/6W	Au,Ag	vein	IP; 5 ddh
112	Bob (Lac Minerals)	93B-054	Cariboo	93B/13E	Au	epithermal	29 ddh, 200+ m; geophys.
113	Trout (Kerr Addison/Welcome North)	93F-044	Omineca	93F/10	Au	epithermal	15 ddh; 15 trenches
114	WTM (Chromick Mineral)		Clinton	920/9	Au	epithermal?	24 pdh, 730 m; geophys.
115	Apex (Kleena Kleene Gold Mines)	92N-010, 012	Cariboo	92N/14	Au	epithermal	160 m adit
116	Pellaire (Lord River/Cathedral Gold)	920-045	Clinton	920/4E	Au,Ag	epithermal	11 ddh, 1325 m; 50 m drift
117	Taylor Windfall (Welcome North Mines)	920-028	Clinton	920/3	Au,Ag	epithermal	8 ddh, 700 m
118	Taseko-Palisades (Westmin Resources joint venture)	920-005, 006	Clinton	920/3	Au,Ag	epithermal	25 ddh; 10 trenches; geophys.
119	Wingdam (Gold Ridge Resources)	93H-012	Cariboo	93H/4	Au	placer	*in situ* leach tests
120	Lightning Creek (Lightning Creek Mines)	93H-001, 002	Cariboo	93H/4	Au	placer	25 ddh; air and ground geophys.
121	G North (Ezekiel Exploration/ Mark Management)	93J-007	Cariboo	93J/14	Au	volcanogenic massive sulphide	5 ddh, 150+ m; geo-chem.; geophys.
122	Cariboo (E & B Explorations)	93A-121	Cariboo	93A/12	Au	porphyry related	25 ddh; 10 trenches
123	Mouse Mountain (Quesnel Mines)	93G-003	Cariboo	93G/1	Au	porphyry	10 ddh, 100+ m; 15 trenches
124	Cat, Dog (Placer Dome)	93A-127	Cariboo	93A/11, 12	Au	porphyry related	10 ddh, 300+ m
125	Hixon Creek (Golden Rule/Noranda)	93G-014, 015	Cariboo	93G/7,8	Au	volcanogenic massive sulphide	2 ddh; geochem.; geophys.
126	Phil (Lincoln Resources)		Omineca	93N/1	Au,Cu	porphyry related	15 ddh; 7 trenches; geophys.
NORTHEASTERN DISTRICT							
132	Transfer (Quintette Coal)		Liard	93J/14E, 93P/3E	coal		8 ddh, 1254 m; 46 rdh, 5169 m; 3 adits
132	Grizzly (Quintette Coal)		Liard	93P/3E	coal		4 ddh, 593 m; 21 rdh, 3075 m; 3 adits
133	Perry Creek (Quintette Coal)		Liard	93P/3	coal		5 rdh, 260 m
133	Mesa Extension (Quintette Coal)		Liard	93P/3E	coal		36 rdh, 8736 m; 1 ddh, 267 m
134	Bullmoose (Teck Corp.)		Liard	93P/4	coal		8 rdh, 400 m

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135	Cay (Beaty Geological)		Liard	94G/12, 13	Ga,Ge, Pb,Zn		13 ddh, 1050 m; geochem.; geophys.; geologic mapping
136	Coral (Northgate Exploration)		Liard	94B/3	Pb,Zn		10 ddh, 500 m
137	Mount Selwyn (Alina International)		Omineca	94B/3	Au		4 ddh, 1500 m?

SOUTHEASTERN DISTRICT

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
138	Eagle Mtn. (Fording Coal)	82J/SE-012	Fort Steele	82J/2W	coal		12 rdh, 3382 m; 2 HQ ddh, 877 m
139	Greenhills Mine-North End (Westar Mining)	82J/SE-007	Fort Steele	82J/2W	coal		28 rdh, 4381 m
139	Greenhills Mine, Bighorn Pit (Westar Mining)	82J/SE-007	Fort Steele	82J/2W	coal		11 rdh, 1323 m
140	Line Creek, Lower South Pit (Crows Nest Resources)	82G/NE-020	Fort Steele	82G/15W	coal		52 rdh, 6095 m; 6 ddh, 745 m
140	Line Creek Extension, Top-of-the-Ridge (Crows Nest Resources)	82G/NE-020	Fort Steele	82G/15W	coal		22 rdh, 3032 m; 13 ddh, 1120 m
140	Horseshoe Ridge (Crows Nest Resources)	82G/NE-020	Fort Steele	82G/15W	coal		16 rdh, 2641 m
140	Line Creek Extension, 2-seam Pit (Crows Nest Resources)	82G/NE-020	Fort Steele	82G/15	coal		47 rdh, 2213 m
140	Line Creek, Mine Service Area (Crows Nest Resources)	82G/NE-020	Fort Steele	82G/15W	coal		7 rdh, 1184 m
143	Lussier Gypsum/United (Domtar Inc.)	82J/SW-009	Fort Steele	82J/4E	gypsum	sedimentary	32 ddh, 1125 m; approx. 15 rdh, approx. 150 m; trenching
145	Mt. Brussilof Magnesite/Rok, Mag (Baymag Mines)	82J/NW-001	Golden	82J/13E	magnesite	stratabound carbonate host	34 ddh, 2700 m;
148	Flathead, Howe/Howell (Placer Dome)	82G/SE-048	Fort Steele	82G/2E	Au		10 ddh, 1262 m; geological mapping; rock and soil geochem.; trenching

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
WEST KOOTENAY DISTRICT							
150	Goldfinch (Granges Exploration)	82K/NW-076	Revelstoke	82K/13E	Au,Ag	vein	ddh, 8719 m; 158.7 Kt 8.5 g/t Au; 50 tpd pilot mill
151	Spyder (K-2 Resources/Ram Exploration)	82K/NW-045	Revelstoke	82K/13E	Ag,Pb,Zn, Au	vein	planned 28 ddh, 3000 m; 33.7 Kt 3.2 g/t Au, 171 g/t Ag, 4.22% Pb, 5.77% Zn
152	Eclipse (Triple M Mining/Ram Exploration)	82K/NW-044	Revelstoke	82K/13E	Ag,Au,Pb, Zn	vein	diamond drilling
153	John L/Maggie May (Progressive Minerals)	82K/NW-103	Slocan	82K/6E	Au,Ag	vein	diamond drilling
154	Foggy Day (Progressive Minerals/ Skyworth Resources)	82K/NW-117	Revelstoke	82K/11W	Au,Ag,Pb, Zn,Cu	vein	3 ddh, 1220 m
155	King Jack (King Jack Resources)	82F/NW-136	Slocan	82F/14W	Au,Ag	vein	surface and underground drilling
156	Meteor, Payday (Yukon Minerals)	82F/NW-137	Slocan	82F/14W	Au,Ag,Zn, Pb,W	vein	drifting and underground diamond drilling
157	Alpine (Granges Exploration/ Cove Energy)	82F/NW-127	Nelson	82F/11W	Au,Ag,Pb, Zn	vein	crosscutting for underground ddh stations
158	Kenville, Granite Poorman (Algoma Industries)	82F/SW-086	Nelson	82F/6W	Au,Ag,Pb, Zn,Co,W	vein	mine rehab.; test mill under construction
159	Great Western Group (Lectus Development)		Nelson	82F/6W	Au,Cu	volcanic	21 ddh to Dec.; 182 Kt 5.1 g/t Au
160	Willa (Northair Mines/ Rio Algom/BP Canada)	82F/NW-071	Slocan	82F/14W	Au,Cu,Ag	diatreme	underground development; new portal at 1100 m elev., decline from main level
161	Blackcock (O'Hara Resources)	82F/SW-076	Nelson	82F/6W	Au,Ag,Pb, Zn	vein	surface drilling; new portal
162	Nugget (Gunsteel Resources)	82F/SW-040	Nelson	82F/3E	Au,Ag,Pb, Zn	vein	underground exploration; 66.4 Kt 15.4 g/t Au

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163	Goldbelt (Lightning Minerals)	82F/SW-044	Nelson	82F/3E	Au,Ag,Pb, Zn,Cu	vein	ddh, 2439 m; geo-chem.;geophys.; geological mapping; 21 Kt 13.7 g/t Au; 14.3 g/t Ag, 0.5% Pb, 3% Zn
164	Crown (Kettle River Resources/ Noranda Exploration)		Grand Forks	82E/2	Au,Ag,Cu	vein	trenching
165	Golden Crown (Consolidated Boundary Exploration)	82E/SE-032	Grand Forks	82E/2E	Au,Ag,Cu	vein	adit, 622 m
166	Dentonia (Kettle River Resources)	82E/SE-055	Grand Forks	82E/2E	Au,Ag,Pb, Zn,Cu	vein	underground develop-ment
167	Union (Sumac Ventures)	82E/NE-003	Grand Forks	82E/9W	Au,Ag,Cu, Pb	heap	heap leach opera-tion
168	Platinum Blonde (Placer Dome/Longreach Resources)		Grand Forks	82E/9W	Au,Pt,Pd, Cd	dykes	9100 m dd program in progress
169	Standard (Silver Ridge Resources)	82F/NW-050	Slocan	82F/14W	Ag,Pb,Zn, Cd	vein	underground explora-tion
170	Silver Cup, Comstock (Dragoon Resources)	82F/NW-077	Slocan	82F/14E	Ag,Pb,Zn, Au	vein	mine rehab.
171	Skylark (Viscount Resources)	82E/SE-011	Slocan	82E/2E	Au,Ag,Pb, Zn,Cu	vein	ddh; underground development, 78.7 Kt 685.6 g/t Ag, 2.7 g/t Au
172	Black Colt (Dragoon Resources)	82F/NW-011	Slocan	82F/14W	Ag,Pb,Zn, Au	vein	diamond drilling
173	Abbott (Mikado Resources/ Turner Energy)	82K/NW-056	Slocan	82K/11E	Ag,Pb,Zn, Au	replacement	adit, 152 m; 66.4 Kt 294.7 g/t Ag, 1.45 g/t Au, 14.22% Zn, 11.08% Pb
174	Sullivan (Cominco)	82F/NE-052	Fort Steele	82F/9E	Pb,Zn,Ag, Au,Cu,Cd	sedex	diamond drilling
175	Tillicum (Esperanza Explorations)	82F/NW-234	Slocan	82F/13E	Au,Ag	vein	24 ddh, 3126 m; 182 Kt 20.5 g/t Au, 2.7 Mt 2.0 g/t Au, 100 tpd mill planned
176	Strebe (Esperanza Explorations)		Slocan	82F/13E	Au,Ag	skarn	8 ddh
177	Star/Ron (Ryan Exploration)	82F/SW-083	Nelson	82F/6W	Au,Ag,Cu	porphyry?	rcdh; large low-grade Cu-Au deposit
178	L.H. (Noranda Exploration)		Slocan	82F/14W	Au,Ag	vein/skarn	2 ddh, 795 m

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SOUTH-CENTRAL DISTRICT							
182	Grasshopper (Monica Resources/ Newmont)		Similkameen	92H/10W	PGE	magmatic segregations	surface work, mapping, trenching, rock sampling
183	Samatosum JV (Minnova/Rea Gold)		Kamloops	82M/4W	Ag,Au,Cu, Pb,Zn	volcanogenic massive sulphide	132 ddh, 19 085 m; 1 km road construction; pre-feasibility study; 600 Kt @ 1100 g/t Ag, 3.5% Zn, 1.2% Cu, 1.7% Pb, 1.8 g/t Au (250 g/t Ag cut-off)
184	Rea Concession (Discovery Zone) (Rea Gold/Minnova, Glitter Gold)	82M-191	Kamloops	82M/4W	Cu,Pb,Zn, Au,Ag	volcanogenic massive sulphide	1450 t ore processed at Dankoe mill and treated at Mascot Gold Mines Ltd. (As-rich sulphides); commenced adits on L98 lens for underground bulk sampling and drilling.
185	Comstock (R. Lodmell/Lacana)		Kamloops	82L/13E	Au,Ag,Cu, Pb,Zn	stratabound massive sulphide	EM, mag.; geochem.; 8 trenches
186	CK (Rea Gold/ Verdstone)	82M-137, 224-228	Kamloops	82M/13E	Zn,Pb,Cu	stratiform massive sulphide	95 ddh, 8999 m in 6 zones; IP; geochem.
187	Steep (National Resource Exploration/Discovery Consultants)		Kamloops	82M/4W, 4E	Pb,Zn,Au, Ag	skarn	6 ddh, 1450 m; 1 trench, 3 km road construction
188	Biere (National Resource Exploration/Discovery Consultants)		Kamloops	82M/5W	polymetallic	massive sulphide	Mag., VLF-EM; geochem.; 1 ddh, 150 m
189	Adam (Adams Exploration, Clifton Resources/ B. Spencer Engineering)		Kamloops	82M/4E	polymetallic	massive sulphide	55 ddh, 5101 m; 1 km road; 40 trenches; IP; geochem.
190	Cana (Esso Minerals Canada)		Kamloops	82M/4W	polymetallic	volcanogenic massive sulphide	11 ddh, 1575 m
191	Wiki (Esso Minerals Canada)		Kamloops	82M/4W	polymetallic	volcanogenic massive sulphide	1 ddh, 148 m

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192	Tia (G. Belik/Nu Crown Resources)	82M-239	Kamloops	82M/12W	polymetallic	massive sulphide	10 ddh, 1000 m (approx.); 1.5 km road construction; IP, mag., VLF-EM
193	OK (Algo Resources)		Kamloops	82M/4W	polymetallic	massive sulphide	15 ddh, 1230 m; geological survey; geochem.; IP, VLF-EM, AEM
194	Birk Creek (Noranda Exploration)		Kamloops	82M/5W	Pb,Zn,Cu,Au, Ag	volcanogenic massive sulphide	13 rcdh, 1400 m; 6 trenches; geochem.; 20 km road construction
195	Windpass (Kerr Addison)	92P-039	Kamloops	92P/8E	Au	vein	6 ddh, 2000 m; 20 trenches; mag.
196	Fortuna (BP Resources)	92P-044, 046	Kamloops	92P/1E	Au	volcanogenic massive sulphide	2 ddh, 275 m; VLF-EM, mag.
197	CM (BP Resources)		Kamloops	92P/8E	Cu,Au	massive sulphide	2 ddh, 250 m; 7 trenches; mag., IP, max-min; geochem.
198	Water (BP Resources)	82M-121	Kamloops	82M/12W	Cu,Au,Ag	mesothermal	5 ddh, 600 m; geochem.
199	JC (Celebrity Energy)		Kamloops	82M/4W	polymetallic	massive sulphide	6 ddh; 6 trenches
200	Cad (J.D. Graham/ J.M. Ashton)	82M-222	Kamloops	82M/5W	polymetallic	massive sulphide	3 ddh, 400 m; VLF-EM
201	Tahoola (Rat Resources/ SMD Mining)	92P-008	Kamloops	92P/9W	Au	intrusive associated	3 ddh, 305 m
202	Comet-Davenport (CID, Rainbow) (Afton Operating Corp.)	92I/NE-026,028, 030	Kamloops	92I/9W	Cu,Au	porphyry	27 ddh, 3321 m; geochem.
203	Mosquito King (Killick Gold)	82M-007, 016,138 139	Kamloops	82M/4E	Pb,Zn,Ag,Au	massive sulphide	1.8 Kt bulk sampling; 50 tpd mill and camp built; trenching; EM
204	Bar (Minnova)	82M-062	Kamloops	82M/4W	polymetallic	massive sulphide	10 ddh, 830 m; mapping; trenching; max-min; geochem.
205	Chu Chua (Minnova)	92P-140	Kamloops	92P/8E	Cu,Au,Zn,Ag	volcanogenic massive sulphide	6 ddh, 850 m; max-min; geochem.; mapping
206	Twin (Esso Minerals Canada)	82M-020	Kamloops	82M/4W	polymetallic	volcanogenic massive sulphide	18 ddh, 2269 m; 400 m trenching; VLF-EM
207	Kamad (Homestake) (Esso Minerals Canada)		Kamloops	82M/4W	Ag,Pb,Zn,Au, Ba	volcanogenic massive sulphide	18 ddh, 3026 m; VLF-EM; geochem.

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208	Canoe (Outland Resources/ Technigen Platinum)	83D-14W	Cariboo	83D/14W	muscovite	mica schist	6 ddh, 304.5 m; 1986 bulk sampling (approx. 2400 t); reserves: 2.074 Mt @ 60.6% mica
209	Summit (D. Tener/Azure River Gold)	83D-004	Kamloops	83D/12W	Au	vein	20 rcdh, 1820 m; 3 ddh, 185 m; 15 trenches, 125 m; VLF-EM; geochem.
210	Dove/Ingrid (Redbird Gold)		Kamloops	83D/11E	Au	vein	14 ddh, 283 m; mag.; geochem.; 600 m road construction; stripping; geological mapping
211	Reliance (C. Boitard/Menika Mining)	92J/NE-033	Lillooet	92J/15W	Au,Ag,Sb	vein	53 ddh, 8474 m; trenching; 8 km road construction
212	Tyax (X-Cal Resources)		Lillooet	92J/15W	Au	vein	16 ddh, 1736 m; 10 trenches, 500 m
213	Wayside (Chevron Resources)	92J/NE-030	Lillooet	92J/15W	Au,Ag,Cu,Zn	vein	7 ddh, 1050 m; 10 trenches
214	Golden Sidewalk (Manhattan Mineral)		Lillooet	92J/15	Au	vein	4 rdh, 2500 m
215	Congress (Levon Resources)	92J/NE-029	Lillooet	92J/15W	Au,Ag	vein, replacement	600 m drift, 100 m raises; underground ddh, 1000 m
216	BRX (Levon Resources)	92J/NE-020-025	Lillooet	92J/15W	Au	vein, replacement	70 trenches
217	Standard Creek (Armeno Resources/ Trans Atlantic Resources)	92J/NE-015	Lillooet	92J/10E	Au,Cu,Pb,Zn, W	vein	24 ddh, 5514 m; 135 m u/g development; pdh 126 m; adit rehab.; geochem.; mapping, VLF-EM; 6 km road construction
218	Veritas (Coral Energy)	92J/NE 031	Lillooet	92J/15W	Au	vein, replacement	13 ddh, 1586 m
219	Eva-Ave (Abermin/Millenium Resources)		Lillooet	92O/2W			1 ddh, 185 m; geochem.; mag.
220	Watson (Chevron Resources)	92O-054, 056	Clinton	92O/1E			4 ddh, 450 m; 4 trenches; mapping; geochem.
221	Relay Creek (Esso Minerals Canada)	92O-059	Clinton	92O/2W	Au,Ag	vein, replacement	5 rcdh, 750 m; 5 trenches; IP; geochem.
222	Rex (Poison Mtn.) (Lac Minerals)		Clinton	92O/2E	Au,Cu	porphyry	10 ddh, 3048 m

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
223	Yalakom (Balsam Resources/Howie Exploration and Development)		Clinton	92O/2E	Au		underground drilling
224	Taylor-Windfall (Welcome North Mines/ Taywin Resources)	92O-005	Clinton	92O/3E	Au,Ag,Cu,Pb, Zn	epithermal	8 rcdh, 799 m
225	Galaxy (Abermin)	92I/NE-007	Kamloops	92I/9W	Cu,Au	porphyry	7 rcdh, 367 m
226	Corona & Bob (G. D'Angelo/Tatlar Resources)	92I/SE-104	Kamloops	92I/7E	Au		4 ddh, 365 m
227	Mustang (M. Morrison/Vault Explorations)		Kamloops	92I/10E	Au		6 pdh, 700 m
228	Kam & Jeff (Emerald Star Resources/ Canadian Nickel)		Kamloops	92I/5W	Au		10 dh (percussion and diamond)
229	Getty (Krain) (Robak Industries/ S. Gower)	92I/NE-038	Kamloops	92I/10W	Cu	porphyry	16 dh; 6 trenches; 20 test pits
230	Thom-Fehr (MineQuest)		Kamloops	92I/10W	Au	epithermal	7 rcdh, 645 m; mag., VLF-EM, IP
231	Mara (MineQuest)		Kamloops	92I/9W	Au,Cu,Ag,Pb	epithermal	17 rcdh, 1489 m; geochm.; VLF-EM
232	Bonaparte (East/West) (Hughes-Lang Group/ Inter-Pacific Resources/ MineQuest)	92P-050, 159	Kamloops	92P/1W	Au,Ag,Cu,Mo	vein	geochem.; VLF-EM, mag.
232	Bonaparte (Central) (Inter-Pacific Resources/MineQuest)	92P-050	Kamloops	92P/1W	Au,Cu	vein	24 ddh, 1874 m; trenching
233	Ajax (Afton Operating/ Teck/Cominco)	92I/NE-012	Kamloops	92I/9	Cu,Au	porphyry	77 ddh, 11 582 m
234	Makaoo (BP-Selco/Makaoo International)		Kamloops	92I/9	Cu,Au	porphyry	underground mapping, sampling
235	Elk (Fairfield Minerals)		Similkameen	92H/16W	Au	vein	30 trenches; geochem.; IP
236	Hit & Miss (Canadian Nickel)	92H/NE-157	Similkameen	92H/10E	Au	vein	6 ddh, 550 m (approx.)
237	Sadim (Laramide Resources/ I.M. Watson Associates)		Nicola	92H/10E	Au	vein	15 ddh, 2072 m; VLF-EM, mag.; trenching; geochem.; mapping
238	Snowflake (Gerie Gold/Quilchena)		Nicola	92I/2	Au	vein, replacement	16 ddh, 1217 m

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
239	Red Star (Bukara Resources)	92H/SE-067	Similkameen	92H/2E	Au	replacement	35 trenches, 1100 m; geochem.; IP, VLF-EM
240	Rabbitt-Boulder (Abermin/Calais Resources/Searchlight Resources)	92H/NE-018-020, 122,123	Similkameen	92H/10W	Cu,Au,Ag	vein	12 ddh, 660 m
241	Treasure Mtn. (Huldra Silver)	92H/SW-016,018, 019	Similkameen	92H/6E	Ag,Pb,Zn	vein	10 rcdh; bulk sampling from trenches; 320 m drifting, 125 m raising
242	Whipsaw Creek (World Wide Minerals)	92H/SW-097	Similkameen	92H/7	Cu,Pb,Zn	vein, breccia	27 ddh, 3057 m; 10 trenches; geochem.
243	Voight Zone (Frisco, Automatic) (Newmont Exploration of Canada)	92H/SE-018	Similkameen	92H/8W	Cu,Au	vein	19 ddh, 2592 m; 300 m trenches; geochem.; mag., IP
244	Cahill (Consolidated Seagold)		Osoyoos	92H/8E	Au	skarn	7 ddh, 1020 m; VLF-EM, mag.;
245	New Hope (Lacana Mining)		Osoyoos	92H/8E	Au	skarn	5 ddh, 1000 m; 10 trenches; geochem.; VLF-EM, mag.
246	Canty, French, Good Hope,Mascot Fr. (Golden North Resources/Mascot Gold Mines)	92H/SE-059,060 064	Osoyoos	92H/8E	Au,Ag,Cu,Zn	skarn	Canty: 13 ddh, 2466 m; Good Hope: 4 ddh, 595 m; Mascot Fr.: 33 underground ddh, 3735 m
247	Nickel Plate (Mascot Gold Mines)	92H/SE-062	Osoyoos	92H/8E	Au,Ag,Cu,Zn	skarn	surface 69 ddh, 15 758 m; underground 18 ddh, 2168 m
248	Similkameen Project: Rice,Camsell, Lost Horse, etc. (Chevron Resources)		Osoyoos	92H/8E	Au	skarn	2 ddh, 305 m; trenching, 1140 m; geochem.; geological mapping; 1140 m road trenches
249	Maple Leaf, Pine Knot (Noranda Exploration/ Banbury Gold Mines)	92H/SE-046	Similkameen/ Osoyoos	92H/8E	Au,Cu,Pb,Zn, Ag	vein (skarn target)	8 ddh, 1676 m; geochem.

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
250	Fairview Camp: Morning Star, Stemwinder, Brown Bear, Fairview, Susie, Standard (Oliver Gold/Cominco/ Highland Valley Resources)	82E/SW-006-008, 090,091	Osoyoos	82E/4E	Au,Ag,Si,Cu, Pb,Zn	vein	Fairview mine: underground rehab., 23 m drifting; 6 underground dh, 418 m; mapping and sampling on 5 and 6 levels; metallurgical testing; 4 surface ddh, 525 m; Brown Bear, Susie, Standard: underground mapping and sampling.
251	PDL (Placer Dome/MineQuest)		Osoyoos	82E/5W			VLF-EM; geochem.
252	Oka (Fairfield Minerals)	82E/NW-025-027, 030	Osoyoos	82E/13W	Au,Ag,Cu,Pb, Mo		28 trenches; mag.; geochem.; 1 km road construction
253	Camp McKinney (W.E. McArthur/Ark Energy)	82E/SW-020,044-046	Greenwood	82E/3E	Au,Ag,Pb,Zn, Cu	vein	8 ddh, approx. 600 m; mine rehab.
254	Yuniman (Old Digging) (TRV Minerals/Toby Creek Resources)		Osoyoos	82E/5W	Au,Ag	vein	6 ddh; 10 trenches; 1 km road construction
255	Star of Hope (Echo Mtn. Resources/ Maximus Resources)	82E/SW-051	Osoyoos	82E/5W	Au,Ag,Pb	breccia, vein	6 ddh, 380 m; 6 trenches
256	Orofino Mtn. (G. Crooker/Grandex Resources)	82E/SW-010	Osoyoos	82E/5E	Au,Ag,Pb,Zn	vein	22 ddh, 1425 m; 30 trenches; mag., VLF-EM; geochem.
257	Vault (M. Morrison/Canadian Nickel)	82E/SW-173	Osoyoos	82E/5E	Au,Ag	vein, epithermal	21 ddh, 5411 m
258	North Brenda (Noranda Exploration/ Brenda Mines)	82E/NW-003,008	Nicola/ Osoyoos	82E/13W	Cu,Mo	porphyry	9 ddh, 725 m; geochem.; IP
259	Chaput (Quinto Mining)	82L/SE-066	Vernon	82L/7W	Au,Ag,Pb,Zn, Mo,Cu	vein, shear	32 rcdh, 2130 m; 7 ddh, 900 m; VLF-EM, mag.; geochem.; metallurgical testing
260	Equesis (MineQuest)		Vernon	82L/6W	Au,Ag	vein	geochem.; geophys., VLF-EM, IP; geological mapping; 26 km trenching; 10 ddh planned (Nov.-Dec.)
261	Kalamalka (E. Dodd/Triple Star Resources)	82L/SW-050	Vernon	82L/3E	Au,Ag,Cu,Pb, Zn	vein	underground rehab., 122 m; 7 ddh, 134 m

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
262	Gold Star (Brican Resources)		Vernon	82L/4E	Au	vein	14 trenches; VLF-EM;geochem.; 2 ddh; planned 10 ddh total
263	Brett (Huntington Resources/ Lacana Mining)	82L/SW-110	Vernon	82L/4E	Au,Ag	vein	32 ddh, 2900 m; 10 trenches; geochem.
264	J & L (Pan American Minerals)	82M-003	Revelstoke	82M/8E	Au,Ag,Pb,Zn	volcanogenic massive sulphide	underground 20 ddh, 1913 m; raises, 115 m; 152 m cross-cut, 1100 t bulk sample, metal-lurgical testing

SOUTHWESTERN DISTRICT

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
265	Valentine Mtn./Blaze (Beau Pre Explorations/ Valentine Gold)	92B-108	Victoria	92B/12W	Au,Ag	veins	24 ddh, 2691 m; trenching; bulk sampling; geochem.; geophys.; 20 tpd pilot mill constructed;
266	PF/Cornucopia, Yreka (P. Postuk/ Falconbridge)	92B-038, 039	Victoria	92B/13E	Cu,Au,Ag	massive sulphides	3 ddh, approx. 1150 m
267	Mt. Sicker/Lenora, Tyee (Minnova)	92B-001, 002,003, 087-089, 099	Victoria	92B/13W	Au,Ag,Cu,Zn, Pb	massive sulphides	15 ddh, 4920 m; mapping; geochem.; geophys.
268	Canamera/Copper Canyon (Canamera Explorations/ Minnova)	92B-086	Victoria	92B/13W	Cu,Ag,Au	massive sulphides	6 ddh, 890 m; mapping; geochem.; geophys.
269	Lara/Coronation (Abermin, Laramide Resources)	92B-102	Victoria	92B/13W	Au,Ag,Zn,Cu, Pb	massive sulphides	83 ddh, 14 698 m; geophys.
270	Chip/Anita (Esso Minerals, (Falconbridge)	92B-037	Victoria	92B/13W	Cu,Ag	massive sulphides	18 ddh, 6754 m; geophys.;
271	Striker/Candy, Paula, Wardroper (Utah Mines)	92C-076, 113,114, 126	Victoria	92C/16E, 16W	Au,Cu, rhodonite	ferruginous cherts	4 ddh; geophys.;
272	Heather (International Cherokee/Minnova)	92C-127	Victoria	92C/15E, 16W	Cu,Au	massive sulphides, shear zone	5 ddh, 589 m; trenching; mapping; geochem.;
273	Sarita/Doer, Gambler (Tenquille Resources/ Rattler Resources)	92C-006, 032,096	Alberni	92C/15W	Zn,Cu,Ag,Au	skarns	3 ddh; geophys.; geochem.;
274	Fitzwater (Ladysmith Minerals/ Crew Minerals)		Alberni/ Victoria	92F/2E	Au,Ag,Cu,Pb, Zn	massive sulphides, shear zone	9 ddh, 869 m; geophys.; geochem.; trenching;

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
275	Holt (Goldenrod Resources, Nexus Resources)		Victoria	92B/12W, 13W	Au,Ag,Cu	massive sulphides, veins, shear zones	mapping; geochem.; trenching; geophys.; 12 ddh;
276	West/Jane, Lucky Strike, Sally, Sirius	92B-049, 091-093	Victoria	92B/13E	Cu,Zn	massive sulphides	10 ddh, 2800 m
277	Cow/Pogo (Angle Resources, JB Resources/International Cherokee)	92C-074	Victoria	92B/13W, 92C/16E	Au,Cu,Pb,Zn	veins, shear zones	trenching; 2 ddh, 99 m
278	Chem/Stanley Creek (L. Balak *et al.*/ International Cherokee)	92C-116	Victoria	92B/13W, 92C/16E	Au,Fe, rhodonite	iron formation	2 ddh, 213 m
279	Debbie/Regina (Westmin Resources, Angle Resources, Nexus Resources)	92F-078	Alberni	92F/2E, 7E	Au,Ag,Cu	altered shears, massive sulphides, ferruginous cherts, veins	94 ddh, 15 000 m (some early 1988); mapping; geophys.; geochem.
280	Yellow/Victoria (Angle Resources, Reward Resources/ Westmin Resources)	92F-079	Alberni	92F/2E	Au,Ag,Cu	altered shear, veins	125 ddh, 25 900 m (some 1986 and 1988); mapping; geochem.; geophys.; trenching
281	High Sierra (H. McMaster/SYMC Resources)		Alberni	92F/2E	Au,Ag,Cu,Mo	veins	10 ddh, 945 m; trenching
282	Ark/HM (Ascot Resources/ Stetson Resource Management)	92F-230	Alberni	92F/6E	Sb,Hg,Ag,Cu	veins	3 ddh, 270 m; trenching
283	Tay/MT (Dalmation Resources)	92F-212	Alberni	92F/6W	Au	veins	6 ddh, 485 m; geophys.; geochem.
284	Snow (Area Explorations/ Casau Explorations, Snowfield Resources)		Alberni	92F/6W	Au,Ag,Pb,Zn, Cu	veins	3 ddh, approx. 200 m; geophys.; trenching
285	Tommy/Tommy K (International Coast Minerals/Kerr Addison)	92F-033	Alberni	92F/3W	Au,Ag,Cu	veins	8 ddh, 1656 m; mapping; geochem.
286	Epic (Geo PC Services/ Aintree Resources)		Alberni	92F/3W	Ag,Cu,Au	shears,veins	trenching; diamond drilling; geochem.
287	Prosper (W. Guppy/Tamara Resources)	92F-053	Alberni	92F/5E, 5W	Au,Ag,Cu,Pb	veins	underground drifting; sampling;

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
288	Kalappa/Syoutl, Iron Cap, Lone Cone (Iron River Resources)	92F-077, 158,163, 204	Alberni	92F/4W	Au,Ag,Cu,As	veins, massive sulphides	trenching; geophys.; geochem.; mapping
289	Cypress/Bay Creek, Cat's Eye (Utah Mines)	92F-343, 344	Alberni	92F/5W	Cu,Zn,Ag	massive sulphides	5 ddh, 810 m; geophys.; geochem.; mapping
290	Bedingfield (Cominco)		Alberni	92F/5W			6 ddh, 1100 m; geophys.
291	Adola/June (Adola Mining/ Prophesy Development)	92E-018	Alberni	92E/9E	Au,Cu,Pb, Zn,Ag	replacement zones, veins	trenching; diamond drilling; geophys.; geochem.
292	Spud Valley/ Goldfield (McAdam Resources)	92L-211	Alberni	92L/2W	Au,Ag	veins	surface drilling, approx. 15 ddh, 3000 m; underground drifting
293	Electrum/BP, Kyu, Easy (BP Minerals/Taywin Resources)	92L-201, 202,203	Alberni	92L/3W	Au,Ag,Cu,Zn	epithermal veins, skarn	32 ddh, 1108 m; 45 pdh, 233 m; trenching; geochem.
294	Villalta (Canamin Resources)	92F-384	Nanaimo	92F/1W	Au,Fe	manto, residual?	47 ddh, 1042 m
295	Emma (Au Resources)		Nanaimo	92F/2E	Au	veins	12 ddh, approx. 1500 m; geophys.; mapping; geochem.
296	Cathedral (Reward Resources/ Nexus Resources)		Nanaimo	92F/7E	Au	altered shear zone	6 ddh, approx. 1500 m
297	Lupus (Proquest Resource Corp./Cactus West Explorations)	92F-308	Nanaimo	92F/14E	Au,Ag,Zn,Cu, As	vein breccia	14 ddh, approx. 610 m; trenching; geochem.
298	Dove (J. Paquet/Westmin Resources, Visible Gold)		Nanaimo	92F/11E, 14E			airborne/ground geophys.; geochem.; 8 ddh, 1116 m
299	Mt. Washington/ Domineer,Murex, Lakeview (Better Resources)	92F-116, 117,206, 330	Nanaimo	92F/11E, 11W 92F/14E, 14W	Au,Ag,Cu,As	epithermal veins, breccias	120 ddh, 8880 m; underground drifting, 300 m; bulk sampling; trenching; mapping
300	Nat/Contact (Nation River Resources/ Lone Jack Resources)	92K-085	Nanaimo	92K/3E, 3W	Au,Ag,Cu	skarns, vein	4 ddh, 315 m; geochem.
301	Bolivar (Rhyolite Resources)	92F-364	Nanaimo	92F/15E	Au,Zn	skarn	trenching; bulk sampling
302	Holly (Johanson *et al.*, Rhyolite Resources)	92F-321	Nanaimo	92F/10E	Au	shear zone, veins	trenching; bulk sampling
303	Yew (Rhyolite Resources)		Nanaimo	92F/10E, 15E	Au,Ag,Cu	manto, skarn	trenching; geophys.

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
304	Vananda Gold/Little Billie, Cornell, Copper Queen, Texada Iron (Ideal Cement/ Vananda Gold)	92F-105, 106,107, 112,271, 395	Nanaimo	92F/10E, 15E	Au,Ag,Cu,Fe, Zn, wollastonite	skarns, mantos	trenching; mapping; geochem.
305	International Maggie Mines/War Eagle, ABC, Indian River Copper (International Maggie Mines/Minnova)	92G/NW- 024,028, 042	Vancouver	92G/10W, 11E	Cu,Zn,Pb,Au, Ag	sulphide veins	ddh, 1225 m; geophys.; geochem.; mapping
306	Baldwin-McVicar (Falconbridge)	92G/NW- 006	Vancouver	92G/11E	Cu,Zn,Pb,Ag	massive sulphides	9 ddh, approx. 2800 m; geochem.
307	Mineral Hill (R. Riepe/Tri-Sil Minerals)		Vancouver	92G/12W	wollastonite, garnet	skarn	8 ddh, 742 m; trenching; mapping; bulk sampling; beneficiation tests
308	Sechelt Carbonate/ MC, Peninsula Lime (Candol Development/ Ingot Exploration)	92G/NW- 031,035	Vancouver	92G/12W	dolomite, marble	sedimentary, metamorphic	6 ddh, 583 m
309	Lang Bay/GE (Fargo Resources)	92F-137	Vancouver	92F/16W	kaolin, Ge, Ga	sedimentary, residual	geophys., incl. seismic; 7 ddh and 27 rcdh; product quality and beneficiation studies
310	East Thurlow/White Pine, Douglas Pine (Verdstone Gold/ Rea Gold)	92K-035, 036	Vancouver	92K/6W	Au,Ag,Cu	veins	trenching; geophys.; geochem.; mapping
311	Alexandria/Enid, Julie, Commonwealth (Charlemagne Resources)	92K-024, 025,028	Vancouver	92K/6W, 11W	Au,Ag,Cu	veins/shear zone	9 ddh, approx. 825 m
312	Doratha Morton (New Signet Resources)	92K-023	Vancouver	92K/11W	Au,Ag	veins/shear zone	trenching; geochem.; mapping
313	Sky/Spanar (Skyrocket Exploration)	92G/SE- 019	New Westminster	92G/8W	Au,Ag	veins	2 ddh, 260 m; geophys.
314	Seneca/Harrison, Lov (Chevron Minerals/ International Curator Resources)	92H/SW- 013,069	New Westminster	92H/5W	Cu,Zn,Ag,Au Pb	massive sulphides	approx. 12 ddh, 3000 m
315	Fire Creek (Hycroft Resources/ Englefield Resources)		New Westminster	92G/16E, 16W	Au,As,Cu	massive sulphides	8 ddh

Map No.	Property/MINFILE Name (Owner/Operator)	Inventory No.	Mining Division	NTS	Commodity	Deposit Type	Work Done; Remarks;
316	Abo/GEO, RN (Abo Resource Corp./ Kerr Addison, Bema International)	92H/SW-092	New Westminster	92H/5E, 5W	Au	vein stockwork	350 m underground drifting and raising; bulk sampling; pilot milling
317	North Fork (Minnova)	92H/NW-070	New Westminster	92H/12E	Cu,Zn	massive sulphides	4 ddh, 680 m
318	Aufeas (Silver Cloud Mines)	92H/SW-036	New Westminster	92H/6W	Au,Ag,Cu,As	veins	5 ddh, 734 m; geochem.
319	Master Ace/Newjay (Carlac Minerals/ Newjay Resources	92H/SW-043,143	New Westminster	92H/6E	Au,Ag,Cu	silicified shear zone	7 ddh, 278 m
320	Lill/Eagle, Lake, Boulder (Green Lake Resources)	92J/SE-008,009, 010	Lillooet	92J/7E	Cu,Zn,Ag,Au	skarn, massive sulphides?	2 ddh
321	Nina (Silver Hill Mines)		Lillooet	92J/7E	Au	veins	3 ddh, approx. 460 m
322	Snow/IXL, Copper Bay (B. Mickle/ Mondavi Resources)	103G-005, 006	Skeena	103G/4W	Au,Cu,Ag	veins, alteration zones	trenching; geophys.; geochem.; mapping
323	Southeaster (Mandalla Resources)	103G-004	Skeena	103G/5W	Au,Ag,Pb,Cu	veins	trenching; geophys.; mapping
324	Cinola/Babe (City Resources Canada)	103F-034	Skeena	103F/9E	Au	epithermal vein stockwork	64 rcdh, 6230 m; 30 ddh, 3447 m; 120 m underground drifting; bulk sampling; pre-feasibility studies

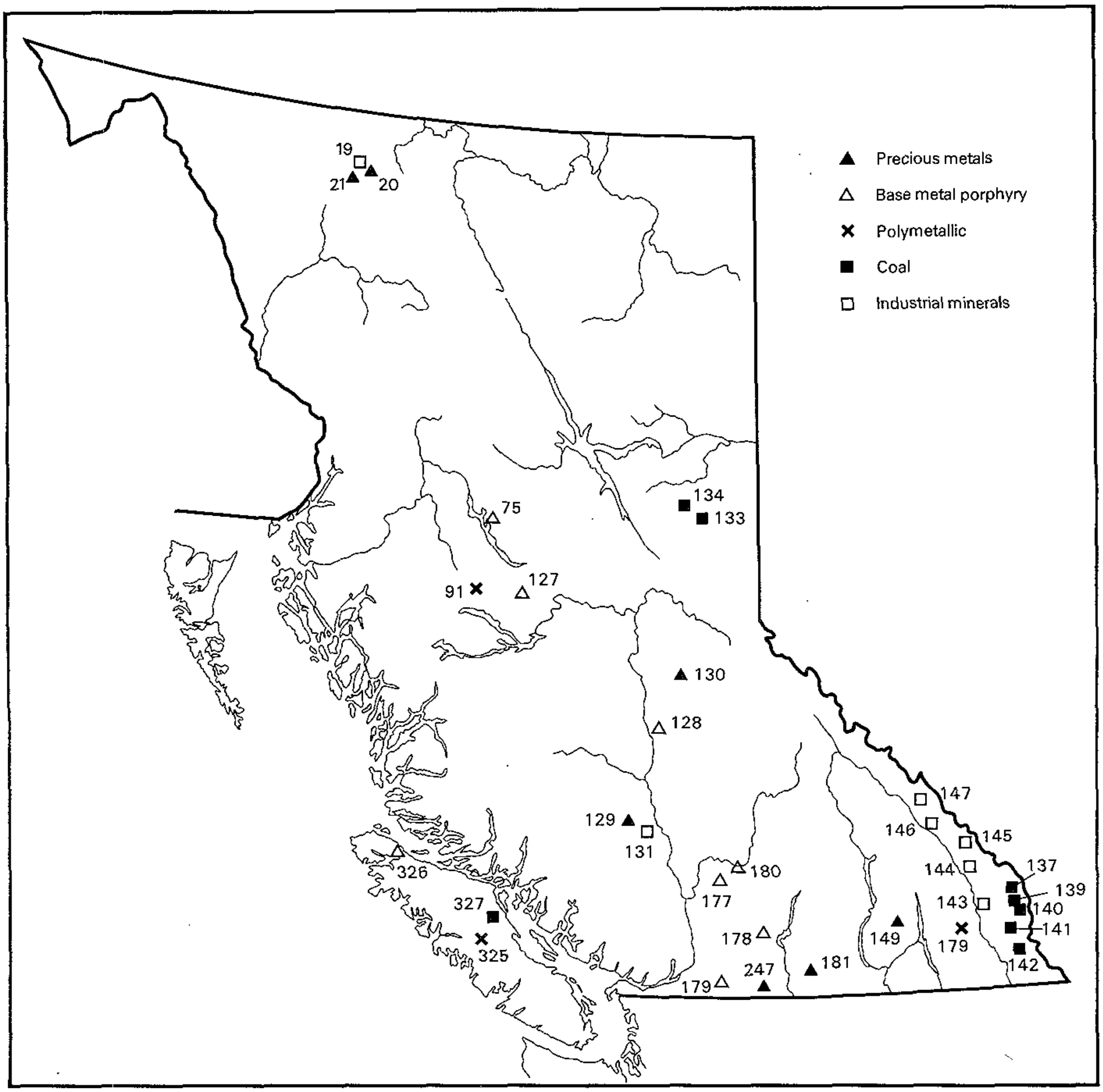

Figure A3. Producing mines in British Columbia, 1987.

TABLE A2. ACTIVE MINES IN BRITISH COLUMBIA
(Map numbers are keyed to Figure A3)

Map No.	Property/MINFILE Name (Owner/Operator)	Mining Division	NTS	Commodity	Deposit Type	Production and Development Data
NORTHWESTERN DISTRICT						
19	Cassiar Asbestos (Cassiar Mining)	Liard	104P/5E	asbestos	ultramafic	Milled 1.1 Mt asbestos ore at 5300 tpd. Reserves: 3.493 Mt @ C.C.R.G. 6.90% grade
20	Erickson Gold (Total Erickson Resources)	Liard	104P/4E	Au	vein	Milled 85.4 kt @ 230 tpd.
21	Taurus (Taurus Resources)	Liard	104P/5E	Au,Ag	vein	Milled 25.3 kt Au-Ag ore
75	Bell Copper (Noranda)	Omineca	93M/1W	Cu,Au	porphyry	Milled 5.39 Mt @ 14 750 tpd. Reserves: 12.4 Mt @ 0.528% Cu
91	Equity Silver (Equity Silver Mines)	Omineca	93L/1W	Ag,Au,Cu	transitional	Milled 3.32 Mt @ 9100 tpd. Reserves: 14.7 Mt @ 86.5 g/t Ag, 1.08 g/t Au, 0.255% Cu
CENTRAL DISTRICT						
127	Endako (Placer Dome)	Omineca	93K/3E	Mo	porphyry	Milling rate: 9000 tpd. Reserves: 137 Mt @ 0.149% MoS_2
128	Gilbralter (Gibralter Mines)	Cariboo	93B/4E	Cu,Mo	porphyry	Milling rate: 40 000 tpd. Reserves: 185.8 Mt @ 0.3% Cu, 0.015% MoS_2. Production: 37 432 kt Cu
129	Blackdome (Blackdome Mining)	Clinton	92O/7,8	Au,Ag	epithermal vein	Milling rate: 180 tpd. Reserves: 254 kt @ 23 g/t Au, 75 g/t Ag. Production: 1452kg Au, 3935 kg Ag.
130	Mosquito Creek (Mosquito Creek Gold Mines)	Cariboo	93H/4E	Au	sulphide	Some batch milling in 1987
131	Frenier (Aurun Mines)	Clinton	92O/4W	perlite	volcanic flows	Production rate: >2000 t/year Reserves: 450 kt
NORTHEASTERN DISTRICT						
133	Quintette (Quintette Coal)	Liard	93P/3E	coal		Production: 5.0 Mt metallurgical coal, development and production drilling, 178 rdh, 21 193 m
134	Bullmoose (Teck)	Liard	93P/4E	coal		Production: 1.7 Mt metallurgical coal, development and production drilling, 80 rdh, 2226 m

Map No.	Property/MINFILE Name (Owner/Operator)	Mining Division	NTS	Commodity	Deposit Type	Production and Development Data
SOUTHEASTERN DISTRICT						
137	Fording River (Fording Coal)	Fort Steele	82J/2W	coal		proven and probable reserves of 300 Mt, predominantly metallurgical coal, 1.5 Mt est. production
139	Greenhills (Westar Mining)	Fort Steele	82J/2	coal		proven reserves of 104 Mt of metallurgical and thermal coal 3.31 Mt est. production
140	Line Creek (Crows Nest Resources)	Fort Steele	82G/15W	coal		proven reserves of 50 Mt metallurgical coal and 19 Mt thermal coal 1.5 Mt est. production
141	Balmer (Westar Mining)	Fort Steele	82G/10, 15	coal		proven reserves of 300 Mt, predominantly metallurgical coal 5.04 Mt est. production
142	Coal Mountain (Byron Creek Collieries)	Fort Steele	82G/7, 10	coal		proven reserves of 95 Mt of thermal and weak coking coal 0.69 Mt est. production
143	Lussier Gypsum/ United (Domtar)	Fort Steele	82J/4E	gypsum	sedimentary	total reserves of 10 Mt
144	Elkhorn/Windermere (Westroc Industries)	Golden	82J/5W	gypsum	sedimentary	total reserves of 30 Mt
145	Mt. Brussilof Magnesite/Rok, Mag (Baymag Mines)	Golden	82J/13E	magnesite	stratabound	proven reserves of 50 Mt
146	Nicholson, Horse Creek Silica/Hunt (Hanna Mining)	Golden	82N/2W	silica	sedimentary	seasonal production of hard quartzite for shipment to Hanna's Wenatchee ferrosilicon plant
147	Moberly Silica/ Mt. Moberly (Mountain Minerals)	Golden	82N/7W	silica	sedimentary	seasonal production of quartz sand for glass and other industries; plant operates year-round
WEST KOOTENAY DISTRICT						
149	Silvana (Dickenson Mines)	Slocan	82F/14W	Ag,Pb,Zn, Cd	vein	Reserves: 56 kt @ 442.3 g/t Ag, 6.55% Zn, 4.9% Pb
174	Sullivan (Cominco)	Fort Steele	82F/9E	Pb,Zn,Fe, Ag,Au,Cu,	sedex massive sulphides	Reserves: 26.3 Mt @ 6.9% Zn, 4.6% Pb, 34.28 g/t Ag

Map No.	Property/MINFILE Name (Owner/Operator)	Mining Division	NTS	Commodity	Deposit Type	Production and Development Data
SOUTH-CENTRAL DISTRICT						
177	Lornex/Valley Copper (Highland Valley Copper)	Kamloops	92I/11E	Cu,Mo	porphyry	Milling rate: 120 000 tpd increase to 130 000 tpd planned. Production: 41.14 Mt @ 0.404% Cu, 84% from Valley pit. Reserves: Lornex, 330 Mt 0.375% Cu, 0.013% Mo. Valley, 481 Mt @ 0.475% Cu
178	Brenda (Brenda Mines)	Osoyoos	82E/13E	Cu,Mo, (Au,Ag)	porphyry	Milling rate: 30 000 tpd. Producation: 10.3 Mt @ 0.177% Cu, 0.038% Mo. 1987 drilling extended life of reserves to 1990
179	Copper Mountain (Newmont Mines)	Similkameen	92H/7E	Cu(Au)	porphyry	Milling rate: 19 000 tpd. Reserves: 120 Mt @ 0.394% Cu. Au recovery 6 g/t concentrate
180	Afton (Teck)	Kamloops	92I/10E	Cu,Au,Ag	porphyry	Main pit closed in 1987. Production continued from Pothook zone. Milling rate: 6000 tpd. Reserves: 1.54 Mt @ 0.4% Cu will be depleted in 1988. U/g reserves: 9.52 Mt @ 1.5% Cu, 1/0 g/t Au, 8.9 g/t Ag. Low-grade stockpile, 3.36 Mt @ 0.3% Cu
181	Highland Bell (Teck)	Greenwood	82E/6E	Ag,Pb,Zn	vein	Milling rate: 100 tpd @ 275-340 g/t Ag, 1-2% Pb+Zn, 0.35-0.69 g/t Au
247	Nickel Plate (Mascot Gold Mines)	Osoyoos	82E/5W 92H/8E	Au,Ag	skarn	Milling rate: 2450 tpd Reserves: 9/0 Mt @ 4.56 g/t Au
SOUTHWESTERN DISTRICT						
325	Lynx, Myra, H-W (Westmin Resources)	Alberni	92F/12E	Cu,Zn,Pb,	volcanicgenic massive sulphide	Milling rate: 2770 tpd increasing to 4000 tpd. Reserves (Jan '87): 13.88 Mt @ 2.4 g/t Au, 38.7 Ag, 2.35% Cu, 0.25% Pb, 5.35% Zn
326	Island Copper (Utah Mines)	Nanaimo	92L/11W	Cu,Mo,Au, Re	porphyry	Milling rate: 45 000 tpd. Exploration including: trenching; geochem.; geophys.; 14 ddh, approx. 3000 m
327	Quinsam (Quinsam Coal)	Nanaimo	92F/14W	coal		Production: approx. 10 kt thermal coal. Full development on hold pending improved markets

NORTHWESTERN DISTRICT

By D.V. Lefebure, District Geologist, Smithers

INTRODUCTION

Explorationists were very active in 1987 in all parts of northwestern British Columbia. The total number of mineral exploration projects increased by more than 75 per cent from 1986, with nearly twice as many drilling programs. Northwestern British Columbia attracted a disproportionately high number of the exploration programs in the province because many areas of known mineral potential are relatively unexplored. The high level of exploration activity will undoubtedly result in new mine developments over the next few years.

Metals, particularly gold, drew almost all the attention. Coal exploration was limited to three properties and the only major program was carried out by Gulf Canada Resources Inc. on its Mount Klappan project. There were approximately 5 per cent fewer placer operations in the northwest in 1987 relative to 1986. Four metal mines and one asbestos mine operated in the Cassiar and Houston areas.

TRENDS

The resurgence of interest in lode gold deposits in the Atlin placer camp continued to build, with major programs by Homestake Mineral Development Co., Cream Silver Mines Ltd. and Placer Dome Inc. Exploration for Motherlode-style auriferous quartz veins hosted by Cache Creek Group rocks is targeted on areas of listwanitic alteration along ultramafic contacts close to areas of known placer production. To the south, in the Tatsamenie Lake area, there was exploration on numerous properties by Chevron Canada Resources Ltd. and Stetson Resources Ltd. The new access road presently under construction to the Golden Bear deposit definitely makes exploration in the Tatsamenie Lake area more attractive. The typical exploration targets are structurally controlled alteration zones (usually silicification) with gold mineralization in Paleozoic limestones and Triassic volcanics.

A new gold mining camp may soon emerge in the Iskut River area north of Stewart. Skyline Explorations Ltd. plans to mine its Stonehouse gold deposit in 1988 and the Cominco Ltd. Snip property seems destined for production with estimated minimum reserves of 1.15 million tonnes at 24.0 grams per tonne gold.

Deeper drilling in the Toodoggone River area by Cheni Gold Mines Inc. intersected ore-grade gold-silver mineralization at depths of more than 300 metres below surface on the Cliff Creek zone. The possibility that gold-silver deposits in the Toodoggone area extend to depths of more than 300 metres, the typical vertical extent of an epithermal precious metal deposit, may result in larger orebodies than have been commonly predicted. Current reserves for all zones on Cheni's Lawyers property are 1.76 million tonnes grading 6.7 grams gold and 243 grams silver per tonne.

In the Skeena arch many historic quartz veins are being re-evaluated for their precious metal potential, spurred in part by Teeshin Resources Ltd.'s success on the Dome Mountain gold property. These veins are typically hosted by Jurassic Hazelton Group volcanics or sediments. Generally more than one vein is required to establish sufficient reserves to justify the capital costs of mine development.

Companies continued to emphasize exploration of known mineral occurrences rather than "grassroots" projects. Fortunately this latter trend was counteracted by the increasing number of active prospectors. The resurgence of prospecting reflects both the greater demand for properties and the financial assistance program of up to $5000 per individual, available from the provincial government as part of the FAME program.

In the southern half of the Northwestern District prospectors used the improved road access, provided by logging roads built during the 1980s, to their advantage. A number of new mineral occurrences on logging roads were staked and explored in 1987.

Almost all programs continued well into the fall and some have extended through the winter. This contrasts markedly with exploration programs 10 years ago which were commonly restricted to the summer and early fall in northwestern British Columbia.

HIGHLIGHTS

* Adit proceeding towards **Windy Craggy** orebody.

* Resurgence of exploration in **Atlin area** for Motherlode-style gold deposits.

* Exploration in the historic **Tulsequah mining camp** for Kuroko-type volcanogenic massive sulphides.

* **Erickson Gold** mine will enter its tenth year in production in 1988.

* **Snip deposit** reserves announced at 1.15 million tonnes grading 24 grams per tonne gold.

* Skyline Explorations Ltd. plans to put **Stonehouse gold property** into production in 1988.

* **Newhawk Gold Mines Ltd.** established barge-road link between Sulphurets property and Highway 37.

* Westmin Resources Limited started a pre-development program to prepare for open-pit production in 1989 from the **Big Missouri** and **Silbak-Premier** deposits.

* **Extension of the Omineca mining road** completed to the Lawyers property in the Toodoggone River area.

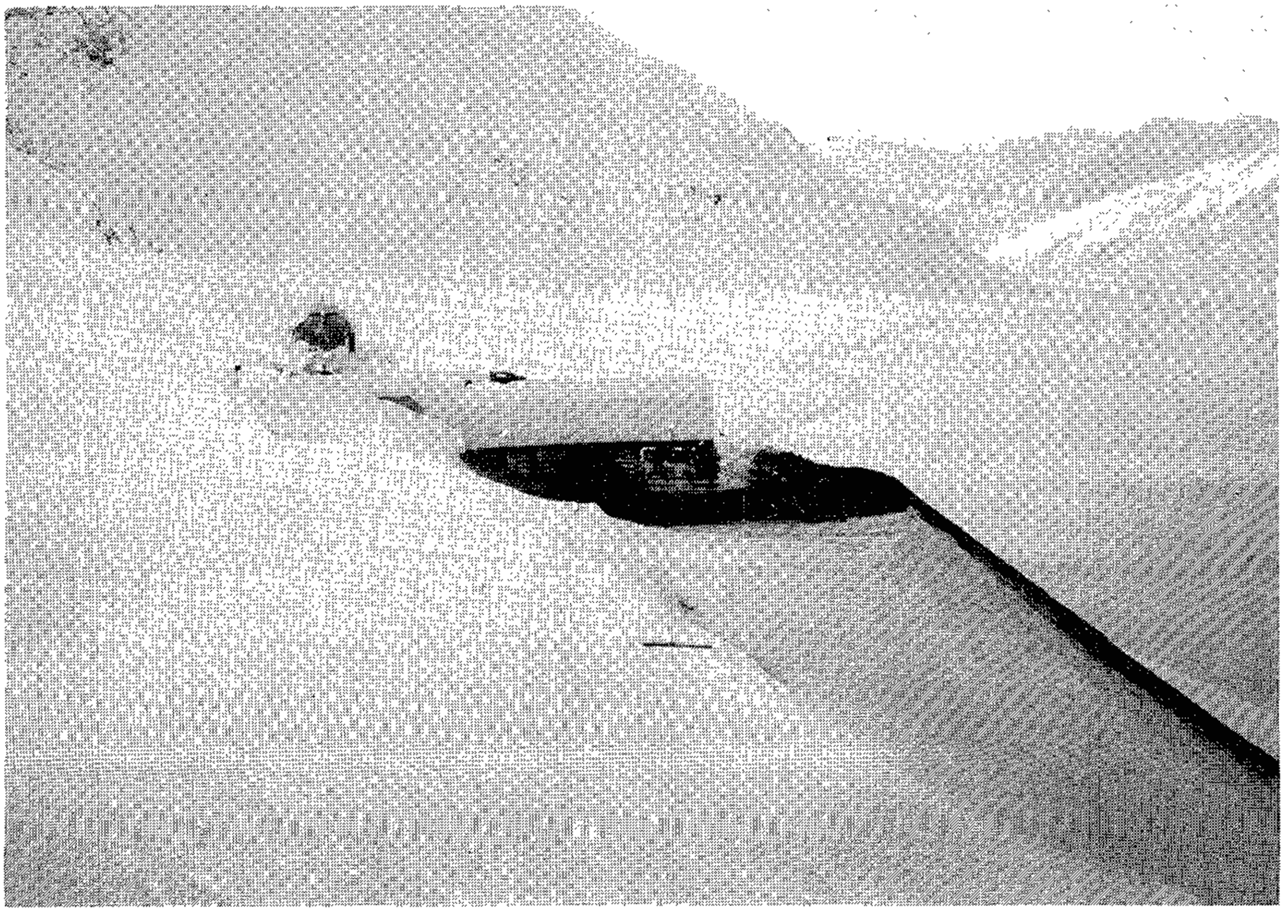

Plate A1. A view of the Windy Craggy portal showing the access road on the Tats Glacier in the background. The 2100-metre adit is being advanced to test the gold zone in the 300-million-tonne volcanogenic massive sulphide orebody. Photograph courtesy of Geddes Resources Ltd.

* Cheni Gold Mines Inc. started mine construction at the **Lawyers deposit** and plans production in 1989.

* **Bell** and **Equity Silver mines** increased profitability due to rising copper and silver prices.

* **Regional Geochemical Survey** release of Smithers and Whitesail Lake areas identified new anomalies and includes gold analyses for the first time.

SUMMARY OF EXPLORATION ACTIVITIES

MINERALS

A total of 322 notices of work for mineral exploration were submitted in 1987 for the Northwestern District. Almost one-third of these programs involved significant drilling or underground development. A summary of the 99 drilling or development projects is presented in Table A1.

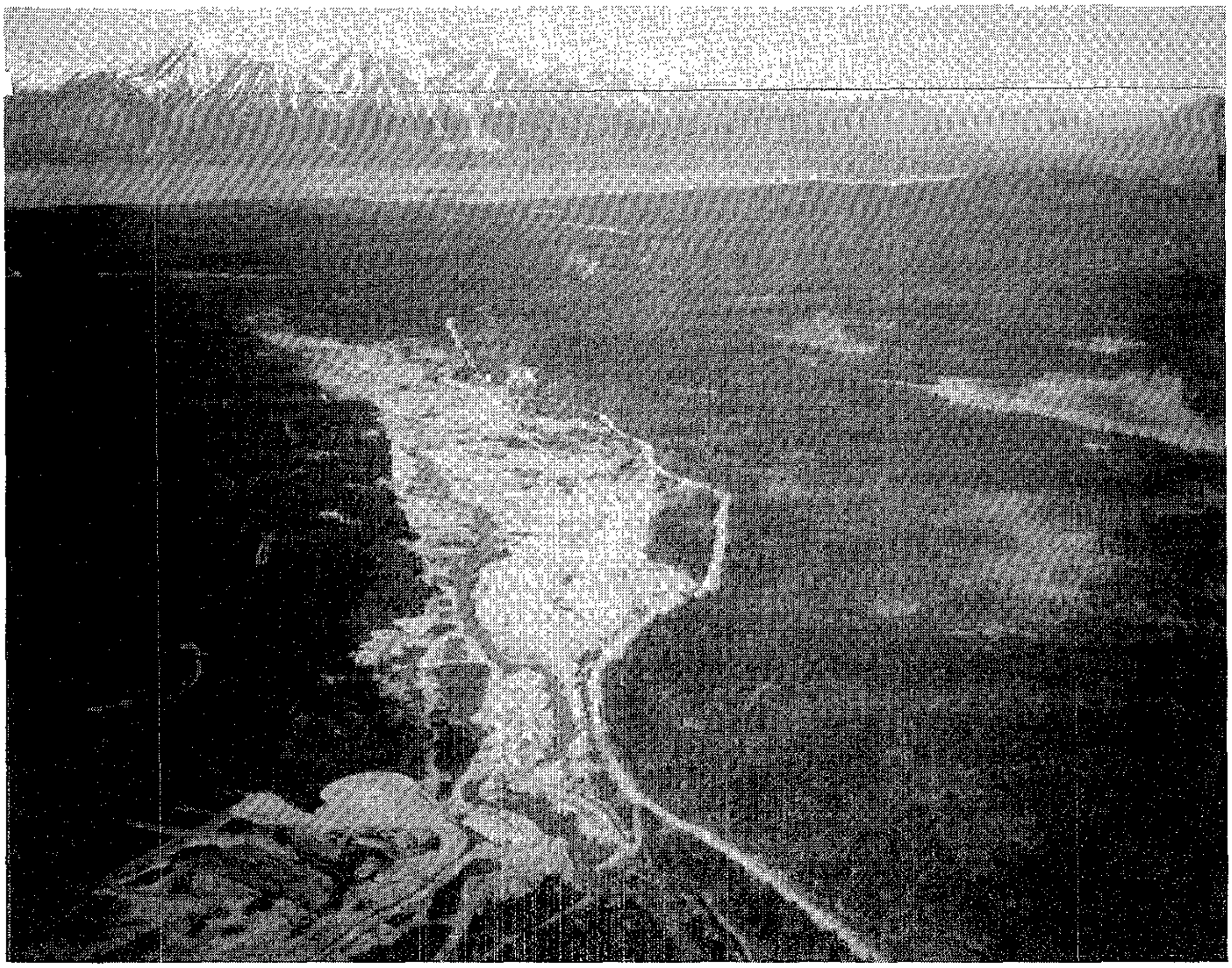

Plate A2. Looking west towards Atlin along Pine Creek. Homestake's Yellowjacket gold zone is located beneath the placer gravels near the centre of the photograph.

Tatshenshini River Area

In the extreme northwest part of the province Geddes Resources Ltd. and St. Joe Canada Inc. explored for volcanogenic massive sulphide targets in Triassic sediments and basalts. Geddes completed driving a 2100-metre adit to test the gold zone in the huge Windy Craggy deposit (1) in early 1988 (Plate A1), and also drilled three holes on the Tats massive sulphide showing (2).

East of the Tatshenshini River, Stryker Resources Ltd. and Freeport Resources Inc. continued to explore on their Low Herbert and Grizzly Heights showings (4) for volcanogenic massive sulphide deposits and auriferous quartz veins.

Atlin Region

Mesothermal gold veins were virtually the only exploration target in the Atlin region. Total Erickson Resources Ltd. investigated the northwest-trending Engineering and Double Decker quartz veins hosted by Jurassic Laberge Group argillites at the old Engineer mine (5). In the Atlin placer camp the Pictou (6), Yellowjacket (7), Spruce Creek (8) and Lakeview (9) lode gold properties were drilled. Homestake Mineral Development Co. has announced the best results to date with definition of a mineralized zone extending 225 metres along strike with ore-grade intercepts to 90 metres, including one intersection of over 2.4 metres of 24.3 grams per tonne gold (Plate A2). Cream Silver Mines Ltd. also drilled a skarn deposit on Ruby Mountain (10), one of a number of similar deposits in the area.

Tulsequah River - Tatsamenie Lake Area

Cominco Ltd. and Northwind Ventures Ltd. explored for Kuroko-type massive sulphides associated with Triassic Stuhini Group felsic volcanic rocks in the Tulsequah River area. Past production from the Tulsequah Chief mine included 1 to 3 grams per tonne gold with the silver, lead and zinc. Cominco drilled deep holes and completed an extensive geological mapping program to establish the stratigraphic sequence in the Tulsequah Chief area (11). This type of information is critical to future systematic exploration of this mining camp.

To the east, in the Tatsamenie Lake area, the Golden Bear project (17) moved to the development stage (*see* Development). Chevron Canada Resources, with joint venture partners Diamet Minerals Ltd. and Lightning Creek Mines Ltd., diamond drilled 40 holes on five properties searching for gold deposits. Most of the drilling was done on the Nie property (13) which lies on the same major north-trending fault system that controls the Golden Bear orebody.

Cassiar Mining Camp

All three mines in the Cassiar mining camp were explored for new reserves in 1987. Cassiar Mining Corporation completed more underground development (*see* Development) and a feasibility study on the McDame asbestos deposit (19). Immediately to the east, at the Taurus mine (21), Taurus Resources Ltd. drilled to test auriferous quartz veins in the Snowy Creek and Sable adit areas. Late in the year the Hopeful adit, located several hundred metres west of the Sable adit, was extended to provide underground access to several mineralized quartz veins.

In its ninth year of operation, Total Erickson Resources Ltd. continued an aggressive gold exploration program on its 220-square-kilometre property (20). Trenching, soil sampling and geological mapping were used to identify drill targets on the Cusac, Jade, Hunter, Table Mountain, Main and Katherine veins.

To the north of Cassiar near the Yukon border, Reg Resources Corp. drilled the Silverknife silver-lead-zinc deposit (18) located on claims adjacent to the Midway deposit. South of Cassiar and west of Dease Lake, Equity Silver Mines Ltd. drilled a large alteration zone adjacent to a placer gold occurrence on Thibert Creek (22).

Stikine Area

The Stikine area north of the Iskut River saw renewed interest in exploration as Long Reach Resources Ltd., Lac Minerals Ltd., Radcliffe Resources Ltd. and Gulf International Minerals Ltd. all completed diamond-drilling programs on gold-bearing veins. In the 1970s this area attracted attention for the large copper-gold porphyry deposits such as Schaft Creek and Galore Creek. Current work is focused on vein systems typically hosted by Mesozoic volcanics peripheral to porphyry-style mineralization. On the McClymont property (27), Gulf International intersected high-grade gold mineralization including 28.1 grams per tonne gold over 3.96 metres. Values such as these, coupled with the 1988 release of Regional Geochemical Survey results for NTS map sheet 104G, should spur future exploration in the area.

Iskut River Area

Hector Resources Ltd., Skyline Explorations Ltd., Cominco Ltd., Tungco Resource Corp., Taiga Consultants Inc., Winslow Gold Corp., Western Canadian Mining Corporation and Teck Corporation drilled on their gold properties in the Iskut River area. Underground development work was carried out by Skyline and Inel Resources Ltd. Typically the targets were pyritic shear zones or quartz veins hosted by Mesozoic sediments and volcanics. On Johnny Mountain, Skyline continued to develop its Reg (Stonehouse) deposit (29), (*see* Development) and announced plans to mine in 1988. On the adjacent Snip property (30), Cominco Ltd. and Delaware Resources Ltd. carried out an extensive drilling program to follow up 1986 intersections. The Twin zone, a calcite-quartz-biotite vein, has been followed for 450 metres and is open to depth. Magna Ventures Ltd. continued underground development to test the Q17 vein on the Doc property (37), located approximately 55 kilometres northwest of Stewart. There are a number of quartz veins with free gold in Hazelton Group sediments on the claims.

Stewart Mining Camp

Numerous companies explored the belt of Hazelton Group volcanic and sedimentary rocks between the Unuk River and Stewart. In the Sulphurets Creek area, Teuton Resources Corp., Newhawk Gold Mines Ltd., Catear Resources Ltd., Western Canadian Mining Corporation and Bighorn Development Corp. were active. Newhawk, Catear and Bighorn explored silver-gold veins and stockworks. During 1987 Newhawk spent $5.1 million to increase the proven reserves (*see* Table A3) and to build a road and barge link to its property (39). Teuton Resources discovered a gold-bearing skarn on Treaty Creek (38). Western Canadian Mining appears to have found a gold-copper porphyry deposit on the Kerr property (41) including one intersection of 86.7 metres which averages 0.95 per cent copper and 0.34 gram per tonne gold.

In the Stewart mining camp, companies directed their exploration efforts towards well known, precious metal veins. Westmin Resources Limited, Silbak Premier Mines Ltd. and Canacord Resources Inc. started a pre-development program on the Silbak Premier (46) and Big Missouri (45) properties, both past gold-silver producers (*see* Development). Royal Scot Resources Ltd. drilled underground in the Scottie Gold mine (43). Tenajon Silver Corp., Noranda Exploration

Company and Joutel Resources Ltd. also completed major exploration programs in the area.

Portland Canal Area

The same favourable Hazelton Group lithologies extend southward from Stewart into the Portland Canal area. In the Alice Arm silver camp, Dolly Varden Minerals Ltd. extended underground workings to an area between the Dolly Varden (49) and North Star mines to allow an underground diamond-drilling program. To the north, in the Kitsault valley, Cominco Ltd. drilled a shear zone with silver values. Cominco was also exploring the Anyox area (51) for volcanogenic massive sulphide deposits with contained precious metals.

Hecate Lowlands

Imperial Metals Corporation, Trader Resources Ltd. and Gold Ventures Ltd. completed exploration programs on the islands south of Prince Rupert, looking for high-grade gold deposits characterized by strong structural control. At the Yellow Giant (54), the most advanced project, new reserves of 90 700 tonnes at 17.4 grams per tonne gold were announced for the Tel zone but plans for underground development were put on hold. Trader also examined the Skarn property (55), an ultramafic complex with magnetite layers on the east side of Banks Island, for its vanadium, titanium and platinum potential.

Terrace - Kitimat Area

In the Kitimat area, BP Resources Canada Ltd. (58) carried out a modest drill program on a silicified zone with anomalous gold values. North of Terrace, Terracamp Developments Ltd. (56) and Cannon Explorations Ltd. (57) explored auriferous quartz veins on the shores of Kitsumkalum Lake. AJM Metals Ltd. drilled a similar target on the Lucky Boy property north of the Zymoetz River.

Toodoggone River Area

Gold-silver epithermal to mesothermal veins occur along several major northwest-trending regional faults in the Early Jurassic Toodoggone volcanics. The Al (59), Mets (60), Metsantan (61), Moosehorn (62), Lawyers (64), Silver Pond (65), Perry Mason (66), Chappelle (67) and Marmot (71) properties are all located on, or near, the best developed regional fault. Energex Minerals Ltd., Manson Creek Resources Ltd., Cheni Gold Mines Inc. and Multinational Mining Inc. all published new reserves for their deposits in 1987 (*see* Table A3). The most exciting results were ore-grade intersections on the Cliff Creek zone on the Lawyers property over a vertical depth of more than 300 metres.

Drilling programs for veins were also completed on the Discovery, Golden Stranger (63), Shasta (68), Brenda (69) and Wrich (72) properties. The Acapulco skarn (70) was drilled by Cheni Gold Mines and returned significant intersections of massive magnetite and chalcopyrite with associated gold values. Over $10 million was spent on exploration in the Toodoggone River area in 1987. The Omineca mine road extension was completed, providing ground access to the Sturdee airstrip, Baker mine and Lawyers deposit. Cheni Gold Mines started site preparation for mining of the Lawyers deposit in 1989 (*see* Development). South of the Toodoggone and west of Bear Lake, Prolific Petroleum Ltd. and Noranda Exploration Company drilled precious metal prospects.

Hazelton Area

At the old Red Rose mine Freeport Resources Inc. (80) tested the down-dip extension of the quartz vein which contains pyrite, chalcopyrite, wolframite, scheelite, ankerite, tourmaline, apatite and ferberite. The mine originally produced tungsten and copper with significant gold values reported, but not recovered.

Skeena Arch

At the Bell mine (75) on Babine Lake the search for additional ore reserves continued. Noranda drilled east of the Newman fault, inside and outside the open pit, in an attempt to locate a faulted extension of the copper-gold porphyry orebody. The drilling did not define new ore reserves. Five kilometres to the east of Bell mine, Equity Silver Mines Ltd. drilled a VLF-EM conductor on the Red property (77) and intersected semi-massive pyrrhotite and pyrite over a 30 to 50-metre-wide zone in graphitic mudstones.

On Dome Mountain (82) Teeshin Resources Ltd. drilled on the Boulder vein, Boulder extension, Argillite zone and Chisholm vein. Teeshin drifted along the Boulder vein, opening three sections totalling 130 metres of mineralization averaging 17.1 grams gold and 80.9 grams silver per tonne diluted to a 1.5-metre mining width. Current reserves on the Boulder zone are 289 650 tonnes grading 12.7 grams gold and 68.4 grams silver per tonne. Total Erickson Resources Ltd. drilled on the adjacent Free Gold property (81). Near Walcott, Lacana Mining Corporation tested the gold potential of skarn mineralization on the Canyon property (84) hosted by rhyolite flows and volcaniclastics. Immediately to the north Lornex Mining Corporation drilled a silver-gold-lead-zinc soil anomaly associated with the Barr molybdenum occurrence on the Emerson prospect (83). Across the valley on Grouse Mountain, Dafrey Resources Inc. drilled a similar mineral occurrence for gold on Mineral Hill (85).

Base metal veins with precious metal values attracted attention for their locally high gold values. Exploration programs were carried out at the Victoria, Cronin, Topley (86), Richfield (87) and Silver Queen (89) properties. Expenditures on the Silver Queen property exceeded $1 million with extensive underground development, 65 drill holes, metallurgical tests and environmental studies. Houston Metals Corp. completed a total of 165 metres of drifting in ore, including four new veins not previously accessed underground. A decline was started from the tailings pond area to provide access to a gold-silver-zinc ore shoot on the No. 3 vein below the 2600 level. Approximately 2440 metres of drilling on the newly discovered Camp vein added substantial tonnage to the reserves (*see* Table A3).

Equity Silver Mines Ltd. continued its aggressive drilling program at the minesite (91). High-grade intersections beneath the Southern Tail and North zones were followed up with more drilling which has established the potential for underground reserves. Underground exploration planned for 1988 will evaluate the potential of these zones. Equity Silver and joint venture partner Teck Corporation drilled on the Gaul property (92) to the south of the minesite, concentrating on the Superstition zone.

Adjacent to the Equity property, Faraway Gold Mines Ltd. and Normine Resources Ltd. explored in areas of extensive overburden for Equity-style transitional deposits. In 1986 Faraway Gold located a broad zone of disseminated sulphides, principally pyrite, on the Sam property (90) with some silver intersections over several metres grading more than 50 grams per tonne with 0.25 to 0.45 per cent copper. The 1987 drilling extended the altered zone and intersected more metre-wide replacement zones with pyrite, tetrahedrite, sphalerite and galena. Normine Resources intersected similar mineralization in a previously unexplored area. These results may spur more exploration for gold deposits in the Houston area.

Morice Lake - Tahtsa Lake Area

Newmont Exploration of Canada Limited, Westbank Resources Ltd., Lansdowne Oil and Minerals Ltd. and Alpine Explorations Ltd. drilled in the Morice Lake and Tahtsa Lake areas looking for precious metal bearing veins. Newmont's New Moon property (94) is the most advanced project with drilling completed on the Misty Day, North, Northeast and Scree zones. The mineralized zones are quartz-carbonate veins, stockworks and broad silicified zones with pyrite and base metal sulphides hosted by Hazelton Group volcanic and volcaniclastic rocks. One of the better intersections from the North zone graded 0.51 per cent lead, 0.98 per cent zinc, 346 grams silver and 3.63 grams gold per tonne over 4.4 metres.

COAL

On its Klappan property (98)) in the Bowser Basin south of Dease Lake, Gulf Canada Resources Inc. completed diamond drilling in the eastern part of the proposed open pit and the waste dump area. The drilling was intended to better delineate ore reserves and assist in mine planning. An additional 24 holes were drilled to explore northeast of the proposed pit. Gulf submitted its Stage III report which was under review by the Mine Development Steering Committee at the end of 1987. In the Hazelton area, Atna Resources Ltd. (99) drilled three holes to test bituminous coal seams in Skeena Group sediments.

PLACER

The most active placer area in the Northwestern District was Atlin with a total of 52 notices of work, including several programs on Otter, Pine and Spruce creeks. Near the Yukon border on Squaw Creek, placer miners recovered the largest gold nugget, 2.3 kilograms, found in Canada during this century. A total of 49 notices of work were filed in the Liard Mining Division, up 11 per cent from 1986. Dease Lake, Hyland River, McDame Creek and Rosella Creek were the busiest placer areas in the division.

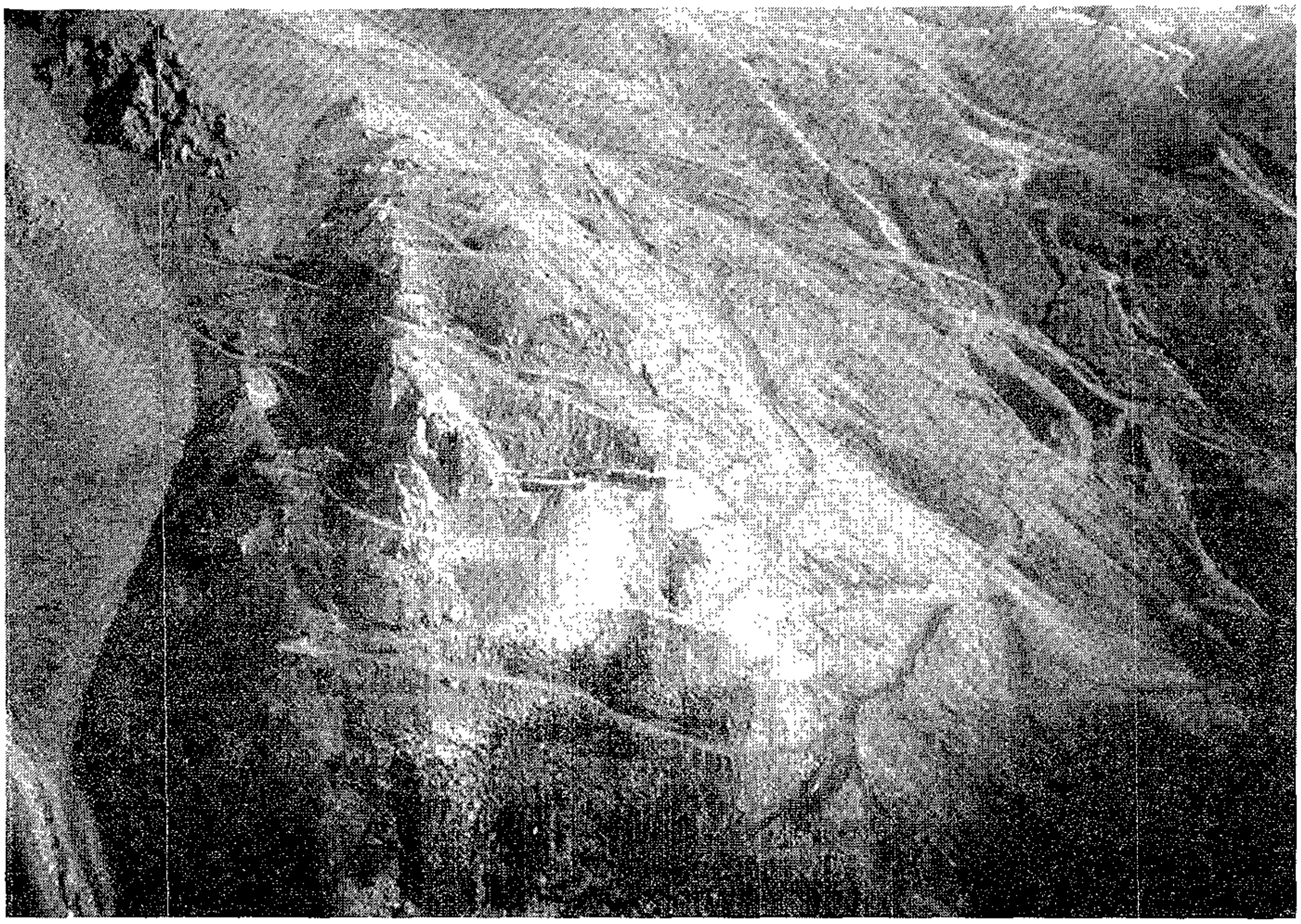

Plate A3. Bear zone portal on the Golden Bear property of North American Metals B.C. Inc. and Chevron Canada Resources Ltd.

DEVELOPMENT

Approximately 140 kilometres west of Dease Lake, North American Metals B.C. Inc. and Chevron Canada Resources Ltd. continued with underground development work on the Golden Bear deposit (17) discovered in 1981 (Plate A3). The companies submitted their Stage I report in 1987 and, in October, received approval-in-principle for the combination open-pit and underground mine from the Environment and Land Use Committee (ELUC) of the provincial cabinet. Current reserves for the Bear zone are 625 400 tonnes grading 18.63 grams per tonne gold. An access road is being built to enable the mine to go into production at 350 tonnes per day.

In Cassiar there was underground development on the McDame asbestos deposit (19) and a mine feasibility study was completed by the Cassiar Mining Corporation. The deposit would be mined from underground and replace the open pit as a source of ore. Current ore reserves at McDame are 32.4 million tonnes with the deposit open to the south (*see* Table A3). Cassiar Mining has announced plans to develop the deposit, subject to arranging financing.

Skyline Explorations Ltd. completed camp construction, upgraded the airstrip, started mill construction and drove a lower adit in preparation for underground mining of the Reg (Stonehouse) gold-silver deposit (29) in 1988 (Plate A4). The mine is to be supplied by aircraft from Wrangell, Bob Quinn and Terrace. Measured, indicated and inferred reserves at the end of January 1988 were 959 796 tonnes grading 22.08 grams gold per tonne, with significant copper values.

Near Stewart, Westmin Resources Limited., Silbak Premier Mines Ltd. and Canacord Resources Inc. agreed to a $4 million pre-development program of site preparation for a mill, road building and initial work on hydroelectric power development. Current reserves for the Big Missouri (45) and Silbak Premier (46) deposits are listed in Table A3. Both mines will be open-pit operations with the mill located at the Silbak Premier. Initial production is scheduled for 1989.

The Lawyers silver-gold deposit (64) of Cheni Gold Mines Inc. in the Toodoggone River area should be in production in 1989. Cheni Gold Mines completed the access road, prepared the millsite, started to drive the haulage adit on the AGB zone and drilled new reserves on the Cliff Creek zone in 1987. Underground production is planned from the AGB, Cliff Creek and Duke's Ridge zones.

OPERATING MINES

Three mines in the Cassiar area and two in the Houston area operated in the Northwestern District in 1987. These mines employed a total of 1010 people and played an important economic role in the region. Cassiar Mining Corporation maintained production levels at approximately 100 000 tonnes of asbestos per month from its open-pit operation. The mine was closed for five weeks in July and August. The stripping ratio was roughly 1.3:1. The open pit should be mined out in 1990. Immediately to the east the Taurus underground gold mine (21) operated at a rate of 136 tonnes per day with an average grade of 6.9 grams per tonne gold. All production is from the deeper levels of the mine. At the Erickson Gold mine (13), also in the Cassiar camp, the Eileen, Michelle and Vollaug veins were mined from the Vollaug and Cusac underground mines. Some open-pit ore was produced from the Cusac area. The mill operated at approximately 250 dry tonnes per day, with an average head grade of 13.75 grams gold and approximately 7 grams silver per tonne.

On Babine Lake the Bell open-pit mine (75) continued to produce 14 750 tonnes of ore per day for a total production of approximately 5.4 million tonnes at an average grade of 0.50 per cent copper and 0.106 gram per tonne gold.

The Equity Silver mine (91) south of Houston operated at a milling rate of 9000 tonnes per day with a feed grade of 0.35 per cent copper, 103 grams silver and 0.98 gram gold per tonne. The open-pit production came from the Main zone. Current reserves in the Main zone are approximately 10 million tonnes grading 111.6 grams per tonne silver, 1.01 grams per tonne gold and 0.34 per cent copper. Current reserves in the Main and Waterline zones will last until approximately 1992.

TABLE A3
COMMODITIES AND RESERVES FOR MAJOR MINERAL AND COAL PROJECTS
IN NORTHWESTERN BRITISH COLUMBIA

Map No.	Property	Commodity	Reserves
1	Windy Craggy	Cu,Co,Au,Zn	317.5 Mt @ 1.5% Cu, 0.08% Co, including 1.8 Mt @ 10.3 g/ta Au
17	Golden Bear	Au,Ag	Bear zone - 625.4 kt @ 18.63 g/t Au
19	McDame	asbestos	32.4 Mt @ 5.57% grade (P_1, P_2)
29	Reg (Stonehouse)	Au,Ag	959.8 kt @ 22.08 g/t Au (P_1, P_2, P_3)
30	Snip	Au,Ag,Zn	1.1 Mt @ 24.0 g/t Au
39	Sulphurets	Au,Ag	West zone - 1364.8 kt @ 17.35 g/t Au, 691.5 g/t Ag (P_1, P_2, P_3)
43	Scottie	Au	26.3 kt @ 18.5 g/t Au (P_1,) 68.0 kt @ 18.5 g/t Au (P_2)
45	Big Missouri	Au,Ag	68.0 kt @ 3.60 g/t Au, 1.58 Mt @ 29.49 g/t Ag
46	Silbak Premier	Au,Ag	5.61 Mt @ 2.19 g/t Au, 81.94 g/t Ag
54	Tel (Yellow Giant)	Au	90.7 kt @ 17.4 g/t Au
59	Al	Au	223.4 kt @ 9.88 g/t Au mineable
60	Mets	Au	A zone - 160 kt @ 11.3 g/t Au (P_2)
64	Lawyers	Au,Ag	1.76 Mt @ 6.7 g/t Au, 243 g/t Ag
67	Chappelle	Au,Ag	45.4 kt @ 20.13 g/t Au, 176.91 g/t Ag, 0.75% Cu (P_1, P_2, P_3)
82	Dome Mtn.	Au,Ag	289.7 kt @ 12.7 g/t Au, 68.4 g/t Ag (P_1, P_2)

Map No.	Property	Commodity	Reserves
89	Silver Queen	Ag,Pb,Zn,Au, Cd,Ga?,Ge?	No.2,3,5 Veins - 552.7 kt @ 3.6 g/t Au, 255 g/t Ag, 1.58% Pb, 6.64% Zn, 0.48% Cu (P_1) Camp Vein - 140.6 kt @ 1.37 g/t Au, 477 g/t Ag, 0.07% Cu 1.23% Pb 5.16% Zn (P_2)
98	Mt. Klappan	anthracite	1000 Mt
99	Telkwa	bituminous coal	50 Mt

CLASS OF RESERVES: P_1 - proven, P_2 - probable, P_3 - inferred.

Plate A4. A view looking northwest over Johnny Mountain flats towards the Iskut River. Airstrip for the Stonehouse gold deposit of Skyline Explorations was under construction in August 1987. Camp and ore zones are in the centre of the photograph.

EXPLORATION OPPORTUNITIES

Despite the high levels of exploration activity in the Northwestern District, there are still many unexplored areas with excellent mineral and coal potential. Some of the more significant exploration opportunities are:

* Polymetallic volcanogenic massive sulphide deposits in the Tatshenshini River, Cry Lake and Prince Rupert areas.

* Silver-lead-zinc manto deposits similar to the Mount Hundere and Midway deposits in the Cassiar thrust and fold belt.

* Gold veins on major structures in the Hecate Lowlands south of Prince Rupert.

* Precious metal deposits in Jurassic volcanic and sedimentary rocks (typically Hazelton Group) extending north from the Stewart area to the Stikine River and south from the Toodoggone River area to Whitesail Lake.

* Follow-up of Regional Geochemical Survey results from the 1987 Whitesail Lake release and planned 1988 release for the Iskut River, Telegraph Creek, Sumdum and Tulsequah map sheets.

CENTRAL DISTRICT

By E.L. Faulkner, District Geologist, Prince George

INTRODUCTION

There was a record level of exploration activity in the Central District in 1987, due to improved precious metal prices, the availability of flow-through financing and firmer base metal prices. For the first time in many years, some companies reported difficulties in securing field crews or drilling rigs.

Although precious metals in all deposit types once again dominated exploration targets, there was some interest in base metal deposits. Following is a summary of activity and trends by region, with some details of selected major exploration programs.

HIGHLIGHTS

* Exploration success continued at Blackdome gold mine, with work on two new adit levels.

* The Endako molybdenum mine completed a successful year after re -opening.

* Gibraltar mine benefited from improved copper prices and the success of the heap-leach and copper electrowinning operation.

* Mineable tonnages of ore are indicated at Noranda's Dominion Creek gold and base metal property and at Cathedral Gold Corporation's Takla Rainbow gold property.

SUMMARY OF EXPLORATION ACTIVITIES

A total of 164 mineral notices of work were received, up 24 per cent from 1986. Drilling programs, at 63, were up 54 per cent. Placer notices of work, at 437, were down 11 per cent from 1986 levels despite the improved price of gold in 1987. The decrease, however, was mostly in the number of testing and recreational programs. For details of properties and programs, see Table A1 and Figure A2.

METALLIC MINERALS

Quesnel Trough

The majority of programs in the district were once again concentrated on a number of established properties in the Quesnel trough, with targets being gold in volcanogenic massive sulphide deposits, alkali porphyry and porphyry-related deposits, phyllite-hosted deposits, and mesothermal replacement and vein deposits. Among the more significant programs, Placer Dome Inc. continued detailed drilling and preliminary feasibility studies at the QR porphyry-related gold deposit (100), bringing it a step closer to an expected production decision. New ore reserve figures of 998 000 tonnes grading 7.2 grams gold per tonne were released.

In the Hixon - Cottonwood House area, Gabriel Resources Inc. completed another major drilling and trenching program on the G South property (101), with mixed but encouraging results from the discovery area near Ahbau Creek. Gold occurs with polymetallic sulphides in shear zones cutting augite porphyry breccias and tuffs, and the mineralization may represent remobilized massive sulphides.

A significant development in the exploration for basal-phyllite-hosted gold deposits in the Quesnel trough has come from preliminary metallurgical tests that indicate that this type of mineralization can be treated successfully by gravity or mixed gravity and leach techniques. Eureka Resources Inc. extended the known strike length of the main Jay zone at its Frasergold property (102) to over 800 metres, and Southlands Mining Corporation in a joint venture on the property, completed 180 metres of adit and drifting on this zone. Results of bulk sampling released to date suggest better continuity and slightly higher grades of mineralization than had been indicated by drilling.

Pundata Gold Corporation completed a major program of drilling and trenching on the CPW property (103) on Spanish Mountain, another phyllite-hosted gold deposit. Economic mineralization was found to extend below previously tested depths, and significant gold values were found on the Don claim, 1200 metres north of the CPW zone.

Cariboo Mountains

Results of exploration for "sedex" base metal and silver mineralization in the Upper Hadrynian and Lower Paleozoic metasediments of the Cariboo Mountains have been disappointing. Interest was raised by barium and multi-element anomalies revealed in the 1986 Regional Geochemical Survey for NTS 93G and NTS 93H. Barite mineralization was found, but without significant other values. Increased exploration in this area, largely the result of improved access, has however led to the discovery of apparently conformable quartz replacement veins carrying base metal mineralization with significant precious metal values.

The Noranda Exploration Company, Limited/International Rhodes Resources Ltd. joint venture reported mixed but generally encouraging results at the AK property near Dominion Creek (104). Gold occurs with pyrite and base metal sulphides in quartz veins hosted by arenaceous metasediments; some mineable tonnages grading 5 to 8 grams per tonne gold have been established.

Gibraltar Mines Ltd. drilled the May Be prospect (105), a persistent base metal sulphide vein with some erratic high silver values, hosted by black calcareous sediments. Elsewhere in the Cariboo Mountains - Barkerville area, Cathedral Gold Corporation drilled near the old Cariboo Hudson gold mine (106), to add to the known extent of the Shasta and 605 veins.

Omineca

Rapidly improving access and discovery of gold mineralization at Noranda's Tas property have lead to increased exploration activity in the Omineca. Targets are volcanogenic massive sulphides, porphyry-related precious metals and mesothermal veins.

Cathedral Gold Corporation continued drilling at the Takla Rainbow property (107). Gold and silver occur with pyrite and chalcopyrite in a steeply dipping northwest-striking shear zone near a border phase of the Hogem batholith. Variable but persistent gold values up to 18.7 grams per tonne over 1 to 2-metre widths and a strike length of 500 metres have been found, and a preliminary reserve estimate of 200 000 tonnes grading 13 grams per tonne has been made. Encouraging intersections of low-grade gold mineralization were also recovered with a portable drill at Cathedral's Axelgold property to the north (108).

Noranda Exploration identified a number of scattered areas of massive to disseminated gold-bearing pyrite mineralization in fractured tuffaceous sediments and augite porphyry flows near a diorite stock on the Tas property (109).

X-Cal Resources Ltd. continued an extensive program of diamond and percussion drilling, geochemistry and geophysics on the Snowbird property (110), where gold occurs in east-striking quartz-stibnite veins. The main vein zone has now been traced for over 1200 metres and other subparallel targets have been identified by sampling basal till.

Eastfield Resources drilled a 600-metre-long induced polarization anomaly on the Indata property (111) and reported significant precious metal values in four of five holes drilled.

Fraser Plateau

A number of companies, including Newmont Exploration of Canada Limited, Lac Minerals Ltd., Lornex Mining Corporation and Kerr Addison Mines Limited, were active on the Fraser Plateau, and interest in this area is increasing. The target is gold mineralization in either inliers in the Tertiary basalt cover or areas of silicified and brecciated Tertiary basalts. Exploration techniques have included lake sediment, soil and lithogeochemical sampling, and careful ground search, particularly in areas with signs of copper mineralization. Both target types have returned generally low but sometimes widespread gold and silver values associated with minor pyrite, chalcopyrite or both, but with potential for heap-leach processing.

Lac Minerals continued drilling the Bob property (112), a large area of low-grade gold mineralization in late Cretaceous to early Tertiary quartzites and conglomerates near Nazko. The Kerr Addison/Welcome North Mines Limited joint venture found low gold values in a 60 by 300-metre zone of brecciated and silicified basalts on the Trout property (113), and Chromick Mineral Ltd. reported low gold values from percussion drilling at the WTM claims near Dog Creek (114). Here gold occurs in a leucocratic granite and hornfelsed sediments.

Coast Range Marginal Belt

Several companies were active in the interior marginal belt of the Coast Range intrusive complex, looking for epithermal precious metal deposits, especially in volcanic and volcaniclastic rocks of the Kingsvale Group. Exploration techniques included examination of gossans and areas of hydrothermal alteration, and re-examination of gold-quartz vein deposits and porphyry-related precious metal mineralization.

Kleena Kleene Gold Mines Ltd. completed 160 metres of an exploratory adit at the Apex (Perkins Peak) property (115). The Lord River Gold Mines Ltd./Cathedral Gold Corporation joint venture completed over 1300 metres of drilling and 50 metres of drifting at the Pellaire (Lord River) gold mine (116) in the first phase of a program to increase the known reserves of 30 000 tonnes grading 23 grams gold and 65 grams silver per tonne. Welcome North Mines Limited drilled a number of siliceous alteration targets near the old Taylor Windfall gold mine (117), while to the east, a Westmin Resources Limited joint venture continued to test several large areas of gossan, hydrothermal alteration and multi-element geochemical anomalies with a major drilling program at the Taseko-Palisades property (118).

PLACER

Expenditures by placer miners in the district are estimated at over $8 million for the year. A number of companies and individuals are turning their attention to Tertiary channels, as opportunities for exploiting the surface deposits diminish. Gold Ridge Resources continued work on its *in situ* cyanide leach project for mining the rich buried channel at its Wingdam property (119), and was ready for its first cyanide test at year's end.

INDUSTRIAL MINERALS

A new vermiculite discovery, in a probable late Jurassic pluton, was staked near Fort St. James (Mag and Frank claims). Aurun Mines Ltd. produced over 2000 tonnes of perlite from its Frenier quarry (131), and there were contract shipments of limestone from two quarries in the district.

OPERATING MINES

Most operating mines in the district have benefited from higher metal prices. The re-opening of the Endako molybdenum mine (127) at a reduced mill rate of 10 000 tonnes per day has been highly successful despite continued weak molybdenum prices. The Gibraltar mine (128) also had a much improved year, with substantially increased copper prices in the second half, the mining of softer and higher grade ore from the upper levels of the Granite Lake pit and production of copper from the heap-leach electrowinning plant, which rose from 11 tonnes per day to over 15 tonnes per day.

The Blackdome mine (124) operated at over 180 tonnes per day and produced 1452 kilograms of gold and 3935 kilograms of silver. Ore reserves were maintained with an aggressive program of over 8000 metres of exploratory drilling and the development of two new adit levels. Most of the exploration and development efforts were concentrated on the southwest extension of the No. 1 and No. 2 vein systems.

Mosquito Creek Gold Mining Company Limited (130) continued to mill small batches of ore during the year. Work was started on a 980-metre adit which will connect with the old Island Mountain mine workings.

TRENDS AND OPPORTUNITIES

Exploration trends in the district are in part related to improved access as logging operations move into new areas. This is especially important in the northern part of the Quesnel trough where a combination of poor access and poor exposure has previously slowed exploration.

Improved access and a better outlook for base metal prices should lead to increased exploration in the Cariboo Mountains, where recent discoveries have shown that the Upper Hadrynian and Lower Paleozoic sedimentary sequences may host "sedex" or conformable replacement mineralization with significant precious metal values. This area may prove to be an important and hitherto overlooked metallogenic province.

The Fraser Plateau clearly has potential for large-tonnage, low-grade gold mineralization. Companies and prospectors are demonstrating that the Tertiary volcanic cover is neither as pervasively thick nor as unaffected by hydrothermal activity as has been previously assumed.

The discovery of carbonatite by Cominco Ltd. at the Aley deposit, and by Teck Corporation near Tacheeda Lake northeast of Prince George, clearly indicates the possibility that other carbonatites may intrude the Lower Paleozoic sedimentary sequences east of the Rocky Mountain Trench.

NORTHEASTERN DISTRICT

By A. Legun, District Geologist, Charlie Lake

SUMMARY OF EXPLORATION ACTIVITIES

COAL EXPLORATION

Coal exploration activity in 1987 was at the same level as in 1986 with four notices of work submitted. As in 1986 most of this activity was close to the two mine sites, Teck Bullmoose and Quintette Coal. Exploration drilling totalled 10 748 metres in 92 holes. This is comparable to 1986 when 9372 metres were drilled in 86 holes. Almost all activity was in the vicinity of the Quintette mine which accounted for 10 348 metres of drilling in 84 holes.

A summary of exploration statistics is presented in Table A1.

Quinette Coal Ltd.

The Transfer (130) and Grizzly (131) deposits were the focus of Quintette's 1987 efforts outside the main pit areas.

The Transfer deposit is a relatively symmetrical anticline found 2 to 3 kilometres west of the transfer point of the overland conveyor. Exploration work involved eight diamond-drill holes, 46 rotary-drill holes and three adits from which five bulk samples were taken (F, G, J, K_1 and K_2 seams). Reserves in the Gates Formation are in the range of 10 to 12 million product tonnes. A few holes on the west limb of the Transfer anticline were drilled into the Gething Formation and intersected an interesting thickness of coal.

The Grizzly structure, a continuation of the Shikano anticline, lies on the north bank of the Murray River, immediately above the M-19 gravel pit and parallel to the western side of the overland conveyor. Exploration work involved four diamond-drill holes, 21 rotary-drill holes, and three adits from which four bulk samples were taken (F, G, J and K seams). A reserve in the range of 3 to 6 million product tonnes is indicated.

Both of the above programs were supported by a FAME grant. Results of the exploration programs supported interpretations based on 1986 work. Coal seam continuity was good and no significant faulting was found. F seam was found to be a little ashy on the east limb of the Transfer anticline. Total mineable thickness of coal is approximately 13 metres, somewhat less than that found in the main Mesa pit.

Perry Creek (133) is a new exploration area east of Fortress Mountain approximately 9.5 kilometres northwest of the Quintette mine. Gates Formation coal measures are preserved in a synclinal structure with one shallow-dipping limb. The last work done in the area was in 1974. In 1987, five rotary-drill holes intersected 7.5 metres of coal (5.5 metres J_1 and 2 metres J_2). J_1 and J_2 seams correspond to A and B seams of Teck Bullmoose mine. The area is close to the road and rail line and may contain anything from 1 to 10 million tonnes of reserves.

Teck Corporation

The only exploration activity at Teck's Bullmoose mine (134) relates to Gething Formation coal measures near a proposed dump area. Eight rotary-drill holes have been placed on the 1560 road at the southwest end of the pit. The only seam of significance intersected is the Bird, with a composite thickness of about 3 metres. Work by the writer indicates potential for near-surface preservation of this seam along the axis of the syncline (underlying the pit) across I Creek.

COAL POTENTIAL

Four oil and gas wells located adjacent or within the Foothills coal belt record apparent thick intervals of coal within the lower part of the Gething Formation. Though the coals at the well sites are too deep for surface exploitation, nearby fold structures bring the stratigraphic interval to surface (for example, Waterfall Creek anticline). Coal boreholes in the vicinity did not penetrate the stratigraphic interval of the coal in the wells. For further information see Legun in Geological Fieldwork, 1987 (British Columbia Ministry of Energy, Mines and Petroleum Resources, Paper 1988-1, pages 459-462).

The logs of other oil and gas wells, within or adjacent to the Foothills coal belt, contain significant information regarding coal seams in the Fort St. John Group and Minnes Group and their use for targeting exploration areas is encouraged.

METALLIC MINERALS

Five notices of work were submitted in 1987 which indicates some interest in the mineral potential of the Peace River district where virtually none existed before.

Probably the most significant mineral property under exploration is the Cay (135). Beaty Geological Ltd. conducted geologic mapping, geochemical and geophysical surveys, and drilling on limestone breccias near the contact between the Stone and Dunedin formations. Galium and germanium associated with barite-lead-zinc mineralization are the commodities sought. The Cay property was targeted after a 2.5-year reconnaissance of lead-zinc showings in northeastern British Columbia and elsewhere. Mineralization is known to occur as a thin, brecciated, stratabound interval and in a crosscutting breccia. The geological controls of mineralization are now better known, in particular the relationship of high galium and germanium values to zones of silicification in the hinge areas of kink folds.

Near Mount Burden, immediately north of Williston Lake, Northgate Exploration Limited conducted a modest drilling program on the Coral property (136), a lead-zinc prospect occurring near the Stone-Dunedin contact. Core from only one of the 10 diamond-drill holes was mineralized.

Other programs included trenching and blasting at Bonanza Creek near the old Churchill Copper mine by Shangri-La Minerals Ltd. in search of cobalt mineralization, and drilling for gold in Proterozoic quartzites by Alina International Industries Ltd. (137).

INDUSTRIAL MINERALS

The Baker Creek limestone quarry was inactive in 1987 except for shipments from the stockpile. Similarly there was no production from the barite quarry at Fireside.

Mandusa Resources Ltd. sampled for china clay in a Tertiary outlier at Coal River, where thin coal measures are preserved.

OPERATING MINES

At the Quintette mine (133), production at the newly opened Shikano pit began in earnest in September 1987, complementing that at the Mesa and Wolverine pits. Quintette produced approximately 5 million tonnes of metallurgical coal in the calendar year, with about 70 per cent of the production from the Mesa subpits, about 20 per cent from Wolverine and 10 per cent from Shikano.

Development and production drilling totalled 21 193 metres in 178 rotary-drill holes. This is considerably reduced from 1986 levels when 35 084 metres were drilled. This is a natural consequence of the structure and seam geometry now being well defined. The Mesa Extension area, in particular, saw a reduction in development drilling (19 996 metres to 9003 metres).

The Bullmoose mine (134) will produce 1.7 million tonnes of metallurgical coal in its contract year. Five seams (A to E) are mined with about 60 per cent of production coming from the thick and extensive A and B seams.

SOUTHEASTERN DISTRICT

By D.A. Grieve, District Geologist, Fernie

INTRODUCTION

The gold exploration boom experienced throughout the province in 1987 was felt to some extent in the Southeastern District, an area better known for coal and industrial minerals. Most significantly, Placer Dome Inc. followed up previous exploration on syenite intrusions in the Howell Creek area southeast of Fernie, with a diamond-drilling program.

The total amount of coal exploration drilling in the district in 1987 was just under 27 000 metres, up from 24 700 metres in 1986. A more negative indicator was that all coal exploration programs were conducted within the immediate vicinity of existing operations. The FAME program again had a positive impact on coal exploration in the district; FAME supported 80 per cent of the total coal exploration drilling, down from 90 per cent in 1986.

SUMMARY OF EXPLORATION ACTIVITIES

METALLIC MINERALS

The total number of notices of work in 1987 was 14, up one from 1986. These include: precious metals, four; base metals, two; gypsum, four; magnesite, one; barite, one; and two for small programs of unclear objective. Some of the larger programs are listed in Table A1. These included 2700 metres of diamond drilling at Baymag Mines operation east of Radium Hot Springs (145), a program designed to increase mineable reserves at this world-class magnesite deposit. Possible future expansions of production are partly behind this exploration effort. In the vicinity of the Domtar Inc. gypsum mine southeast of Canal Flats (143), a total of 1125 metres of diamond drilling and 150 metres of rotary drilling was carried out. This also represents an effort to define new mineable reserves. Another major program included in Table A1 refers to work by Fox Geological Consultants, on behalf of Placer Dome Inc., on two adjacent claim blocks in the Howell Creek area (Flathead River drainage basin) known as Flathead and Howe (148). Previous work outlined several gold geochemical anomalies and some encouraging assays associated with the small, altered syenite bodies known collectively as the Howell Creek intrusions. Work in 1987 included 1262 metres of diamond drilling in the "A" intrusion, as well as extensive geochemical sampling, geological mapping, prospecting and trenching on various parts of the property. Work will continue in 1988 on this interesting new gold find.

COAL

All coal exploration programs are listed in Table A1. Of note, Westar Mining Ltd. continued exploration at its Greenhills operations (139), especially in the northern part of the property. The main target was high-volatile coal (Seam 16 and higher), although considerable effort was also spent on exploring for 7 and 10-seams, lower in the stratigraphic section. Total drilling at Greenhills was 5700 metres, all of it rotary. Crows Nest Resources Limited (140) was active at two proposed pit sites in the Line Creek Extension, north of the main Line Creek pit, known as Top-of-the-Ridge pit and 2-Seam pit. The former will come into production in early 1988. Total drilling on Line Creek Extension was 6365 metres, of which 1120 metres was diamond drilling. Crows Nest Resources was also active in the new Lower South pit area (*see* Coal Developments), adjacent to the current Line Creek main pit, where it drilled a total of 6840 metres, of which 745 metres was core driling. On Horseshoe Ridge, an area east of the main Line Creek pit but within the boundaries of the mining lease, Crows Nest Resources drilled a total of 2641 metres, all of it rotary. Late in the year Crows Nest rotary drilled 1184 metres in the "mine service area", also within the lease. This newly discovered coal prospect is very advantageously located and will be further evaluated in 1988. Fording Coal Ltd. (138) continued to focus on Eagle Mountain, its major long-term production site. Total drilling of 4259 metres included 877 metres of diamond drilling.

COAL DEVELOPMENTS

Westar Mining received Stage I approval for its Greenhills (139) Falcon pit ("west side") proposal. A total of 1.7 million tonnes of 1-seam coal is scheduled to be mined over a 3-year period.

Production began this year from the Lower South pit, adjacent to the main pit at Line Creek mine (140). Current production is entirely from 8-seam.

OPERATING MINES

Poor markets for coal continued to affect the five southeast coal producers in 1987, although there is some optimism in the industry that conditions are improving. Total production (Table A2) was up from 1986, due to increases at Westar's Balmer (141) and Greenhills (139) operations. A lengthy strike at Balmer in 1986, however, had resulted in artificially low production figures for that mine. Production figures at both Line Creek (140) and Byron Creek (142) were lower in 1987 than 1986, but these reductions were related to the down-sizing of the operations which began in 1986 and took full effect this year. Fording Coal (137) maintained its 1986 production level, and for the second year in a row was the province's largest coal producer.

The district's five industrial minerals producers (two gypsum, two silica and one magnesite) are summarized in Table A2.

WEST KOOTENAY DISTRICT

By G.G. Addie, District Geologist, Nelson*

INTRODUCTION

Exploration activity in the West Kootenay District increased by at least two-thirds over 1986, based on the number of notices of work. Some 75 mining and exploration companies are active in the district, with work directed almost entirely toward precious metal targets. Significant results have been obtained in a diversity of geological environments with the main emphasis on gold-bearing quartz veins and silicified zones in Rossland volcanic rocks. Almost every known gold occurrence in the Nelson district is now being explored.

SUMMARY OF EXPLORATION ACTIVITIES

Gold-Bearing Veins

Granges Exploration Ltd. has had considerable success on the Goldfinch property (150) north of Camborne, optioned from Windflower Mining Ltd. Four gold-bearing veins are now being tested from surface by three diamond drills. Approximately 6100 metres of drilling have been completed and reserves are quoted at 158 725 tonnes with an average grade of 8.57 grams per tonne gold. Plans to build a 50 tonne per day pilot mill for bulk testing are in hand. The strong vein systems are related to a major fault zone, the Camborne fault, which extends many kilometres to the southeast and has many mineral showings clustered along it. The Dorothy vein carries high-grade visible gold where conspicuous tension veins are developed in the wallrocks. A second mineralized shoot has been discovered on the Dorothy vein, 150 metres north of the area tested in 1986, and significant veins have been found in both the footwall and hangingwall.

On the Camborne fault system, south of the Incomappleux River, K-2 Resources Inc. (formerly Sunshine Columbia Resources Limited) and Ram Exploration Ltd. have drilled 28 holes, totalling 3000 metres, to increase reserves on the Spyder vein (151). The drill-indicated tonnage is now 33 700 tonnes grading 3.2 grams per tonne gold, 171 grams per tonne silver, 4.22 per cent lead and 5.77 per cent zinc. The lower drill holes are intersecting more pyritic mineralization, thought to be similar to that on the Goldfinch property.

Triple M Mining Corporation and Ram Exploration have also been drilling to increase reserves on the adjoining Eclipse property (152), where mineralization is localized along north-trending carbonate-altered shear zones in metavolcanic and metasedimentary rocks of the Jowett and Broadview formations. Mineralization is described as coarse-grained argentiferous galena, sphalerite and pyrite, with lesser tetrahedrite and free gold, in a gangue of quartz and siderite.

*The author retired early in 1988. For completeness, this article which was published in Exploration Review 1987 (Information Circular 1988-1, February 1988), is included without benefit of significant revision.

In the Slocan mining camp, King Jack Resources Ltd. has rehabilitated the King Jack, Joan and Duplex mine portals (155) and is drilling from surface and underground to test veins carrying argentite and visible gold. Also in the Slocan camp, Noranda Exploration Company, Limited has an option on the L.H. mine (178) and drilled two holes totalling 795 metres during July and August. One hole cut an intercept of 1.4 metres grading 15 grams per tonne gold; the other cut a shear zone containing 40 per cent combined arsenopyrite, pyrite and pyrrhotite, and assaying 2.57 grams per tonne gold over 1 metre. East of Slocan, Yukon Minerals Corporation has re-opened the Payday (Meteor) gold-silver mine (156).

North of Nelson, Granges Exploration Ltd. has optioned the Alpine mine (157) from Cove Energy Corporation. A new access road has been completed and a diamond-drilling program has been started. Eight to ten holes are planned, with a possible $850 000 program funded by Cove Energy Corporation on a flow-through basis.

South of Nelson, the Kenville mine (158) has been rehabilitated by Algoma Industries and Resources Ltd. and a small mill is under construction. This mine produced considerable free gold in the past, and high-grade scheelite mineralization has recently been discovered. In the same area, Ram Exploration Ltd. has rehabilitated the California mine and Beatty Geological Ltd. is re-examining the Athabaska mine. All three of these old mines lie along northwest-trending magnetic linears that may reflect shear zones cutting both Nelson plutonic rocks and Rossland volcanics.

In the Ymir mining camp, O'Hara Resources Ltd. is exploring the Blackcock mine (161) where high-grade gold and silver mineralization is associated with massive base metal sulphides in fissure-controlled veins. The granodiorite wallrocks are often strongly silicified and mineralized with auriferous pyrite.

In the Sheep Creek camp, Gunsteel Resources Incorporated (162) has been successful in developing new ore. Reserves now stand at 66 400 tonnes with an average grade of 15.4 grams per tonne gold. On the neighbouring Goldbelt mine (163), Lightning Minerals Inc. has completed 2440 metres of surface diamond drilling and quotes reserves of 21 000 tonnes grading 13.7 grams per tonne gold, 14.3 grams per tonne silver, 0.5 per cent lead and 0.3 per cent zinc.

In the Grand Forks area, Kettle River Resources Ltd. and Noranda Exploration have optioned the Crown property (164) from Consolidated Boundary Exploration Limited and have trenched on a broad gold geochemical anomaly. An assay of 34.28 grams per tonne gold over 1.8 metres was obtained in one trench. On the adjoining Golden Crown property (165), Consolidated Boundary has completed a 622-metre adit to explore a zone of seven parallel gold-bearing veins in diorite. Kettle River Resources has also continued underground exploration in the Dentonia mine (166) north of Greenwood. Sumac Ventures Inc. has started a successful heap-leach operation at the old Union mine (167) north of Grand Forks; a total of 5000 grams of gold and 150 000 grams of silver has been recovered from 13 600 tonnes of tailings and dump material. The company plans to leach an additional 85 000 tonnes in 1988. Total probable reserves of tailings, dump rock and underground ore are quoted as 99 300 tonnes with a grade of 3.4 grams gold and 143.9 grams silver per tonne. Small amounts of platinum and palladium have been recovered in tests. Placer Dome Inc. and Longreach Resources Ltd. are exploring the adjacent Platinum Blonde claims (168) for platinum group metals and have begun a 9100-metre diamond-drilling program.

Gold-Bearing Silicified Zones In Rossland Volcanic Rocks

The Rossland volcanic rocks are geochemically anomalous in gold. Gold concentrations are found in silicified zones associated with intrusions into the volcanic terrane. Although mineralization controls are undoubtedly complex, and as yet poorly understood, the possibility of finding large, low-grade gold deposits appears good.

Lectus Developments Ltd. (159) is drilling a silicified zone at the contact between Rossland andesites and the Silver King porphyry intrusion near Nelson. The first hole yielded visible gold and drilling continued through December. Other companies and prospectors are active in areas to the south and southeast. Southwest of Salmo, Falconbridge Limited is drilling a silicified zone in Rossland volcanics believed related to Tertiary Coryell intrusions.

Diatreme Deposits

Northair Mines Limited proposes to bring the Willa property (160) near Silverton to production in 1988. Plans call for a 500 tonne per day mill to produce 995 200 grams of gold, an equal amount of silver and 1.4 million kilograms of copper annually. A new portal was established at the 1100-metre elevation during 1987 and two new potential ore zones have been found, but are not included in reserves.

Gold-Bearing Skarn Deposits

Esperanza Explorations Ltd. continues to enjoy success on its Tillicum Mountain property (175) where drill-indicated reserves are now quoted at 182 000 tonnes with an average grade of 20.5 grams per tonne gold. This figure includes 45 500 tonnes grading 34.28 grams per tonne. Twenty-eight holes, totalling 3126 metres of drilling, were completed in 1987. The West Ridge zone, located close to the present workings and estimated to contain 2.7 million tonnes grading 2 grams per tonne gold, will be explored for higher grade shoots during 1988. Installation of a 100 tonne per day mill, with a crushing capacity of 150 tonnes per day, is also planned in 1988.

Esperanza has also acquired the Strebe property (176) several kilometres to the east on Hailstorm Mountain, where visible gold is present in an extensive skarn zone that appears identical to that on Tillicum Mountain. Eight diamond-drill holes have been completed. All holes intersected the gold-bearing skarn zone and five yielded intercepts with visible gold.

Porphyry(?) Gold Deposits

Ryan Exploration Company Ltd., the Canadian exploration arm of U.S. Borax, describes its Star and Ron claim groups (177) near Nelson as having many of the characteristics of a porphyry deposit. The claims cover an extensive gold geochemical anomaly in soils (100 ppb range) over the contact between "pseudodiorite" and Rossland volcanic rocks. A total of 2286 metres of reverse-circulation drilling has been completed over the last three years.

Silver-Lead-Zinc Deposits

At the Standard mine (169) in the Slocan camp, Silver Ridge Resources Inc. has driven into a silver-lead-zinc zone projected downwards from the No. 7 level. A number of veins are present and will be explored by diamond drilling. Silver Ridge Resources is also renovating the Ottawa mill at Slocan.

Dragoon Resources Ltd. has rehabilitated the adits at the Silver Cup - Comstock mine (170) on Fennell Creek east of Silverton. A narrow vein of massive galena has been found and is reported to assay 6857 grams per tonne silver. The dumps are considered to be suitable for feed for the company's mill at Ainsworth, jointly owned with Mikado Resources Ltd.

In the Greenwood area, the Skylark Resources Ltd. - Kettle River Resources Ltd. joint venture has been successful in blocking out ore in the Skylark mine (171). Reserves are quoted as 78 700 tonnes with an average grade of 685.6 grams silver and 2.7 grams gold per tonne, with an additional 27 300 tonnes of possible reserves. A 460-metre decline has been driven into the newly discovered Serp zone which carries higher gold values; one drill hole intersected 4.1 metres of mineralization assaying 14.8 grams per tonne gold.

Carbonate-Hosted Replacement Deposits

Mikado Resources Ltd. and Turner Energy & Resources Ltd. have driven a new adit 152 metres on the Abbott zone (173) in the Trout Lake area. Reserves in this replacement deposit in the Badshot limestone are quoted as 66 400 tonnes with an average grade of 294.7 grams silver and 1.45 grams gold per tonne, 14.22 per cent zinc and 11.08 per cent lead.

OPERATING MINES

Ore reserves at the Cominco Ltd. Sullivan mine (174) are 26.3 million tonnes grading 6.9 per cent zinc, 4.6 per cent lead and 34.28 grams per tonne silver. Exploratory drilling in 1987 totalled 1774 metres and a 2000-metre exploration hole has been started on Mark Creek, north of the Kimberley fault.

Dickenson Mines Limited has been successful in increasing ore reserves in its Silvana mine (149) at Sandon and in its exploration of the adjacent Carnation mine. Ore reserves in the Silvana mine are 56 000 tonnes with an average grade of 442.3 grams per tonne silver, 6.55 per cent zinc and 4.9 per cent lead.

Queenstake Resources Ltd. has enjoyed a successful year with its placer mining operation on the Moyie River, recovering 22 175 grams of gold. This compares with 5660 grams recovered in 1986.

SOUTH-CENTRAL DISTRICT

By R.E. Meyers, District Geologist, Kamloops

INTRODUCTION

Mineral exploration in south-central British Columbia reached an all-time high in 1987. The number of exploration projects increased by 52 per cent and the number of drilling (and/or underground) projects is up by 109 per cent.

TRENDS AND HIGHLIGHTS

Although precious metals remain the most sought-after commodities, the historical mesothermal and epithermal vein targets took a somewhat lower profile to silver and gold-bearing volcanogenic massive sulphides and auriferous skarn deposits.

Since the discoveries of the Rea Gold deposit (184) in 1983 and the Samatosum silver zone (183) in 1985, exploration for polymetallic massive sulphide deposits within the Devono-Mississippian Eagle Bay assemblage and Permian Fennell Formation has been steadily increasing. In excess of 45 000 metres of drilling were completed in the area during 1987, with gross exploration expenditures estimated at well over $5 million. As a consequence, the area will, in all likelihood, see new mine production at Samatosum Mountain before 1990.

In the Hedley camp, Mascot Gold Mines Ltd.'s (247) success, together with new metallogenic models and prospects resulting from current field research, has stimulated a great deal of exploration directed toward Nicola-hosted gold-bearing skarn targets.

A new epithermal gold "province" is beginning to take shape in the Okanagan region. With the recent discoveries of the Vault (257) near Okanagan Falls and the Brett deposit (263) west of Vernon, the Tertiary volcanic sequences which at one time were looked upon as "cover rock" are now being recognized as excellent potential host rocks for high-level hotspring-type gold mineralization.

Elsewhere in the district, the Upper Triassic Nicola Group is again the focus of exploration for gold. Several medium-sized programs were begun in 1986 and are continuing through the 1987-88 field seasons.

The current copper revival has prompted several companies to take another look at the economics of bulk-tonnage deposits, particularly where significant amounts of gold are present. This will be a major factor in determining the future of the Afton mine and other deposits associated with alkaline intrusive rocks.

SUMMARY OF EXPLORATION ACTIVITIES

Adams Lake Area

Most activity was focused west of Adams Lake, with major operators being Minnova Inc., Esso Minerals Canada, BP Canada Inc. and Noranda Exploration Company, Limited. At year-end Minnova submitted a prospectus to the Mine Development Steering Committee for the development of the Samatosum deposit (183). Preliminary reserves are estimated to be 600 000 tonnes grading 1100 grams per tonne silver, 3.5 per cent zinc, 1.2 per cent copper, 1.7 per cent lead and 1.8 grams per tonne gold, using a cut-off of 250 grams per tonne silver. Esso Minerals operated major drilling programs on the Homestake (207) and Twin (206) properties, as well as the smaller Cana (190) and Wiki (191) projects. BP Canada drilled the CM (197), Water (198) and Fortuna (196) claims, and Noranda completed its drilling activities on the Birk Creek (194) property.

Among the junior exploration companies Rea Gold Corporation began underground work on its L98 gold-bearing massive sulphide lens (184), Celebrity Energy Corp. and Algo Resources drilled the JC (199) and OK (193) claims respectively and Nu Crown Resources drilled the Tia prospect (192). Southeast of Adams Lake, Clifton Resources Ltd. and Adams Exploration Inc. operated one of the largest drilling projects in the region on the Adam property (189), while at the Mosquito King property (203), Killick Gold Company Ltd. continued its program of trenching, bulk sampling and mill testing of lead-zinc sulphides.

The potential remains high for new discoveries in the region. National Resource Exploration intersected a new gold-bearing skarn zone on the Steep claims (187) and began work on the Biere property (188). A significant number of sulphide occurrences are distributed throughout the Eagle Bay stratigraphy on the Adams Plateau, many of which have not been systematically mapped or tested by drilling.

Shuswap Complex

Northeast of Clearwater, within the Shuswap metamorphic complex, Rea Gold and Verdstone Gold Corporation completed an exhaustive 95-hole drilling program in six zones on the CK (186) lead-zinc property. Further north, Azure River Gold Ltd. completed drilling to evaluate the Summit (209) prospect and northeast of Valemount, Redbird Gold Corp. initiated first phase work on the Dove claims (210).

Bridge River Gold Camp

The Gold Bridge - Bralorne district again saw extensive exploration effort on many of the prime historical properties. At many localities new approaches and models are being developed, stimulated by the high level of field and academic research currently ongoing in the region.

The most active projects in the camp include the Levon Resources Ltd. Congress project (215), the Menika Mining Ltd. Reliance property (211), the Armeno Resources Inc. Standard Creek project (217) and the Chevron Canada Resources Ltd. Wayside property (213). The Standard Creek and Congress properties had extensive underground development work. In addition to the Lower Howard zone, Levon has collared adits on the Upper Howard and Lou zones. Both zones occur within Upper Triassic Pioneer Formation pillow lavas and are spatially associated with Tertiary feldspar porphyry pulaskite dykes. Levon recently submitted a prospectus for production to the Mine Development Steering Committee. Chevron's work on the Wayside Property concentrated on a faulted block of Bralorne diorite, which is the main intrusive host rock to the Bralorne and Pioneer orebodies. Southwest of Gun Lake, Coral Energy Corp. drilled the Veritas claims (218) and Levon completed a trenching program on the BRX property.

Tyaughton - Yalaklom Area

North of Bridge River, in the Relay Creek area, several companies continued exploration for epithermal gold mineralization in Cretaceous volcanic rocks. Westmin Resources Limited, Esso Minerals Canada and Byron Resources Ltd. completed a major drilling program on their Taseko joint venture, and Welcome North Mines Limited carried out percussion drilling on the Taylor-Windfall property (224). To the east, at Poison Mountain (Rex claims, 222), Lac Minerals Ltd. drilled for bulk-tonnage porphyry copper-gold mineralization.

Current field research in the region suggests that some of the better precious metal targets are likely to be close to the Late Cretaceous to Early Tertiary feldspar porphyries intruding the Cretaceous (Kingsvale) volcanic package, specifically where mercury, arsenic and antimony anomalies occur with open-space carbonate-silica veining and alteration.

Kamloops Region

Activity in the central part of the district focused primarily on extending the potential of copper-gold porphyry mineralization in the Jurassic Iron Mask batholith and on Tertiary epithermal targets in the *Kamloops Group volcanic rocks.*

Several kilometres southeast of the main open pit, Afton Operating Corp. (Teck) has completed an extensive diamond-drilling program on the Ajax claims (233) and a smaller project on the Comet-Davenport property (202). A Letter of Intent to develop the Ajax property has been submitted by Afton to the Mine Development Steering Committee. In the same area a number of other copper-gold targets are being examined by such operators as BP Canada Inc. and Abermin Corporation on the Makaoo (234) and Galaxy (225) properties respectively, and there remain several significant targets within the Iron Mask batholith that are worthy of examination.

North of Kamloops, MineQuest Exploration Associates continued work on the Mara (231) and Thom-Fehr (230) properties, funded by the Hughes-Lang Group. On the Bonaparte claims (232), Inter-Pacific Resource Corp. (MineQuest) is working to further delineate gold mineralization discovered in 1986 in a Jurassic diorite pluton.

Nicola Volcanic Belt

South of Kamloops, several companies are concentrating their exploration efforts on gold-bearing quartz-sulphide veins occurring in Upper Triassic Nicola volcano-sedimentary sequences. Many such targets appear to be associated with faults, with localized but strongly developed propylitic alteration.

Laramide Resources Ltd. discovered the Sadim prospect (237) near Missezula Mountain in 1986 and has since completed a substantial program of surface work and diamond drilling. Immediately to the south, Canadian Nickel Co. Ltd. operated a similar project on the Hit and Miss claims (236) along the Summers Creek fault zone, while to the north, near Aspen Grove, Gerle Gold Ltd. obtained several encouraging drill intersections on the Snowflake property (238).

Princeton - Tulameen Area

Newmont Mines Limited's exploration division has revived interest in the copper-gold potential of the Voigt stock (243), northeast of the Copper Mountain deposit. The Voigt zone is characterized by hematite and carbonate alteration and contrasts with the pyritic ore at Copper Mountain. South of Princeton, Worldwide Minerals drilled the Whipsaw Creek property (242).

In the Tulameen district, west of Princeton, Huldra Silver Ltd. has been encouraged by surface exploration and bulk sampling of a fault-associated high-grade silver vein system at Treasure Mountain (241). The mineralization cuts argillite, arkose and tuffaceous sediments of the Jurassic Dewdney Creek and Cretaceous Pasayten groups. Elsewhere in the area, Newmont completed surface mapping and lithogeochemical sampling at Grasshopper Mountain (182), at the north end of the Tulameen ultramafic complex. This work has defined weak but consistent platinum-bearing chromite segregations within massive dunite. D.K. Platinum Corporation has also been exploring for platinum group metals and, although a few other minor programs have been ongoing, the potential for platinum in the area has yet to be fully realized.

Hedley

Mascot Gold Mines Ltd. continued extensive drilling on the French, Canty and Good Hope properties (246) while its new parent company, Lacana Mining Corporation, explored the New Hope claims (245) east of the minesite. Noranda Exploration continued work on Banbury Gold's Maple Leaf property (249), concentrating on the contact zone of a Hedley diorite stock. South of Hedley, Chevron Minerals completed preliminary work and limited drilling on its Similkameen project (248). Reports are that skarn mineralization there is likely to be below 200 metres depth.

Okanagan

West of Peachland, Fairfield Minerals Ltd. completed extensive surface exploration on the Oka (252) and Elk (235) gold-bearing skarn prospects. Both properties occur in pendants of calcareous Nicola sediments within the Pennask batholith and lie on projected extensions of the Triassic Hedley Formation carbonate units.

Further south, near Okanagan Falls, Canadian Nickel continued a deep drilling program on the Vault (257) epithermal gold prospect, discovered in 1986. The deposit occurs in porous trachytic tuff of the Tertiary Lower Marama Formation. Gold values up to 23 grams per tonne over 9 metres have been intersected at depths below 250 metres. The property lies northwest of the Dusty Mac mine, another well-known epithermal gold deposit in the area, which will see exploration work in 1988.

In the Fairview gold camp (250), interest has been re-established by the efforts of two Vancouver-based junior exploration companies that had assistance from FAME grants. Oliver Gold Corporation has completed surface and underground programs at the Fairview mine, and Highland Valley Resources Ltd. drove a 365-metre exploration adit on the Brown Bear (Stemwinder) claims. Results from both projects have been modestly encouraging and Valhalla Gold, which holds the controlling interest in Oliver Gold and Highland Valley Resources, is continuing the two projects in 1988. At Orofino Mountain (256) Grandex Resources completed a substantial drilling and trenching program.

In the northern Okanagan region Huntington Resources Inc. and Lacana Mining jointly operated a major drilling and trenching program on the Brett gold prospect (263), discovered by heavy mineral sampling and prospecting in 1983-84. Gold-silver mineralization in shear zones and quartz veins occurs with intense clay and silica alteration that crosscuts tuffaceous volcanic rocks of presumed Tertiary age. The discovery hole, drilled in 1987, intersected 5.2 metres grading 25 grams per tonne gold. A recently reported percussion-drill hole intersected substantially higher grades in this part of the zone. A similar style of mineralization occurs on the Brican Resources Ltd. Gold Star property (262), immediately west of the Brett claims. Brican carried out surface work and a drilling program on newly defined gold targets.

At the north end of Okanagan Lake, MineQuest Associates is also following up surface work with drilling on its Equesis gold-silver prospect (260). This is another mesothermal vein target in an Upper Triassic Nicola volcano-sedimentary package.

The Quinto Mining Corp. continued drilling and bulk sampling on its Lumby project (259) Plateau gold zone. Plans are to complete metallurgical tests using a portable mill mobilized to the property. Mineralization in the Plateau zone occurs in a carbonaceous shear zone in Triassic Slocan Group rocks. The company is at Stage I in the Mine Development Review Process.

Revelstoke Area

In contrast with other areas, activity in the eastern part of the district was down slightly from previous years. At the J & L deposit (264), Pan American Minerals Corp. is continuing with underground drilling and bulk sampling. The company's main objective is to overcome the high-arsenic metallurgical problem by applying the Cashman process, as well as several other processes, in its attempts to precipitate insoluble arsenic compounds, thereby eliminating the main environmental problem attached to the project.

OPERATING MINES

Mascot Gold Mines officially opened the Nickel Plate mine (247) in August 1987. The company is mining from three pits, the South (Bulldog) pit, the Central (Sunnyside) pit and the North (Nickel Plate) pit, with published ore reserves of 9.0 million tonnes grading 4.56 grams per tonne gold. Production rate is 2450 tonnes per day with a 9:1 stripping ratio.

At Logan Lake, Highland Valley Copper Ltd. (177) began operation of a $62 million in-pit crushing and conveying system in the fall of 1987. The system operates from the Valley pit, which produces about 84 per cent of current production, with the remainder made up from the Lornex pit. The new installation boosts daily production by about 6 per cent to 120 000 tonnes per day and will replace the operation of several high-cost haulage trucks.

In the Okanagan region, Brenda Mines Limited (178) continued operations throughout 1987 at a rate of 30 000 tonnes per day. Exploration drilling programs were completed in the south wall of the main pit and on the North Brenda claims (258), with the aid of a FAME grant. At the present production level, the current pit reserves will be near depletion by mid-1990.

Newmont's Copper Mountain operation (179) maintained a steady production rate of about 20 000 tonnes of ore per day, grading 0.43 per cent copper. Appreciable amounts of gold and silver are also recovered in concentrate. With the improved trend in copper prices, there is potential to extend the mine life substantially.

At the Afton mine (180), near Kamloops, production at 7700 tonnes per day continues from the Pothook zone, where reserves stand at 1.54 million tonnes, grading 0.4 per cent copper. The main Afton pit closed in 1987 and the Pothook zone will be depleted by May 1988. However, with the recently successful exploration efforts on the Ajax project, operations should continue well beyond 1990.

Teck Corporation's Highland Bell mine (181) at Beaverdell operated throughout 1987 at about 100 tonnes per day. The company completed a FAME-assisted underground drilling program in 1987, which produced encouraging results and generally improved the ore reserve situation.

SOUTHWESTERN DISTRICT
By H.P. Wilton, District Geologist, Victoria

INTRODUCTION

Mineral exploration activity in the Southwestern District in 1987 increased by approximately 33 per cent over the 1986 level, as measured by the number of projects identified. Increased expenditures on major drilling programs and underground bulk sampling at some of the more advanced projects suggest that a final tally of total expenditures on mineral exploration in 1987 will show an increase closer to 50 per cent over 1986.

TRENDS, HIGHLIGHTS AND POTENTIAL TARGETS

Gold continued to be the main target commodity at most of the projects and was hunted with considerable success in a variety of geological settings. Other metals, such as the base metals in polymetallic massive sulphides, were generally of interest only as co-products or pathfinders to the all-important gold values. Increased interest in industrial minerals was evident, particularly on the Sunshine Coast north of Vancouver where a kaolin property, a dolomite prospect and a wollastonite prospect all received attention. For the first time in several years no significant exploration for coal was reported on Vancouver Island. However, by the end of the year, coal licences were again being issued and some major coal projects were being planned for 1988 in the Comox and Nanaimo basins.

The greatest concentration of effort and expenditure, particularly by the major companies, remains in the Sicker Group of Paleozoic volcanic and sedimentary rocks on Vancouver Island. The traditional target in the Sicker rocks has been Kuroko-type polymetallic massive sulphides with significant precious metal values, as exemplified by the Myra Creek deposits at Buttle Lake and the former mines on Mount Sicker. Discovery of the Coronation zone on the Lara property in 1984 by Abermin Corporation and Laramide Resources Ltd. revitalized interest in the traditional target, particularly in the Chemainus River area near Duncan. However, one of the most important exploration successes in British Columbia in 1987 occurred in the Sicker belt near Port Alberni, on the Debbie property and the contiguous Yellow claim. The Westmin Resources Limited - Nexus Group joint venture reported numerous impressive gold intersections from three separate zones representing three different mineral deposit types, none of which appears to be of the typical Kuroko type. Westmin and its partners have dramatically demonstrated that the Sicker belt contains a variety of types of gold deposit. As a consequence, it is expected that the main Sicker belt between Duncan and Port Alberni will continue to be a hot exploration area through 1988, with a new perspective in which felsic volcanic rocks are no longer the only target.

Polymetallic massive sulphides associated with roof pendants of volcanic rocks in the Coast plutonic belt of the southwestern mainland continued to attract the attention of a few companies, with particular encouragement reported by Minnova Inc. in the Indian River area and by Englefield Resources on Fire Creek near Harrison Lake. The Coast Range pendants are difficult to access and explore and, in many cases, lack a good regional mapping base. However, they represent a relatively untested target area that should have mineral potential comparable to the more accessible Sicker belt.

Auriferous skarns and manto replacement deposits are rapidly becoming better understood and more aggressively hunted throughout the district. The greatest success so far has occurred on Texada Island where Vananda Gold Ltd. and Rhyolite Resources Inc. both reported new prospects in 1987. There is potential for discovery of significant precious metal concentrations associated with skarn occurrences throughout the Insular Belt.

Other important gold targets that attracted the interest of companies and prospectors in 1987 are the mesothermal and epithermal quartz veins and vein-breccia occurrences that are known or suspected to be of Tertiary age. The most important example on Vancouver Island is at Mount Washington where Better Resources Ltd. continued to expand its drill-indicated reserves in 1987. The gold-silver-arsenic-copper mineralization occurs mainly in tabular, siliceous vein-breccia zones which are localized in a series of flat-lying fractures superimposed on a complex Tertiary eruptive system. Mount Washington is the centre of an epithermal gold camp having a radius of at least 15 kilometres. The probability is high that other similar mineralized Tertiary eruptive systems lie unrecognized on Vancouver Island.

Other active gold camps in which the mineralized quartz veins are hosted by Tertiary rocks include Zeballos and Kennedy River on Vancouver Island, the Harrison Lake area on the mainland and the Graham Island gold belt on the Queen Charlotte Islands. In the latter two camps, the Abo and Cinola properties respectively were subjected to aggressive drilling and underground bulk sampling programs in 1987 and can both be regarded as very promising projects which are near or at the feasibility stage. It is evident that Tertiary mesothermal and epithermal quartz vein and breccia systems occur throughout the Insular Belt and may be hosted by a variety of rock types ranging in age from Paleozoic to Tertiary. Furthermore, widespread quartz-ferrocarbonate-altered shear zones and faults, such as the Mineral Creek zone on the Debbie property, are probably of Tertiary age and represent an associated class of epigenetic gold target.

MINERAL EXPLORATION ACTIVITIES

Vancouver Island

One of the potentially most important exploration successes in the province in 1987 occurred on the Debbie property (279) in the Sicker belt southeast of Port Alberni where the Westmin Resources - Nexus Group joint venture reported impressive gold intersections in three separate zones. The Mineral Creek zone is an extensive fault-controlled alteration zone, the 900 zone is a ferruginous chert horizon with an associated quartz-vein stockwork in basaltic rocks, and the Linda zone is a system of mineralized quartz veins. The most spectacular intersection was reported from the 900 zone where a core length of 14.4 metres assayed 140.6 grams per tonne gold. The Yellow claim (280), site of the old Vancouver Island mine (Victoria), is completely surrounded by the Debbie claims and contains the southern ends of the Mineral Creek and Linda zones. The owners, Angle Resources Ltd. and Reward Resources Ltd., carried out intensive drilling in late 1986 and early 1987. Westmin Resources then took over as operator and completed approximately 30 000 metres of drilling on the Debbie and Yellow properties through 1987 and early 1988. Early in 1988, Westmin announced plans to access the Mineral Creek and Linda zones with a 2-kilometre tunnel through McLaughlin Ridge.

Elsewhere in the Sicker belt east and southeast of Port Alberni, Crew Minerals drilled nine holes on the Fitzwater property (274) optioned from Ladysmith Minerals Ltd. Au Resources Ltd. drilled twelve holes on the Emma property (295) and Nexus Resource Corporation drilled six holes on the Cathedral property (296) near the west end of Cameron Lake. Noranda (in a joint venture with Umex) returned to its Lizard property which adjoins the south end of the Debbie property and is on strike with the auriferous Mineral Creek structure. Noranda did not drill in 1987 but was encouraged by the results of extensive surface surveys.

Drilling activity and expenditures remained high at the Chemainus River end of the main Sicker belt where traditional Kuroko-type deposits in felsic volcanics are still the main targets. On the Lara property (269), Abermin Corporation and Laramide Resources drilled close to 15 000 metres in 83 holes, most of which was directed toward enlarging the indicated reserves on the Coronation zone. At year-end they reported new reserves of 1 125 000 tonnes grading 0.67 per cent copper, 0.72 per cent lead, 3.59 per cent zinc, 67.9 grams per tonne silver and 2.9 grams per tonne gold, and announced plans to go underground in 1988 with 820 metres of ramping and drifting. Falconbridge Limited and Esso Minerals Canada reported very positive encouragement from their major program on the Chip claims (270) which adjoin the Lara property to the northwest. They drilled 18 holes totalling 6754 metres. Falconbridge also drilled ten holes on the West claims (276) and three on the PF option (266), both of which are located east of Mount Sicker and south of Crofton. At Mount Sicker (267), Minnova Inc. drilled 15 holes totalling close to 5000 metres and an additional six holes on the adjacent Copper Canyon claims optioned from Canamera Explorations Ltd.

Other significant programs carried out within the main belt of Sicker rocks included comprehensive geological mapping followed by some trenching and 12 drill holes by Goldenrod Resources and Technology Inc. and Nexus Resource Corporation on the Holt claims (275) southwest of Duncan. International Cherokee Developments Ltd. completed modest drilling programs early in the year on the Cow (279) and Chem (278) properties in the Chemainus River area. The showings of interest were polymetallic veins and auriferous iron formation respectively. Utah Mines Ltd. carried out an abbreviated program including some geophysics and four drill holes into a sequence of ferruginous cherts on its extensive Striker property (271) between Cowichan Lake and Chemainus

River. At the Heather property (272), optioned from International Cherokee, Minnova Inc. trenched and drilled a shear zone in Sicker volcanics from which an earlier 1-metre chip sample had assayed 105.5 grams per tonne gold. At the Villalta property (294) near Nanaimo Lakes, Canamin Resources Ltd. drilled a total of 47 short, closely spaced holes into a gold-bearing hematite breccia zone and reported revised open-pit reserves of about 19 000 tonnes averaging 4.3 grams per tonne gold.

The only major project on southern Vancouver Island outside the Sicker belt, was the Valentine Mountain gold prospect (265), optioned by Valentine Gold Corp. from Beau Pre Explorations Ltd., located approximately 20 kilometres north of Sooke. Early in the year, 22 drill holes confirmed the presence of erratic high-grade gold in the Discovery zone and a 20 tonne per day pilot mill had been completed to test bulk samples from the same zone. At year-end, a second drilling program had begun to test a new zone of strong geochemical and geophysical anomalies on the Jordan River about 4 kilometres west of the Discovery zone. Precious metals at Valentine Mountain occur in Tertiary quartz veins cutting the Leech River metamorphic complex.

Several small to moderate-sized drilling programs were completed on gold prospects in the area between Alberni Inlet and Tofino. The most ambitious was on the Tommy property (285) at Kennedy River where Kerr Addison Mines Limited, under an option agreement with International Coast Minerals Corporation, drilled a sheeted swarm of narrow, parallel, gold-silver-copper-bearing quartz veins cutting Karmutsen volcanic rocks. On the Taylor River, Casau Exploration Ltd. explored a new gold-silver-lead-zinc prospect called the Snow project (284) where detailed surface sampling of a quartz vein containing free gold and abundant galena and sphalerite indicated a grade of 8.6 grams per tonne gold over an average width of 1.03 metres and a strike length of 22.3 metres. Also on the Taylor River, Dalmation Resources Ltd. carried out extensive geophysical and geochemical surveys, and drilled six holes at the main quartz vein - breccia showing on the Tay claims (283). A private company, SYMC Resources, reported having drilled 10 holes to test a series of gold-silver-copper-bearing quartz veins on the High Sierra property (281) near the mouth of Macktush Creek. Two associated companies, Stetson Resource Management and Aintree Resources, completed modest drill programs on the Ark property (282) south of Great Central Lake and the Epic property (286) near Kennedy Lake respectively. The former is an antimony-mercury showing believed to indicate epithermal gold potential at depth and the latter project involves the testing of anomalous gold in shear zones cutting Tertiary volcanic rocks. Iron River Resources Ltd. carried out an aggressive evaluation of the Kalappa property (288) on Meares Island where potential exists for significant epithermal gold mineralization associated with arsenopyrite veins and a diatreme breccia. The company has also discovered a massive sulphide showing at least 15 metres wide assaying up to 2.88 per cent copper, 2.50 grams per tonne gold and 22.63 grams per tonne silver in silicified volcanic rocks mapped as Sicker Group. On the nearby Bedingfield Peninsula, Utah Mines on the Cypress property (289) and Cominco Ltd. on its large Bedingfield claim group (290) both completed modest drilling programs searching for polymetallic massive sulphides in felsic volcanics of the Sicker Group.

The Mount Washington area west of Courtenay was a focus of interest for several companies searching for epithermal gold-silver mineralization. At Mount Washington (299), Better Resources Ltd. drilled 8880 metres in 120 diamond-drill holes and, at year-end, announced revised ore reserves on the Lakeview-Domineer zone of 1.39 million tonnes averaging 3.9 grams per tonne gold and 23.7 grams per tonne silver. Better Resources also completed 300 metres of underground drifting and has stockpiled a bulk sample from the Lakeview zone. Noranda Exploration Company completed mapping and other surface surveys on the Piggott Creek property of Iron River Resources west of Mount Washington and also in the Murex Creek area on claims optioned from Better Resources. Diatreme breccias and epithermal mineralization occur in both areas. On the Dove property (298) between Mount Washington and Wolf Lake, Westmin conducted airborne and ground geophysical surveys followed by drilling of several anomalies. In the Wolf Lake area, Cactus West Explorations Ltd. drilled 14 short drill holes to test the epithermal gold-arsenic-zinc-silver showings on the Lupus property (297). One of the better intersections reported was 5.1 grams per tonne gold over 2.4 metres in the Creek zone. Falconbridge took advantage of the opportunity to re-examine its Faith Lake and Gem Lake properties on Forbidden Plateau when Recreation Areas were created over mineral claim holdings within Strathcona Park. Both properties were remapped and sampled and geophysical surveys were conducted over the gold-bearing Shev vein-breccia zone at Faith Lake. The Shev vein is very similar to the Lakeview zone at Mount Washington and probably resulted from the same Tertiary epithermal event.

In the larger Strathcona Recreation Area at Buttle Lake, which was created to permit further exploration of existing claims in the Buttle Lake uplift of Sicker Group rocks, Cream Silver Mines Ltd. completed a major geophysical survey on its property adjoining the southeast corner of Westmin Resources' mine property. It reported a string of anomalies in favourable geology on strike with the Westmin orebodies. At year-end Cream Silver was waiting for a resource use permit necessary to carry out a modest preliminary drilling program on the most accessible of the anomalies.

In contrast to the high level of activity on southern Vancouver Island, the northwestern half of the island was very quiet. There was significant exploration on only four properties. Prophesy Developments Ltd. optioned the Adola property (291) at Matchlee Bay near Gold River, did some more trenching and late in the year had begun a modest drilling program. Polymetallic replacement massive sulphides and veins occur in sheared Karmutsen volcanics. At Zeballos, McAdam Resources Inc. drilled at least 15 deep holes from surface on the Spud Valley gold property (292) to further test several veins north of the previously mined Goldfield vein. At year-end a crosscut on the No. 7 level intended to provide underground access to the new target veins was well advanced. One of the better drill intersections reported was 126.5 grams per tonne gold over 1.3 metres on the Linton North vein. Taywin Resources Ltd. drilled 32 short diamond-drill holes and 45 percussion-drill holes at the Electrum property (293) of BP Minerals on the Malksope River near Kyuquot. There are several zones on the property with differing geology but the main targets are epithermal quartz veins with locally very high precious metal values. Finally, Hisway Mining

Corporation has been re-examining a group of silver-rich lead-zinc skarn occurrences on the HPH claims near the east end of Nahwitti Lake between Port Hardy and Holberg. Very late in the year it drilled six holes and reports strong encouragement to continue.

Quadra and Texada Islands

On Quadra Island, Lone Jack Resources Ltd. has acquired a large block of claims (300) extending the full length of the limestone belt between Granite Bay and Open Bay. The claims surround but do not include the former Lucky Jim mine from which 470 tonnes of gold-silver-copper ore were produced from a skarn deposit. Several showings exist on the claims, including a skarn showing near the Lucky Jim mine which assayed 4.5 grams per tonne gold over 7.32 metres, and a newly discovered limestone breccia with possible epithermal mineralization that assayed 1.21 per cent arsenic, 0.13 per cent lead and 16 ppm mercury across 21.3 metres. At the end of the year Lone Jack had completed four out of a proposed sixteen diamond-drill holes.

Exploration on Texada Island was limited mainly to the activities of two companies and a few prospectors at the north end of the island, between Vananda and Gillies Bay. Vananda Gold, which has put together a large property (304) containing most of the known copper-gold and iron skarn deposits on Texada Island, completed limited surface surveys and some trenching. Results are reported to be encouraging and include channel samples averaging 8.0 grams per tonne gold over 1.3 metres from a new zinc-rich manto showing in the Ideal limestone quarry. Rhyolite Resources operated its 100 tonne per day bulk sampling mill periodically through 1987 using gold mineralization from the Bolivar deposit (301) and the Holly (302) vein-shear zone as feed. Late in the year it began testing a siliceous sulphide-magnetite replacement zone on the Yew claims (303) at Priest Lake, a zone originally exposed and drilled by Northair Mines Limited in 1985-86. Rhyolite's work has significantly increased the known extent of the zone, which is contained within a shallow, horizontal limestone bed in the Karmutsen Formation; sampling has returned gold values ranging from 10.7 to 59.1 grams per tonne.

Southwestern Mainland

Exploration in the southwestern mainland part of the district remained relatively subdued in 1987 compared to the intense activity on southern Vancouver Island. Activity was concentrated mainly in a few small areas such as the Squamish - Indian River area, the Harrison Lake area, the Sunshine Coast and Phillips Arm.

The most advanced project was the Abo gold property (316) near Harrison Hot Springs where Kerr Addison Mines Limited and Bema International Resources Inc. completed 350 metres of underground drifting and raising in the Jenner stock. A small pilot mill was constructed near Agassiz for processing of bulk samples taken from three raises. Mineralization occurs as stockworks of thin quartz-pyrrhotite veins containing free gold and confined within Tertiary quartz diorite stocks. At the Aufeas property (318) on Wardle Creek 5 kilometres southwest of Hope, Silver Cloud Mines Ltd. drilled five surface holes totalling 734 metres to further test a system of fault-controlled, gold-bearing quartz veins. At Mount Outram, east of Hope, Newjay Resources Ltd. drilled seven short holes to test the Master Ace zone (319), a series of gold-silver-copper-bearing quartz lenses in a major quartz-talc shear zone. The shear zone can be traced for more than 1 kilometre and follows the contact between cherty volcanic rocks and a band of serpentinite.

Three polymetallic massive sulphide prospects were worked on in the Harrison Lake area. Minnova Inc. was encouraged by the results of a drilling program on the North Fork prospect (317) on Cogburn Creek east of Harrison Lake. International Curator Resources Ltd. drilled a total of approximately 3000 metres at the Vent zone on the Seneca property (314) of Chevron Minerals Ltd. on the Chehalis River near Harrison Mills. Polymetallic massive sulphides, including one deposit with 1.5 million tonnes of measured reserves, are associated with felsic volcanics of the Jurassic Harrison Lake Formation. On Fire Creek, near the north end of Harrison Lake (315), Englefield Resources Ltd. was still drilling at year-end on a gold anomaly measuring 900 by 100 metres and assaying up to 9.9 grams per tonne gold in surface rock samples.

In the Indian River area southeast of Squamish, Minnova Inc. drilled 1225 metres in and around the Slumach sulphide vein occurrence on the property of International Maggie Mines Ltd. (305). It reported intersecting two thin but well-mineralized exhalite zones associated with strongly altered felsic to intermediate volcanic rocks of the Lower Cretaceous Gambier Group. One intersection contained 0.45 per cent copper, 10.8 per cent zinc, 4.6 grams per tonne gold and 13.7 grams per tonne silver over a width of 0.6 metre. Minnova also reported considerable geological encouragement from its ongoing program of geological and geophysical surveys on the adjacent and extensive Furry Creek property (the former Anaconda holdings) optioned from Fleck Resources Ltd. Also southeast of Squamish, at Mount Baldwin near the head of Raffuse Creek, Falconbridge drilled nine holes on the Baldwin-McVicar property (306) to investigate the massive sulphide potential of a series of quartz-sulphide vein systems in sericite schists and chert.

As mentioned previously, there were three significant industrial mineral properties on the Sunshine Coast that received attention in 1987. Fargo Resources Ltd. continued aggressive evaluation of its kaolin prospect at Lang Bay (309) south of Powell River. Diamond and reverse-circulation drilling have revealed that both residual and sedimentary kaolin of good industrial quality are present in the deposit. There is already very good potential for a significant open-pit reserve in the small part of the property which has so far been tested. Tri-Sil Minerals Ltd. drilled, trenched and bulk sampled the Mineral Hill wollastonite property (307) just north of Sechelt. This prospect shows good promise of significant mineable reserves of wollastonite and accessory industrial-grade garnet. On the adjoining Sechelt Carbonate property (308) of Candol Developments Ltd., Ingot Exploration Ltd. completed a modest program of definition drilling on one of several dolomite zones occurring within an extensive marble belt.

In the Phillips Arm gold belt, where structurally controlled, auriferous quartz veins cut Coast Range plutonic rocks, Charlemagne Resources Ltd. drilled a few holes to test a geophysical anomaly adjacent to the Commonwealth adits on its Alexandria property (311). Elsewhere in the belt, New Signet Resources Inc. did some trenching in the vicinity of the Doratha Morton mine (312) as did the Rea Gold/Verdstone Gold joint venture at the northern end of East Thurlow Island (310).

Finally, at the north end of Lillooet Lake near Pemberton, Green Lake Resources Ltd. drilled two holes on the Lill claims (320). It reported some good polymetallic massive sulphide intersections which are suspected to be volcanogenic mineralization unrelated to skarn showings which occur elsewhere on the property.

Queen Charlotte Islands

The only major exploration project on the Queen Charlotte Islands in 1987 was at the Cinola Gold property (324) where City Resources (Canada) Ltd. drilled a total of 9677 metres including both diamond and reverse circulation drilling. It also extended the underground workings in order to collect bulk samples for further metallurgical testing. All of the physical exploration work was completed by the end of March and the remainder of the year was devoted to various pre-feasibility tests and studies. By the end of 1987, a feasibility report was completed and development of a mine processing about 6000 tonnes of ore per day was targeted for completion by October 1989. Open-pit reserves were recalculated at 24.8 million tonnes averaging 2.13 grams per tonne gold, using a cut-off grade of 1.10 grams per tonne.

Other significant exploration projects were limited to the Sandspit fault system on Graham Island and northern Moresby Island where the target is epithermal gold mineralization of late Tertiary age as characterized by the Cinola orebody. On the Snow property (322) just south of Sandspit, Mondavi Resources Ltd. did some trenching and other surveys and Mandalla Resources Ltd. completed similar work preparatory to drilling at the old Southeaster vein showing (323) near Skidegate.

CONCLUSION

In summary, 1987 was a very successful year for exploration and prospecting in the Southwestern District. Activity is still focused very heavily on gold, but there is an increasing interest in industrial minerals and coal exploration on Vancouver Island is set to resume in earnest. New discoveries have been made, there are at least five properties that appear to be likely producers in the near future and new geological models are emerging. There are many reasons to expect this accelerating activity to continue through 1988.

INDUSTRIAL MINERALS

By Z.D. Hora, Industrial Minerals Specialist

INTRODUCTION

Exploration for nonmetallic industrial minerals in British Columbia in 1987 was quite diverse. A number of properties received only token attention from the industry, while a few had significant exploration programs.

Three most important projects were carried out to outline the newly discovered Lang Bay kaolin deposit (with the participation of government exploration incentive program "FAME"), to study the underground mining implications of asbestos in anticipation of a major company decision to open a new orebody by using unconventional mining methods, and a delineation drilling program on a magnesite deposit to outline areas for selective mining of chemical and refractory-grade product. Smaller projects, in step with the government strategy, were aimed at developing new commodities as yet not being produced in the province, for example feldspar, talc, wollastonite and slate. Such products would in part replace imported materials as well as offer export potential. The gypsum market study for the Pacific Northwest was completed with the assistance of Canada/British Columbia Mineral Development Agreement (MDA) and copies may be obtained from Island Blueprint in Victoria.

ASBESTOS

Cassiar Mining Corporation continued work on its McDame orebody. The work consisted mostly of geotechnical and feasibility studies.

CARBONATITES

Teck Corporation has conducted geological mapping and trenching to verify geochemical anomalies on its claims near and to the southeast of Wicheeda Lake, north of Prince George. A complex of carbonatite plugs and sills associated with sodalite syenite dykes and syenite sills contains rare earth elements, yttrium and niobium values.

FULLER'S EARTH

Ekaton Resources Ltd. of Calgary conducted pilot test studies on both raw and calcined extruded and pelletized products from its Red Lake "diatomite" property north of Kamloops. The material is used as a domestic and industrial absorbent.

FELDSPAR

A newly reported pegmatite occurrence near Lumby is presently being studied by Brenda Mines Limited as a potential producer of glass and ceramic-grade feldspar. Mapping and bulk sampling with pilot test processing were carried out in 1987.

GYPSUM

Drilling (32 diamond-drill holes) and trenching was reported by Domtar Inc. on three properties in the Lussier River and Coyote Creek area.

Queenstake Resources Ltd. completed a marketing study and worked on a feasibility study for its gypsum deposit at O'Connor River. The product has the potential to compete with imported gypsum in the Vancouver market.

JADE

Jade West Resources Ltd. reported trenching on its Ogden Mountain property.

KAOLIN

Exploration drilling at the Lang Bay germanium prospect, carried out in 1986 by Fargo Resources Ltd., discovered significant deposits of residual kaolin in basement rocks underlying Upper Cretaceous sediments. In 1987 a seismic survey followed by 33 rotary and diamond-drill holes identified a kaolinized zone in Coast Range intrusive rocks along the eastern limits of the basin, over a length of approximately 1500 metres. There is significant potential to expand the estimated reserves along the strike in both directions. The company reported reserves of 1.6 million tonnes of clay. Laboratory studies were carried out at The University of British Columbia and at industrial facilities in Cornwall, England.

High-kaolin claystone beds were identified adjacent to coal seams on the Quinsam Coal Limited property near Powell River. The claystone is being tested for use in production of refractory bricks.

LIMESTONE

Quesnel Ready Mix Cement Co. Ltd. opened a small quarry near Purden Lake east of Prince George to test the suitability of limestone from the Lower Cambrian Mural Formation for local pulp and paper mills. City Resources (Canada) Ltd. studied a small limestone deposit on Moresby Island. Three drill holes with an aggregate length of 77.4 metres are reported.

On the Sechelt Peninsula, Candol Development Ltd. completed six diamond-drill holes to outline white limestone and dolomite resources.

MAGNESITE

A major diamond-drilling program (34 holes) was undertaken by Baymag Mines Co. Ltd. in the area adjacent to the present open-pit mine.

SLATE

Laboratory testing was carried on and the three holes were drilled by Dome Creek Slate Ltd. to evaluate the suitability of slate for roofing and other applications. The deposit is located near Highway 16 east of Prince George and the project received support from the FAME program.

TALC

Pacific Talc Ltd. carried out sampling and laboratory testing of talc from the J & J claims on the Nahatlatch River north of Boston Bar. The laboratory-scale product meets pulp and paper industry specifications for pitch control.

WOLLASTONITE

A deposit of wollastonite on the Sechelt Peninsula was studied by Tri-Sil Minerals Inc.. Eight drill holes, trenching, geological mapping and laboratory studies were carried out to evaluate the wollastonite potential of local skarn deposits. Wollastonite is used in paints, ceramics and plastics as a filler, other potential applications are in replacing short-fibre asbestos in a variety of industrial uses.

FAME
Financial Assistance to Mineral Exploration
By Brian Grant,

INTRODUCTION

The FAME program, first introduced in the 1986/87 fiscal year, is a provincial initiative with $5 million in funding to promote private sector mineral exploration and development in British Columbia. The program was introduced in response to the recession of the early 1980s and the resulting reduction in mineral exploration and development activity in the province. By 1987 conditions were starting to improve. Metal markets were stronger, the economy was stable with lower inflation, and the mineral exploration sector had become extremely competitive, particularly with regard to raising risk capital. FAME was renewed in the 1987/88 fiscal year in order to maintain growing investor confidence in the province.

Mining is one of British Columbia's major industries and by encouraging exploration and development the industry will continue to play a key role in the future economic development of the province.

FAME OBJECTIVES

* To promote private sector investment in exploration and development in British Columbia

* To extend the economic lives of operating mines thereby contributing to community stability in existing mining areas.

* To help establish an atmosphere of investor confidence in the British Columbia mineral resources industry.

The FAME program has met these objectives by:

* Providing a portion of the high risk capital required by prospectors and mineral exploration companies to finance exploration and development of mineral resources.

* Providing technical expertise and support to prospectors.

* Establishing a climate of confidence which will encourage private sector financing and development of the province's mineral resources.

FAME PROMOTION

A descriptive brochure was produced which detailed the aims and intent of the FAME program. It defined eligibility requirements, value of grants, application procedures and reporting requirements. An initial printing of 6000 copies was distributed to companies and individuals actively engaged in mineral exploration.

A descriptive press release was issued April 22, 1987 by the Ministry and this generated widespread public awareness of the program. Additional releases were made June 29 and July 16 which maintained public interest and response. A paid advertisement was placed in the Northern Miner.

Favourable editorial comment has appeared in the Northern Miner and the program was extensively reviewed in the February 1988 issue of the Canadian Institute of Mining & Metallurgy Bulletin. This latter article was a review of Canada-wide incentive programs, supported by the Federal and/or various provincial governments to promote mineral development within their jurisdictions.

INDUSTRY LIAISON

The management of FAME and the Geological Survey Branch consulted with mineral industry organizations, such as the British Columbia and Yukon Chamber of Mines and the Mining Association of British Columbia, during the period of initial program design and development. The thrust of the 1987 FAME program was also discussed with industry representatives to ensure the most effective allocation of resources in the various program components.

FAME COMPONENTS

The FAME program is a combination of three components, each of which has a distinct budget and major objective:

1. PROSPECTORS ASSISTANCE PROGRAM (PAP)

Objective: To promote grass-roots prospecting activity within the province and to provide technical support and training for prospectors when required.

	1986	1987
Budget	$200 000	$400 000
Applications received	454	277
Grants disbursed	72	133
Average grant value	$ 2 567	$ 2 573

Results: The Prospectors Assistance component of the 1987/88 FAME program was successful. Grants of up to $5000 per individual prospector were, in general, well utilized within the terms of the program and a number of exciting discoveries can be credited to the availability of FAME funding. The prospecting programs that received funding were distributed throughout the province and targets included precious metals, base metals and industrial minerals.

The position of a Prospector Training Officer, established in 1987, improved the Ministry's ability to monitor the grant funds. More importantly the Prospector Training Officer supplied valuable technical assistance and information to individual prospectors regarding their programs and how to achieve their objectives.

2. MINERAL EXPLORATION INCENTIVE PROGRAM (MEIP)

Objective: To promote exploration by companies or individuals on properties which have potential for mineral development.

	1986	1987
Budget	$3 180 000	$3 000 000
Applications received	256	296
Grants disbursed	58	73
Average grant value	$ 55 017	$ 38 538

Results: The program provided grants up to a maximum of $150 000 or one-third of the eligible exploration expenses, on properties with identified economic potential.

A total of 19 out of the 73 grant recipients reported results which significantly enhanced the economic potential of their property. At least two of these projects are sufficiently advanced to have entered the Mine Development Review Process and have the potential to become major contributors to the economy and employment in British Columbia.

That so many of these projects have been successful is impressive. Although the success rate in part reflects the efficiency of the project evaluation and selection process for FAME, the success of all projects is fundamentally due to the professional expertise of the participating companies and individuals.

3. ACCELERATED MINE EXPLORATION PROGRAM (AMEP)

Objective: To promote the discovery and development of additional ore reserves at established mine sites and, as a result, to provide stability for existing mining communities.

	1986	1987
Budget	$1 5000 000	$1 420 000
Applications received	31	27
Grants disbursed	18	20
Average grant value	$ 84 444	$ 70 964

Results: AMEP funding was allocated to mine projects involving such commodities as coal, jade, base metals and industrial minerals. The success of the projects has been encouraging. In the 1987/88 FAME Program, 11 out of the 20 AMEP projects were judged to have made a significant contribution to developing additional ore reserves. Eight of those projects succeeded in extending their mine operating life by at least one year. The impact on the provincial economy by extending the life of an active mine is substantial. The alternative would be premature mine closures with attendant unemployment and loss of income for all local support services.

FAME IMPACT ON ECONOMY

The long term objective of the FAME program has been to ensure that the mineral resources sector maintains a significant role in the economic development of the Province of British Columbia. This role is maintained through the development of new mines to replace those at or near the end of their economic reserves.

In the short term FAME has contributed to new discoveries, helped improve the potential of known mineral occurrences and has assisted in extending the life of several mining operations. The FAME budget of $5 million in 1987 constituted about 13.2 per cent of the eligible expenses reported by MEIP and AMEP grant recipients (Table A4). FAME grants were an important component of about $38 million in eligible mineral exploration expenditures in 1987. In 1986 FAME projects reported total expenditures of about $34.5 million. In addition, a number of companies incurred substantial expenditures which were not eligible for reimbursement under the conditions of the FAME program.

The impact of these eligible exploration expenditures on direct employment, and the purchase of material and support services has been positive. The programs employed approximately 1300 persons for a total of 58 800 man-days and generated about $10 million in direct salaries to British Columbia residents. These statistics do not include the employment of third party contractors by the grant recipients or employment generated under the PAP component of FAME. Support services in British Columbia, such as hotels, restaurants, rotary and fixed-wing aircraft charters, equipment rentals and laboratory services, etc., benefited from FAME-related expenditures by an amount exceeding $10 million.

FAME - RESULTS AND CONCLUSIONS

- FAME has helped to fill an important gap in the ability of the mining industry to raise risk capital during a difficult period and has made an important contribution to stabilizing the industry.

- Response to the 1987/88 FAME program was strong, totalling 600 applicants. These project proposals were reviewed and 266 applicants were given approvals for PAP, MEIP and AMEP grants. Due to various financial and project-related difficulties, only 226 companies or individuals were able to claim all or part of their grants after review and approval of the final reports. To illustrate the difficulties, nine recipients of MEIP grants were unable to start their proposed programs before February 29, 1988 due to the lack of financing as a direct result of the October 1987 stock market crash. On the other hand, a number of prospectors were unable to claim their grants as they were employed by mining companies and were thus unable to carry out their proposed prospecting programs. In comparison, the 1986/87 program received about 741 applications, of which 155 were successful in receiving grants. The slight decrease in applications from 1986 to 1987 is assumed to be a reflection of the improving financial strength of the minerals industry.

Table A4: Financial Assistance for Mineral Exploration (FAME) 1987-88

MEIP and AMEP GRANTS

FAME NUMBER	COMPANY NAME	PROJECT NAME	1987-88 FAME GRANT	ASSESSMENT REPORT
E132	356192 Alberta Inc.	Grub Gulch	$30,000	16773
E18	Abermin Corporation	Whitewater	$20,000	16758
M7	Afton Operating Corporation	Ajax	$100,000	16740
E285	Antelope Resources Limited	Rossland	$60,000	16751
E264	Ark Energy Ltd.	Camp McKinney	$30,000	16775
E193	Armeno Resources Inc.	Standard Creek	$60,000	16725
E192	Asamera Inc.	Jasper	$6,809	16700
M15	Bell Mine(Noranda Min. Inc.)	Bell Mine	$40,000	16754
E69	Better Resources Ltd.	Mt. Washington Project	$70,000	16762
E13	BHP-Utah Mines Ltd.	Cypress	$40,000	16742
M14	BHP-Utah Mines Ltd.	Island Copper	$100,000	16778
E246	Big Rock Gold	Megabucks	$24,898	16717
E89	BP Resources Canada Ltd.	Kitimat	$30,000	16693
M17	Brenda Mines Ltd.	1987 Brenda Explor.	$50,000	16750
E52	Canamin Resources Ltd.	Villalta	$30,000	16719
E125	Carnes Creek Explorations Ltd.	Spruce Creek	$50,000	16703
M12	Cassiar Mining Corporation	McDame	$120,000	16776
E2	Catear Resources Ltd.	Goldwedge	$60,000	16744
E33	Cathedral Gold Corporation	Takla-Rainbow	$60,000	16759
E32	Cathedral Gold Corporation	Porcher Island	$40,000	16735
E34	Cathedral Gold Corporation	Cunningham Creek	$20,000	16743
E46	Chevron Canada Resources Ltd.	Wayside (M577)	$30,000	16718
M18	Cominco Ltd.	Sullivan Mine	$150,000	16732
E283	Cominco Ltd.	Vine	$35,000	16699
E45	Cominco Ltd.	Sha/Star	$30,000	16769
E187	Cominco Ltd.	More	$20,000	16752
E210	Cream Silver Mines Ltd.	Buttle Lake	$60,000	16747
E35	Crew Minerals Inc.	Fitzwater Group	$40,000	16731
M20	Crows Nest Resources Limited	Horseshoe Ridge	$30,000	COAL #736
M21	Crows Nest Resources Limited	North Line Creek	$30,000	COAL #737
M22	Crows Nest Resources Limited	8 Seam Repeat Area	$30,000	COAL #738
E5	Dalmation Resources Ltd.	Tay Group	$10,000	16705
E251	Delaware Resources Corp.	Snip	$70,000	16748
M10	Dickenson Mines Ltd.	Silvana	$75,000	16767
E9	Equinox Resources Ltd.	Cay	$50,000	16722
M3	Equity Silver Mines Ltd.	1987 Minesite Exp.	$50,000	16770
E230	Esso Minerals Canada	Shasta	$60,000	16698
E228	Esso Minerals Canada	Kamad	$50,000	16701
E229	Esso Minerals Canada	Twin	$20,000	16774
E227	Esso Minerals Canada	Chemainus	$70,000	16710
E26	Fairfield Minerals Ltd.	Oka	$20,000	16761
E153	Fargo Resources Limited	Lang Bay	$60,000	16734
E147	FreeGold Recovery Inc.	Quesnel Canyon Placer	$30,000	16736
E126	Geddes Resources Limited	Tats	$60,000	16694
E27	Geostar Mining Corp.	Ascot	$10,000	16696
E245	Gold Ventures Ltd.	Keech	$20,000	16707

Table A4: Financial Assistance for Mineral Exploration (FAME) 1986-87

MEIP and AMEP GRANTS

FAME NUMBER	COMPANY NAME	PROJECT NAME	1986-87 FAME GRANT	ASSESSMENT REPORT NUMBER
E75	Abermin Corporation	Lara	$66,667	15737
M24	Afton Operating Corp.	Pothook Zone	$30,000	15713
E223	All Star Resources Ltd.	Canyon Mine	$60,000	15768
E77	Aurun Mines Ltd.	Hail-Harper Creek	$15,000	15738
M11	Bar-Well Resources Ltd.	Elkhorn	$10,000	15706
E206	Better Resources Ltd.	Mt. Washington	$50,000	15765
M18	Bishop Resources Development	Sil-Van Mine	$15,000	15709
E126	Brenda Mines Ltd.	LH Property	$50,000	15747
E6	Candorado Mines Ltd.	Hedley	$60,000	15714
M4	Cassiar Mining Corporation	McDame Asbestos	$115,000	15702
E191	Charlemagne Resources Ltd.	Alexandria	$110,000	15763
E23	Cominco Ltd.	Aley	$90,000	15721
M5	Cominco Ltd.	Sullivan	$50,000	15703
E147	Consol. Silver Standard Mines	Paydirt	$14,000	15753
E13	Corp. Falconbridge Copper	Rea Gold	$50,000	15718
E12	Corp. Falconbridge Copper	Chu Chua	$25,000	15717
E15	Corp. Falconbridge Copper	Mt. Sicker	$140,000	15719
M27	Crows Nest Resources Ltd.	Line Creek	$20,000	COAL #728
E33	Crows Nest Resources Ltd.	Burnt Ridge Ext.	$20,000	COAL #729
E44	David A Ward	General	$2,000	15727
E37	Ekaton Industries	Blue River Marble	$12,000	15725
E71	Energex Minerals Ltd.	AL	$70,000	15735
M19	Equity Silver Mines Limited	Equity Silver Mine	$150,000	15710
M1	Esperanza Explorations Ltd.	Tillicum Gold	$50,000	15700
E148	Esso Minerals Canada	Kamad	$50,000	15754
E149	Esso Minerals Canada	Tyaughton Trough	$50,000	15755
E8	Eureka Resources Inc.	Frasergold	$35,000	15715
E62	F & B Silver	D.V. Property	$30,000	15733
E153	Falconbridge Limited	Ecstall River	$80,000	15756
M17	Fording Coal Limited	Fording River	$50,000	COAL #726
E103	Gabriel Resources Inc.	G South	$90,000	15744
E101	Gallant Gold Mines Ltd.	Georgia	$30,000	15743
E129	Geddes Resources Ltd.	Windy Craggy	$20,000	15748
M22	Gibraltar	Gibraltar	$100,000	15712
E192	Gibraltar Mines Ltd.	Ze 1 Group	$7,000	15764
E26	Golden Eye Minerals Ltd.	Redbird	$80,000	15722
M10	Gunsteel Resources Inc.	Sheep Creek Gold	$30,000	15705
M16	Hecla Mining of Canada Ltd.	Mosquito Creek	$150,000	15708
E244	Highland Valley Resources Ltd.	Stemwinder	$75,000	15770
E86	Homestake Mineral Devel. Co.	Yellowjacket	$25,000	15740
E89	Houston Metals Corp.	Silver Queen Camp	$110,000	15742
E158	Hughes Lang Corp.	Bonaparte	$50,000	15757
E110	Kerr Addison Mines Ltd.	ABO	$75,000	15745
E218	Lacana Mining Corp.	Kena	$45,000	15767
E21	Laramide Resources Ltd.	Lara	$33,333	15737

Table A4: Financial Assistance for Mineral Exploration (FAME) 1987-88

E43	Granges Exploration Ltd.	Windflower	$60,000	16753
E72	Gulf International Minerals Lt	McLymont	$40,000	16695
M16	Gunsteel Resources Inc.	Nugget Mines	$40,000	16704
E140	Highland Valley Resources Ltd.	Stemwinder	$30,000	16779
E87	Homestake Mineral Development	Yellowjacket	$60,000	16712
E82	Houston Metals Corp.	Silver Queen	$40,000	16715
E23	IGF Metals Inc.	Beaverdell	$30,000	16772
E39	Kerr Addison Mines Limited	Kennedy River	$30,000	16729
E40	Kerr Addison Mines Limited	Windpass	$50,000	16764
E223	Kidd Creek Mines Ltd.	Northair Option	$20,000	16709
E226	Kidd Creek Mines Ltd.	Ecstall	$30,000	16711
E133	K-2 Resources Inc.	Pool Ck. (Spider Claim	$50,000	16724
E250	Leask, John M.	Bar	$5,000	16697
E202	Lightning Creek Mines Ltd.	Northern Gold	$40,000	16726
E208	Lightning Minerals Inc.	Goldbelt	$50,000	16728
E204	Magna Ventures Ltd.	Doc	$60,000	16708
E166	Manson Creek Resources Inc.	Mets	$70,000	16692
E67	Minnova Inc.	Maggie Option	$20,000	16739
E66	Minnova Inc.	Britannia Option	$22,800.60	16756
E65	Minnova Inc.	Twin	$60,000	16716
M2	Multinational Mining Inc.	Chappelle Gold	$40,000	16741
E99	Newjay Resources Ltd.	Master Ace	$20,000	16730
E84	Newmont Expl. of Cda Limited	New Moon	$60,000	16757
M5	Newmont Mines Limited	Similkameen	$85,000	16745
E143	Noranda Expl. Company,Limited	Banbury	$40,000	16746
E144	Noranda Expl. Company,Limited	L.H. Property	$20,000	16738
E110	Noranda Expl.Co.Ltd./Brenda	TAS	$50,000	16763
E36	Oliver Gold Corporation	Fairview	$40,000	16723
E129	Poschner, Michael	Sugar and Alice Creek	$30,000	16755
E11	Queenstake Resources Ltd.	Moyie River	$60,000	16706
M19	Quintette Coal Limited	Transfer/Grizzly/Perry	$100,000	COAL #739
E124	Rhyolite Res Inc/Bolivar Gold	Texada	$30,000	16702
E47	Rogac, A.J./MacDonald R.E.	Dome Slate/Cariboo	$5,000	16760
M6	Royal Scot Resources Ltd.	Summit Lake	$100,000	16768
E61	Southern Gold Resources Ltd.	Mad	$5,000	16713
E60	Southern Gold Resources Ltd.	Rocher Deboule	$18,891.29	16714
E59	Southern Gold Resources Ltd.	Cronin	$10,000	16721
E122	Southlands Mining Corporation	Frasergold	$60,000	16765
M13	Taurus Resources Ltd.	Taurus Gold Mine	$60,000	16777
M1	Teck Corporation	Beaverdell Mine	$110,000	16771
M23	The Continental Jade Ltd.	Ogden Mountain	$19,178.74	16737
E242	Tungco Resources Corporation	Waratah	$30,000	16720
E107	Vananda Gold Ltd.	Texada Island	$50,000	16749
E86	Welcome North Mines Ltd.	Trout	$20,000	16733
M8	Westar Mining Ltd.	1987 Greenhills Mine E	$90,000	COAL #735
E115	Western Canadian Mining Corp.	Gossan	$70,000	16727
E51	X-Cal Resources Ltd.	Snowbird	$50,000	16766

Table A4: Financial Assistance for Mineral Exploration (FAME) 1986-87

E47	Levon Resources	Congress	$100,000	15728
E114	Longreach Resources Ltd.	Franklin Camp	$25,000	15746
E169	Lumberton Mines Ltd.	Hellroaring Creek	$34,000	15760
E235	MacDonald (RE)/Rogac (AJ)	Slate	$5,000	15769
M21	Maclaren Forest Products	Bell Mine	$50,000	15711
Ell	Mt Calvery Resources Ltd.	Cariboo-Likely	$35,000	15716
E32	Mt Grant/Twin Eagle/Scorpion	Gold Mount	$39,000	15723
M3	Multinational Resources Inc.	Chappelle Au	$50,000	15701
E36	Newhawk Gold Mines Ltd.	Sulphurets	$100,000	15724
E87	Newmont Exploration of Canada	New Moon	$55,000	15741
E50	Normine Resources Ltd.	Pacific Eastern	$85,000	15730
E134	North American Metals Corp.	Bear-Totem	$100,000	15751
E38	Northair Mines Ltd.	Willa	$100,000	15726
E78	Placer Development Ltd.	Good Hope Resources	$35,000	15739
E214	Queenstake Resources Ltd.	Moyie River	$90,000	15766
E171	Queenstake Res/Haines Gypsum	O'Connor River Gypsu	$70,000	15761
M8	Quintette Coal Limited	Transfer/Mesa Ext.	$150,000	COAL #724
E67	Selco Div-BP Resources Canada	Seneca	$60,000	15734
E16	Signet Resources Inc.	Doratha Morton	$30,000	15720
E52	Skylark Resources Ltd.	Skylark Group	$80,000	15731
E73	Skyline Explorations	Reg	$100,000	15736
E159	Stryker Res/Freeport Res	Tsirku/Jarvis	$90,000	15758
M6	Teck Corportion	Beaverdell	$200,000	15704/15790
E138	Tenajon Silver Corp.	Cons. Silver Butte	$20,000	15752
E161	Trader Resource Corp	Yellow Giant	$100,000	15759
E48	Trifco Minerals Ltd.	Sovereign Talc Mine	$3,000	15729
E131	Utah Mines Ltd.	JRM	$35,000	15749
M14	Utah Mines Ltd.	Island Copper Mine	$150,000	15707
E133	Vananda Gold Ltd.	Texada Island	$25,000	15750
M20	Westar Mining Ltd.	High Volatile Coal	$150,000	COAL #730
E177	Westmin Resources Ltd.	Silbak Premier	$100,000	15762
E55	X-Cal Resources Ltd.	Snowbird	$10,000	15732

- The success of the FAME program is due entirely to the professional abilities, entrepreneurial spirit and dedication of the individuals and companies who participated in the program.

- FAME helped create a more favourable mineral investment climate in British Columbia. This climate assisted in diverting private sector exploration funds to the province from other jurisdictions.

The FAME program has met its objective of promoting mineral resource development in British Columbia. The further developments of FAME-supported projects will have a positive impact, in both the short and long terms, on the economy of the province.

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PART B

GEOLOGICAL DESCRIPTION OF PROPERTIES

PART B
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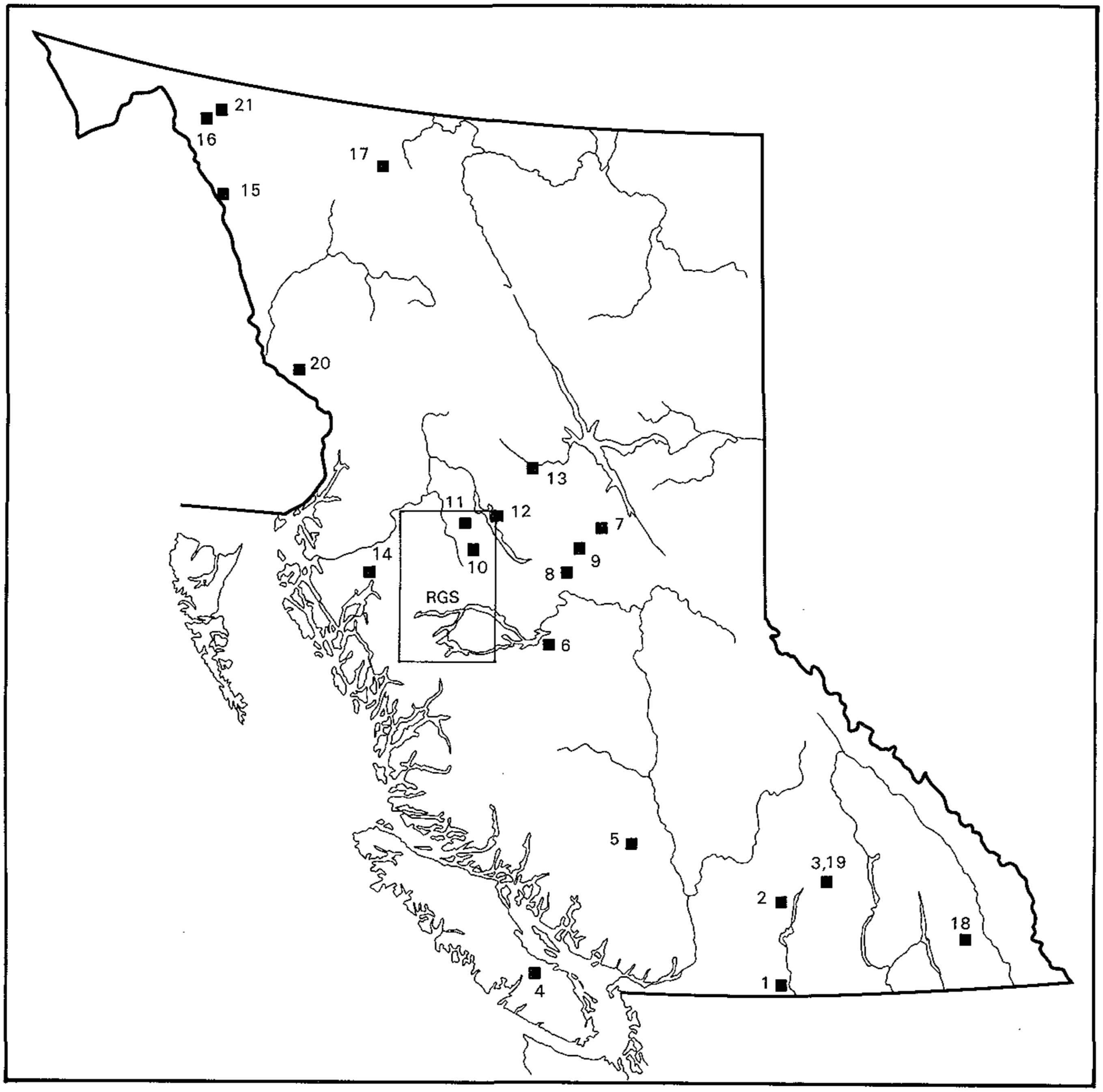

Figure B1. Index map of properties described in Part B.

METALS

FAIRVIEW MINE (Fig. B1, No. 1) **By R.E. Meyers**

LOCATION:	Lat. 49°12′ Long. 119°38′ (82E/4E) OSOYOOS MINING DIVISION. 6.5 kilometres northwest of Oliver and about 35 kilometres south of Penticton. Elevations on the property range from 670 metres in the southeast to 1460 metres in the northwest.
CLAIMS:	Crown Grants: AUGUST, BLACK DIAMOND, BULLER, CHATTY, COMET, EUREKA, EVENING STAR, FAIRVIEW, FLORA, HAIRSPRING, HALIGONIAN, JOHN FR., MANTON FR., MORNING STAR, NESS, OCEAN WAVE, ONTARIO, ORO BASANTE, RATTLER, SILVER CROWN, VIRGINIA, WESTERN GIRL, WESTERN HILL, WYNN FR. MGS Claims: WINDER 1-5, WINDER 6 FR., 7 FR., STEM 1-2.
ACCESS:	Approximately 6 kilometres by all-weather road west from Oliver, thence 1 kilometre via Fairview mine access road.
OWNERS:	Cominco Ltd., Oliver Gold Corporation.
OPERATOR:	OLIVER GOLD CORPORATION.
COMMODITIES:	Gold, silver.

DESCRIPTION:

GEOLOGICAL SETTING AND STYLE OF MINERALIZATION AT THE FAIRVIEW MINE

INTRODUCTION

The Fairview mine is part of an historical gold mining camp located 6 kilometres west of Oliver and about 300 kilometres east of Vancouver (Figure B2). The camp includes the Fairview, Stemwinder, Morning Star and several smaller properties, all of which are situated on a northwest-trending quartz-vein system that extends discontinuously for about 3 kilometres in strike length (Figure B3).

HISTORY

Gold exploration and mining in the area began in the late 1890s and continued intermittently until 1961 (Netolitzky, 1986). The earliest active period of development and production took place from 1895 to 1904 on the Stemwinder and Fairview properties by Dominion Consolidated Mines Ltd. In the 1930s and 1940s Fairview Amalgamated Gold Mines Ltd. and The Consolidated Mining and Smelting Company of Canada Ltd. (Cominco) respectively operated the Fairview mine, Cominco using the ore as flux for the Trail smelter until 1961. In the 1960s and again in the early 1980s Cominco carried out extensive exploration work that covered the Fairview, Stemwinder and Morning Star properties, ultimately concluding that the vein system was likely continuous between the Stemwinder and Fairview workings.

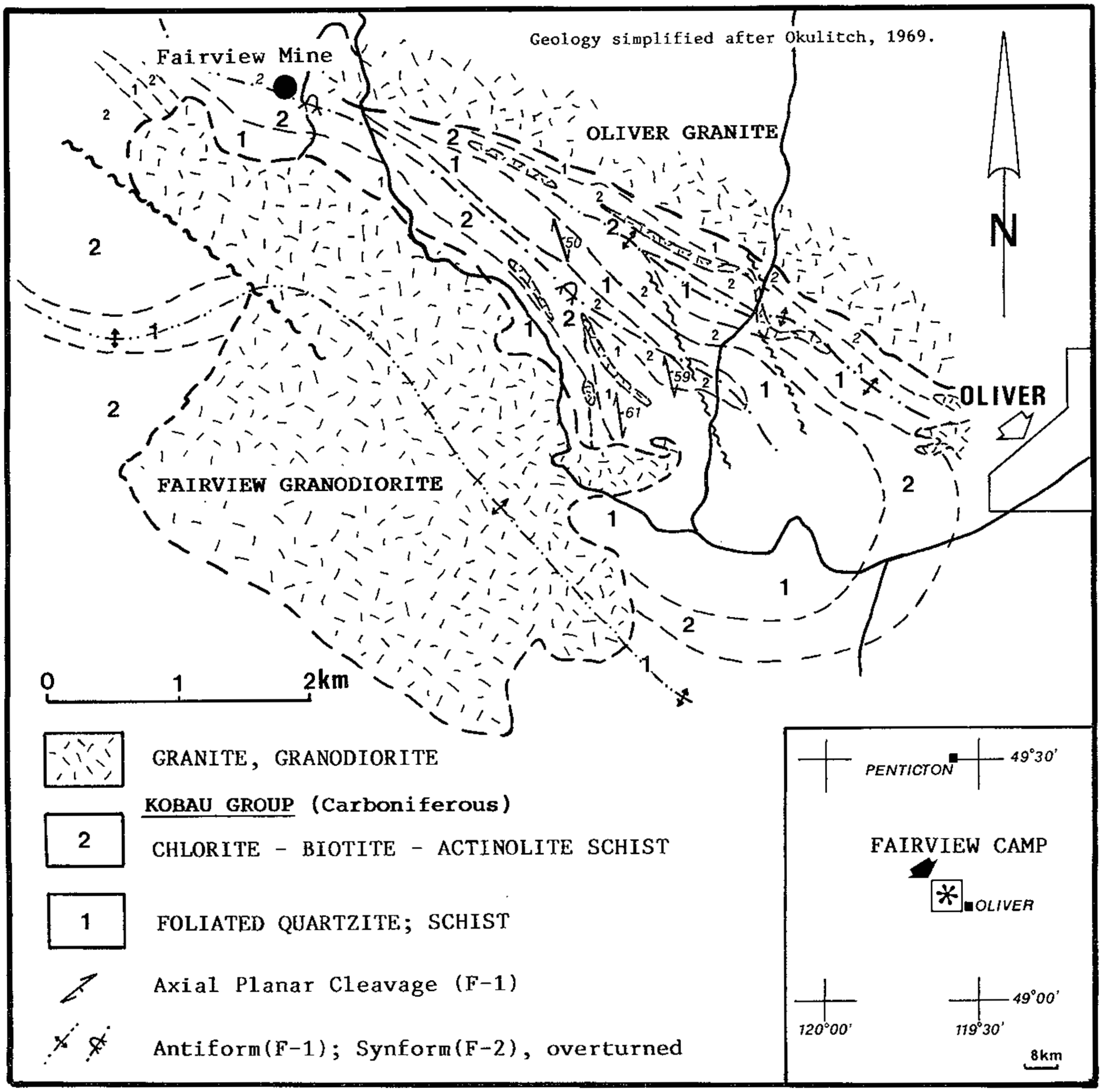

Figure B2. Regional geology of the Oliver area.

Total production from the camp is summarized as follows (Fletcher, 1986):

	Tonnes	Au (g/t)	Ag (g/t)
Fairview	440 000	3.84	47.99
Stemwinder	25 400	5.83	59.43
Morning Star	7 500	19.20	43.54
Total	472 900	4.19	48.53

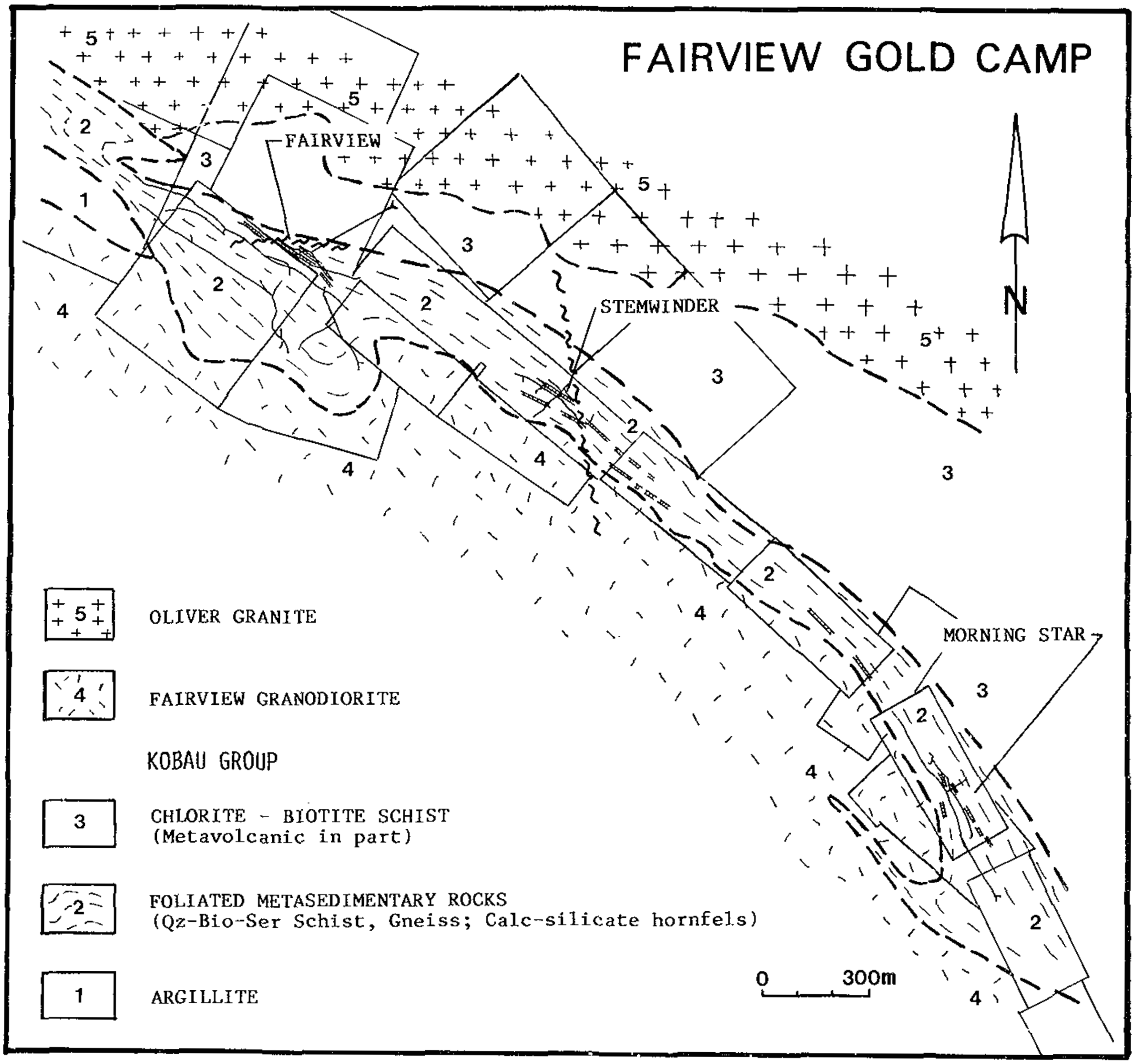

Figure B3. General geology of the Fairview gold camp. After Cockfield (1935).

CURRENT WORK

In early 1986 Oliver Gold Corporation optioned the Fairview and Morning Star properties from Cominco Ltd. and Highland Valley Resources optioned the Stemwinder property from Asarco Ltd. Since then, the two companies have independently carried out aggressive exploration on the Fairview and Stemwinder mines. Oliver Gold undertook a comprehensive surface and underground mapping, sampling and diamond-drilling program at Fairview, while Highland Valley Resources drove a 365-metre exploration adit from the Brown Bear claim to access the underground workings of the Stemwinder mine. Results at both sites have been encouraging and the two companies are continuing operations in 1988.

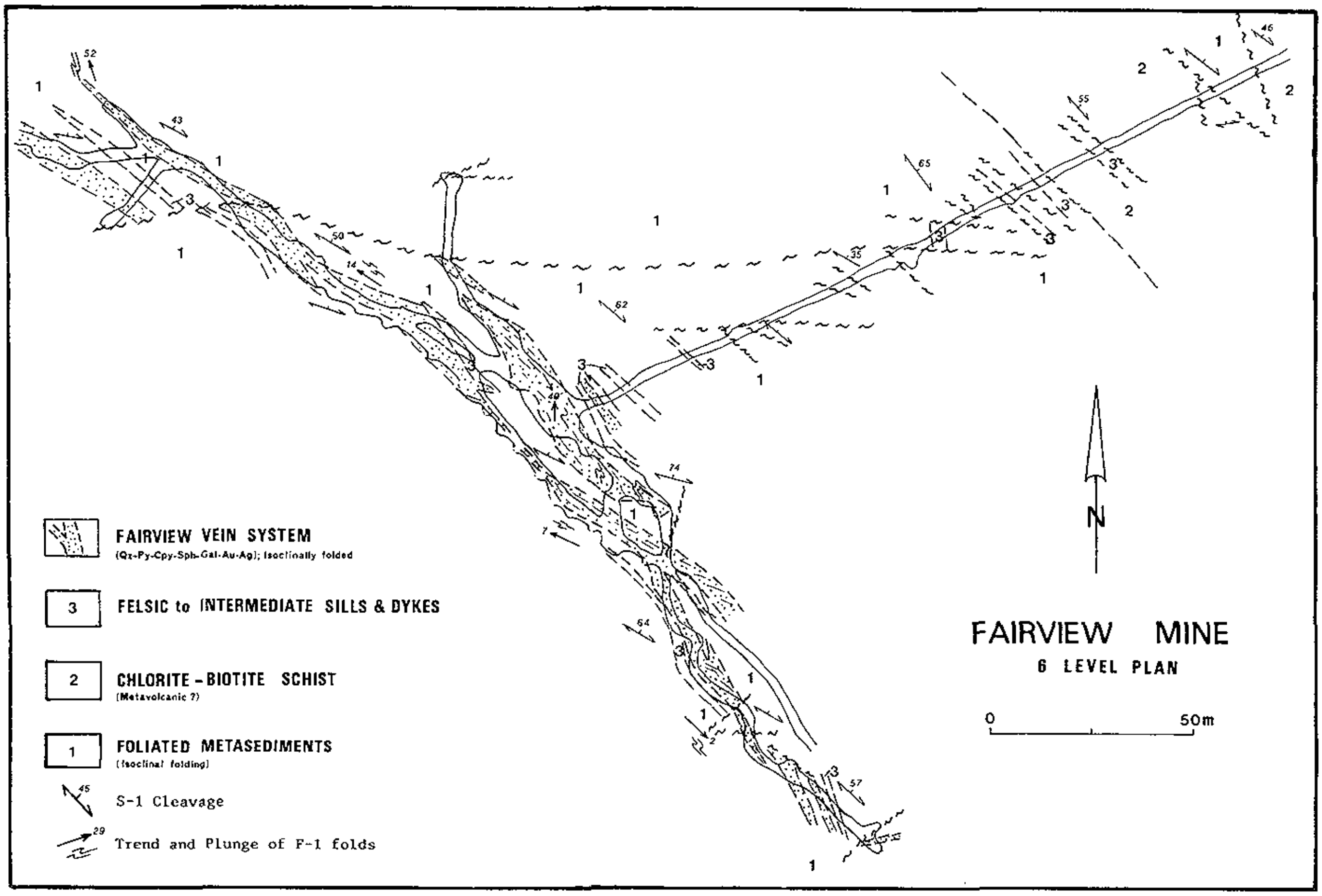

Figure B4. Fairview mine, Level 6 plan. Geology simplified from mapping by D. Mehner. Courtesy Oliver Gold Corporation.

GEOLOGICAL SETTING

The Fairview belt (Figure B2) is underlain by an elongate section of complexly deformed metasedimentary and metavolcanic rocks of the mid-Paleozoic Kobau Group (Cockfield, 1935; Bostock, 1940). The section is wedged between two Jura-Cretaceous intrusions, the Oliver granite to the north and the Fairview granodiorite to the south, dated at 160 Ma (rubidium-strontium) and 111 Ma (potassium-argon) respectively, although the younger age is suspect (White *et al.*, 1968; Sinclair *et al.*, 1984). The entire assemblage flanks the southwestern edge of the Shuswap-Monashee metamorphic complex and lies west of Tertiary extensional faults in the Okanagan valley (Tempelman-Kluit and Parkinson, 1986). Regional correlation and structural studies by Okulitch (1969, 1973) and others tentatively dated the Kobau as pre-Pennsylvanain, suggesting that it is roughly time-equivalent to the Permo-Carboniferous Anarchist Group. However, recent research and comparisons with other units of similar lithology in the region suggest that the assemblage may be part of an accreted oceanic or arc terrane and that some parts of the Kobau could be as young as Triassic (A.V. Okulitch, personal communication, 1988).

The Fairview mine sequence comprises foliated brownish and greenish grey impure micaceous quartzites and dark greyish green chloritic quartz-feldspar-mica schists of probable volcanic origin

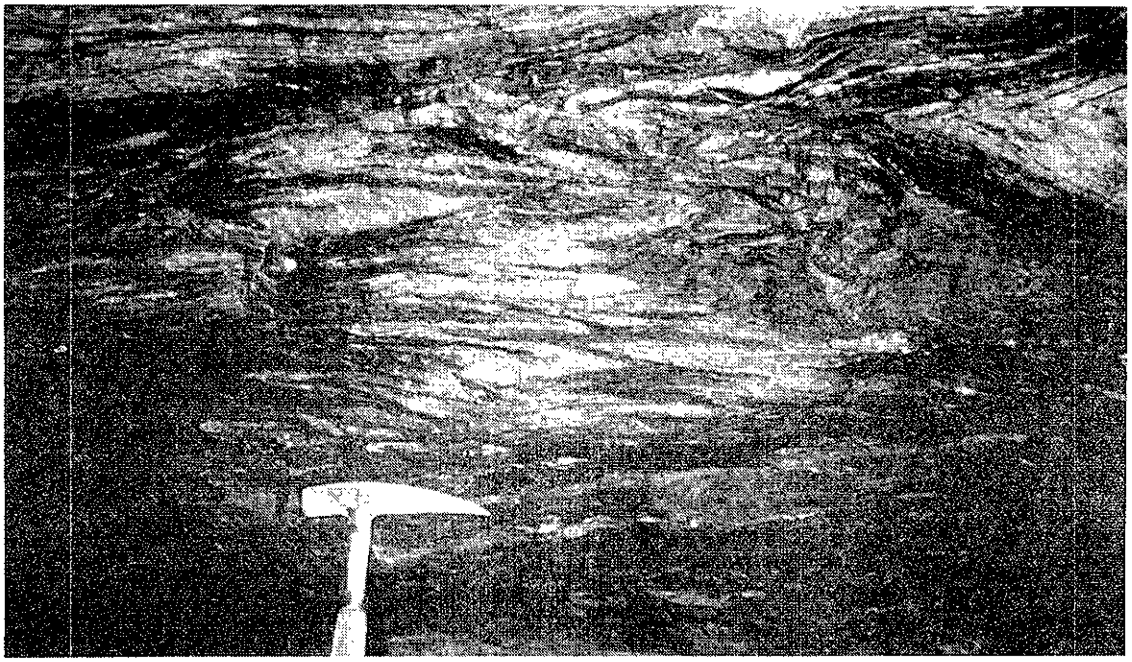

Plate B1. Isoclinally folded micaceous quartzites. White areas are folded intrafolial quartz veins.

(Figure B4). The sequence has undergone middle greenschist metamorphism, multi-phase folding (Plate B1; Okulitch, 1969) and is transected by minor felsic to intermediate dykes and sills. Subsequent brittle fracture produced normal and reverse faults and a complex system of joints and fractures.

The quartzites contain variable amounts of muscovite, biotite, carbonate, hornblende, feldspar and pyrite. S_1 cleavage planes are accentuated by the parallel orientation of micas, elongate strained quartz grains and microscopic bands of fine granular quartz. In some samples quartz annealing is evidenced by crudely formed triple junctions.

The chloritic schists or "greenstones" typically contain remnant sericitized and saussuritized plagioclase, chlorite, actinolite, calcite, quartz, remnant hornblende and minor epidote.

MINERALIZATION

Gold and silver mineralization occurs in a deformed system of milky grey and white sulphide-bearing quartz veins. Sulphides include pyrite, galena, sphalerite and chalcopyrite. The quartz veins are generally conformable to penetrative fabrics developed in the Kobau host rocks and display a variety of early ductile and later brittle deformation features. Tight to isoclinal folds (D_1), (Plates B2 and B3) are the earliest and correspond with a number of fold-related structures that include axial planar cleavage (S_1), mullion structures and boudinage (L_1), (Plate B4). At some localities, where the veins are dramatically thickened in fold hinges, precious metal bearing sulphides have been remobilized and concentrated in axial cleavage planes

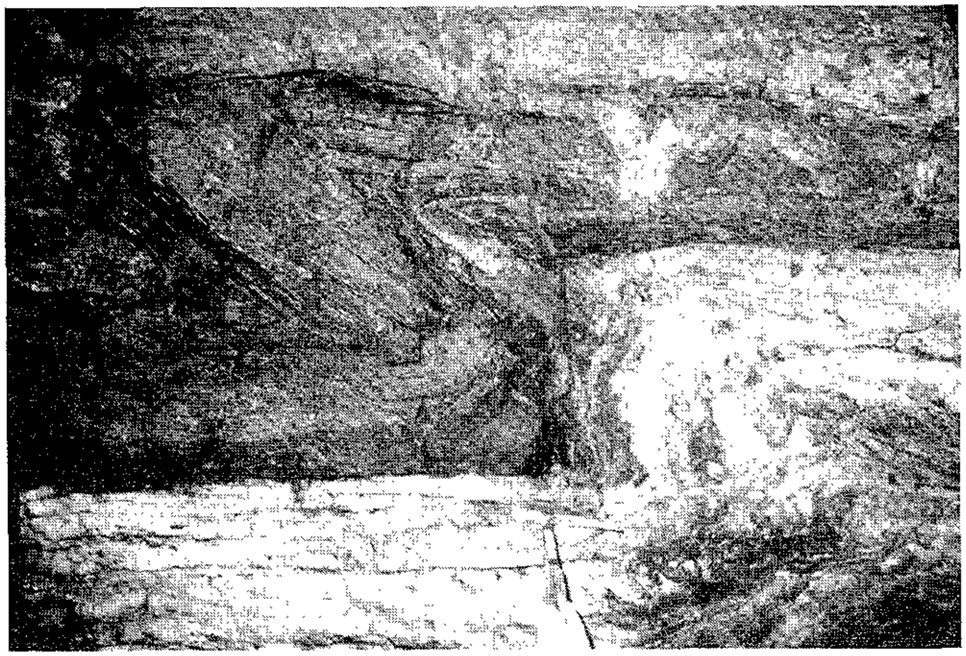

Plate B2. S-fold in quartz vein and metasediments. Micaceous minerals and sulphides are distributed along shear planes within the quartz veins. Entire vein is about 1.2 metres wide.

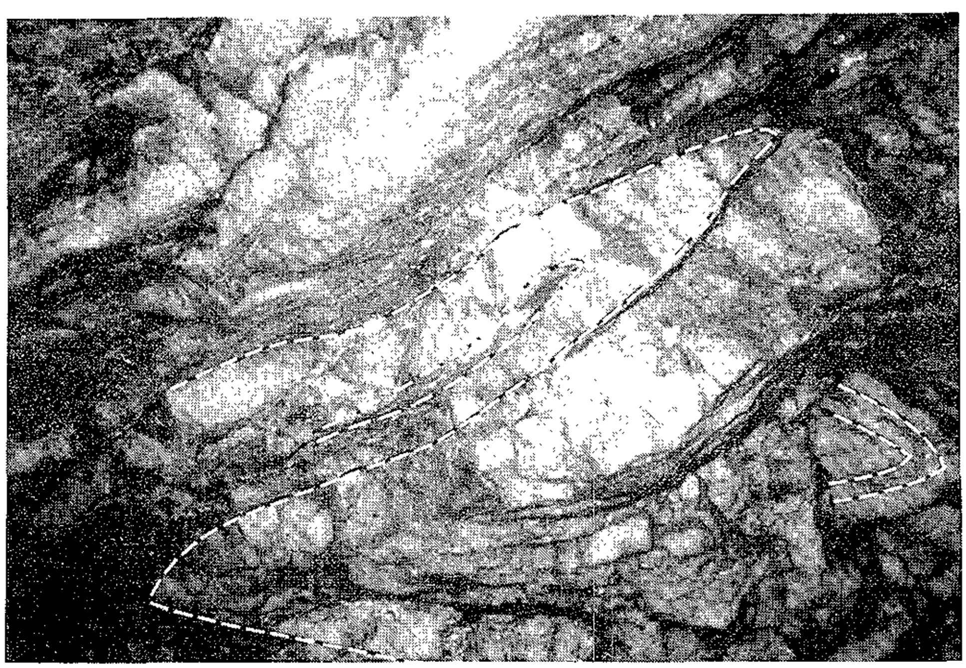

Plate B3. Isoclinally folded quartz vein. Obliquely oriented fold hinge at lower right is offset along a minor fault. Pencil magnet at upper right for scale.

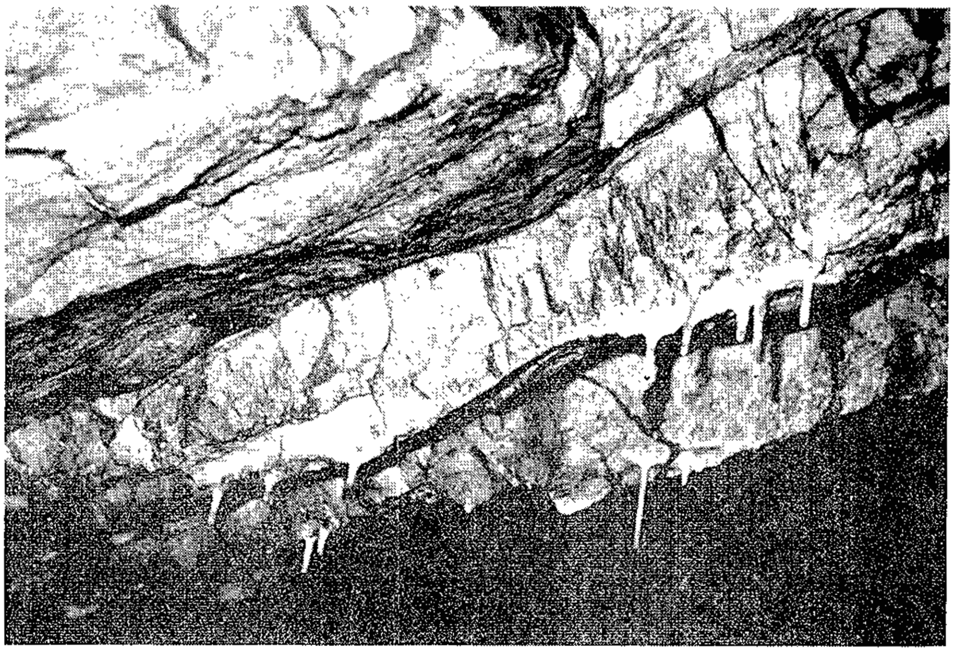

Plate B4. Boudinage in quartz vein. Note perpendicular cross-fractures.

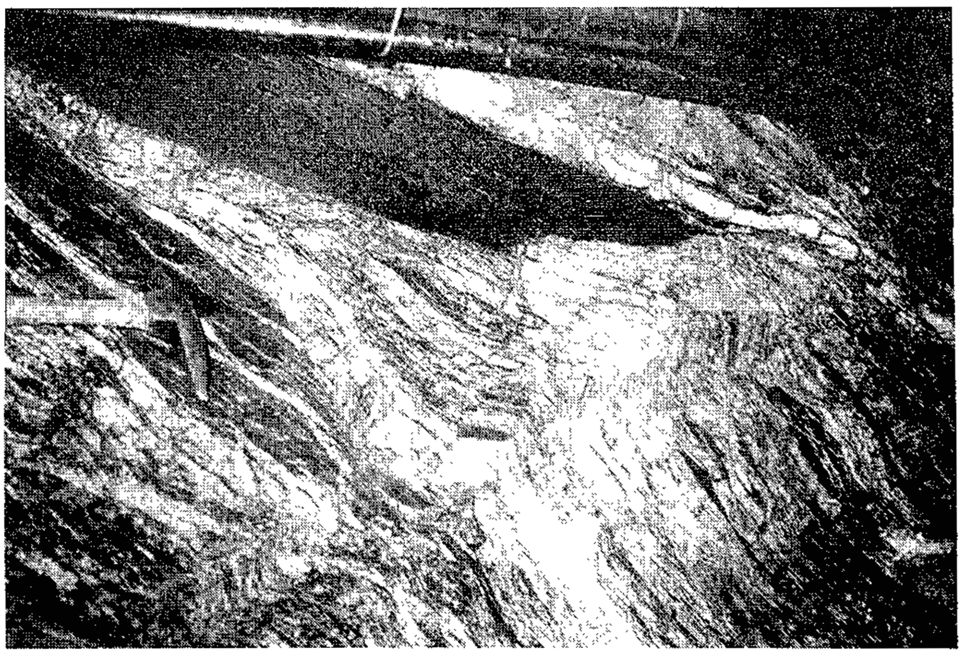

Plate B5. Kink folds in micaceous quartzites in the footwall of a fault zone. Light areas are intrafolial quartz veins.

Subsequent brittle deformation produced normal and reverse faults, minor kink folds in the metasediments (Plate B5) and a distinct cross-fracture cleavage in the ore-bearing quartz veins. Major segments of the vein system have been dissected and juxtaposed by faulting (Figure B4) and exploration has been further complicated by localized shears and offsets.

SUMMARY AND CONCLUSIONS

The geological setting and style of mineralization at the Fairview mine are comparable, in several repects, with the setting and characteristics of many Archean lode gold deposits. Archean deposits are considered to be syntectonic with plutonism, contemporaneous with ductile deformation, and mineralizing fluids are considered to be "metamorphic" in origin (Colvine *et al.*, 1984; Barley *et al.*, 1986).

The Fairview mine occurs in a deformed and metamorphosed mid-Paleozoic sedimentary-volcanic sequence, intruded by Jura-Cretaceous plutonic rocks and subsequently faulted and fractured during a period of brittle deformation. Textural and structural features suggest that, at least on a local scale, ore-bearing quartz veins have been tectonically thickened by folding and ore minerals have been remobilized into axial planar cleavage.

Therefore, as a guide to further exploration, a focus on carefully mapped and projected deformation features, particularly where structural thickening is involved, should be a primary factor in the development of additional ore reserves.

ACKNOWLEDGMENTS

I wish to acknowledge the cooperation and assistance of David Mehner, consultant for Oliver Gold Corporation, for the loan of company maps and underground plans, as well as for several guided tours and fruitful discussions of the geology of the property. D.K. Norris and A.V. Okulitch of the Geological Survey of Canada also offered helpful suggestions and insight into the structure and stratigraphy of the area. Lori Walters worked as my field and research assistant during the project.

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VERNON 82L

BRETT (Fig. B1, No. 2) **By R.E. Meyers**

LOCATION: Lat. 50°12′ Long. 119°39′ (82L/4E)
VERNON MINING DIVISION. 25 kilometres west of Vernon. Elevations on the property range from 1000 metres in Whiteman Creek valley to 1828 metres, with most exploration concentrated below 1550 metres.
CLAIMS: BRETT 1-4.
ACCESS: From Westside road on Okanagan Lake, via Whiteman Creek logging road for 19 kilometres.
OWNER: Huntington Resources Inc.
OPERATORS: HUNTINGTON RESOURCES INC., LACANA MINING CORPORATION.
COMMODITIES: Gold, silver.

DESCRIPTION:

HISTORY

Placer gold was discovered and exploited to a minor extent along Whiteman Creek in the 1890s and early 1900s. In the late 1930s small gold-silver veins were prospected and sporadic exploration continued from 1940 through to the 1970s. In 1983 C. Brett, a prospector from Kelowna, contracted a heavy minerals geochemical survey, which located gold anomalies that were staked as the Brett 1 and 2 claims.

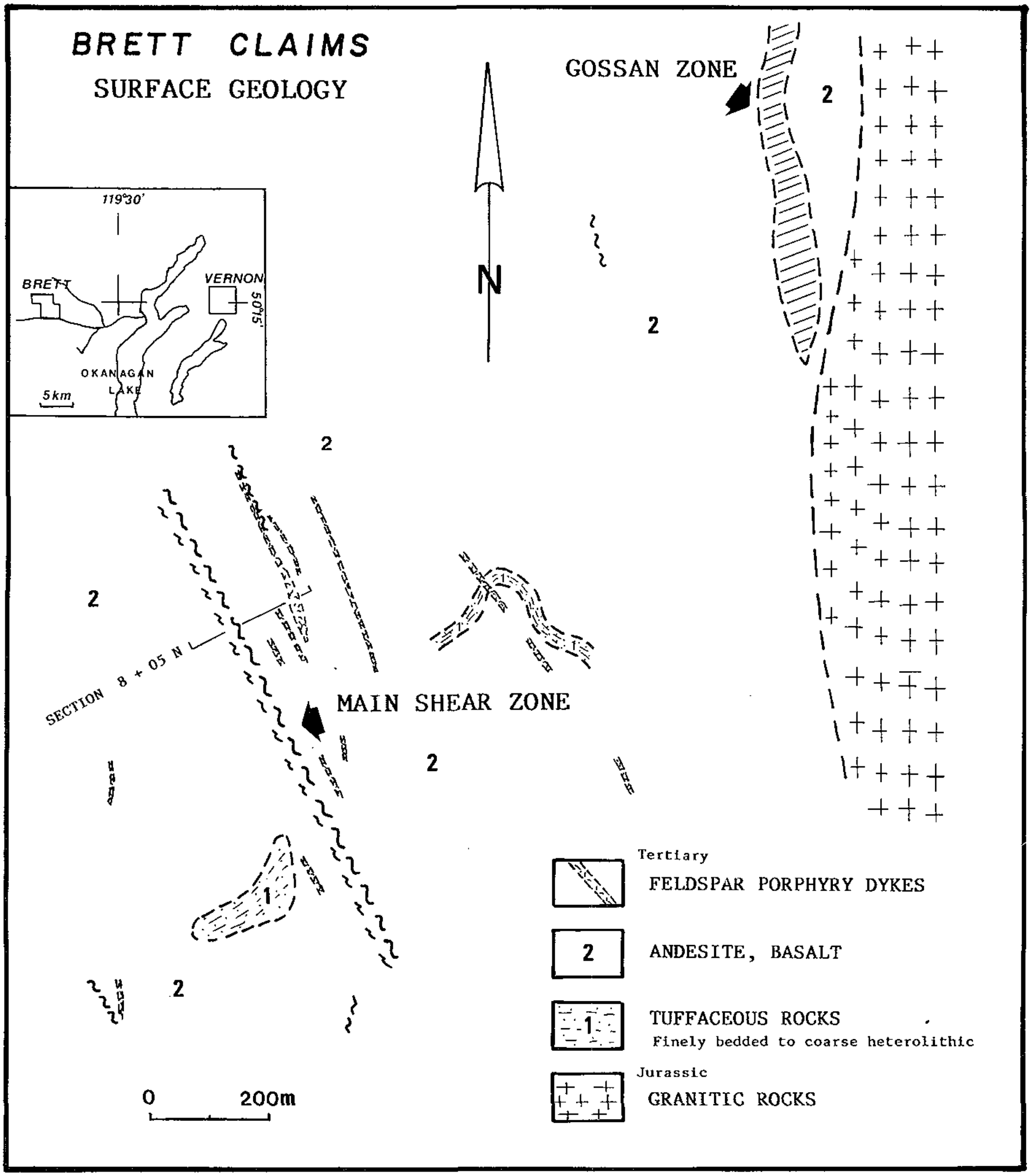

Figure B4. Surface geology of the south-central part of the Brett claims. Generalized from mapping by W. Gruenwald.

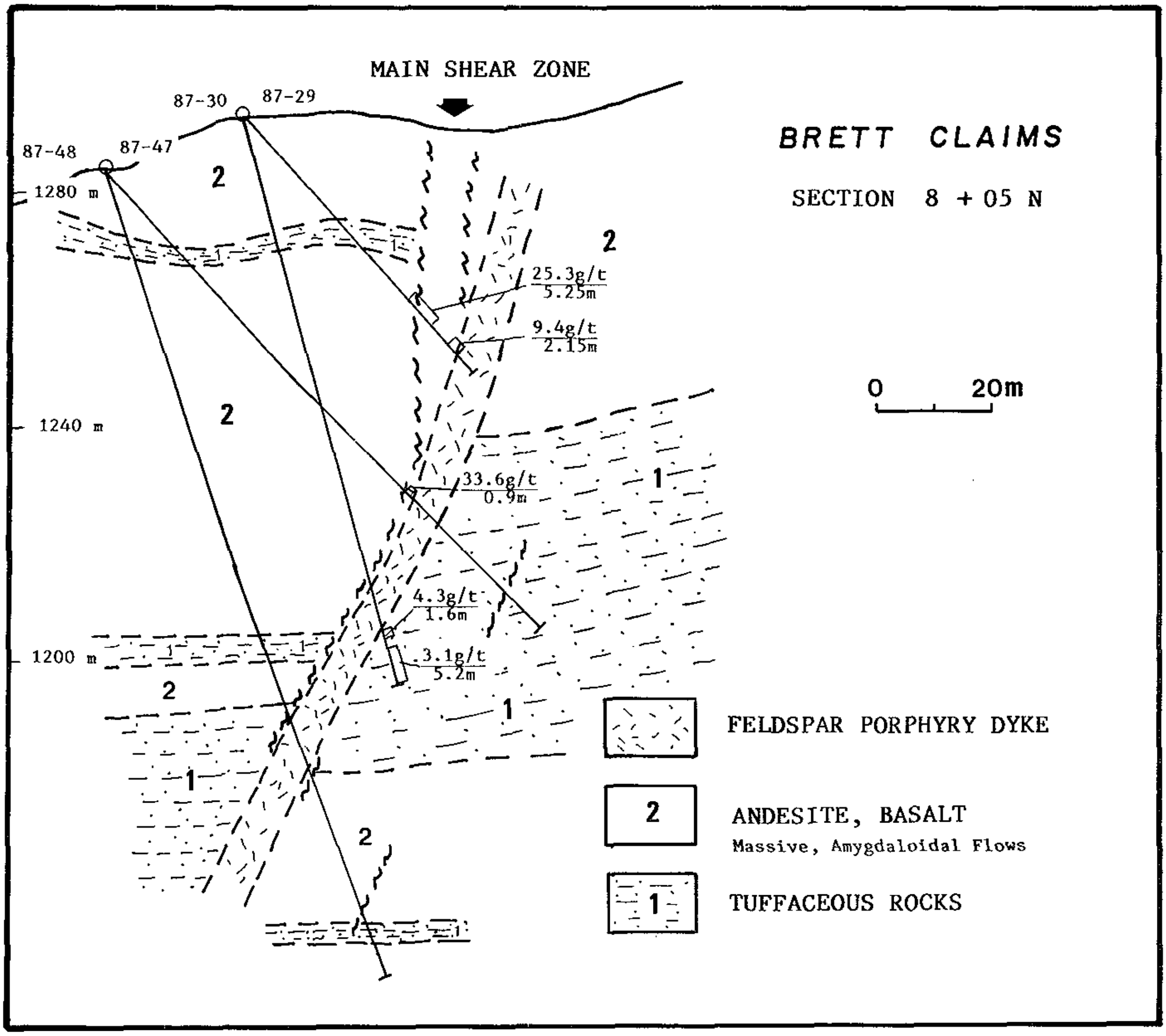

Figure B5. Cross-section through the Main Shear zone, line 8+05 N. Drill-hole data courtesy of Huntington Resources Inc. and Lacana Mining Corporation.

CURRENT WORK

In late 1983 Huntington Resources purchased the property and in 1984 undertook a systematic exploration program. Coincident gold, silver, arsenic and mercury anomalies were outlined in a detailed soil survey and gold and silver-bearing quartz veins were found during geological mapping and prospecting. Road construction and trenching began in 1985 and continued through to 1987. Exploration to date has focused primarily on two areas; the Main shear zone and the Gossan zone. Diamond drilling of these zones in 1986 (792 metres) and 1987 (2900 metres) has produced encouraging results, particularly on the Main shear zone, where most of the current exploration activity has been concentrated. The zone has been traced by drilling for 570 metres along strike and 250 metres down dip.

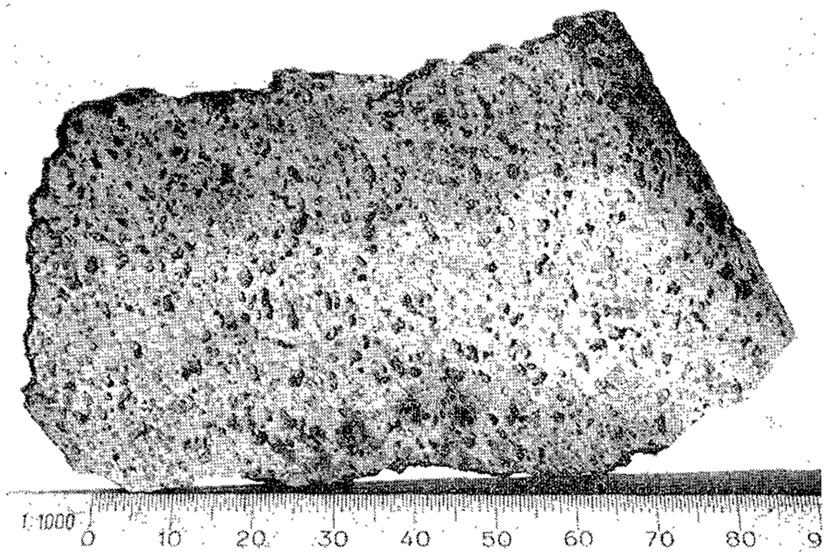

Plate B6. Amygdaloidal andesite. Most amygdules are lined with quartz and filled with chlorite, zeolite(?), quartz and minor hematite.

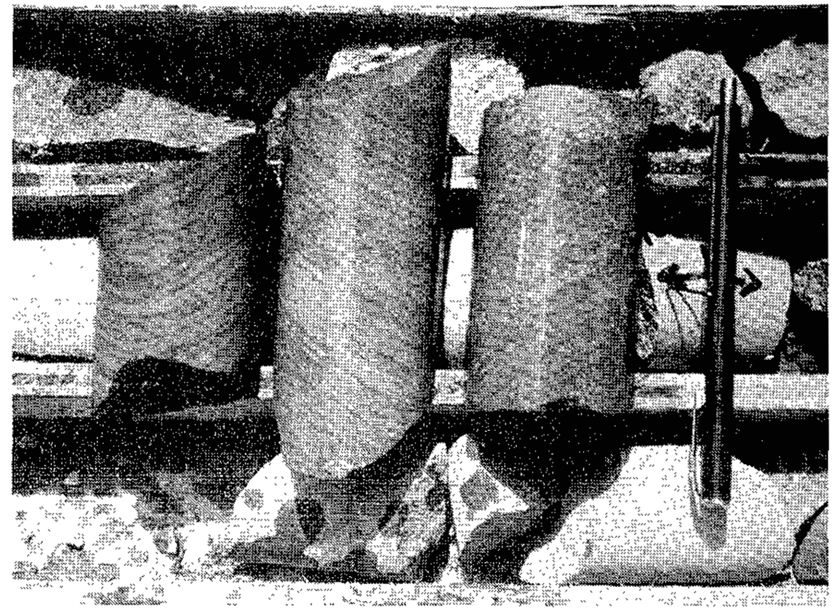

Plate B7. Laminated lapilli-ash tuff, DDH 87-1.

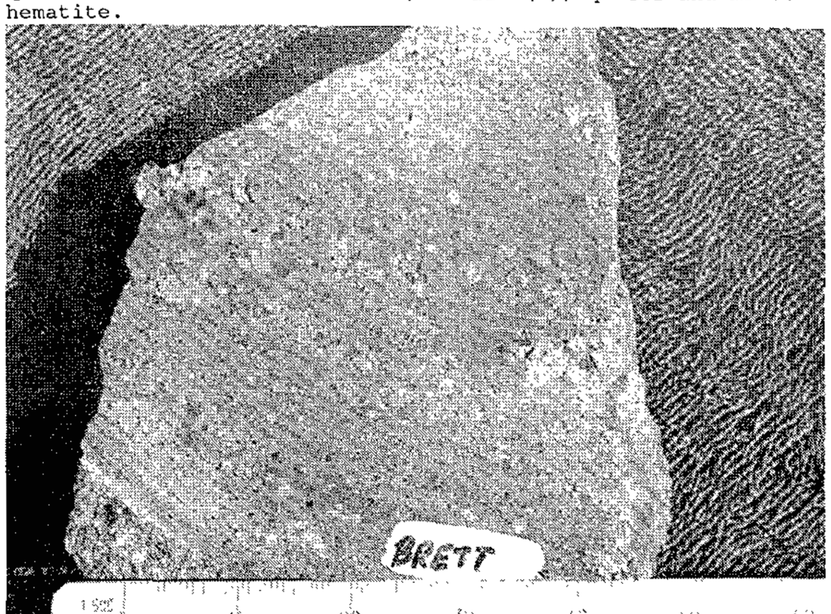

Plate B8. Coarse heterolithic lapilli tuff. Subangular and subrounded fragments vary from yellowish, siliceous (cherty), to hematite stained.

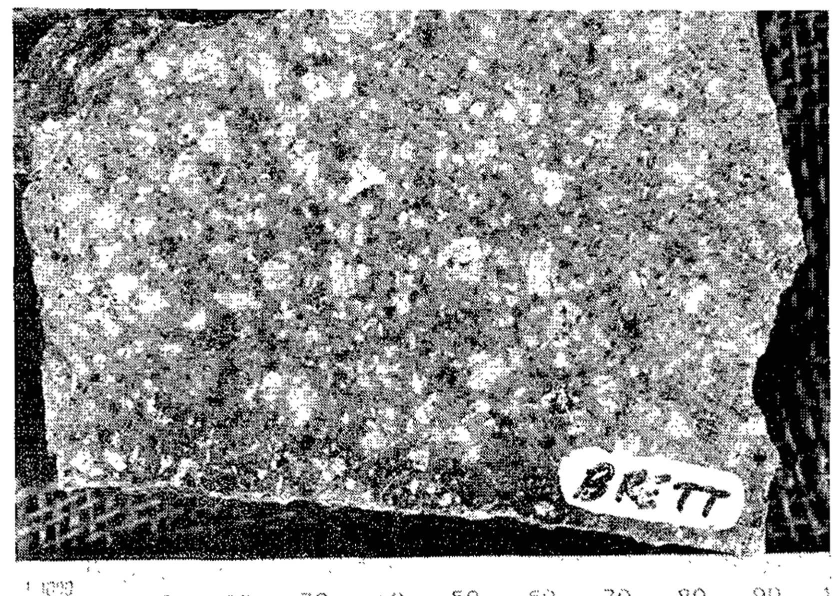

Plate B9. Feldspar porphyry from a dyke located 90 metres east of the Main shear zone. Dark minerals are mainly hornblende with minor magnetite.

GEOLOGICAL SETTING

The Brett claims are located near the northern end of the Pennask-Okanagan intrusive complex approximately 15 kilometres west of the northern end of Okanagan Lake (Figure B5). The eastern part of the property is underlain by Late Jurassic granitic rocks that are intruded by a Cretaceous to Tertiary syenite stock (Jones, 1959; Okulitch and Woodsworth, 1977; Okulitch, 1979). To the west, the property is underlain by relatively flat-lying basaltic and andesitic flows and volcaniclastic rocks of presumed Eocene age, which unconformably overlie the Mesozoic plutonic rocks. The volcanic rocks are believed to be a northerly extension of the Terrace Mountain Tertiary volcanic outlier mapped by Church (1980).

The volcanic sequence on the Brett claims consists of undeformed interbedded massive flows and volcaniclastic rocks of andesitic to basaltic composition. In general, they are differentially altered, faulted and crosscut by a number of feldspar porphyry dykes (Figure B5).

The massive lavas vary from relatively fresh-looking fine-grained, dark grey-green and weakly plagioclase porphyritic, to more strongly altered amygdaloidal flows (Plate B6). The non-amygdaloidal rocks have a very fine-grained microlitic groundmass, composed primarily of plagioclase and finely disseminated magnetite, with weak but pervasive carbonate and minor chlorite alteration. The more porous amygdaloidal flows are altered to a lighter grey-green colour, with a slightly coarser groundmass. Much of the groundmass magnetite is altered to hematite and relict mafic phenocrysts are replaced by chlorite, hematite and minor quartz.

The volcaniclastic rocks occur in four tuffaceous horizons recognized in drill core. Textures in the tuffs range from finely laminated beds (Plate B7) to coarser, more chaotic heterolithic sections (Plate B8) containing fragments up to 5 centimetres in size. Alteration in the tuffs varies from a weak to moderately developed chlorite-epidote-calcite-hematite assemblage to intense clay-silica alteration that occurs most prominently adjacent to shear zones and feldspar porphyry dykes.

The feldspar porphyry dykes occur at several localities on the property (Figure B5), as a north-northwest-trending swarm of intrusives which appear to have been emplaced along pre-existing shears or fault structures, thereby serving as a guide to locating potential exploration targets. Typically the dykes contain medium to coarse plagioclase and hornblende phenocrysts in a fine-grained microlitic groundmass of plagioclase, magnetite and minor amethystine quartz (Plate B9). They range in width from less than 1 metre to 15 metres and some dykes display alteration features similar to the adjacent volcanic rocks, although usually less intense.

MINERALIZATION

Epithermal-style gold-silver mineralization has been identified at two localities on the Brett property. The Gossan zone,

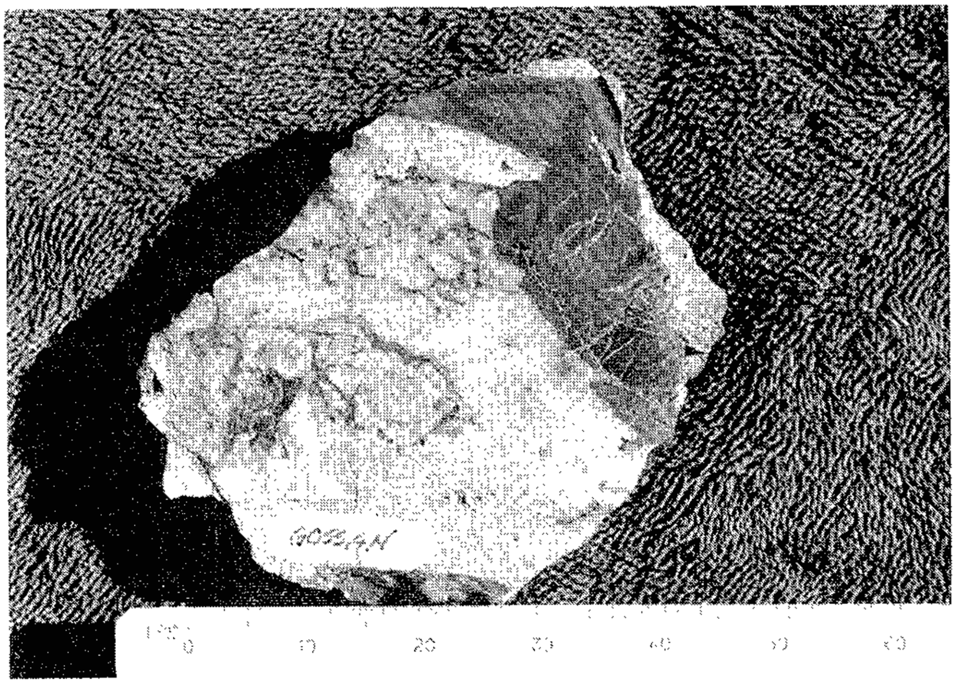

Plate B10. Silica-flooded breccia from the Gossan zone. Subangular andesitic and basaltic fragments are intensely silicified.

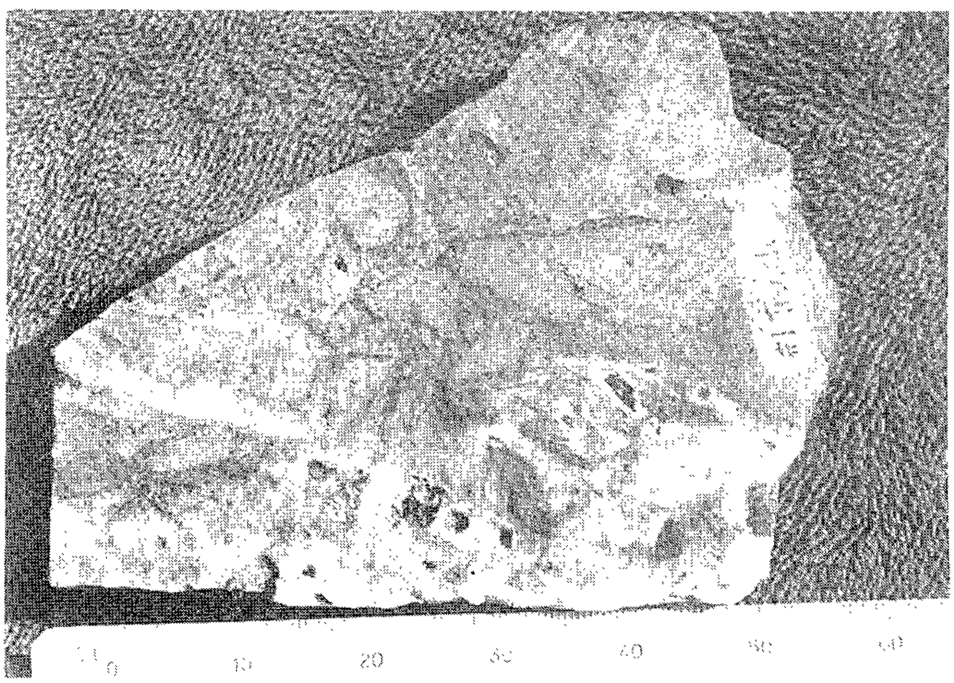

Plate B11. Stockwork quartz veining from an offshoot of the Main shear zone (Trench No.1). Veins have vuggy and cockscomb textures. Wallrock is lapilli-ash tuff.

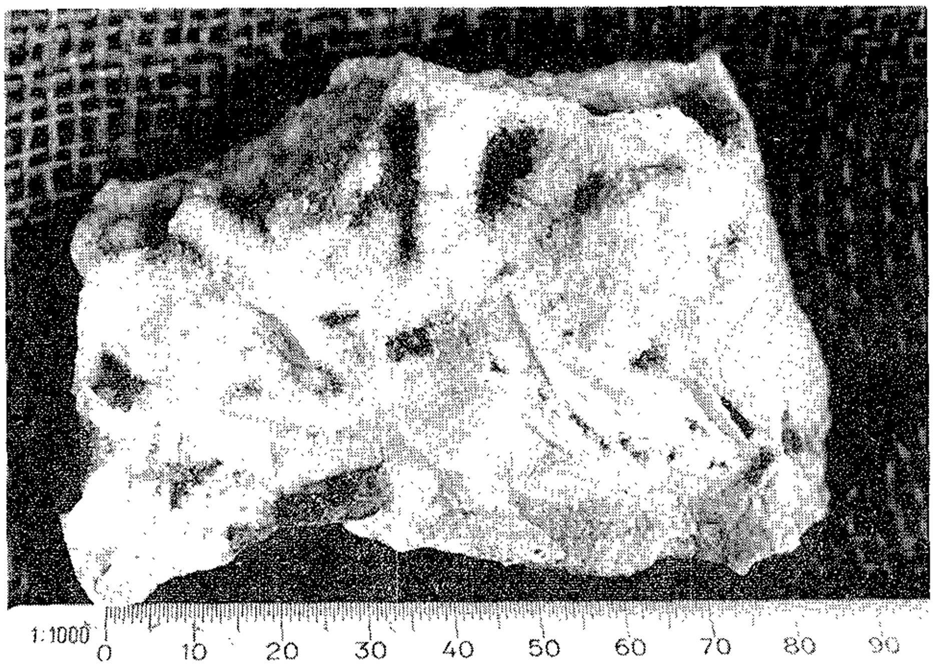

Plate B12. Bladed and drusy quartz vein material from the "RW" trench, an offshoot of the Main shear zone.

which is characterized principally by brecciation and silicification, and the Main shear zone, a fault or shear-controlled quartz vein system.

The Gossan zone lies near the contact with the granitic intrusive complex. It is a broad, northerly trending, rusty oxidized and silicified zone of brecciated volcanic rocks, roughly 50 metres wide and 500 metres in length. The rocks are typically yellowish grey and silica flooded with local drusy cavities and stockwork veining. Breccia fragments are angular to subangular and intensely altered to the extent that original volcanic textures, such as amygdules and phenocrysts, are only weakly discernible (Plate B10).

Limited diamond drilling on the zone has produced only modestly encouraging gold values. However, the size and intensity of silicification in the zone suggests that it was a major conduit for epithermal fluids and it is reasonable to assume that significant untested potential remains.

The Main shear zone lies about 1 kilometre southwest of the Gossan zone. It has been traced by trenching and drilling from about 1370 metres elevation to below 1260 metres, with an overall strike length of 570 metres. The zone dips steeply to the west (80 to 85 degrees) and is considered to be open at both ends and at depth. Along the structure, wallrocks are strongly fractured and brecciated to form an appreciable amount of crumbly yellowish fault gouge. Intense clay and silica alteration is associated with a stockwork of bladed and vuggy quartz veins (Plates B11 and B12) that have been rebrecciated in many areas. Adjacent rocks are discoloured by propylitic bleaching and limonite staining.

Visible gold, usually in the form of electrum, has been found in several trenches along the zone, in association with pyrite together with minor galena and argentite. Size fraction analyses indicate that the metal varies from coarse to very fine. At one locality a dendritic lattic texture of wire gold has been collected.

Diamond-drilling information indicates that mineralization is most widely developed where the more porous amygdaloidal and tuffaceous rocks are transected by the Main shear structure. However, Hole 87-29 (Figure B6), now referred to as the "discovery hole", has returned one of the best intersections to date and lies between tuff horizons. The planned 1988 program is intended to continue with fill-in drilling on the Main shear zone and to test anomalies outlined in 1987.

ACKNOWLEDGMENTS

I wish to acknowledge the cooperation and assistance of Werner Gruenwald, consultant for Huntington Resources Inc. Information in this report is derived from several property visits, plus volunteered company maps and data courtesy of Huntington and Lacana.

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LUMBY PROJECT (CHAPUT) (Fig. B1, No.3) **By R.E. Meyers**

LOCATION:	Lat. 50°16′ Long. 118°56′ (82L/7W) VERNON MINING DIVISION. Immediately northeast of Lumby, 28 kilometres east of Vernon. Elevations range from 490 metres in Bessette Creek valley to 950 metres at the summit of Saddle Mountain.
CLAIMS:	CHAPUT 1-26, B.S. 1-2, B.S. 4-5, D.K. 1, P.S. 2-7, QUIN.
ACCESS:	Via mine and logging roads from Highway 6.
OWNER/OPERATOR:	THE QUINTO MINING CORPORATION.
COMMODITIES:	Plateau shear zone: gold, silver. Chaput mine: silver, lead, zinc.

DESCRIPTION:

HISTORY

Pre-1960 information on the Lumby (Chaput) property is sketchy at best. Prospecting and hand mining were reportedly carried out by local residents in the early 1900s. During logging operations (Chaput Logging Co.) in the 1960s silver-lead-zinc veins were exposed and in 1968 F.K. Explorations began underground development and built a 50 tonne per day mill. Between 1968 and 1970 approximately 1500 tonnes of ore were shipped to the Trail smelter. In 1971 Alberta Gypsum Ltd. purchased the property and carried out underground exploration. The operation was then acquired by Coast Interior Ventures (1974-78) which increased the mill capacity to 150 tonnes per day. Operations ceased in 1981, likely due to lack of reserves. Estimates of more than 20 000 tonnes have been made for total production, however, detailed production records have not been published.

CURRENT WORK

The Quinto Mining Corporation purchased the Chaput property in 1983 and expanded it with the addition of the B.S., P.S., D.K. and Quin claims. Initially a trenching program, undertaken to test geophysical and geochemical anomalies, exposed brecciated quartz-vein mineralization near the top of Saddle Mountain, which was subsequently named the Plateau shear zone. Encouraging sample results prompted the company to undertake a limited drilling program in 1985, consisting of 10 reverse-circulation-drill holes and one diamond-drill hole. A subeconomic zone 125 metres in strike length and 56 metres down dip was outlined. Later in 1985 an additional 1396 metres of drilling in 13 holes was completed. In 1986 the property was mapped in detail (1:2000), VLF-EM and magnetometer surveys were carried out and 2700 metres were drilled in 22 NQ diamond-drill holes. Early in 1987 the company filed a Letter of Intent to initiate a mining program with the Mine Development Steering Committee. Subsequently, continued exploration has included an additional 32 reverse-circulation-drill holes and 7 diamond-drill holes (3030 metres), together with further VLF-EM, magnetometer and geochemical surveys, and metallurgical testing. Prefeasibility studies have outlined two mineralized zones (Hangingwall and Footwall zones) within the Plateau shear zone. Tonnage and grade calculations applying

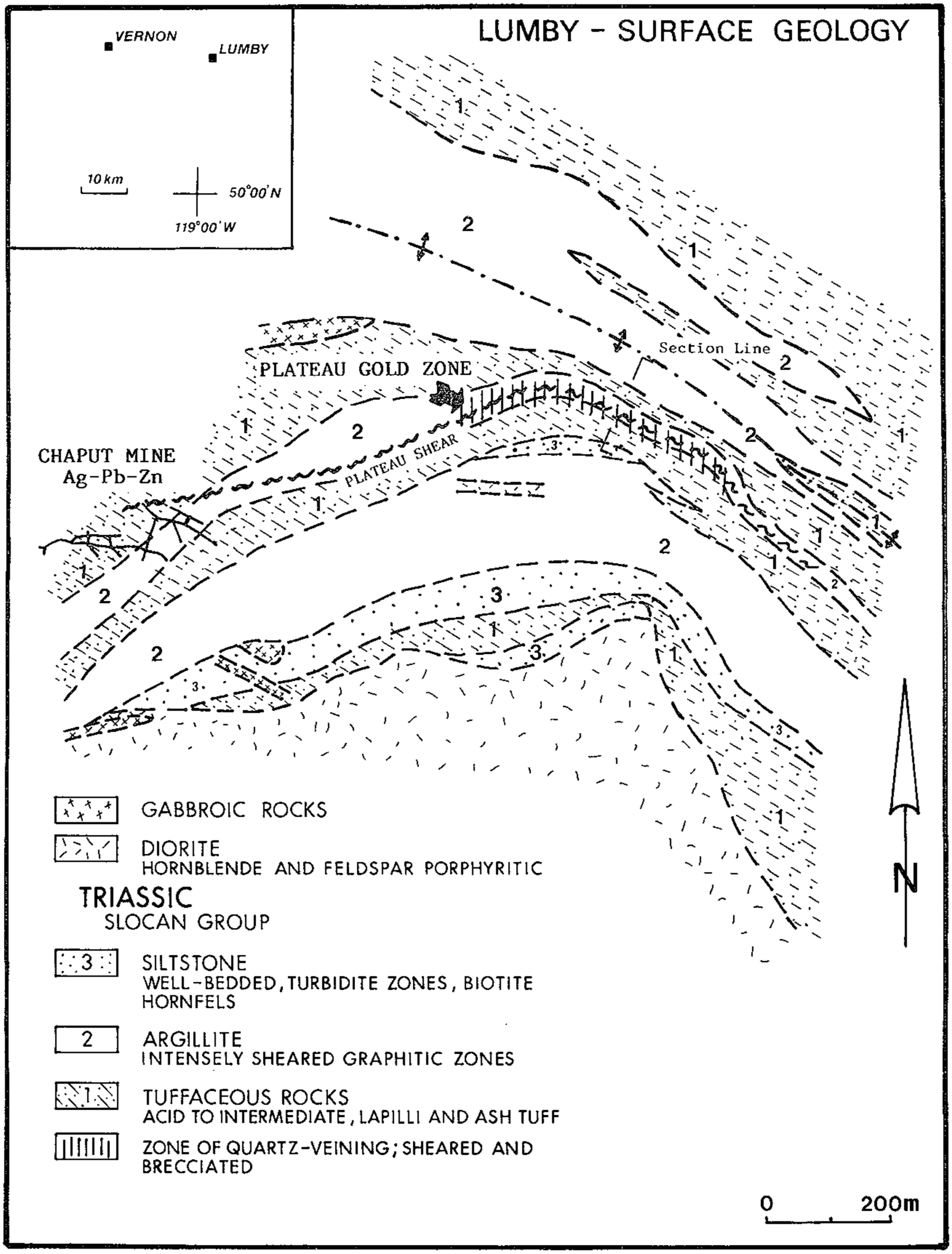

Figure B7. Surface geology of the Lumby (Chaput) project on Saddle Mountain, modified from mapping by D.L. Kuran, The Quinto Mining Corporation.

cut-off grades of 2.4 grams per tonne gold and 1.71 grams per tonne gold are tabled below:

	Cut-off (g/t)	tonnes	Au (g/t)
A	2.4	255 480	4.25
B	1.71	290 270	3.98

The project continues with plans to drive an exploration adit along the hangingwall to obtain a 10 000 tonne bulk sample in 1988.

GEOLOGICAL SETTING

The Lumby property is underlain by sedimentary and volcanic rocks of the Sicamous Formation, a part of the Upper Triassic Slocan Assemblage (Okulitch, 1979). Regionally, the package is correlative with the Nicola Group to the west (Wheeler, 1987). At Lumby, the Sicamous rocks include argillite, siltstone, sericitic and chloritic tuff and minor phyllite (Figure B7). The sedimentary-volcanic sequence is well bedded, gently folded about a northwest-trending antiformal axis and crosscut by minor high-angle normal faults. A small granodiorite stock of Cretaceous age (Okulitch, *op. cit.*) intrudes the package and biotite hornfels is weakly developed in the wallrocks. The Plateau shear zone is a major west-trending fault which dips about 48 degrees to the south (Figure B8) and transects the central part of the claim group. It has been the primary focus of exploration since 1983.

MINERALIZATION

Precious metals mineralization is known in two areas on the property; the Chaput mine zone and the Plateau shear zone (Figure B8). Both zones are spatially related to the same structure.

In the Chaput mine at the western end of the shear, silver-lead-zinc mineralization is associated with a system of quartz-sulphide veins arranged in a step-like pattern. The sulphides are fine to medium grained, intergrown with milky white and grey quartz, and include galena, sphalerite, pyrite, tetrahedrite, pyrrhotite, chalcopyrite and argentite (Plate B13). Chlorite, sericite and clay minerals are the typical wallrock alteration minerals. Most mineralization in the Chaput zone is reported to occur below 600 metres elevation.

Gold mineralization occurs in the Plateau shear zone about 600 metres east of the Chaput zone and generally lies above 700 metres elevation. The zone ranges from 5 to 20 metres in width, with the enclosed quartz veins having up to about 5 metres aggregate width. In most areas within the zone quartz veins are intensely sheared and brecciated (Plate B14). Gold is associated with disseminated to locally massive pyrite, minor pyrrhotite and chalcopyrite. Sphalerite and galena are generally rare, but carry sporadic silver values. In many parts of the zone the breccia matrix contains a significant amount of carbonaceous (graphitic) material, where many of the highest gold values have been reported.

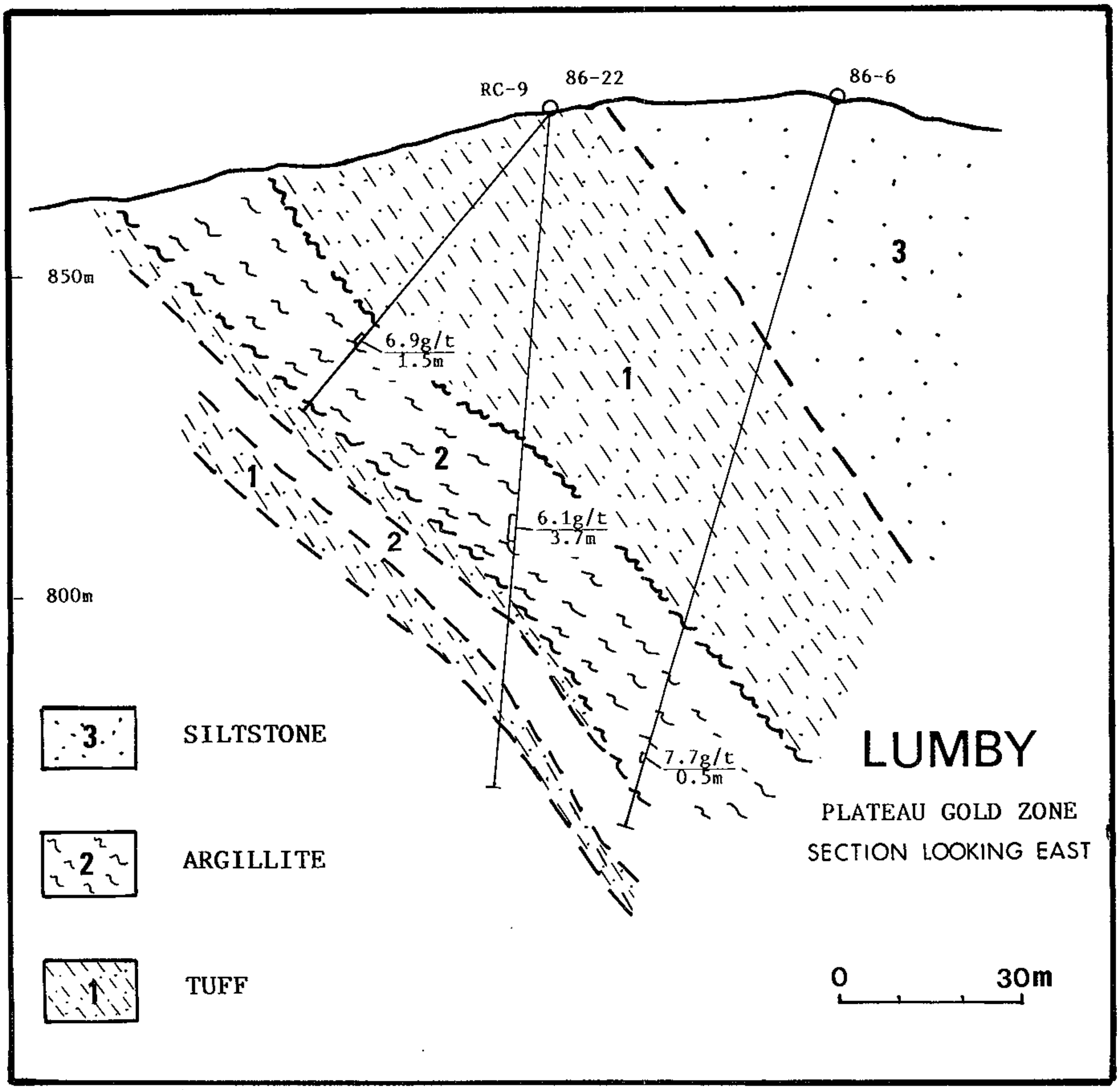

Figure B8. Simplified cross-section through the Plateau gold zone.

ACKNOWLEDGMENTS

I wish to thank D.L. Kuran, project geologist with The Quinto Mining Corporation for property tours, the use of company data and fruitful comments on the geology of the property.

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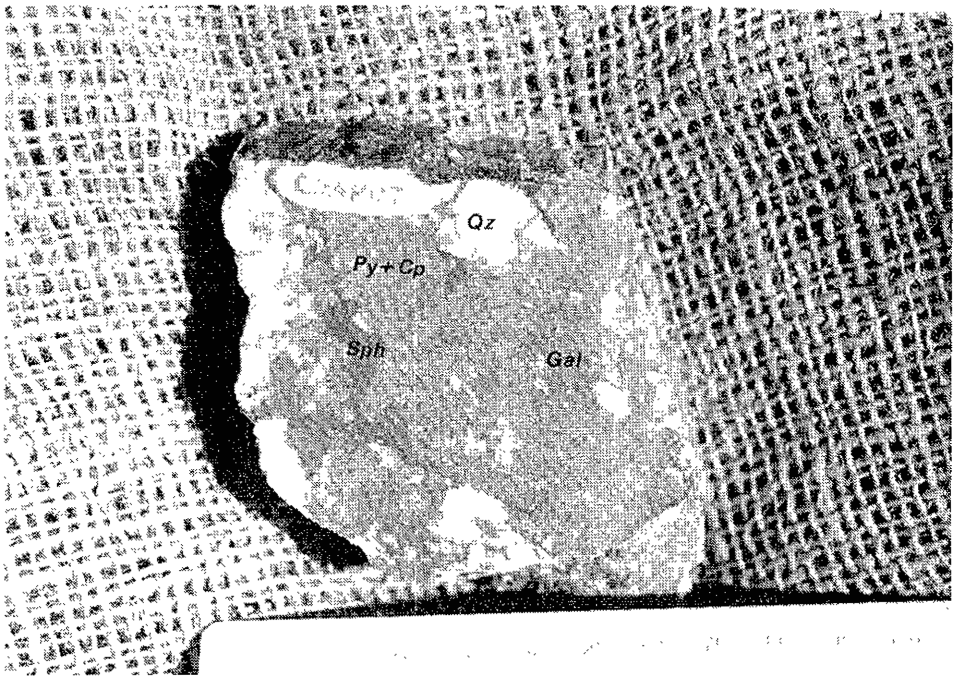

Plate B13. Sulphide mineralization from the Chaput mine quartz vein system. Sulphides include galena (Gal), sphalerite (Sph), and a fine-grained mixture of pyrite (Py) and chalcopyrite (Cp).

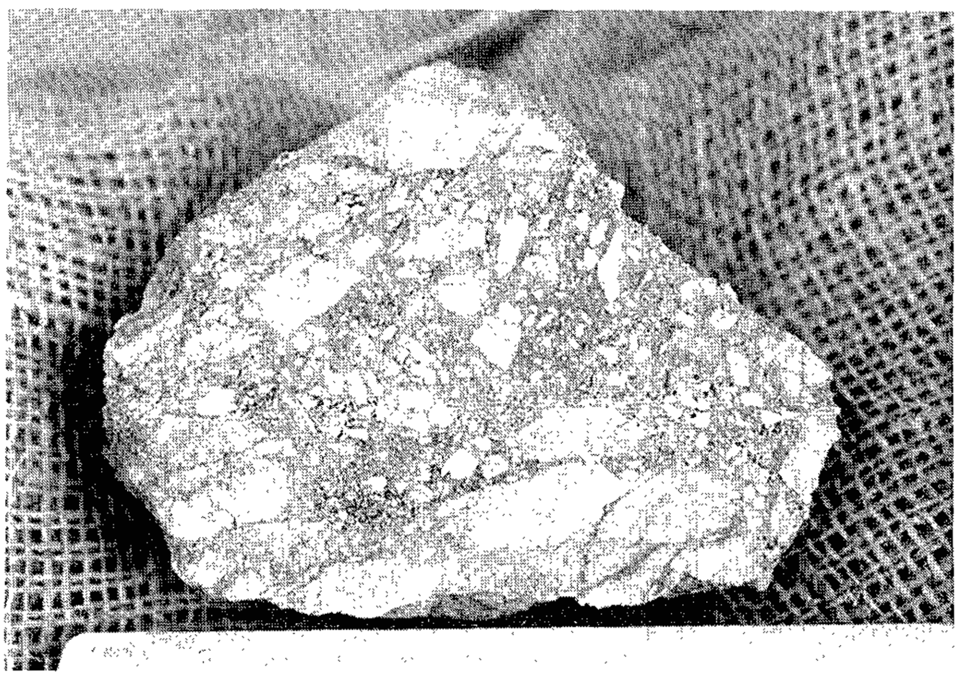

Plate B14. Plateau gold zone mineralization. Angular quartz (vein) clasts in a matrix of finer fragmental quartz, limonite, minor pyrite, clay and carbonaceous material.

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DEBBIE **By N.W.D. Massey, T.G. Schroeter and W.J. McMillan**
(Fig. B1, No. 4)

LOCATION: Lat. $49^{o}13'$ Long. $124^{o}39'$ (92F/2E)
ALBERNI MINING DIVISION. About 16 kilometres south-east of Port Alberni. The area being explored extends southward along Yellows Creek from the confluence with Cameron River in the area of the old China Creek - Debbie - Thistle mine.

CLAIMS: DEBBIE 1-3, LUCY 1-3, LINDA 1-2, YELLOW, JENNY and others.

ACCESS: The property is reached by following the Cameron Main and Yellow Creek Main logging roads to Yellows Creek, then a rough four-wheel-drive road up the creek.

OWNERS: Westmin Resources Limited, Nexus Resource Corporation, Angle Resources Ltd.

OPERATOR: WESTMIN RESOURCES LIMITED.

COMMODITY: Gold.

DESCRIPTION:

REGIONAL SETTING

The Debbie property straddles the northwestern termination of the Cowichan uplift, one of a series of northwest-plunging geanticlinal culminations that make up the tectonic fabric of Vancouver Island. The Cowichan uplift is cored by volcanics and sediments of the Paleozoic Sicker Group and rimmed by late Triassic basalts of the Karmutsen Formation. Granodiorites of the middle Jurassic Island intrusions intrude earlier suites. Clastic sediments of the late Cretaceous Nanaimo Group unconformably overlie all older rocks and have been intruded in turn by Tertiary porphyry dykes and stocks.

The uplift has been cut and disrupted by a system of regional west-northwest-trending contractional faults such as the Cameron River - Fulford fault and Cowichan Lake faults. Where exposed at the surface, these are high-angle reverse faults but at depth they flatten and become listric (Sutherland Brown and Yorath, 1985). They generally place older rocks over younger and are interpreted to be thrust faults. Displacements along the faults are uncertain but probably small - of the order of 1 to 10 kilometres. Consequently, the essential integrity of the Cowichan uplift is maintained. Movements were probably directed to the west-southwest, although slickensides on fault planes indicate that the latest movement was horizontal and westerly directed. Several vertical north to north-northeast-trending crossfaults, such as the Yellows Creek - Mineral Creek fault, offset the contractional faults. These are probably west-side-down normal faults though some strike-slip motion may also have occurred. The age of faulting is not clearly defined, though it postdates the Nanaimo Group and probably predates the Tertiary intrusions.

REGIONAL STRATIGRAPHY

The Sicker Group was first defined as the Mount Sicker Series by Clapp (Clapp, 1912; Clapp and Cooke, 1917) within the Duncan area. Correlative rocks elsewhere on Vancouver Island were mapped by later workers (Gunning, 1931; Stevenson, 1945; Fyles, 1955; Muller and Carson 1969) and identified as the oldest exposed rocks on the island. Stratigraphic studies of the Sicker Group were conducted by Yole (1969) and Muller (1980). Based on regional studies throughout Vancouver Island, Muller proposed four subdivisions, in ascending order: Nitinat Formation, Myra Formation, an informal sediment-sill unit and the Buttle Lake Formation.

A major revision of this stratigraphy has been suggested by Sutherland Brown following mapping in the Alberni area of the Cowichan uplift (Sutherland Brown and Yorath, in preparation; Sutherland Brown *et al.*, 1986); independently, Juras (1987) proposed a revised stratigraphy for the Buttle Lake uplift. In Sutherland Brown's revised terminology the name "Sicker Group" is restricted to the lower volcanic section and subdivided into the lower Nitinat and upper McLaughlin Ridge formations. Overlying sediments are redefined and assigned to the Buttle Lake Group, comprising Cameron River, Mount Mark and St Mary's Lake formations. These new formational subdivisions have been traced successfully into the Cowichan and Duncan areas (Massey and Friday, 1987, 1988), although for convenience the older usage of "Sicker Group" was retained. The terminology of Muller is still employed by Westmin Resources Limited and several other companies working in the Cowichan uplift.

PROPERTY GEOLOGY

Much of the Debbie property was shown by Muller (1980) and Sutherland Brown *et al.*, (1986) to be underlain by pyroxene-porphyritic volcanics of the Nitinat Formation and assorted lithologies of the McLaughlin Ridge (or lower Myra Formation). Detailed mapping by Westmin has recognized an important, but discontinuous, package of felsic volcanics and cherts overlying pillowed basalts. Pyroxene-plagioclase-phyric flows and volcaniclastics to the north and west of this horizon, ascribed to the Nitinat Formation by both Muller and Sutherland Brown, are believed by Westmin geologists to be stratigraphically younger than the cherts and rhyolites and hence part of the Myra or McLaughlin Ridge Formation. This stratigraphic question has yet to be resolved.

A major schist zone has been traced by Westmin from Yellows Creek to Rogers Creek (Figure B9). The chloritic schists, apparently derived from a tuffaceous protolith, show a pervasive carbonate-sericite-quartz alteration with a core zone of gypsum and minor sulphides. This zone is interpreted by Westmin as related to massive sulphide mineralization zone and thin beds and lenses of sphalerite-rich massive sulphides are seen in places. Sutherland Brown *et al.*, (1986) ascribe the schistosity of this zone to deformation along one of the strands of the Beaufort Range fault. Perhaps the deformation is imposed upon earlier alteration.

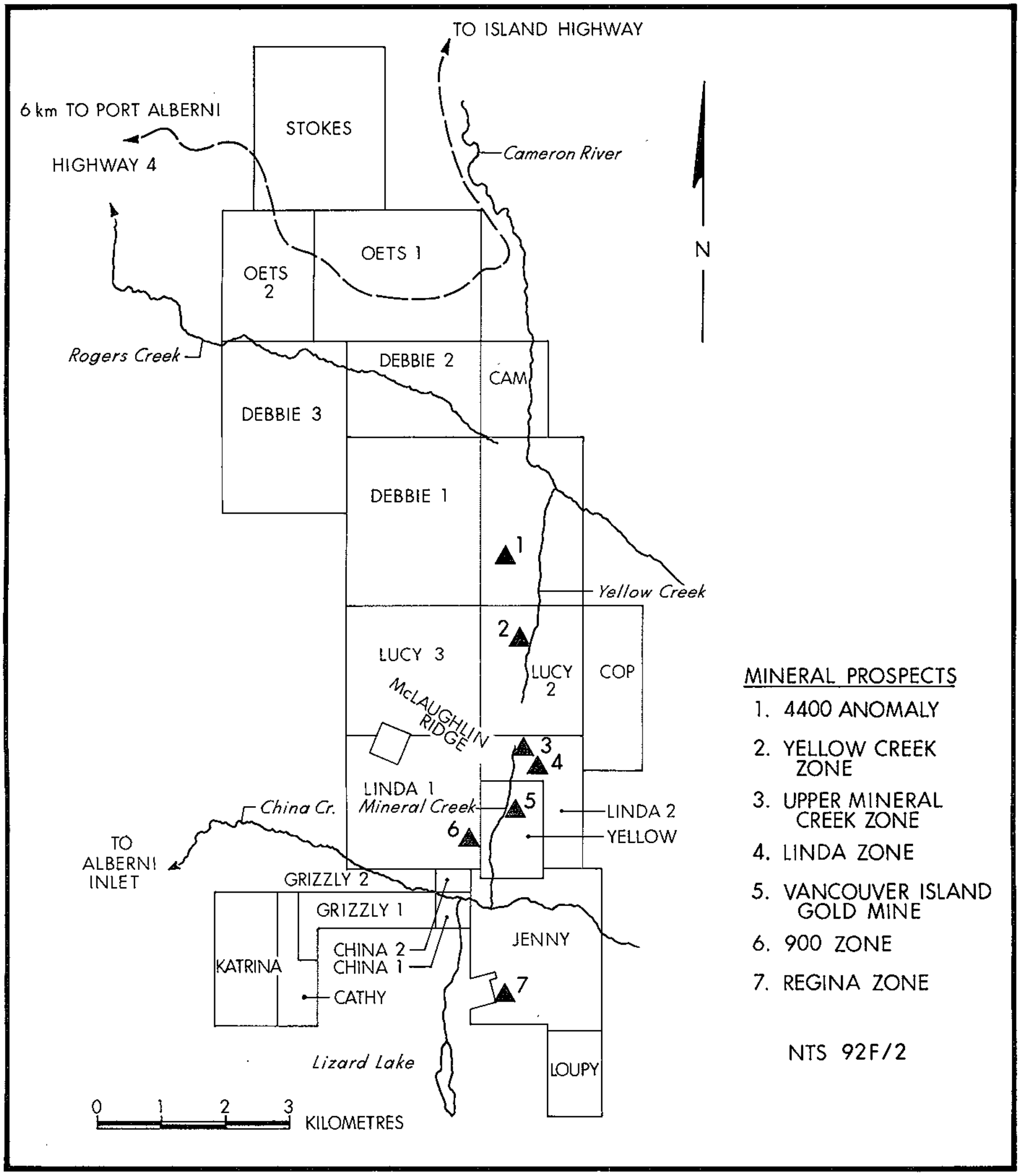

Figure B9. Claim map, Debbie property.

MINERALIZATION AND ALTERATION

The contiguous Debbie and Yellow properties occur in the vicinity of the major north-northwest-trending Beaufort Range fault. Local strong north-south faults, such as the Mineral Creek fault, which follows Mineral Creek on the north and extends south across China Creek, are related to mineralization. Structural repeats may exist, for example, the Rogers Creek showing is in a similar setting. The age of the mineralizing event is not certain. Lead isotope analyses suggest post-Jurassic ages and geological data suggest it may be Tertiary (R. Walker, personal communication, 1988).

The favourable belt of McLaughlin Ridge/Myra Formation rocks extends for over 25 kilometres in a north-northwesterly direction through the property and has an estimated thickness greater than 450 metres. On the Debbie claims, three main structurally controlled mineralized zones with vein-type gold mineralization have recently been identified: Mineral Creek, 900 and Linda. The Mineral Creek and Linda zones trend southward toward the old Vancouver Island gold mine on the Yellow property, which operated intermittently between 1896 and 1939 and reportedly yielded 11 044 grams of gold, 1617 grams of silver and 88 kilograms of copper from 438 tonnes of ore. Other auriferous vein occurrences in the region include the Black Panther, 3-W and Havilah prospects. Elsewhere on the Debbie property, exhalative massive sulphide targets have been identified, most notably at the Regina workings. Regionally, other examples of volcanogenic massive sulphide deposits in similar settings include the Lynx, Myra and H-W deposits at Buttle Lake; the Twin J and Lara on Mount Sicker; and the Thistle near Port Alberni.

To date work on significant showings on the Debbie property has been mainly south of McLaughlin Ridge on or near Mineral Creek. The Mineral Inventory map for map sheet 092F (Alberni) shows only number 092F-079 - the Victoria - which includes the old Vancouver Island gold mine; the new Mineral Creek, Linda and 900 zones are located in the same area.

<u>MINERAL CREEK ZONE</u> (in part, MI 092F-079, Victoria)

The Mineral Creek structure has been traced for several kilometres in a northerly direction along Mineral Creek and Yellows Creek. On the Upper Mineral Creek zone (Debbie property), gold with arsenopyrite is spatially related to the Mineral Creek fault zone, which hosts rocks locally referred to as "gougy cataclasites" (R. Walker, personal communicaion, 1988). Native gold occurs in discrete quartz veins (Plate B15) and in bordering alteration zones in association with ankerite, sericite, quartz, pyrite and minor arsenopyrite. The zone is characterized by its rusty colour and occasional clots of green fuchsitic material and sulphides, primarily pyrite. Sulphide content may range up to 15 per cent by volume but is generally low. Country rocks outside the alteration zone include pyroxene basalt and mafic volcaniclastics with local lenses of rhyolite. The Mineral Creek zone appears to be on strike with the old Vancouver Island gold mine where mineralization occurs in the hangingwall of the fault.

900 ZONE

The 900 zone is located west of Mineral Creek (Figure B9). Host rocks include pyroxene-aphyric basalt, flow-top breccias, tuff-wackes and banded chert. The mafic volcanic rocks are strongly lineated, and the chert unit, which might be termed a "lean iron formation" with magnetite at the base, is locally isoclinally folded (Plate B15). Fold axes appear to plunge south-southeast. An auriferous quartz-vein stockwork underlies the chert horizon; it has a pipe-like morphology. Native gold, pyrite, magnetite and trace arsenopyrite occur in quartz veinlets in chert and red jasper host rocks, and also in narrow carbonate veinlets that crosscut quartz veinlets.

Diamond-drill hole 50-87 in the 900 zone intersected 13.5 metres grading 39 grams per tonne gold, that includes 7.7 metres grading 61.8 grams per tonne gold (Northern Miner, December 8, 1987).

LINDA ZONE

The Linda zone is located approximately 800 metres east of the Mineral Creek zone. It consists of a series of quartz veins which crosscut the Mineral Creek fault and are truncated in turn by younger shearing (Plate B16). The Linda zone might be the northern extension of the Vancouver Island Gold deposit (R. Walker, personal communication, 1988).

REGINA ZONE (MI 092F-078)

The Regina zone is located south of China Creek on the east side of the southern extension of the Mineral Creek fault. It consists of lenses and veinlets of quartz with pyrite, chalcopyrite and minor galena, carrying gold and silver values. The mineralized zones are in shears in silicified and pyritized basalt. The basalt underlies a rhyolite unit that may have been a felsic dome. A local jasper (chert) unit is present. Lead isotope data suggest that the mineralization is pre-Jurassic and it may be of Sicker age (R. Walker, personal communication, 1988).

ROGERS CREEK ZONE (MI 092F-331, Debbie)

The Rogers Creek zone, located on the north side of McLaughlin Ridge, consists of thin lenses and layers of stratabound sphalerite and galena mineralization in a chlorite±sericite schist succession that is contained within a sequence of mafic volcanic rocks.

WORK DONE

In 1970, Westmin Resources Limited started a search for other massive sulphide/gold deposits in geological environments similar to that of its Buttle Lake mine. One of the areas the company targeted at that time was around the China Creek - Debbie - Thistle mine. A limited program was carried out in the 1970s and in 1979 the company staked the Debbie claims, which cover an area that is roughly 18 kilometers north-

Plate B15. Folded chert above the 900 zone, Debbie claims.

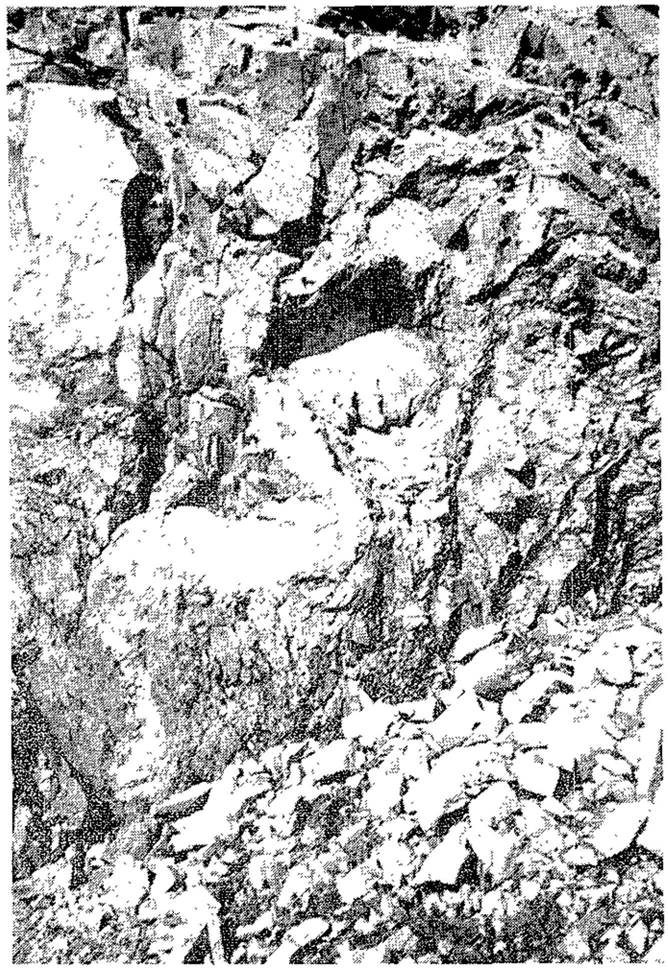

Plate B16. Folded quartz vein, Debbie property.

south along the Sicker Belt and 2 to 5 kilometres wide. The discoveries were made during follow-up of a regional soil and stream sediment survey combined with geological mapping and prospecting. Soil sampling has been a sucessful exploration tool; gold and arsenic are the most distinctive pathfinder elements. The 1986 and 1987 programs comprising some 42 000 metres of drilling in 242 holes, trenching and mapping, have concentrated on the Mineral Creek, Linda-Vancouver Island gold mines and the 900 gold zones. In 1988, it is proposed to collar an exploration adit on Yellows Creek to provide access to the Mineral Creek zone for detailed underground drilling and bulk sampling. The adit will also provide drill access for other veins and structures adjacent to the Yellows Creek fault.

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WAYSIDE (Fig. B1, No. 5) **By R.G. Gaba and B.N. Church**

LOCATION:	Lat. 50°52'35" Long. 122°49'40" (92J/15W) LILLOOET MINING DIVISION. The Wayside mine is on the Carpenter Lake road, 3.2 kilometres north of Gold Bridge at the southwest end of Carpenter Lake at an elevation of 670 metres.
CLAIMS:	WAYSIDE Crown grant (Lot 3036), 29 reverted Crown-granted claims and 18 located claims.
ACCESS:	From the Carpenter Lake road, 3.2 kilometres north of Gold Bridge.
OWNERS:	Amazon Petroleum Corporation Ltd. (50 per cent) and Carpenter Lake Resources Limited (50 per cent).
OPERATORS:	CHEVRON MINERALS LIMITED, CHEVRON CANADA RESOURCES LIMITED.
COMMODITIES:	Gold, silver (copper, zinc).

DESCRIPTION:

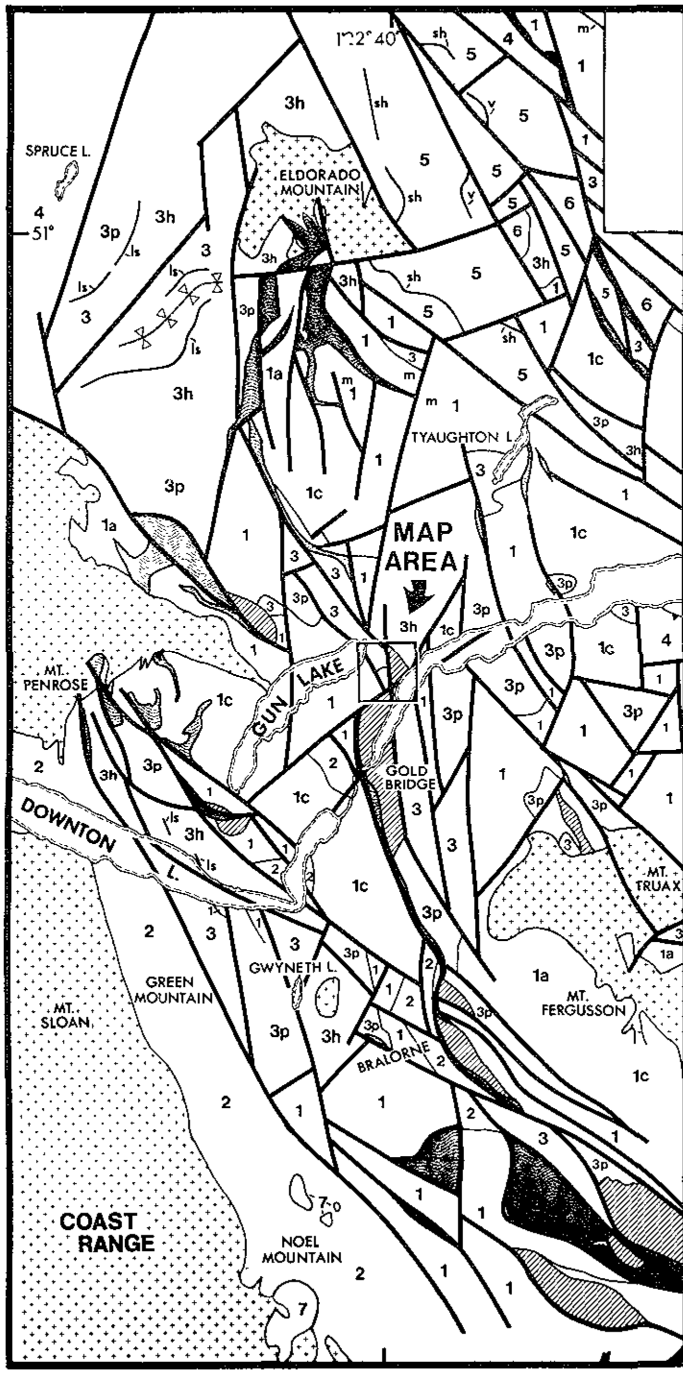
EXPLORATION IN THE VICINITY OF THE WAYSIDE MINE, BRIDGE RIVER MINING CAMP

INTRODUCTION AND HISTORY OF DEVELOPMENT

The Wayside property is on the north shore of Carpenter Lake 3.2 kilometres north of the town of Gold Bridge. The property was first staked in 1900 by D.C. Paxton. Subsequent development from 1915 to 1937 enabled the recovery of 166 122 grams of gold and 26 064 grams of silver from 36 977 tonnes of ore (National Mineral Inventory 92J/15-AU17). The Wayside mine ranks as the fourth largest gold producer in the Bridge River mining camp.

By 1936 underground mining operations had ceased. The mine workings consist of ten levels with a combined horizontal extent of 366 metres and a vertical extent of 323 metres; this includes an inclined (-56°) internal winze from the No. 5 level (the main working level) to the Nos. 7, 8 and 9 levels (Cairnes, 1937; Lammle, 1974). The workings are accessed by nine adits of which six are now only partly accessible. In addition to the principal workings, the 3T adit explores auriferous fissure-vein quartz at the contact of an albitite dyke cutting soda granite associated with the Bralorne diorite.

Only limited development work was done between 1947 and 1959 (Richmond, 1934). In 1971 Carpenter Lake Resources Limited (formerly Dawson Range Mines Limited) acquired the property and in the following four years completed surface geological and geophysical work, diamond drilling and limited underground rehabilitation and sampling (Lammle, 1974). During the course of this work, the "New Discovery" sulphide zone was explored, together with the "Commodore" and 3T veins. Between



LEGEND
BEDDED ROCKS

TERTIARY

7 (Miocene?) "Plateau Volcanics", basaltic lavas and breccias

6 (Eocene?) Lavas, pyroclastics and minor sedimentary rocks

LOWER CRETACEOUS

5 TAYLOR CREEK GROUP: *mostly boulder and pebble conglomerate and sandstone with some intercalated shale marker beds (sh) and volcanics (v)*

UPPER JURASSIC

4 RELAY MOUNTAIN GROUP: *buchia-bearing grey shales, siltstones, tuffaceous and polymictic conglomerate*

UPPER TRIASSIC

3 CADWALLADER GROUP: *comprising the Pioneer Formation (3p) consisting of basaltic pillow lava aquagene breccia, tuffs and amygdaloidal lava and the Hurley Formation (3L) consisting of brown, black and green argillites (siliceous and calcareous) with sandstones, polymictic conglomerates and limestone marker beds (ls); inclusive of all or part of Noel argillites*

PALEOZOIC

2 *(Permian?) dark argillites, turbidites previously assigned to the Noel Formation*

1 FERGUSSON GROUP: *mostly ribbon chert (lc), phyllite ranging to biotite quartz gneiss, some marble (m) marker bands, chloritic schist, and fine grained amphibolite (la)*

INTRUSIVE IGNEOUS ROCKS

TERTIARY

REX PEAK PORPHYRY: *a felsic phase of the (Eocene) Mission Ridge Pluton*

UPPER CRETACEOUS

COAST PLUTONIC COMPLEX: *biotite and hornblende bearing diorite, granodiorite and granite stocks and plutons; including the outlying Bendor and Eldorado stocks*

LOWER JURASSIC

Ultrabasic Rocks: comprising the Shulaps and President hartzburgite, periodotite, dunite serpentine and listwanite bodies

PALEOZOIC

BRALORNE INTRUSIONS: *heterogeneous fine and medium-grained diorite and gabbro stocks characterized by a reticulation of felsic veinlets*

Figure B10. Geology of the Bridge River mining camp in the area of the Wayside mine (modified from Church *et al.*, 1988).

1979 and 1983 the Wayside vein system and the Commodore vein were investigated by twelve diamond-drill holes (1362 metres total) and the New Discovery sulphide occurrence was tested by eight diamond-drill holes (2000 metres total). Further limited underground rehabilitation work was also done.

In 1984 a 50 per cent interest in the property was optioned to Amazon Petroleum Corporation Ltd. and between 1984 and 1985 this company

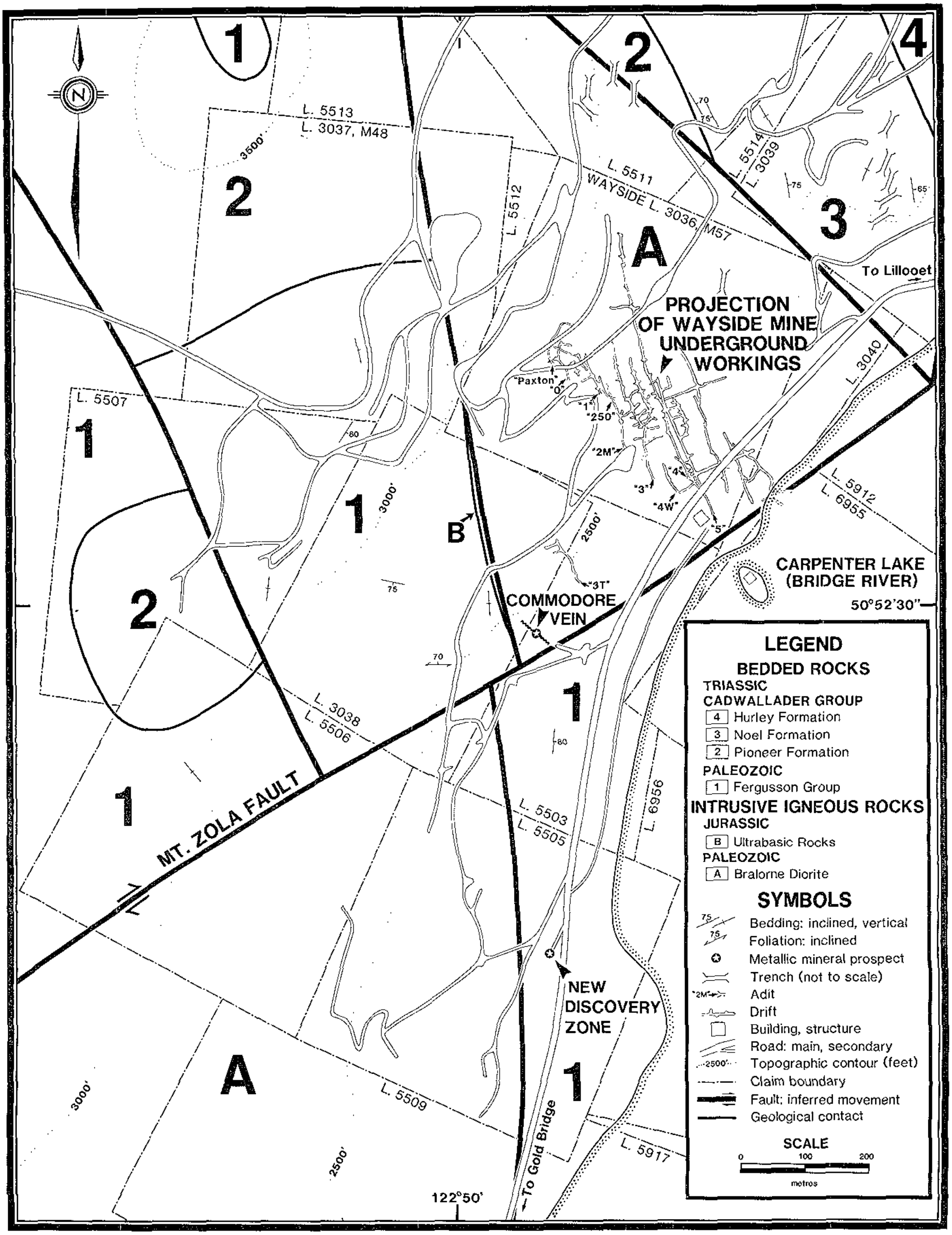


Figure B11. Geological setting of the Wayside mine (after Lammle, 1974; Elwell, 1980; Morris, 1985; Church and MacLean, 1987). *See* Figure B10 for map location.

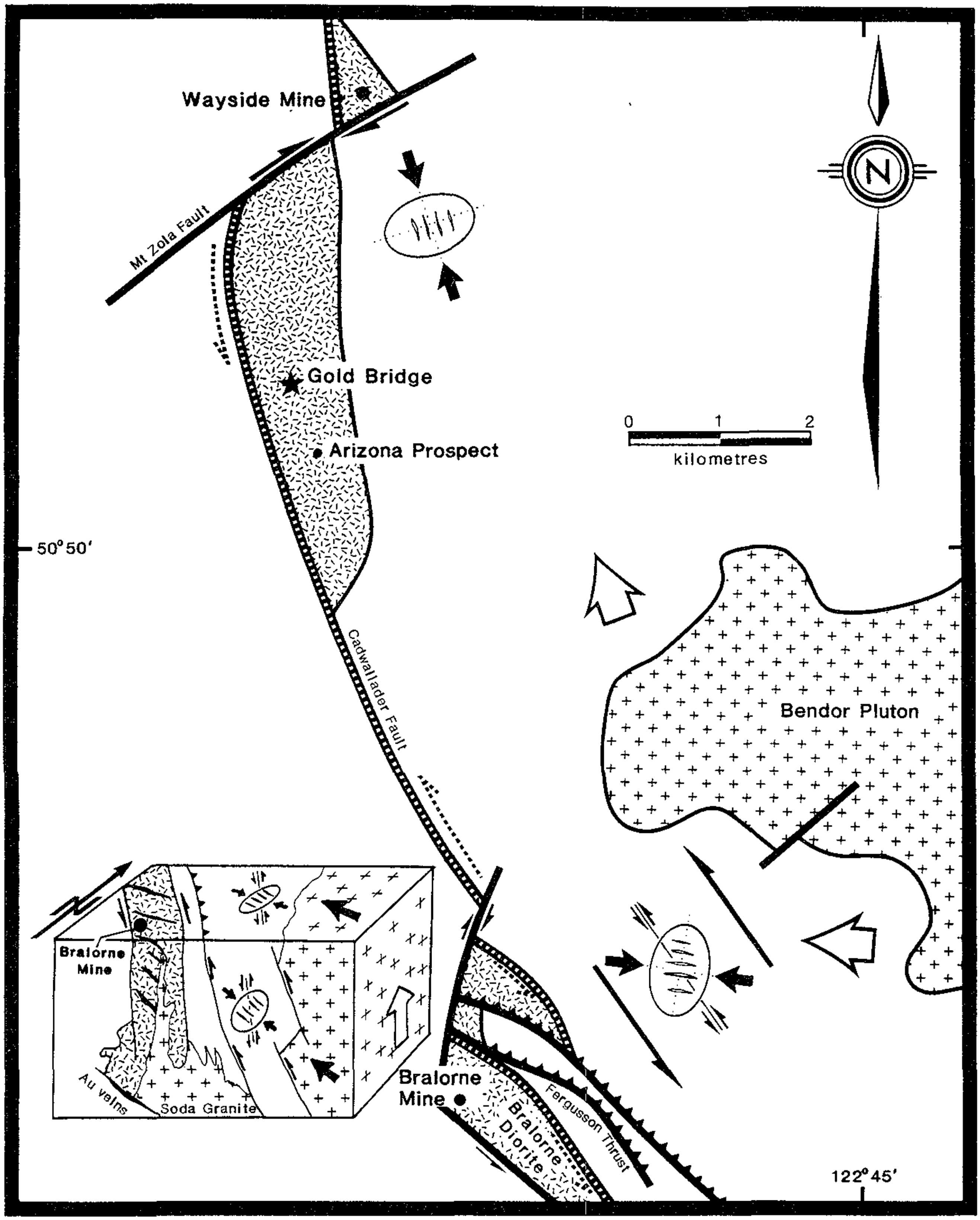


Figure B12. Geological sketch map of the Bralorne mine - Wayside mine area. Apparent sections of strain ellipsoids and direction of maximum compressive stress showing resultant dilations (gold veins) and faults. Inset block diagram of Bralorne mine shows section of plunging strain ellipsoid and resultant gold veins and faults.

completed four diamond-drill holes (551 metres total) on the Wayside vein system, two diamond-drill holes (100 metres total) on the Commodore vein and eleven diamond-drill holes (1766 metres total) on the New Discovery zone.

Early in 1987, Amazon Petroleum Corporation and Carpenter Lake Resources Limited optioned the Wayside property to Chevron Canada Resources Limited. According to the agreement, Chevron Canada Resources Limited may earn a 51 per cent interest in the property by spending $2.3 million over five years. Exploration during the 1987 field season was assisted in part by a grant from the Mineral Exploration Incentive Program of the British Columbia Ministry of Energy, Mines and Petroleum Resources.

GEOLOGICAL SETTING OF THE WAYSIDE MINE

The Wayside mine is within an elongate fault-bounded body of Bralorne diorite (Figures B10, B11). This intrusion is typically mottled grey-green, medium to fine-grained pyroxene-amphibole diorite characterized by a network of felsic stringers. The diorite contains apophyses of sodic granite and fine-grained hybrid diorite, cut by a variety of fine-grained and porphyritic dykes (Cairnes, 1937; Lammle, 1974). Bralorne diorite is the oldest plutonic rock type in the Bridge River mining camp [potassium-argon age of 287±20 Ma (Armstrong, unpublished); uranium-lead age of 270±5 Ma (Leitch and Godwin, 1988)] and is host to the most important gold concentrations.

Adjacent rock types in fault contact with the Wayside host diorite include ribbon chert of the Fergusson Group, basalt of the Pioneer Formation, black argillite and siltstone of the Noel Formation and fine to coarse clastic sedimentary rocks of the Hurley Formation (Figures B11). There is a general absence of chilling in the diorite and no strong contact metamorphic effects in adjacent rocks. Ultrabasic rocks partly occupy the fault along the west margin of the diorite body.

Most of the Bralorne diorite in the Bridge River mining camp occurs as elongate, commonly fault-bound lenticular masses within or closely adjacent to the Cadwallader fault system (Figure B10). The Wayside host diorite is the fault-boundeded termination of one such diorite lens and is offset from the main mass of the diorite body by a northeast-striking fault, known as the Mount Zola fault (Figure B11). Accordingly, ultrabasic rocks along the west margin of the Wayside host diorite are offset from the once continuous or aligned ultrabasic rocks along the west side of the main diorite body south of the Mount Zola fault.

MINERALIZATION

Auriferous quartz veins at the Wayside mine strike approximately 150 to 160 degrees and dip 35 to 65 degrees northeast. The veins occupy the central part of the Wayside host diorite body within a zone of steeply foliated diorite approximately 1 to 8 metres wide and continuous for more than 300 metres along strike. Foliated diorite persists from uppermost to lowermost workings as well as a considerable distance to the northwest (Kelly, 1972). Vein quartz is milky white and massive to ribbon textured; ribbons are partings of chlorite, sericite and mariposite, and commonly contain metallic minerals. Quartz veins are lenticular masses a few centimetres to a metre in thickness and are discontinuous along strike. Quartz is accompanied by abundant carbonate (dominantly calcite) but contains only a small amount of pyrite and arsenopyrite, and less commonly, sphalerite, galena, pyrrhotite, chalcopyrite, tetrahedrite, stibnite, marcasite and scheelite. Native gold occurs within sulphide mineral concentrations along phyllosilicate folia and disseminations in massive vein quartz (Cairnes, 1937; Kelly, 1972).

Host diorite several centimetres to a metre outwards from quartz veins contains abundant carbonate minerals, sericite, mariposite, chlorite and pyrite; wallrocks are only slightly auriferous (Cairnes, 1937; Kelly, 1972).

The Commodore vein is an auriferous quartz vein subparallel to the western faulted margin of the Wayside host diorite (Figure B11). The vein is up to 1 metre thick and is exposed on surface along its strike for approximately 10 metres. A diamond-drilling program by Amazon Petroleum Corporation and Carpenter Lake Resources in 1984 yielded intersections of 33 grams per tonne gold over 2 metres at a depth of 23 metres, and 336 grams per tonne gold over 1.8 metres at a depth of 38 metres (George Cross News Letter, 1984). The Commodore vein is similar to the veins at the Wayside mine in geological and general structural setting, morphology and mineral constituents.

The New Discovery zone is not related to the Wayside auriferous vein system. It consists of pyritic concentrations within the greenstone and chert beds of the Fergusson Group approximately 800 metres south of the Wayside mine (Figure B11). This sulphide zone, as outlined by more than 1800 metres of diamond-drill core from 12 holes, is estimated to have a dimension of at least 140 metres along strike and a thickness of 4.8 metres. The estimated 150 000 tonnes of massive sulphide is mostly pyrite, with some chalcopyrite and sphalerite, and very minor galena and pyrrhotite; it contains up to 1.76 per cent copper, 3.03 per cent zinc and some ancillary gold (Morris, 1985).

DISCUSSION

Auriferous quartz veins at the Wayside mine are analagous to those of the Bralorne and Pioneer mines. Wayside veins also share many similarities with auriferous quartz veins at the Elizabeth-Yalakom prospect (*compare* Gaba *et al.*, 1988).

The elongate outline of many of the individual diorite bodies and their linear arrangement within the Cadwallader fault zone (with adjacent ultrabasic rocks) suggest emplacement along an old major crustal break (Church, 1987; Church *et al.*, 1988). Geochronological studies indicate that auriferous veins were deposited long after host Bralorne diorite emplacement and therefore no genetic relationship exists between veins and diorite (Leitch and Godwin, 1988).

Soda granite, which occurs as small bodies, apophyses and stringers within Bralorne diorite, has a close spatial relationship to auriferous quartz veins. In addition, gold content of veins is generally greater close to soda granite (Bacon, 1978). The relationship between soda granite and Bralorne diorite is unclear: the soda granite might be a differentiate or an anatexite of the diorite (Leitch and Godwin, 1986). Soda granite is generally thought to be much younger than the diorite. Near the Arizona workings, Pearson (1977) obtained a potassium-argon determination of 62.5 ± 1.8 Ma on white mica in soda granite. This is similar in age to the Coast Complex and Bendor stock.

The occurrence of soda granite within the Wayside host diorite is not as abundant as at the Bralorne and Pioneer mines. The 3T vein is the only auriferous quartz vein noted adjacent to soda granite (Cairnes, 1937). Soda granite is apparently encountered in several areas of underground workings - it is thought to be a general indication of nearby auriferous quartz (Arik, 1984), but no geological maps of the mine workings exist with which to verify this.

The association of auriferous quartz veins and soda granite suggests a genetic relationship. If soda granite is an anatexic segregation of Bralorne diorite brought about by heat from the Bendor pluton [63 to 57 Ma, Early Tertiary (Wanless *et al.*, 1977)], then auriferous quartz veins might have formed by lateral secretion of components from host diorite into dilatant fractures. However, soda granite might be a phase of the Bendor pluton (as indicated by Pearson's data) with accompanying auriferous quartz veins that are magmatic-hydrothermal in origin.

Stress induced by the intrusion of the Bendor pluton augmented the left-lateral shear couple that acted on Bralorne diorite within the Cadwallader fault zone. The resultant upward and northwesterly directed maximum compressive stress resulted in thrusts and a steep reverse fault component (an attitude similar to cone sheet fractures that develop over some stocks). This stress regime was favourable for the emplacement of steeply dipping parallel *en echelon* fissure veins within Bralorne diorite at the Bralorne mine (Figure B12). To the north at the Wayside mine, total maximum compressive stress under which veins were emplaced seems to have been more northerly directed: veins were emplaced in a central sheared zone within the diorite rather than as *en echelon* sets.

EXPLORATION STRATEGY AT THE WAYSIDE PROPERTY

The search for continuation of previously exploited auriferous quartz veins as well as for new orebodies draws heavily on the comparison of the Wayside mine with the Bralorne and Pioneer mines. Both deposits have similar hosts, and gold-bearing quartz veins have comparable character and distribution.

Auriferous veins of the Wayside and Bralorne-Pioneer mines have similar morphology, mineral constituents, textures, host rock association and tectonomagmatic setting to the Motherlode veins of California and many Archean lode deposits. These veins are classified as mesothermal in accordance with their geological characteristics and

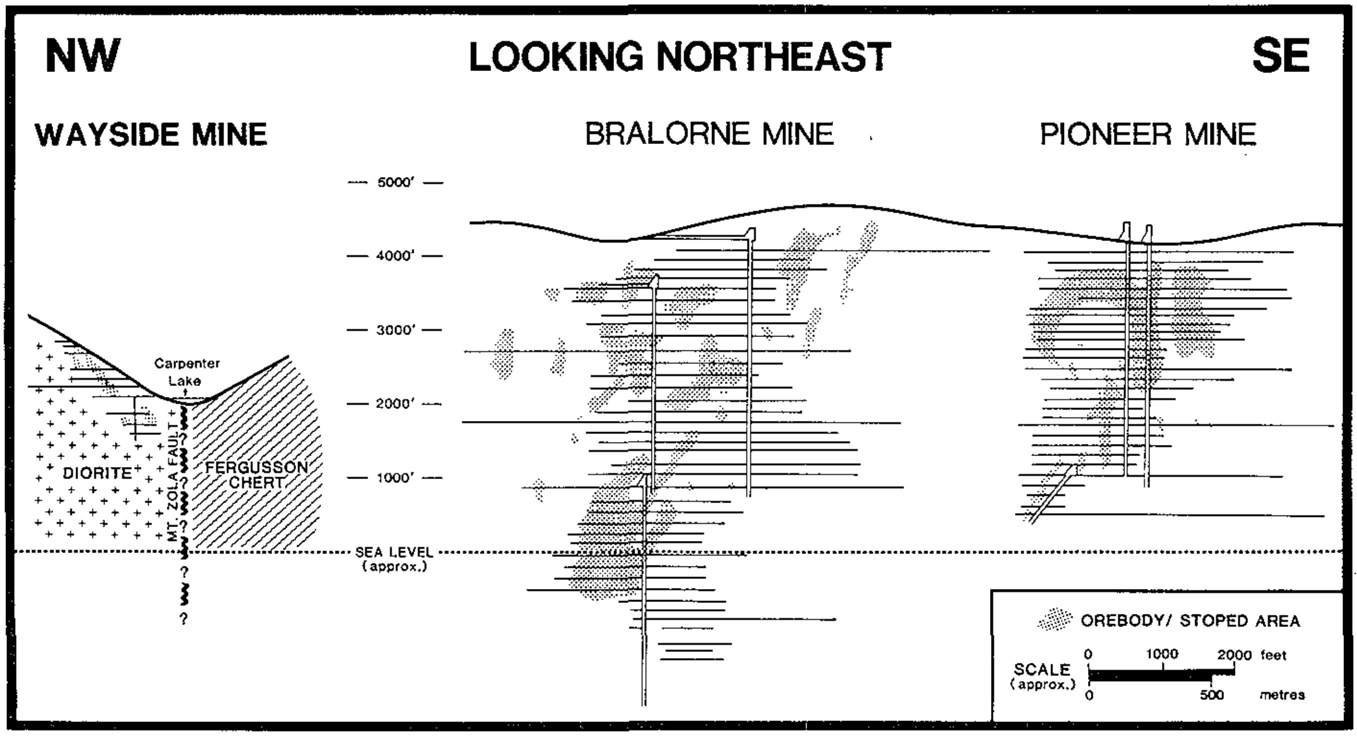


Figure B13. Schematic longitudinal section through Wayside mine for comparison with Bralorne and Pioneer mines (after James and Weeks, 1961; Bellamy and Saleken, 1983; B.C. Ministry of Energy, Mines and Petroleum Resources, Wayside Property File, unpublished maps).

most probable depth of formation. As with Motherlode and Archean analogues, auriferous veins of the Bralorne and Pioneer mines are noted for their continuity to great depth, with little or no variation in gold content. The "77" vein at Bralorne mine yielded 1 905 000 tonnes of ore over a vertical range of 1415 metres, but in general few veins exceed 250 metres in length (Barr, 1980); collectively, orebodies were mined to a depth of 1825 metres below the surface. In contrast, the Wayside mine is developed to a depth of only 450 metres (Figure B13). A recent diamond-drill hole (No. 80-S10) by Carpenter Lake Resources Limited, designed to sample the main Wayside vein below and to the east of the ninth level, contains a 3-metre section of vein quartz with 90 grams per tonne gold and 35 grams per tonne silver (George Cross News Letter, 1981). This intersection is an indication that auriferous quartz veins do persist at depth (Dick and Dodson, 1987). Virtually all engineering reports on the Wayside mine suggest that gold content of quartz veins increases with depth (Lammle, 1974).

Continuity of the Wayside veins to the northwest has not yet been adequately tested. The foliated zone that hosts the veins persists to the northwest a considerable distance, but because the veins appear to pinch out, exploration was not pursued in this direction (Kelly, 1972). Pinch-outs are common in mesothermal veins and do not necessarily indicate vein termination; the distribution of orebodies is often irregular (for example, Bralorne mine, Figure B13). Analagous to the Bralorne and Pioneer mines, fracture or shear-zone-hosted auriferous veins may persist into Pioneer Formation greenstone which is in contact with the host diorite to the north and northwest of the Wayside mine.

To the southeast, orebodies persist up to, but apparently not beyond, the Mount Zola fault (Figures B11 and B13). Recognition of the displacement of the Wayside host diorite (Church and MacLean, 1987) has stimulated interest in the search for a continuity of auriferous quartz veins within the main mass of diorite south of Mount Zola fault (Dick and Dodson, 1987).

The close spatial association of soda granite to auriferous quartz veins might be useful as a general guide to ore.

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TROUT (Fig. B1, No. 6) **By E.L. Faulkner**

LOCATION:	Lat. 52°33′ Long. 124°44′ (93F/10) OMINECA MINING DIVISION. The property is located 60 kilometres southwest of Vanderhoof.
CLAIMS:	TROUT 1, 2, 3, 5, 13, 16.
ACCESS:	From Vanderhoof on the Kenney Dam road to the River Ranch, then east 8 kilometres.
OWNER:	Kerr Addison Mines Limited.
OPERATOR:	WELCOME NORTH MINES LIMITED.
COMMODITY:	Gold.

DESCRIPTION:

The property is located on the Nechako Plateau, in an area of heavy glacial till and outwash cover. Rocks in outcrop and trench exposures consist of red to brown andesite porphyry flows, agglomerates and andesitic tuffs, intruded by feldspar porphyry dykes. Some pale brown rhyolitic tuffs and a rhyolite porphyry were seen in the southern part of the claim group. These rocks belong to the lower or basaltic to andesitic part of the Ootsa Lake Group of probable Upper Cretaceous age (Tipper, 1963).

MINERALIZATION

Gold and silver values were first reported from quartz veining on the property in 1984 (Assessment Report 16539). Subsequent work has established a 60 by 300-metre Discovery zone with significant gold and silver mineralization. The rocks in this zone consist of a silicified heterolithic andesite breccia. Clasts are generally rounded, with pale silicified rims, and minor white to occasionally amethystine quartz veining is present. Some fine disseminated pyrite occurs with the silicification. Malachite-stained float was found in the discovery area, although no primary copper mineralization was seen and the results of the soil geochemical survey were low for copper. No visible precious metal mineralization was seen, but Schmidt reports native gold and argentite from a quartz adularia vein (Assessment Report 16539). Soil geochemistry has outlined a number of other zones with anomalous gold values, and mineralization has been reported in bedrock in trenches on two of these. Typical assay results are in the low grams per tonne range, but one section of trench assayed 18 grams per tonne gold over 4.9 metres.

WORK DONE

1987 work included geological mapping, soil geochemistry, 17 trenches (675 metres) and 13 percussion-drill holes (767 metres).

REFERENCES

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McCLEOD LAKE 93J

WINDY (Fig. B1, No. 7) **By E.L. Faulkner**

LOCATION:	Lat. 54°57′ Long. 123°45′ (93J/13W) CARIBOO MINING DIVISION. The claims are located approximately 65 kilometres north-northwest of Fort St. James.
CLAIMS:	WINDY 1-5.
ACCESS:	From Highway 97 via the Manson Creek and Germansen - Cripple Lake forest service roads. At 20 kilometres on the Germansen - Cripple Lake road, a rough 4-by-4 trail leads to the claim group.
OWNER:	R. Haslinger.
OPERATOR:	PLACER DOME INC.
COMMODITIES:	Gold, copper, palladium.

DESCRIPTION:

The claims are located on a broad drift-covered upland area in the upper reaches of the Salmon River, which flows through the claim group. Regionally the area is part of the northern Quesnel trough, an assemblage of volcanic and volcaniclastic rocks belonging to the Takla Group of Upper Triassic to Lower Jurassic age. Locally these rocks are intruded by small stocks that vary in composition from granodiorite to syenite, often showing compositional zoning or differentiation. Outcrops on the claims are limited to the banks of the Salmon River, but bedrock has been exposed in test pits and trenches. All bedrock seen on the property is an intrusive diorite showing varying degrees of shearing and alteration. The alteration is in part chloritic and sericitic, probably reflecting greenschist-grade regional metamorphism, and in part silicification and minor propylitic alteration in areas of mineralization. Shearing ranges in intensity from local fracturing to schistose foliation with steep dips and a strike of 070 degrees.

MINERALIZATION

There are signs of old test pits along the Salmon River banks, probably from placer exploration. The owner reports that fine to very fine gold can be consistently panned from overburden near the river and in the areas of trenching. In the discovery area near the river, malachite-stained float containing disseminated pyrite and chalcopyrite was seen, and similar material is present in test pits. Soil geochemistry has outlined three areas that are anomalous in one or more of the elements gold, copper and palladium. One of these is the discovery area, and two others have been outlined to the north. Assays of trench and test-pit samples from these areas are generally low, but range up to 1.3 per cent copper, 3 grams per tonne gold and 2.4 grams per tonne palladium with the best results to date from the discovery area. The mineralization may be of the alkali porphyry type, with a high gold:copper ratio and elevated palladium content.

WORK DONE

1987 work included soil geochemistry, bulk soil studies, geophysics (magnetometer, VLF-EM, I.P.) and five trenches.

REFERENCES

B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Reports 14449, 16597.

FORT FRASER 93K

SNOWBIRD (Fig. B1, No. 8) **By E.L. Faulkner**

LOCATION:	Lat. 54°28′ Long. 124°31′ (93K/7E, 8W) OMINECA MINING DIVISION. The property is located on the south shore of Stuart Lake, 15 kilometres west of Fort St. James.
CLAIMS:	SNOWBIRD, SNOWBIRD 1-7, CAMPSITE, BORCHEA, SHAFT FRACTION.
ACCESS:	From Fort St. James to the Sowchea Bay public campgrounds, then 7 kilometres west on a 4-by-4 access road.
OWNER/OPERATOR:	X-CAL RESOURCES LTD.
COMMODITIES:	Gold, antimony.

DESCRIPTION:

The property is located on the south shore of Stuart Lake in an area underlain by cherts, argillites, limestones and greenstones of the Cache Creek Group of Pennsylvanian to Permian age. Two low ridges, separated by a broad drift-filled valley, trend northwest - the probable strike of the host rocks. Outcrop on the property is limited and occurs mostly on the northerly of the two ridges and in the extensive areas of stripping and trenching. Massive clastic sedimentary rocks ranging in composition from a coarse greywacke to argillite are the dominant rock types. Minor andesite and andesite porphyry dykes outcrop on the northern ridge.

MINERALIZATION

The property has a lengthy history of exploration and some small scale mining of hand-picked stibnite dating from 1920. The principal mineralization occurs in a northwest-striking quartz-stibnite vein that dips 45 to 50 degrees northeast. The vein is typically 0.5 metre or less in thickness and has been traced by stripping, drilling, trenching and I.P. response for a strike length of over 1200 metres. The stibnite is massive and usually fine grained, but occasionally it occurs as coarse radiating crystal aggregates. It constitutes 5 to 50 per cent of the vein minerals. Minor amounts of pyrite are also present, and visible gold has been reported (X-Cal Resources, Annual Report, 1987).

Wallrock alteration is moderate to strong and consists of quartz-ankerite-mariposite alteration with minor quartz veins and veinlets and disseminated pyrite in a zone up to 30 metres wide, parts of which also contain significant gold values. Gold mineralization is variable, and seems to be related to the quartz veining and alteration rather than to the presence or absence of stibnite. Drill core and trench samples range from 3 to 11 grams per tonne gold over widths from 0.3 to 1.8 metres. Better intersections reported include 9.2 grams per tonne gold over 4.2 metres and 10.2 grams per tonne gold over 3 metres.

WORK DONE

1987 work included stripping and trenching, geophysics, 25 diamond-drill holes (2680 metres) and 57 percussion-drill holes for basal till sampling.

REFERENCES

B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Reports 520, 2764, 3520, 5136, 15261, 16766. *X-Cal Resources Ltd.*, Annual Report, 1987.

TAS (Fig. B1, No. 9) **By E.L. Faulkner**

LOCATION:	Lat. 54°53′ Long. 124°20′ (93K/16) OMINECA MINING DIVISION. The property is located 50 kilometres north of Fort St. James.
CLAIMS:	TAS 1-11.
ACCESS:	From Fort St. James north on the Omineca mining road, then west on the Inzana Lake logging road, which passes through the claim group.
OWNER/OPERATOR:	*NORANDA EXPLORATION COMPANY, LIMITED.*
COMMODITY:	Gold.

DESCRIPTION:

The property is located in the northern Quesnel trough, and underlain by a mixed volcanic and volcaniclastic assemblage belonging to the Takla Group of Upper Triassic to Lower Jurassic age. On the Tas property an east-trending ridge of massive tuffaceous siltstones and augite porphyry flows is intruded by porphyritic dykes of variable composition and texture. These dykes are related to a dioritic stock that outcrops at the west end of the ridge and underlies much of the western and southern parts of the claim group. Outcrops are typically moderately to intensely fractured, and bedding attitudes are not apparent.

MINERALIZATION

Minor visible gold was first found associated with pyrite and pyrrhotite in an outcrop of altered diorite on the Inzana Lake logging road. This mineralization proved to be of very limited extent. Irregular disseminated to massive sulphides and sulphide veinlets composed of pyrite, pyrrhotite and minor chalcopyrite occur at several locations on the ridge described above. The sulphides are accompanied by quartz-magnetite-carbonate alteration and minor chloritic and saussuritic alteration. Where overburden is thin, there is generally a good gold soil geochemical anomaly associated with areas of gold-bearing sulphide mineralization. The gold mineralization however, does not appear to be closely related to the type or abundance of sulphide minerals present, nor to the intensity of fracturing or alteration, and it may possibly represent a separate mineralizing episode. Assays from trench and drill samples are in the low grams per tonne range, with the best intersection reported at 6 grams per tonne gold over 9 metres.

WORK DONE

1987 work on the property included geophysics (I.P., magnetometer and EM), geochemistry, stripping, trenching, 17 diamond-drill holes (1188 metres) and 11 percussion-drill holes (390 metres).

REFERENCES

B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report 13979, 16763.

TOPLEY RICHFIELD (Fig. B1, No. 10) **By M.H. Gunning**

LOCATION:	Lat. 54°34'43" Long. 126°15'30" (93L/9) OMINECA MINING DIVISION. On the southwest side of Tachek Mountain approximately 10 kilometres north of Topley and 35 kilometres northeast of Houston.
CLAIMS:	RICHFIELD 1-5, RICH 1-6, CDF 1-4.
ACCESS:	By 7 kilometres of paved road from Topley, then a gravel access road to property.
OWNERS:	Esso Resources Canada Limited, Mountain West Resources Incorporated, Sirius Resources Inc.
OPERATOR:	ESSO RESOURCES CANADA LIMITED.
COMMODITIES:	Silver, gold, lead, zinc, copper.

DESCRIPTION:

HISTORY

The Topley Richfield property (MI 93L-018) has experienced sporadic mineral exploration activity dating back to 1926 (Schroeter, 1976). From 1927 to 1929 the Topley Richfield Mining Company conducted underground development work on two main levels and completed over 1500 metres of drifts and crosscuts although no ore was ever milled. No further work was done on the property until 1951-52 when the Topley Mining Syndicate performed geological mapping, rock sampling and trenching on the property. From 1955 to 1958, Silver Standard Mines Limited dewatered and resampled the underground workings and completed 291 metres of surface drilling. In 1967, Seemar Mines Lmited carried out ground magnetic and electromagnetic surveys and over 1100 metres of surface drilling. In 1975, Canadian Superior Exploration Limited completed surface mapping and silt sampling, an induced polarization survey and four diamond-drill holes totalling 405 metres. From 1979 to 1981, Cobre Exploration Limited carried out an extensive exploration program involving ground electromagnetic and magnetic surveys, underground sampling and over 4800 metres of diamond drilling in 28 holes. One percussion-drill hole was also completed. At this time, Cobre Exploration defined reserves of 158 750 tonnes grading 3.5 grams per tonne gold, 159 grams per tonne silver and 2 per cent combined lead-zinc. In 1983, Cominco Ltd. did further exploration on the property using ground electromagnetic and induced polarization surveys and completed 655 metres of diamond drilling in five holes. Esso Resources Canada Limited completed an extensive drilling program on the property in 1987.

GEOLOGICAL SETTING

The Topley-Richfield property is underlain by Lower Jurassic Hazelton Group rocks in the eastern part of the Skeena Arch. Overburden in the area averages 20 metres thick but can be up to 50 metres thick.

The dominant rock type is a feldspar crystal tuff with lesser lithic tuffs, greywackes and thin beds of argillite. These rocks are part of the upper section of the Lower Jurassic Telkwa Formation. Pyroxene-bearing andesitic flows of the Nilkitkwa Formation overlie the sedimentary and pyroclastic rocks of the Telkwa Formation and the contact between them is located on the western portion of the property. This contact is conformable to regional bedding in the area which strikes at 170 degrees and dips 45 degrees to the southwest.

Faulting in the area is significant and at least three major structures transect the property and the north-northwest-striking alteration zones which have been the focus of the exploration and development work (Figure B14). The Richfield fault is located about 1 kilometre south of the main workings and marks the southern limit of the alteration zones. Extensions of the alteration south of the fault have not been identified. A parallel fault, approximately 400 metres north of the main workings, has a right-lateral sense of offset and has displaced the main alteration zones by 100 metres. A third parallel fault occurs approximately 1100 metres north and has a left-lateral sense of offset displacing the alteration zones by 500 metres. Narrow quartz veinlets parallel to these fault systems commonly crosscut the alteration zones.

Exploration and development has been directed at two alteration zones which strike north-northwest and dip 45 degrees to the southwest. Around the main workings, the zones are from 10 to 40 metres wide and are about 25 metres apart. They are characterized by pervasive silicification, brecciation, calcite and quartz veining, and sideritic alteration. Bladed ankerite occurs commonly in calcite vugs. The alteration zones contain only trace amounts of pyrite. Drilling in 1987 has traced this alteration for at least 2 kilometres north of the main workings, although the intensity of alteration is not consistent throughout this length. Alteration in the block between the north and south fault decreases to zones only 1 to 2 metres thick. North of the north fault, alteration increases and is similar to that seen around the main workings. It is uncertain if these alteration zones are structurally controlled by faults.

Lenses containing stronger sulphide mineralization and increased precious metal values occur within the alteration zones. These lenses, called the B/C and D (Figure B14), vary in width from 1 to 5 metres and rake to the southwest. Tetrahedrite, arsenopyrite, galena, sphalerite and chalcopyrite, with traces of visible gold and native silver, occur in stringers and as blebs and disseminations within the two lenses. The mineralization occurs in several narrow bands separated by unmineralized zones and makes up 10 to 15 per cent of the lenses. Two intersections in the B/C lens obtained in 1980 returned assays of 5486 grams per tonne silver over 20 centimetres and 4.8 grams gold and 202 grams silver per tonne over 7.6 metres.

WORK DONE

Esso Resources Canada Limited, in joint venture with Sirius Resources Incorporated to earn an interest from Mountain West Resources

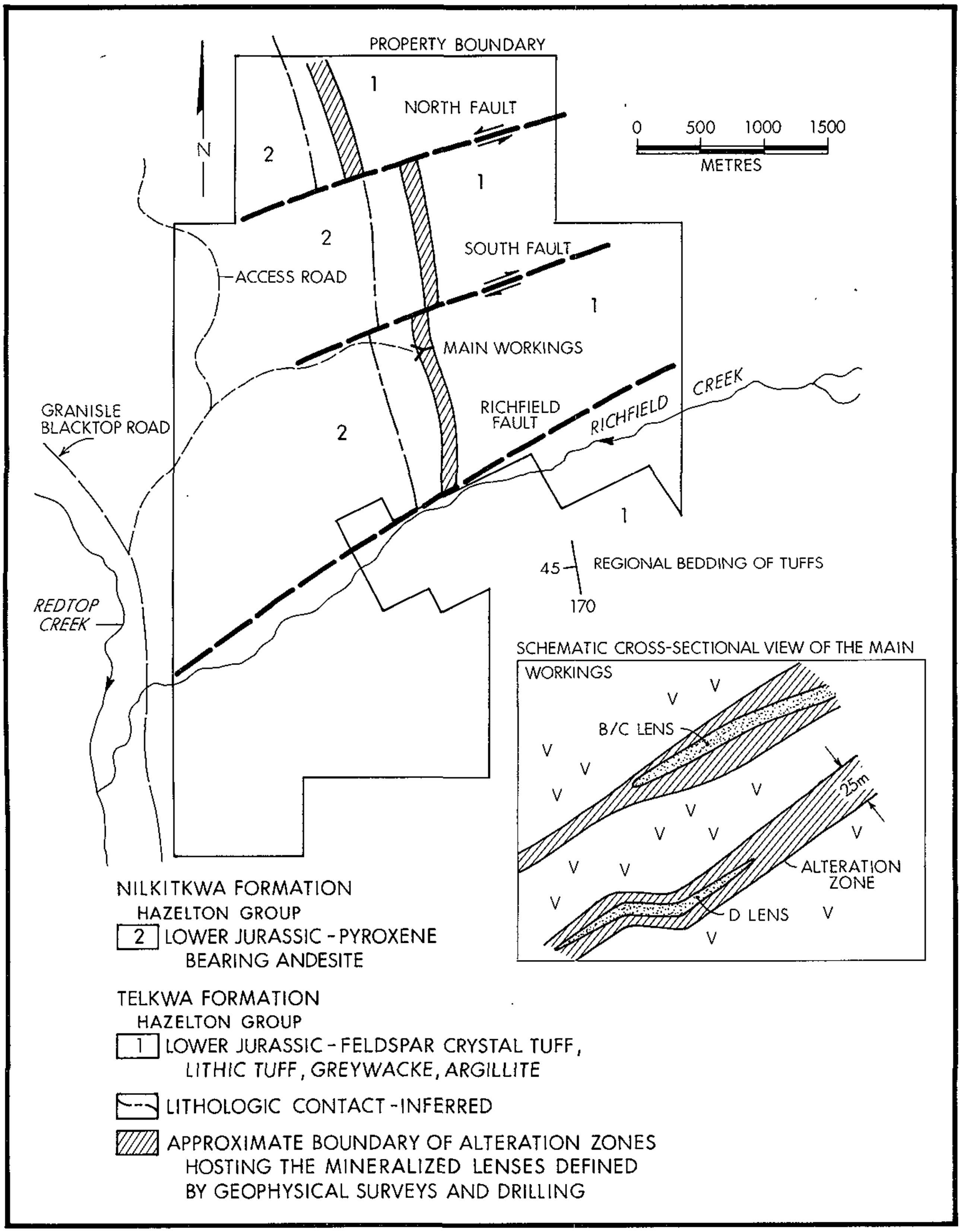

Figure B14. Sketch map of the Topley-Richfield area.

Incorporated, carried out an extensive drilling program in 1987. A total of 1667 metres of reverse circulation drilling in 37 holes and 1680 metres of diamond drilling in 8 holes was completed around the mine and along northerly extensions of the main alteration zones.

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BOULDER CREEK VEIN **by P. Desjardins and D.G. MacIntyre**
(Fig.B1, No.11)

LOCATION:	Lat. 54°44′ Long. 126°36′ (93L/10E) OMINECA MINING DIVISION. The Boulder vein is located on Dome Mountain 38 kilometres east of Smithers
CLAIMS:	Grizzly, Cope 2, No. 2 Claim
ACCESS	The area is accessible from the Chapman Lake logging road east of Smithers.
OWNERS:	Teeshin Resources Ltd., option to earn 75%; Canadian United Minerals Ltd. 25% carried interest.
OPERATOR:	TEESHIN RESOURCES LTD.
COMMODITIES:	Gold, silver, lead, zinc, copper

DESCRIPTION:

INTRODUCTION

The Boulder Creek vein lies within the Dome Mountain gold camp, (Figure B15) which is located in the Babine Range, 38 kilometres east of the town of Smithers in west-central British Columbia. The geology and mineral occurrences of this camp have been described in two previous reports - MacIntyre (1985) and MacIntyre et al., (1987). This report describes recent work on the Boulder Creek vein.

EXPLORATION HISTORY

Canadian United Minerals Inc. discovered the Boulder Creek vein in 1985 when it excavated two trenches to explore anomalous zinc concentrations identified by a soil sampling program. In early 1986, Canadian United drilled 48 diamond-drill holes to test the mineralized zone. This work defined a quartz vein system 350 metres long with a down-dip continuation of 120 metres (Figure B16). The Boulder zone trends approximately east and dips 40 to 60 degrees south. From October

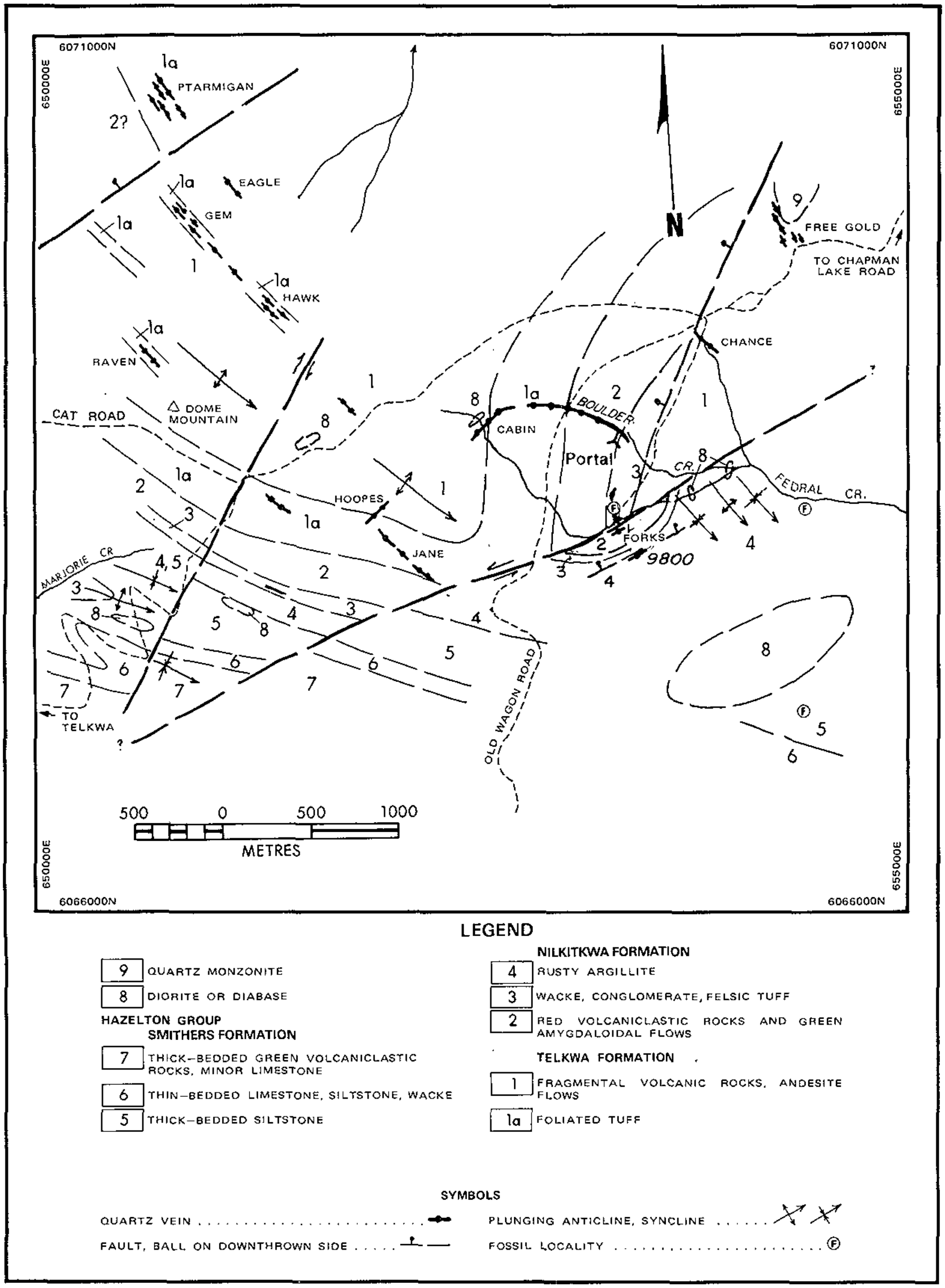

Figure B15. Geological sketch map of the Dome Mountain gold camp (from MacIntyre, 1985).

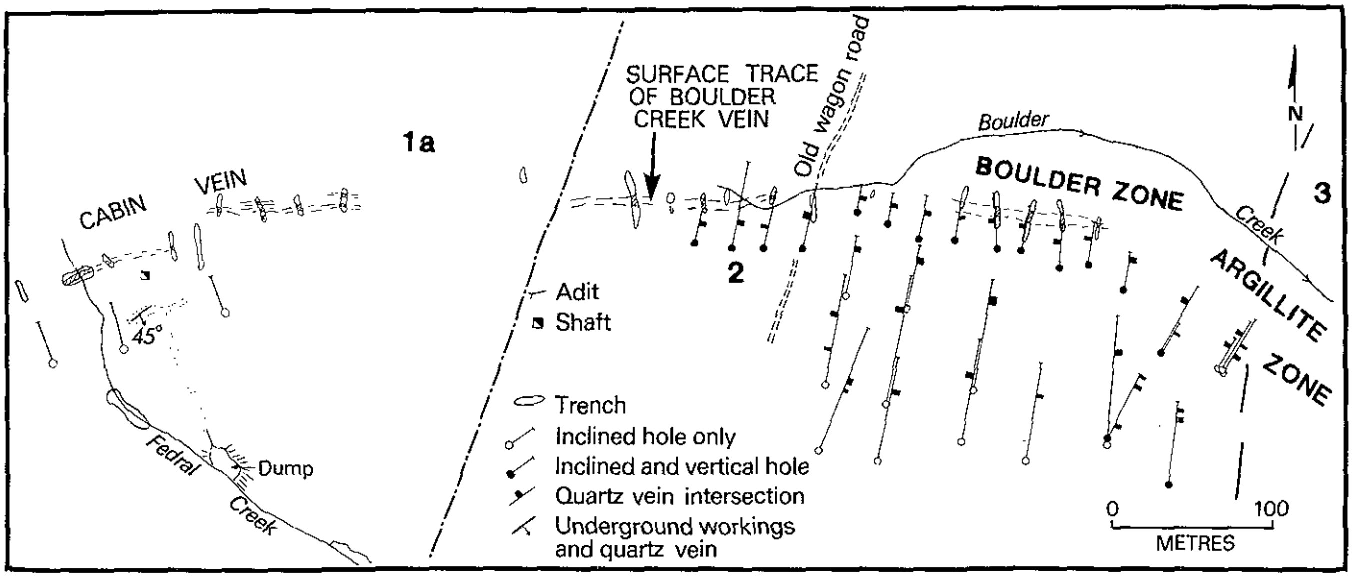

Figure B16. Geological sketch map and drill-hole plan of the Cabin and Boulder Creek zones (from MacIntyre, 1987).

1986 to April 1987, Teeshin Resources Ltd. drilled 57 holes to test eastern and western continuations of the Boulder zone. This work showed that the Cabin vein (MI 093L-275), located approximately 300 metres along strike to the west, is a continuation of the Boulder Creek vein. A new zone, the "Argillite zone", was intersected to the east and also appears to be a continuation of the Boulder zone.

In 1987, Teeshin Resources completed 150 metres of drifting and 67 metres of raises on the Boulder Creek vein. Total reserves for the Boulder Creek zone are currently 256,700 tonnes grading 14.95 grams per tonne gold and 96.00 grams per tonne silver (C. Stewart, Personnel Communication, 1987)

THE BOULDER CREEK VEIN

The Boulder Creek vein is located on the eastern limb of a southeast plunging open anticline (Figure B15). It cuts across section at an oblique angle, transecting a thick sequence of amygdaloidal flows and lapilli tuffs of the Lower Jurassic Nilkitkwa Formation of the Hazelton Group. Rocks in the hangingwall are sericitized near the vein and grade outward into strong chlorite alteration with local concentrations of epidote, quartz, carbonate and pyrite. Footwall rocks are generally less altered.

The vein has a sharp footwall contact that in most places appears to be sheared. Gouge occurs along it and is coincident with a narrow, weakly developed zone of bleached volcanic rocks (Figure B17). The hangingwall contact is gradational with a zone of pervasive sericite alteration that in places extends several metres into the wallrock. Both barren and galena-sphalerite-bearing quartz stringers occur within this altered zone; they both follow and crosscut the foliation and are both concordant and disconcordant to the auriferous zone. Quartz stringers, with or without carbonate stringers, are also common within chlorite-altered volcanic rocks away from the main vein; these stringers

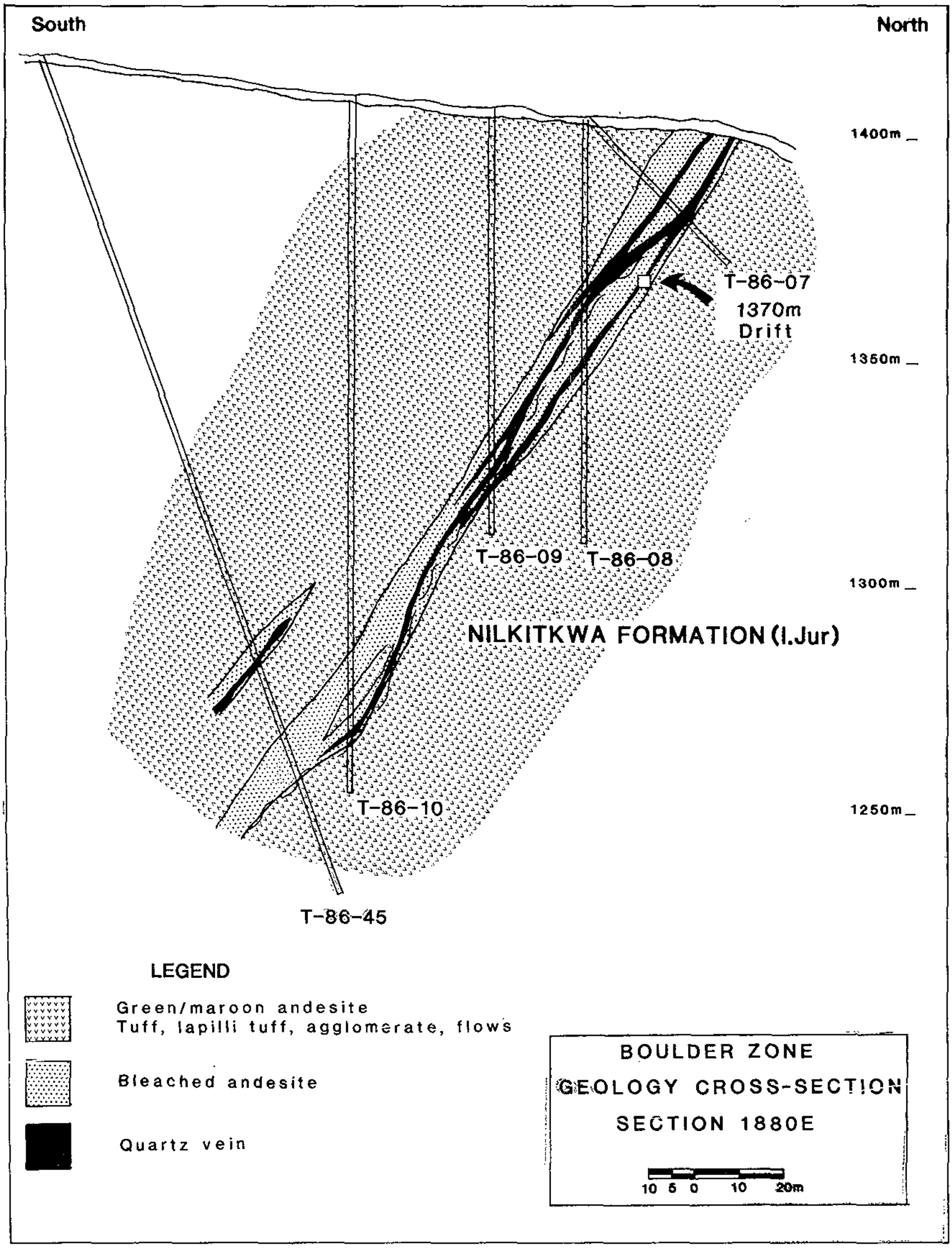

Figure B17. Cross-section of the Boulder Creek zone (from Stewart, 1987).

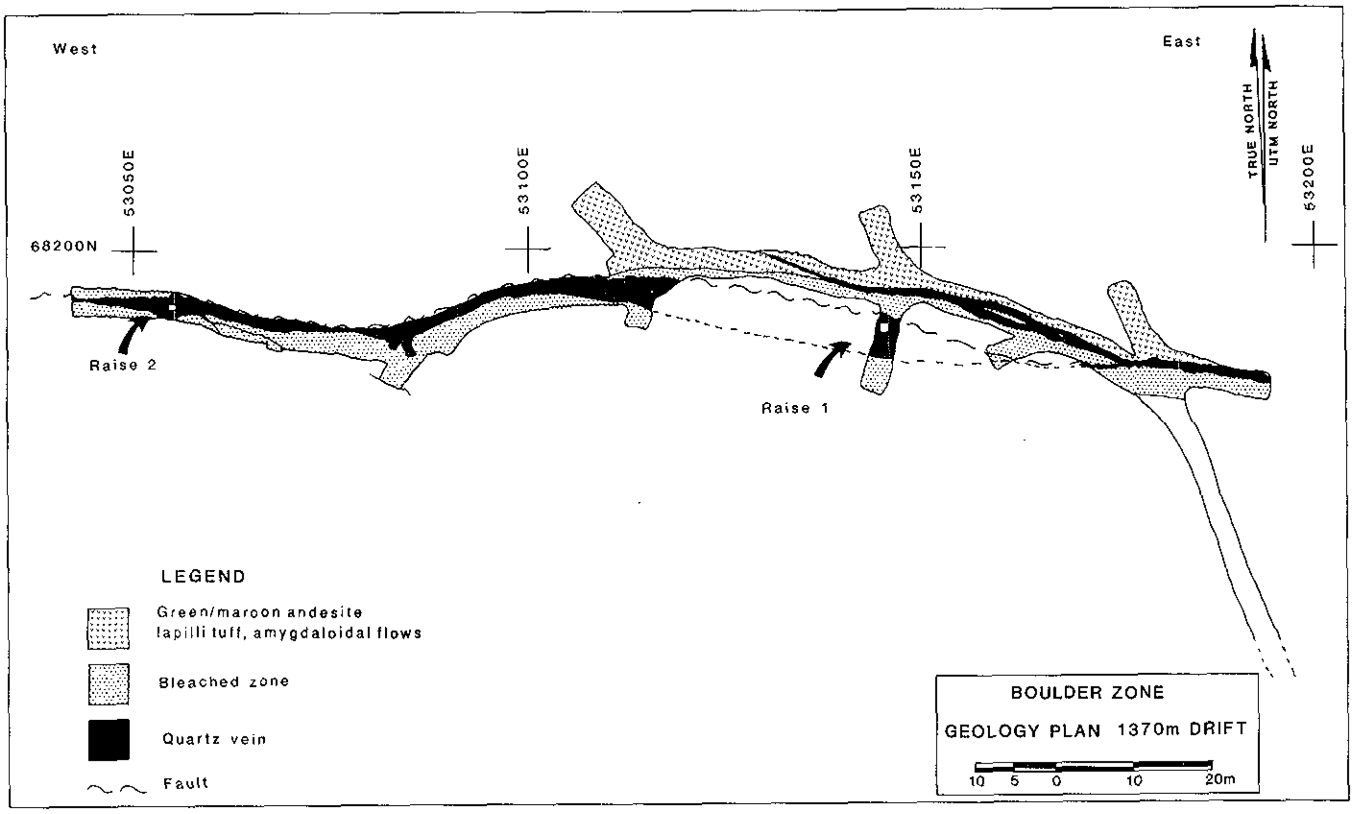

Figure B18. Geological plan of the 1370-metre level, Boulder Creek vein (from Stewart, 1987).

are parallel to an early slaty cleavage. Both the slaty cleavage and quartz veinlets are folded and cut by a younger crenulation cleavage.

The vein and an associated splay are well exposed along a 150-metre exploration drift completed by Teeshin Resources in 1987 (Figure B18). This work showed that the vein strikes east and dips from 40 to 60 degrees south. It is a brecciated to massive quartz-carbonate vein that contains a sulphide assemblage of pyrite, sphalerite, galena, and chalcopyrite. The wallrock adjacent to the vein is pervasively altered to sericite and green mica. The vein is cut and offset by several shear zones that have a similar trend to the vein. It pinches and swells from a thickness of less than 1 metre to a maximum of 15 metres. The widest parts of the vein are apparently tectonically thickened by stacking of small thrust panels. Underground the vein was oberved to be folded and offset by axial planar faults. This style of faulting produced a series of *en echelon* veins that may originally have belonged to one main vein system.

Sulphide minerals occupy fractures or form massive banded concentrations within the quartz vein. Highest grade sections contain as much as 40 per cent sulphide minerals as semi-massive to massive concentrations, coarse-grained crystal aggregates, fracture fillings, and disseminations. The sulphide minerals are 50 to 70 per cent pyrite with up to 10 per cent sphalerite, 5 per cent galena, and less than 1 per cent chalcopyrite. Pyrite crystals are commonly cracked or sheared and filled with other sulphides, suggesting recrystallization and remobilization has taken place during deformation. Gold occurs as tiny grains along pyrite boundaries or dissemminated in quartz-carbonate micro-veinlets.

ARGILLITE ZONE

The Boulder Creek vein extends southeastward into the Argillite zone, an irregular network of auriferous quartz veins within argillite of the Nilkitkwa Formation. This zone is at a higher stratigraphic level than the Boulder Creek vein which is mainly hosted by the underlying mafic volcanic unit. The Boulder and Argillite zones are mineralogically similar; the best gold grades occur where the quartz veins contain sphalerite and galena.

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HAZELTON 93M

BELL COPPER (Fig. B1, No. 12) — ***By M.H. Gunning***

LOCATION:	Lat. 55°00′ Long. 126°14′ (93M/1) OMINECA MINING DIVISION. Located on Newman Peninsula on the east side of Babine Lake, approximately 50 kilometres north of Topley and 70 kilometres northeast of Houston. Elevation 777 metres.
CLAIMS:	Mineral Leases M-134, M-135 and 98 claims and fractions.
ACCESS:	About 40 kilometres north from Topley on paved road to Granisle, then 10 kilometres gravel road to landing where a tug and barge provide transport across Babine Lake to the peninsula.
OWNER/OPERATOR:	NORANDA MINERALS INC. - BELL MINE.
COMMODITIES:	Copper, gold, silver.

DESCRIPTION:

HISTORY

The Bell open-pit mine (MI 093M-001) has been a producer of copper and gold since October 6, 1972. Work in the area was first recorded in 1909 with a brief reference to open cuts being completed along the western shore of the Newman Peninsula. The area received further work in 1913 when two adits, separated by about 200 metres, were driven easterly at lake level along seams of mineralization in andesitic rocks "near a granitic intrusion". The northern and southern adits were 16 and 10 metres long respectively. Mineralization consisted of disseminations and fracture fillings of chalcopyrite, pyrite, pyrrhotite, and minor sphalerite and tetrahedrite. The Babine claim was staked over these showings in 1927 by C. Newman who extended both adits by about 4 metres, sunk a winze from the southern adit and completed a third tunnel. These old workings are still visible today less than 1 kilometre west of the Bell orebody.

In 1962 Noranda Exploration Company, Limited, staked the ground following a reconnaissance geophysical traverse in the area. The next year, Noranda conducted a detailed soil and stream sediment sampling program and completed three short drill holes. The first drill hole of the 1964 program intersected the orebody and subsequent drilling in 1964 and 1965 totalled 13 000 metres in 132 holes. Open-pit reserves were initially estimated at 42 million tonnes grading 0.5 per cent copper. Exploration work continued from 1966 to 1969 and included further geochemical and geophysical surveys and an additional 18 000 metres of diamond drilling. Feasibility studies in 1967 showed that the Bell orebody contained geological reserves of 116 million tonnes grading 0.48 per cent copper and mineable reserves of 42 million tonnes grading 0.5 per cent copper to a depth of 300 metres, with a cutoff grade of 0.3 per cent copper (Hall and Craft, 1969). Recoverable gold was estimated at 0.35 gram per tonne. Construction of a 9000 tonne per day mill began in May of 1970 and production began on October 6, 1972. In 1980 the mill capacity was increased to 15 300 tonnes per day. The mine shut down in October 1982 due to low copper prices and re-opened in September of 1985. Gold currently accounts for roughly one-third of the value of the Bell mine concentrate. Since 1972, production has averaged approximately 5 million tonnes per year with 54 million tonnes having been milled with a recovered grade of 0.44 per cent copper and 0.35 gram per tonne gold. Exploration recommenced in 1986 and 1987 with extensive diamond drilling.

GEOLOGICAL SETTING

The Bell orebody is one of several porphyry copper-gold deposits in the Babine Lake area related to Eocene Babine intrusions. The Granisle mine is located about 8 kilometres to the south and the Morrison deposit about 25 kilometres to the north.

The orebody is hosted primarily within a stock of the Eocene Babine intrusions which has intruded along the contact of the Lower Jurassic Hazelton Group and the Middle Cretaceous Skeena Group (Figure B19).

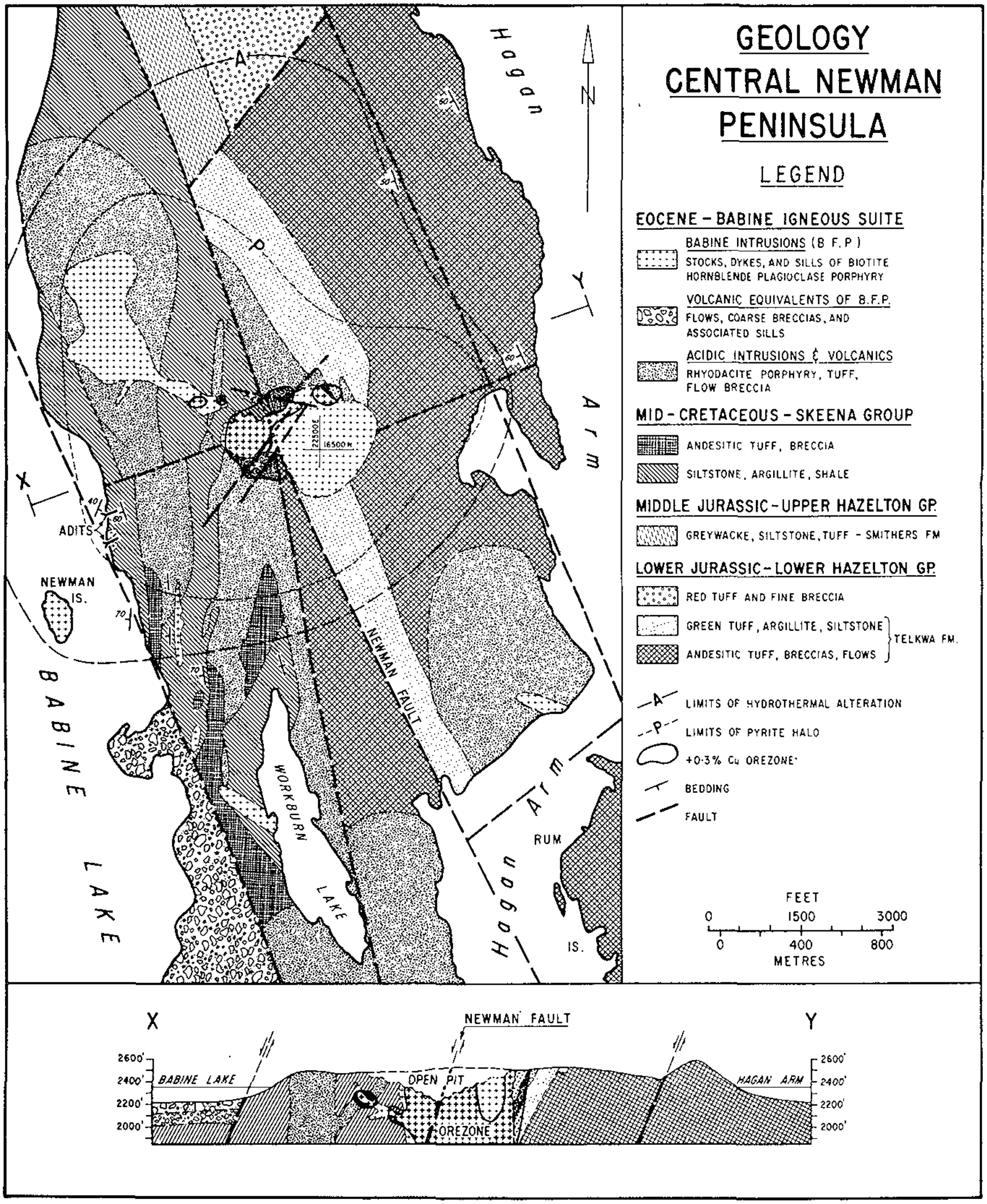

Figure B19. Geology of the Bell mine area (from Carson *et al.*, 1974).

The oldest rocks in the mine area are exposed east of the orebody and belong to the Lower Jurassic Telkwa Formation of the Hazelton Group. They are composed of well-bedded andesitic tuff and siltstone with lesser andesitic flows and mudstone. Bedding strikes northwest and dips 50 to 60 degrees to the southwest. These rocks have been juxtaposed against Cretaceous sedimentary rocks of the Skeena Group to the west by the northwest-trending Newman fault. This group comprises well-bedded greywackes, siltstones and argillites which also strike northwest and dip to the southwest.

The Babine intrusions form a group of plugs, dykes and dyke swarms which are unique to the Babine Lake area. They are composed of fine-grained, biotite-feldspar-porphyritic granodiorite to quartz diorite and range in age from 49 to 55 Ma (Carter, 1981). The main intrusive body at the mine is composed of a fine-grained, biotite to hornblende-biotite feldspar porphyry dated at 50.2 Ma (Carter, 1981). The stock is pear shaped to circular, 700 metres long and ranges from 200 to 600 metres wide. A narrow, northeast-trending dyke of biotite feldspar porphyry with sheeted biotite was dated at 49.8 Ma (Carter, 1981). The Babine intrusions are thought to mark ancient volcanic centres. Coarse breccias and acidic to intermediate tuffs and flows in the mine area may be their extrusive equivalents. Vertical breccia pipes from 2 to 10 metres in diameter with sharp contacts occur locally along the Newman fault. Breccia fragments are angular to subrounded, up to 10 centimetres across and reflect the composition of the adjacent host rocks.

Numerous faults occur on the Newman Peninsula. Most are northwest-trending normal faults with downdropped western blocks. The most important is the Newman fault along which the Bell mine intrusion was emplaced. The juxtapositioning of the Telkwa Formation and Skeena Group assemblages suggests vertical displacement of 700 to 1300 metres (Carson *et al.*, 1976) along this fault. This is the greatest known displacement on faults in the Bell area. The Bell orebody does not show a significant offset along the Newman fault although shear zones clearly mark the fault trace. Thus, most of the displacement on the fault predates mineralization. Cuddy (1980) indicates that copper grades decrease along the fault and that it was impermeable to mineralizing fluids during emplacement of the stock and subsequent alteration.

MINERALIZATION AND ALTERATION

Approximately three-fifths of the Bell orebody is located within the biotite-feldspar-porphyritic intrusion, with the remainder hosted by rocks of both the Telkwa Formation and Skeena Group. A dyke related to the main biotite feldspar porphyry pluton crosscuts the eastern portion of the orebody and the Skeena Group. The orebody is crescent shaped in plan and is greater than 300 metres deep. The main part of the ore zone comprises pyrite and chalcopyrite mineralization within a zone of very intense quartz-sericite alteration. The zone contains a stockwork of quartz veinlets often mineralized with pyrite, plus or minus chalcopyrite. Chalcopyrite is the principal copper mineral and occurs mainly as finely disseminated grains and to a lesser extent as fracture coatings. Peripheral to the quartz-sericite core is a halo of chalky white alteration with brown biotite, referred to as the sericite-carbonate zone. The chalky white texture may represent plagioclase phenocrysts altered to kaolinite. The reader is referred to Carson *et al.* (1976), Cuddy (1980) and Carter (1981) for detailed descriptions of the mineralization and alteration styles at the Bell mine.

Gold is an economically significant byproduct of the Bell mine; it accounted for almost a third of the value of production in 1987. From 1972 to 1985 an average of 0.35 gram per tonne gold has been recovered, representing 50 per cent recovery (Cuddy, 1980).

A sampling program was undertaken by the writer from July 23 to 25, 1987 in order to determine if there is any correlation of gold with silver and base metal mineralization. Sampling was done completely within the open pit and samples were taken both within and outside the biotite feldspar porphyry, and within both the quartz-sericite alteration core and the peripheral sericite-carbonate zone. Seams of massive pyrite and chalcopyrite were sampled as well as the sheeted biotite feldspar porphyry dyke. Analyses of 32 samples are shown below in Table B1.

Figure B20 clearly shows the positive correlation between copper and gold mineralization in the Bell orebody first noted by Cuddy (1980). The higher gold-copper values also correspond with the zone of pervasive quartz-sericite alteration characterized by a stockwork of quartz veinlets and quartz flooding. Silver concentrations are generally low. However, the three highest gold values (Samples MG-87-128a, 128b, 129; Table B1), obtained from samples taken from the centre of the orebody, correspond with three of the highest silver concentrations recorded.

TABLE B1
ANALYSIS OF BELL MINE SAMPLES

Sample No.	Host Rock	Alteration (most significant first)	Analysis Au ppb	Ag ppm	Cu %	Pb ppm	Zn ppm
MG-87-100	Biotite feldspar porphyry	Sericite-carbonate	20	<1	0.03	5	88
MG-87-101	Andesite (Telkwa Fm.)	Quartz-sericite, sericite-carbonate	90	<1	0.42	12	38
MG-87-102a	Andesite (Telkwa Fm.)	Quartz-sericite	120	<1	0.35	9	42
MG-87-102b	Shear zone	Massive pyrite	100	<1	0.38	4	17
MG-87-103	Biotite feldspar porphyry	Quartz-sericite, sericite-carbonate	140	<1	0.45	11	21
MG-87-104	Andesite	Quartz-sericite	40	<1	0.04	5	23
MG-87-105	Biotite feldspar porphyry	Quartz-sericite, sericite-carboante	190	<1	0.68	24	23
MG-87-106	Biotite feldspar porphyry	Quartz-sericite, sericite-carbonate	180	<1	0.32	23	35
MG-87-107	Biotite feldspar porphyry	Sericite-carbonate	20	<1	0.05	20	66
MG-87-108	Biotite feldspar porphyry	Quartz-sericite, sericite-carbonate	270	<1	0.69	11	50

MG-87-109	Tuff (Skeena Group)	Sericite-carbonate	30	<1	0.04	8	41
MG-87-110	Shear zone	Massive pyrite	20	<1	0.01	8	20
MG-87-111	Tuff (Skeena Group)	Sericite-carbonate	20	<1	0.04	16	65
MG-87-112	Shear zone	Massive pyrite	100	2	0.03	24	17
MG-87-113	Tuff (Skeena Group)	Sericite-carbonate, quartz-sericite	40	0.5	0.12	10	74
MG-87-114	Tuff (Skeena Group)	Sericite-carbonate, quartz-sericite	50	<1	0.16	22	102
MG-87-115	Dacite (B.F.P. extrusive equivalent)	Quartz-sericite, sericite-carbonate	60	<1	0.21	26	35
MG-87-116	Dacite (B.F.P. extrusive equivalent)	Quartz-sericite, sericite-carbonate	60	<1	0.22	32	74
MG-87-117	Biotite feldspar porphyry	Quartz-sericite	50	<1	0.47	7	39
MG-87-118	Biotite feldspar porphyry	Quartz-sericite, sericite-carbonate	130	<1	0.37	15	14
MG-87-119	Biotite feldspar porphyry	Sericite-carbonate	20	<1	0.003	13	9
MG-87-120	Biotite feldspar porphyry dyke	Sericite-carbonate	20	<1	0.11	18	10
MG-87-121	Biotite feldspar porphyry	Sericite-carbonate	20	0.5	0.03	10	9
MG-87-122	Biotite feldspar porphyry	Quartz-sericite, sericite-carbonate	160	1	0.55	18	16
MG-87-123	Biotite feldspar porphyry	Sericite-carbonate	50	0.5	0.06	18	23
MG-87-124	Fault zone	Fault gouge	70	0.5	0.19	8	72
MG-87-125	Tuff (Skeena Group)	Quartz-sericite	70	<0.5	0.22	31	38
MG-87-126	Biotite feldspar porphyry	Quartz-sericite	450	<0.5	0.33	25	35
MG-87-127	Biotite feldspar porphyry dyke	Sericite-carbonate	20	0.6	0.01	25	92
MG-87-128a	Biotite feldspar porphyry dyke	Quartz-sericite	640	1	1.2	17	20
MG-87-128b	Biotite feldspar porphyry dyke	Quartz-sericite, sericite-carbonate	470	1	0.66	20	98
MG-87-129	Biotite feldspar porphyry	Quartz-sericite	790	3	1.5	19	70

Vertical shear zones which strike northeast and contain massive fine-grained pyrite are exposed on the western side of the pit; sampling shows that they are not anomalous in either base or precious metals.

Table B2 shows the results of the analysis of a 115-kilogram sample from 370 metres of drill core through the west part of the "high-grade" quartz-sericite-pyrite-chalcopyrite zone (Carson *et al.*, 1976). The sample represents grades from the upper levels of the orebody and comparisons of these grades to those obtained in this study from lower levels suggests correlations of metal concentrations with depth in the orebody.

TABLE B2
ANALYSIS OF 115-KILOGRAM SAMPLE, BELL OREBODY

Au	0.72 ppm	Mo	0.006%
Ag	2.1 ppm	Pb	200 ppm
Cu	0.95%	Zn	700 ppm

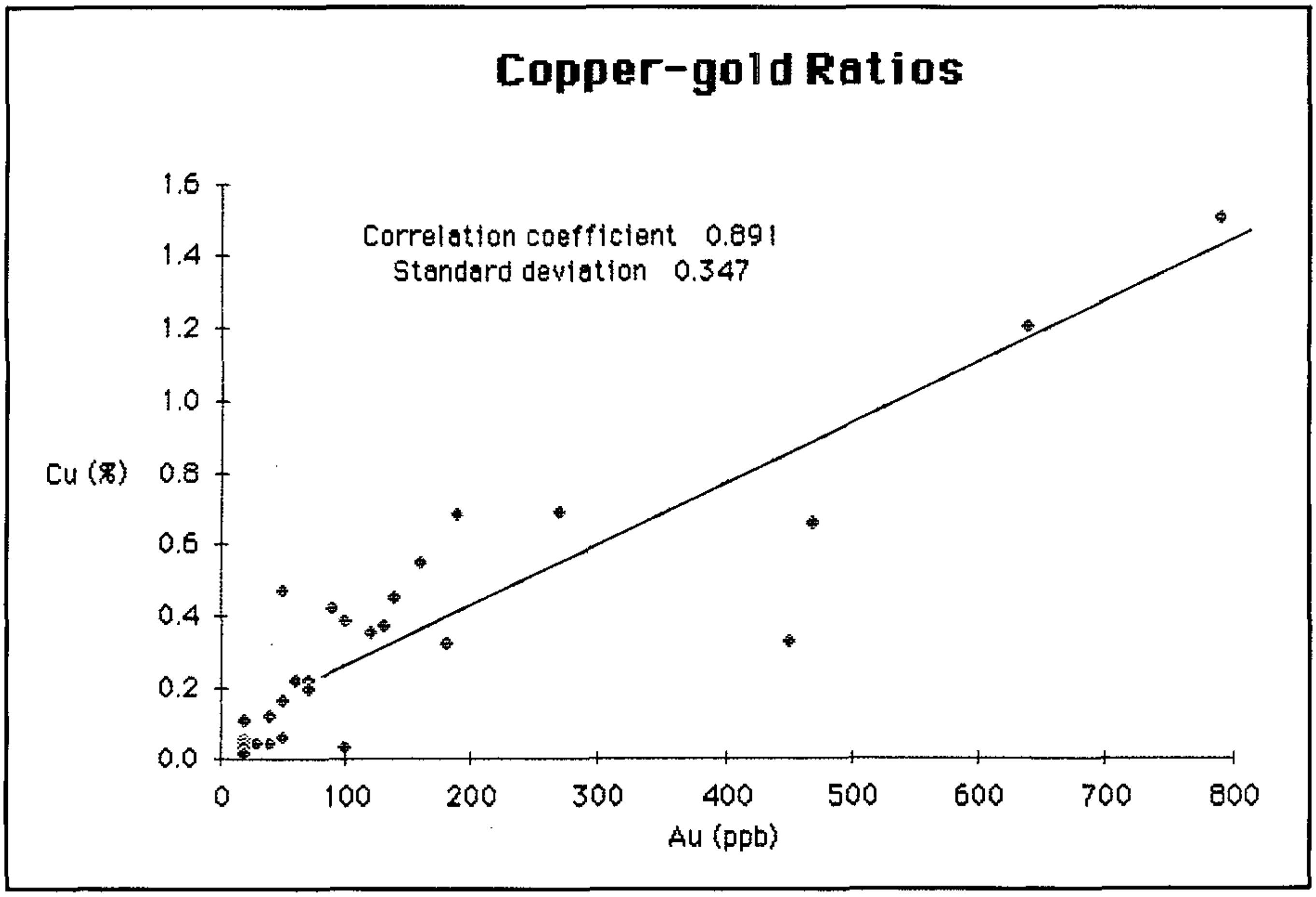

Figure B20. Graph showing positive correlation of gold and copper mineralization in the Bell orebody.

The average lead and zinc concentrations from 31 samples (*see* Table B1) taken from the lower levels in the pit are 16.0 and 51.4 ppm respectively. Although there are many factors which may influence lead and zinc distribution, these results suggest that lead and zinc mineralization decrease with increased depth in the orebody.

The average gold content in the four samples taken from the core of the orebody near the bottom of the pit (Samples MG-87-126, 128a, 128b, 129; Table B1) averaged 0.588 ppm gold as opposed to 0.72 ppm gold in the 115-kilogram sample. This difference (18 per cent decrease) in gold content is small and certainly more sampling is needed to ascertain if there is a consistent decrease in gold content with increased depth in the Bell orebody. The average copper content of these four samples is 0.92 per cent which is very similar to the value shown in Table B2 (0.95 per cent) suggesting that copper grades remain constant relative to depth.

Samples MG-87-128a and 128b were taken from the biotite feldspar porphyry dyke often containing sheeted biotite. The dyke is 0.4 Ma younger than the main pluton (Carter, 1981), is generally barren and lies primarily outside of the quartz-sericite alteration core. These two samples are, however, intensely quartz-sericite altered and contain ore-grade concentrations of copper and gold (Table B1). This suggests that mineralization and hydrothermal alteration occurred very late in the subvolcanic intrusive history of the Newman Peninsula.

WORK DONE

Exploration work at the Bell mine in 1987 consisted of approximately 2200 metres of diamond drilling attempting to increase mineable reserves in the main orebody. An additional 6.7 million tonnes of ore had already been defined by 1986 drilling, extending the mine life to October 1989.

ACKNOWLEDGMENTS

Much appreciation is due to the staff of Noranda Minerals Inc. at the Bell mine, in particular Brian Anderson (Mine Engineer), for their support and cooperation during this study. The article benefited from discussions with David Lefebure (District Geologist, Smithers) and D.J.T. Carson (Geologist, Noranda Minerals Inc.).

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MANSON RIVER 93N

TAKLA RAINBOW (Fig. B1, No. 13) **By E.L. Faulkner**

LOCATION:	Lat. 55°39′	Long. 125°17′	(93N/11W)
	OMINECA MINING DIVISION. The property is located approximately 48 kilometres west of Manson Creek.		
CLAIMS:	TAKLA, RAINBOW, TWIN 1-6, TRA, TRB, TRC, TRD, TRE, TRF, TRG.		

ACCESS:	From the Manson Creek to Takla Landing road, east of the Twin Creek crossing, a 14-kilometre 4-by-4 road leads to the property.
OWNER:	Cathedral Gold Corporation Ltd.
OPERATOR:	IMPERIAL METALS CORPORATION LTD.
COMMODITIES:	Gold, silver.

DESCRIPTION:

The property is located in a broad southeast-trending valley at the headwaters of Twin Creek. Regionally it lies within a northwest-trending tongue of andesitic volcanic rocks belonging to the Takla Group of Upper Triassic to Lower Jurassic age that projects into the eastern border phase of the Hogem batholith. The geology of the batholith and surrounding area has been described in detail by Garnett (1978), who considers the batholith to be largely the intrusive equivalent of the Takla volcanics.

There are no outcrops in the area of current exploration. The geology in this area has been determined from drill core and extrapolation from adjacent claims. The original nature of the rocks is commonly obscured by intense alteration. There has been at least one phase of widespread alteration associated with the intrusive igneous activity and at least one phase of more localized alteration associated with the mineralization.

The principal rock type is a massive to porphyritic andesite that has been moderately to intensely chloritized, with feldspar in phenocrysts and groundmass largely replaced by a mixture of sericite, calcite and chlorite. Minor amounts of chloritized basalt flows, coarse volcanic breccia and lapilli tuffs are also present. Pesalj (Assessment Report 16759) reports that the volcanic rocks are striking southeast, with steep southwest dips and tops facing southwest. Widespread fracture-controlled carbonate alteration affects all rock types to some degree. Disseminated pyrite and rare chalcopyrite occur associated with minor propylitic alteration, but it is not clear if the sulphides and accompanying alteration are part of the main mineralizing event, or related to the more widespread alteration associated with the Hogem batholith.

Intrusive igneous rocks on the property can be related to the border phase of the Hogem batholith. The most common are irregular granitic dykes that appear to roughly parallel the local southeasterly structural trend. They are pale, sericitized and carbonatized, massive to porphyritic dykes that vary from granite to granodiorite in composition. Massive fine-grained diorite dykes are also present and show varying degrees of propylitic alteration. Fresh monzonite dykes represent the latest phase of intrusive activity.

MINERALIZATION

There is a history of placer mining in the region dating from the 1880s, and Twin Creek is currently a producing placer creek. Previous mineral exploration in the area was largely for porphyry copper-molybdenum deposits and a history of this exploration is given by Pesalj. Current exploration is concentrated on areas of coincident gold and copper soil geochemical anomalies and induced polarization anomalies.

Most of the strongly altered volcanic rocks in the area are geochemically anomalous in gold and silver. Economic mineralization discovered to date occurs in three zones: the West, East and South zones. Within these zones, mineralization occurs in one or more narrow, steeply dipping, southeast-striking shears. The mineralized zones are on or near the contacts of porphyritic granodiorite dykes and the mineralization appears to be genetically and spatially related to this intrusive phase. It consists of veinlet and disseminated quartz with native gold, pyrite and chalcopyrite, minor magnetite, galena, sphalerite and hematite. Local alteration includes silicification and carbonatization within a large well-defined halo of disseminated pyrite.

ORE RESERVES

A preliminary calculation of ore reserves in the most persistent shear zones has been made. Drill-indicated reserves are 200 000 tonnes grading 13 grams per tonne gold over a width of 1.5 metres, uncut and undiluted.

WORK DONE

1987 work included 14 kilometres of road building, 23 diamond-drill holes totalling 6340 metres, soil geochemistry and geophysics (VLF-EM and IP).

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TERRACE 103I

KITIMAT PROJECT (Fig. B1, No. 14) **By M.H. Gunning**

LOCATION: Lat. 54°08′ Long. 128°43′ (103I/2)
SKEENA MINING DIVISION. The property is located on the west side of Bowbyes Creek about 9 kilometres northwest of Kitimat. Elevation 600 metres.

CLAIMS: BILLY 1-11 (224 units).

ACCESS: By gravel logging road north from Kitimat to the Little Wedeene River, then west to Bowbyes Creek, then south to the property, totalling less than 20 kilometres.

OWNER: Laramide Resources Ltd.

OPERATOR: B.P. RESOURCES CANADA LTD. - SELCO DIVISION.

COMMODITIES: Gold, silver.

DESCRIPTION:

HISTORY

Three showings were discovered on the Billy claims (MI 103I-218) by Laramide Resources Ltd. in 1986. Further work was done on the property in 1987 by B.P. Resources Canada Ltd. - Selco Division which revealed a fourth showing.

The Billy claim group is underlain by a sequence of Lower Jurassic volcanic rocks of the Telkwa Formation belonging to the Hazelton Group (Figure B21). These rocks lie completely within the Coast crystalline belt. The host rocks for the two showings are mafic to felsic lapilli tuffs, quartz-feldspar crystal tuffs and volcanic breccias that are often weakly metamorphosed and foliated. The felsic crystal tuffs often have a bleached weathered surface. Foliation is often defined by chlorite and generally strikes northeast, dipping moderately to the northwest parallel to regional bedding. The

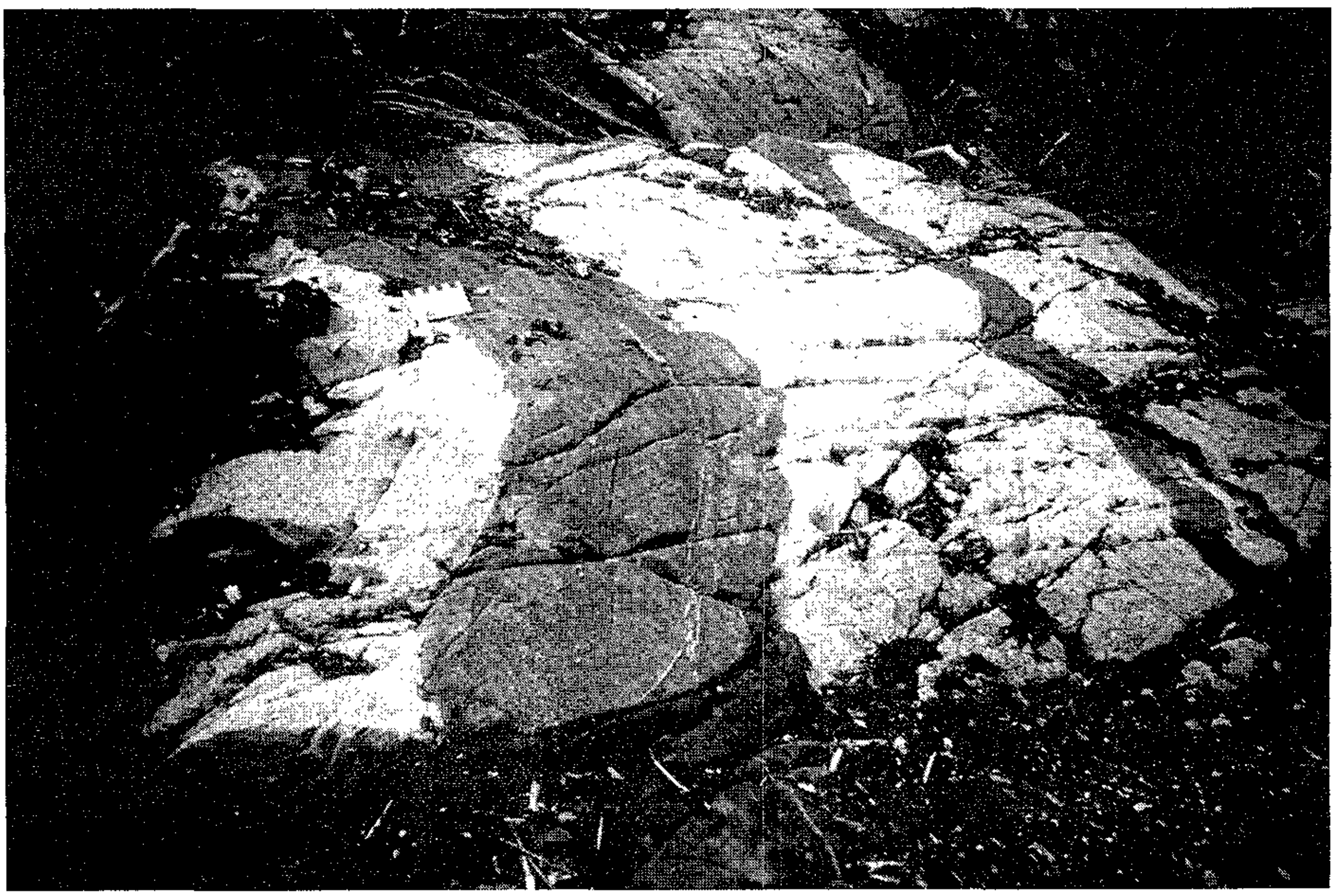

Plate B17. An andesite dyke or sill crosscutting bleached crystal tuffs.

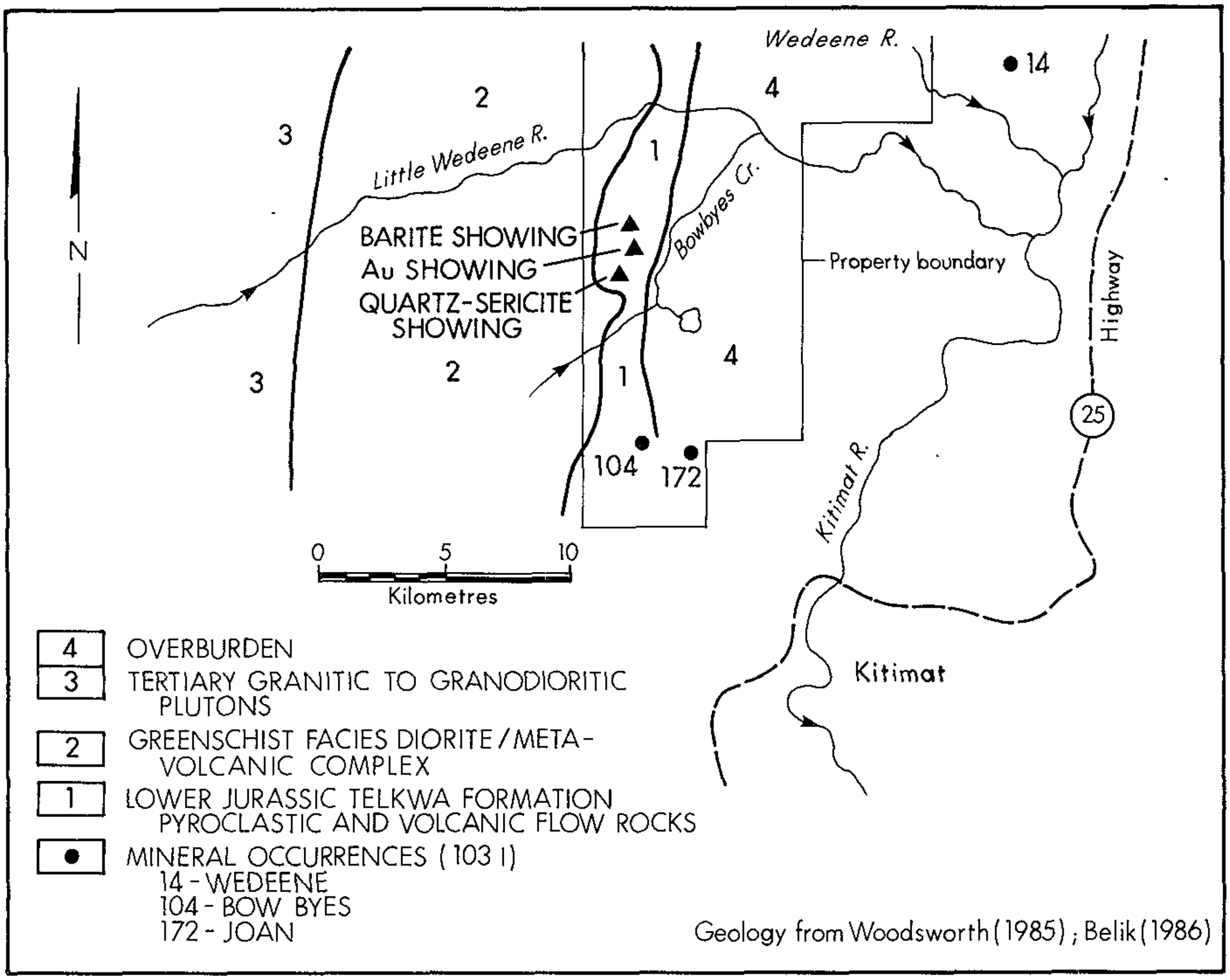

Figure B21. Geology and mineral occurrences of the Kitimat area.

surrounding rocks of the Coast crystalline belt consist of granitic to granodioritic plutons of Tertiary age. A suite of Jurassic to Cretaceous diorite and metavolcanic rocks, often metamorphosed to a lower greenschist facies, outcrops between the Tertiary plutons and the Jurassic volcanic rocks.

Dykes are an extremely common feature on the property with at least three lithologies present. The dykes are generally barren and unaltered, and do not have a preferred orientation. They comprise a dark green massive basalt, a hornblende-porphyritic andesite and fine-grained diorite (Plate B17).

The Au, Quartz-sericite and two barite showings have been discovered on the Billy claims. Laramide Resources Ltd. identified a barite showing on a logging landing close to the contact of the diorite and metavolcanic rocks to the west. Semimassive to massive barite was found in float while surrounding outcrops consisted of pyritized rhyolitic tuffs and agglomerates. B.P. Resources Canada Ltd. - Selco Division then located several lenses of massive barite up to 1.1 metres thick and 15 metres long. The footwall of the lenses is composed of highly altered and recrystallized volcanic rocks and there is a zone of semimassive barite 65 centimetres wide in the hangingwall. The lenses are cut off along strike by dykes and dioritic plugs. Six chip samples from this showing were anomalous in silver, gold, copper and zinc.

Laramide Resources suggested that the barite formed in an environment dominated by intermediate to felsic pyroclastic volcanic rocks that may have been favourable for massive sulphide deposition. B.P. Resources suggests that the barite has a metasomatic origin related to the diorites bordering the volcanic rocks to the west. The barite showings are located 500 and 1500 metres to the northeast of the Au and Quartz-sericite showings respectively.

The Quartz-sericite showing is a zone of pervasive silicification and sericite alteration up to 70 metres wide and contains from 10 to 20 per cent pyrite. The sericite has a distinct foliation which strikes northeast. The hangingwall of the zone consists of quartz-eye lapilli tuffs and dacitic tuffs while the footwall consists of mafic tuffs and lapilli tuffs (Belik, 1986; Assessment Report 15528). The zone appears to be slightly lower stratigraphically than the Au showing located 1 kilometre to the northeast. Samples taken from this zone are not anomalous in gold.

The Au showing comprises a zone less than 5 metres wide which strikes northeast, dips 50 to 60 degrees to the northwest and is characterized by pervasive silicification, epidotization and brecciation. The zone contains minor disseminated pyrite and trace amounts of galena. Two hornblende-porphyritic andesite dykes occur at the margins of the alteration zone. The alteration and mineralization are hosted within, and overlain by, coarse felsic lapilli tuffs to agglomerates. The footwall of the zone comprises intermediate to mafic tuffs and lapilli tuffs.

A chip sample taken across the Au showing in 1987 returned 2.4 grams per tonne gold over a width of 5 metres. Follow-up diamond drilling in the fall of 1987 yielded a 2.04-metre intersection from the Au showing containing 0.27 gram per tonne gold. Diamond drilling downdip and along strike from the showing failed to produce any significant results.

WORK DONE

B.P. Resources Canada Ltd. - Selco Division, under an option agreement with Laramide Resources Ltd., carried out geological mapping, soil and silt sampling, and an induced polarization survey over part of the property. A total of 200 metres of diamond drilling was done in three holes.

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GOLD LITHOGEOCHEMISTRY OF BRONSON CREEK AREA, BRITISH COLUMBIA (104B 10W & 11E)

by D.V. Lefebure and M.H. Gunning

INTRODUCTION

Poor access and rugged terrain has hindered mineral exploration in the mountains north and west of the Stewart mining camp and it has been only in the last decade that precious metal deposits such as Sulphurets, Stonehouse and Snip have been found in this difficult area. Much of the current exploration interest is focused on the area surrounding the lower Iskut River, particularly near Bronson Creek.

The regional geological database for the Iskut River area is limited to mapping by Kerr (1948) based on field work completed from 1927 to 1929 and a compilation map produced as part of Operation Stikine in 1957. Very little data were gathered from the Bronson Creek area during these projects. Grove (1971, 1986a) describes the Stewart complex, however, his maps do not extend as far west as the Iskut River area. Company reports are the principal source of information.

The need for additional geological information has been recognized by both the provincial and federal governments. R.G. Anderson of the Geological Survey of Canada is mapping the Iskut River sheet at a scale of 1:250 000. D.J. Alldrick and J.M. Britton of the British Columbia Ministry of Energy, Mines and Petroleum Resources are currently mapping in the Sulphurets and Unuk River areas and will move west to the Iskut River area when these map sheets are completed. In the Bronson Creek area the senior author is carrying out a mapping project at 1:25 000-scale for the British Columbia Ministry of Energy, Mines and Petroleum Resources.

EXPLORATION HISTORY

The first exploration in the Iskut River area occurred in 1906 or earlier (Kerr, 1930). Nine claims were staked in 1907 to cover some galena-sphalerite veins near Bronson Creek on the north side of Johnny Mountain (L'Orsa, 1974b). In 1909(?) the Red Bluff claim was located on the west side of Bronson Creek and a ton of ore was shipped by the Iskut Mining Company which was reported to have returned $44.41 (Kerr, 1930). The company staked additional claims in 1910 and all claims were surveyed in 1912 and were crown-granted in 1914-1918. The Iskut Mining Company remained the only explorer in the area until 1929 when a total of 48 claims were staked on behalf of The Consolidated Mining and Smelting Company of Canada, Limited, adjacent to the Red Bluff property.

There is no record of subsequent exploration activity until the 1950s when Hudson Bay Mining and Smelting Co. Ltd. discovered the

There is no record of subsequent exploration activity until the 1950s when Hudson Bay Mining and Smelting Co. Ltd. discovered the Pick Axe showing on Johnny Flats (Sevensma, 1981). This discovery was the first of a number of new showings located in the last 35 years in the Bronson Creek area, including the Cloutier (Discovery), 16 Vein, Inel, Gossan and Snip.

GEOLOGY

A northwest-trending belt of Permian to Lower Jurassic volcanic and sedimentary rocks and their metamorphic equivalents trends northward from Alice Arm to Telegraph Creek and forms part of Stikinia. It is bounded to the west by the Coast Complex and is overlapped to the east by the clastic sediments of the Bowser Basin.

The dominant lithologies in the Bronson Creek area are clastic sediments and volcanics with minor carbonate lenses which are intruded by a diverse suite of intrusive rocks, most commonly granitic and syenitic. The sedimentary rocks are sandstones, (typically greywackes), siltstones, shales, argillites, conglomerates and minor limestones. Volcanic rocks vary in composition from mafic to felsic and display a wide variety of igneous, pyroclastic and volcaniclastic textures.

Kerr (1948) correlated most of the rocks along Bronson Creek with Triassic volcanics that he had seen farther to the north and northwest. These volcanics consist of intensely folded and sheared tuffs, agglomerates, lavas, rare pillow lavas and bedded sediments. He believed that the volcanics are overlain by Triassic argillites with lenses of limestone. The lower northern and western slopes of Johnny Mountain are underlain by pre-Permian metamorphosed shale, sandstone and limestone.

Exploration geologists have defined stratigraphic columns for specific properties (Birkeland and Gifford, 1973; Sevensma, 1981) and for the area as a whole (Parsons, 1965; and Bending, 1983). Bending defined a stratigraphic column with black argillite conformably overlain by banded siltstone which underlies a green volcanic unit composed principally of intermediate to felsic rocks. The green volcanic unit has an irregular upper contact with the "Upper Tuffaceous Sedimentary unit," a sequence of limestones, tuffaceous sandstones, argillites and siltstones with lenses of conglomerate near the upper contact. At the top of Bending's sequence is hornblende-biotite andesite tuff and subordinate breccia. Based on descriptions by Kerr (1930, 1948), Bending correlated the basal argillite and siltstone with the upper Paleozoic, the green volcanic unit with the Triassic and the upper tuffaceous sediments with the lower Jurassic. Fossils collected from 350 metres southwest of Snippaker Peak have been determined as Lower Jurassic, probably Toarcian age, by H.W. Tipper of the Geological Survey of Canada (Graf, 1985).

Grove (1986b) subdivided the sedimentary and volcanic rocks on the top of Mount Johnny into the Unuk River and Betty Creek formations of the Hazelton Group, based on correlations with his work to the east.

MINERALIZATION

Several types of mineralization have been identified in the Bronson Creek area.

1. Sulphide veins/shears
2. Quartz-pyrite veins
3. Quartz-galena-sphalerite veins
4. Chalcopyrite-molybdenite veinlets and disseminations
5. Quartz±chlorite veins

The first three types have associated precious metal contents. The fourth is disseminated porphyry-style mineralization on the Inel property (L'Orsa, 1974a) and the fifth type consists of numerous bull quartz and quartz-chlorite veins with no associated alteration halos and which often carry no anomalous precious metal values (Bending, 1983). However, eight grab samples of similar veins collected in 1987 averaged 131 ppb gold with a maximum value of 600 ppb gold. Based on these results, these veins should be routinely sampled even if they hold little apparent potential for gold mineralization.

The first four types of mineralization have associated wallrock alteration halos. The massive sulphide veins are often enveloped by zones of intense alakli metasomatism which typically extend no more than the width of the vein into the wallrock. Carbonate alteration, typically ankeritic, is also common around veins. Local silicification is an important guide to ore.

LITHOGEOCHEMISTRY

Grab samples of rock were collected by the authors, to test for correlations between lithology and gold values. The samples were analysed at the Ministry of Energy, Mines and Petroleum Resources laboratory using fire assay followed by analysis by atomic absorption. The limit of detection for this technique is 20 ppb gold. A total of 174 samples were analysed; gold values are plotted on Figures B35 and B36.

High gold gold values were found in sampling massive sulphide or quartz±sulphide veins. The average gold content is 1676 ppb gold for 24 samples, with a maximum value of 15 300 ppb gold and ten samples exceeding 100 ppb gold. The number of samples collected for most lithologies is too small to characterize their gold content. The sedimentary rocks (35 samples) and intermediate to felsic volcanic rocks (28 samples) contain average gold values of 28.7 and 23.5 ppb respectively. The dispersion of gold into the country rocks appears to be limited as the altered wallrocks typically contain low gold values. Fifteen samples of pyritized rock average 22.9 ppb gold and fourteen samples with potassium feldspar alteration and pyrite average 27.5 ppb gold.

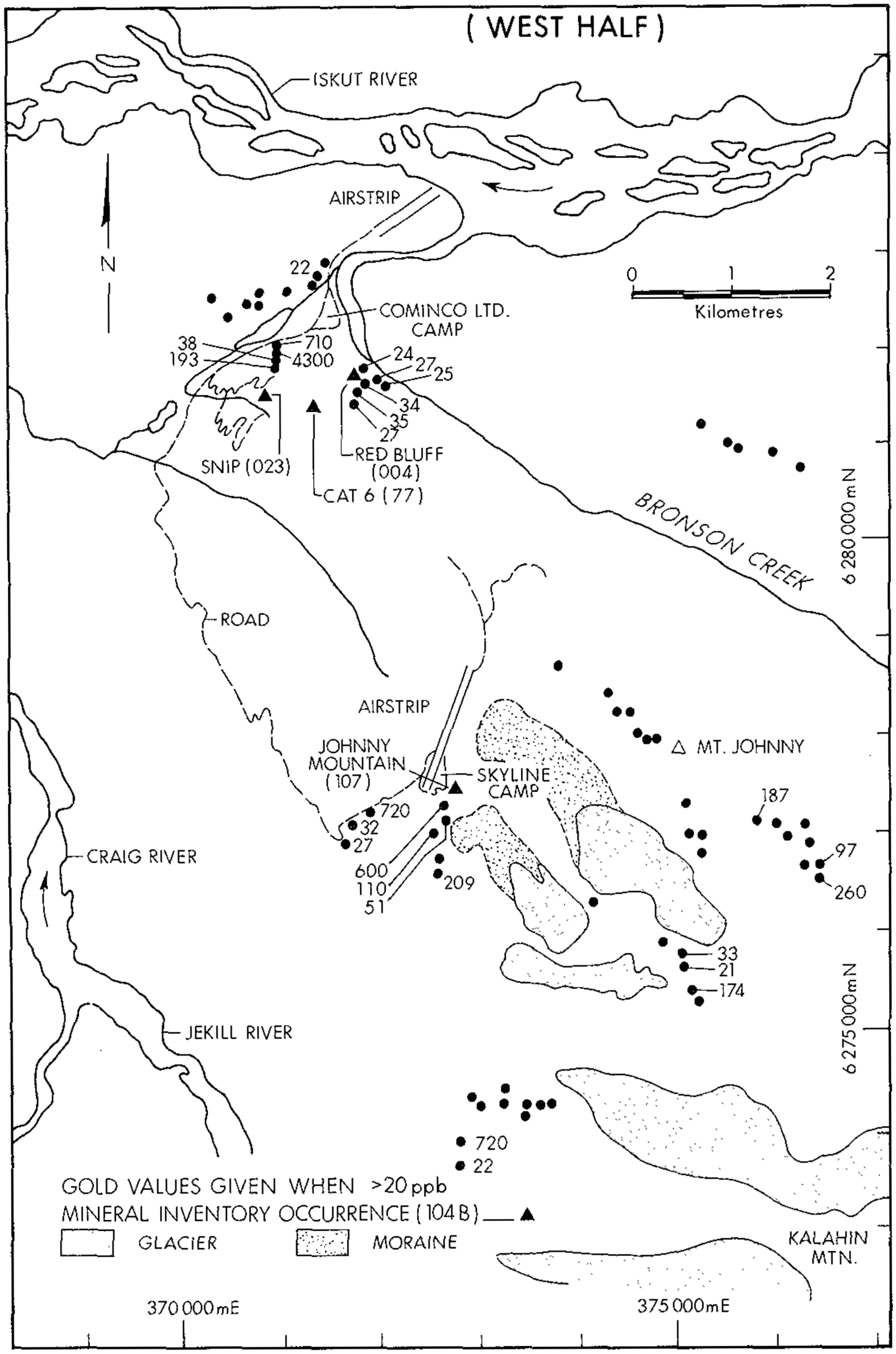

Figure B35. Bronson Creek area (west half) showing location of mineral occurrences and lithogeochemical sampling stations.

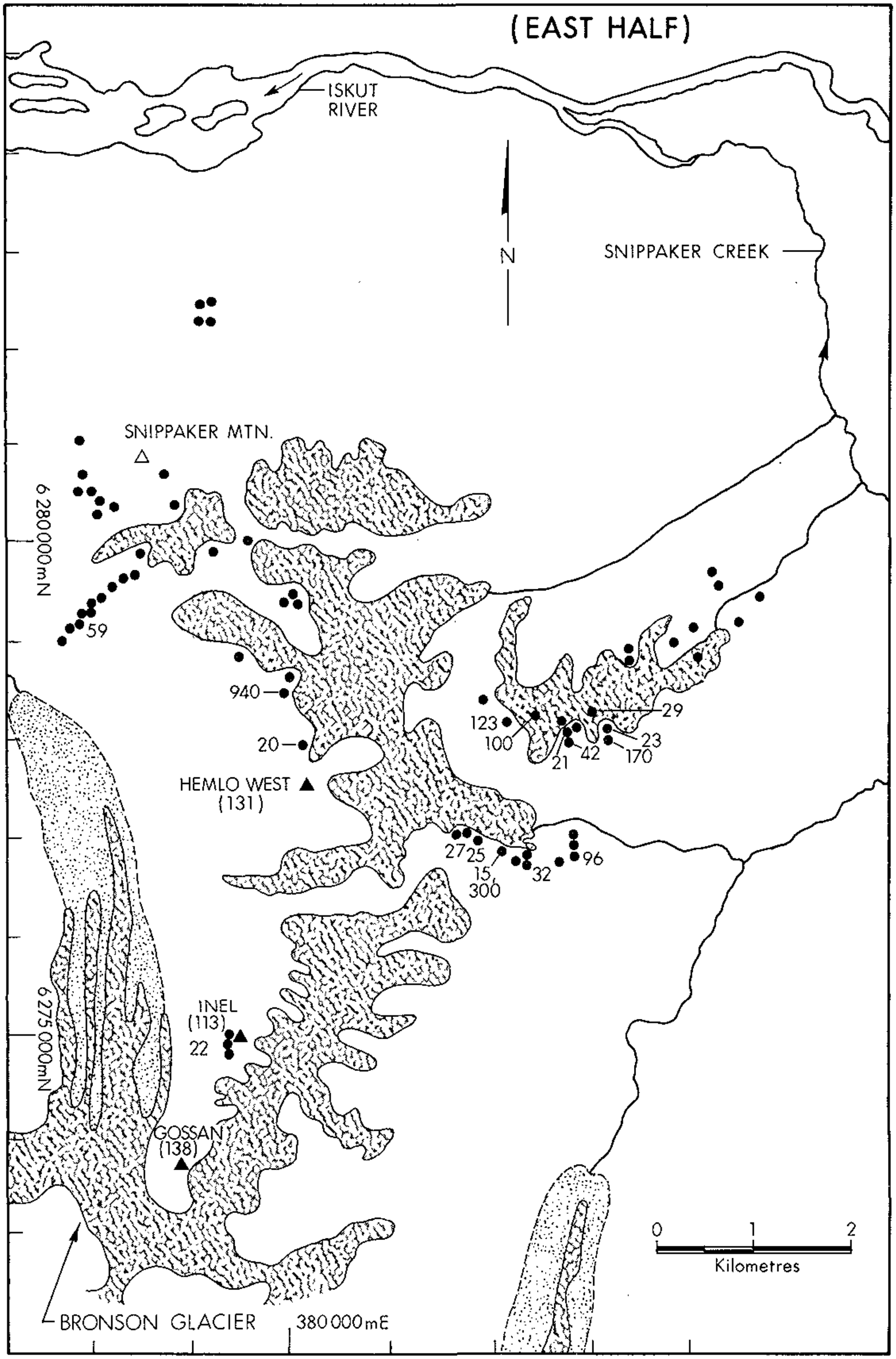

Figure B36. Bronson Creek area (east half) showing location of mineral occurrences and lithogeochemical sampling stations. For legend see Figure B35.

CONCLUSIONS

Traditional prospecting will continue to be important in the Bronson Creek area because most mineralized zones discovered to date are easily identified by the presence of sulphides and quartz. Initial data indicate that the dispersion of gold around these zones is limited; altered rocks contain gold values near the limits of analytical detection and close to background values.

ACKNOWLEGMENTS

The support of Wes Johnson and his staff who provided the analyses is gratefully acknowledged. Cominco Ltd. grac8iously allowed the authors and their assistants to work out of their camp during the sample collection.

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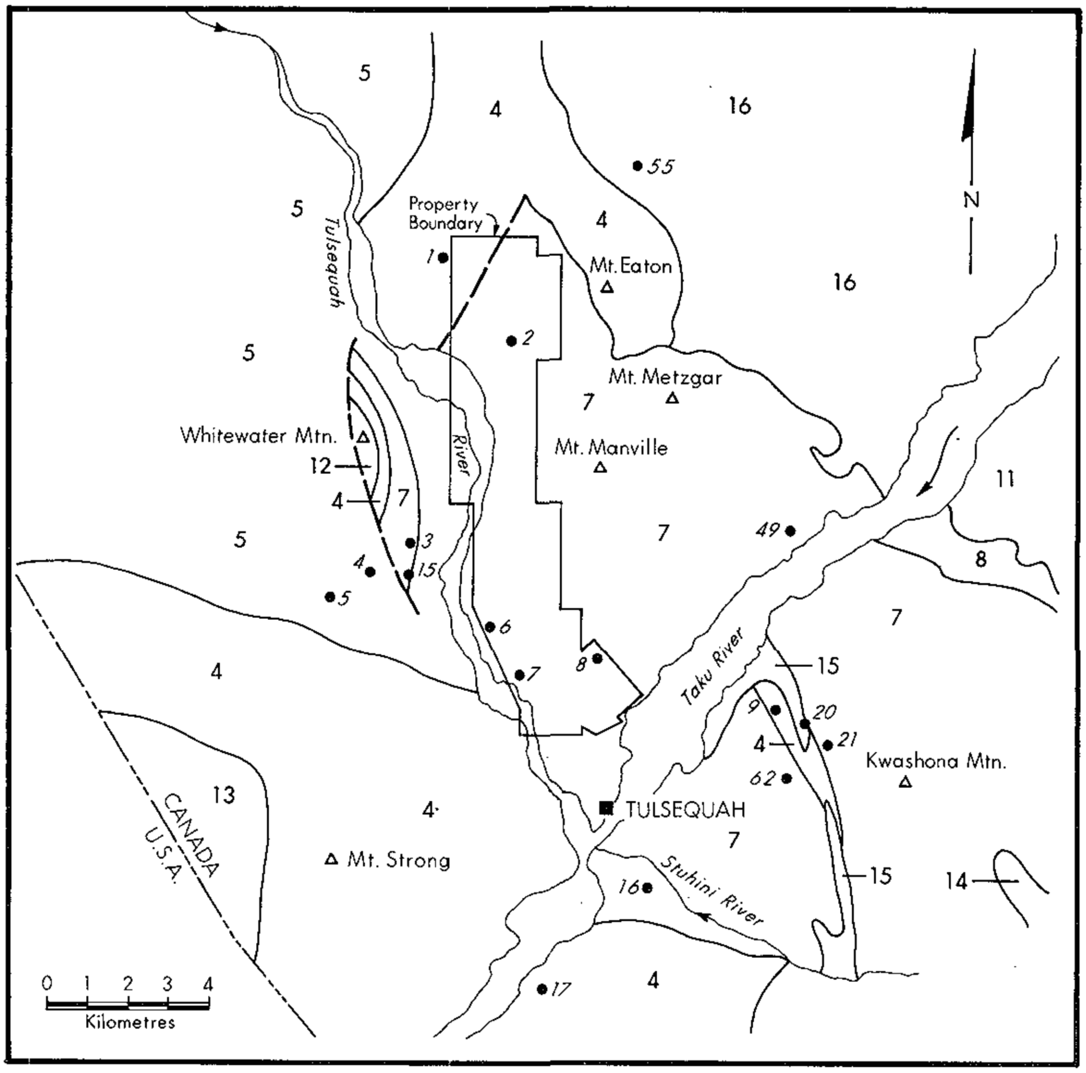
TULSEQUAH CHIEF (Fig. B1, No. 15) **By M.H. Gunning**

LOCATION:	Lat. 58°44'30" Long. 133°35'20" (104K/12) *ATLIN MINING DIVISION. Located on the east side of the* Tulsequah River about 10 kilometres north of its confluence with the Taku River and about 90 kilometres south of Atlin. Elevation 500 metres.
CLAIMS:	BULL, CO, SEQ.
ACCESS:	By helicopter or float plane about 90 kilometres south from Atlin or about 90 kilometres up the Taku River from Juneau, Alaska.
OWNERS:	Cominco Ltd., Redfern Resources Ltd., Comaplex Resources International Ltd.
OPERATOR:	COMINCO LTD.
COMMODITIES:	Zinc, copper, gold, silver, lead, cadmium.

DESCRIPTION:

HISTORY

The Tulsequah Chief mine (MI 104K-002) was a base and precious metal producer from 1951 to 1957. The property was discovered by a prospector from Juneau, Alaska in 1923 who immediately began underground development with open cuts and a 20-metre adit. In 1928 he optioned the property to a group of prospectors from Juneau who changed the direction of the adit and drifted into the A ore zone. In 1929, the property was optioned to the United Eastern Mining Company which set up the Taku Mines Company. It completed 585 metres of drifting on two levels and 1232 metres of surface drilling. The property lapsed in 1930. The Consolidated Mining and Smelting Company of Canada, Limited, optioned the ground in 1946 and drove a 914-metre haulage tunnel at the 5400 level to the A ore zone. A shaft was raised 210 metres to the 6400 level and seven intermediate levels developed from 1946 to 1951. In 1951, Tulsequah Mines Limited was set up and a 225 tonne per day mill was leased from the Polaris Taku mine across the river and converted to base metal production. Production began in late 1951 and in 1953 the mill was upgraded to 450 tonnes per day. On September 1, 1957 the mine closed due to depressed metal prices and the company was dissolved later that year. From 1951 to 1957, production is estimated at 569 974 tonnes (M. Casselman, personal communication, 1987). In 1970, New Taku Mines Ltd. estimated remaining reserves in the proven and indicated categories at 715 000 tonnes grading 3.1 grams per tonne gold, 99.4 grams per tonne silver, 1.3 per cent copper, 1.6 per cent lead and 8 per cent zinc (New Taku Mines Ltd., *Annual Report*, 1971). From 1980 to 1983, Comaplex Resources International Ltd. conducted several geophysical surveys over the Seq claims covering areas surrounding the mine, in search of possible extensions of the mineralization. Cominco Ltd. conducted an aggressive geological mapping and sampling program covering both the Tulsequah Chief and Big Bull mines in 1987. This work was followed up by extensive diamond drilling concentrated entirely in the area of the



LEGEND

16, 15, 14	LATE CRETACEOUS TO EARLY TERTIARY SLOKO GROUP INTERMEDIATE TO FELSIC PYROCLASTICS AND FLOWS
13	PRE-UPPER CRETACEOUS CENTRAL PLUTONIC COMPLEX
12	POST-MIDDLE JURASSIC TO CRETACEOUS INTRUSIONS
11	COARSE SEDIMENTS OF LOWER JURASSIC LABERGE GROUP
8	THICK-BEDDED SEDIMENTS OF KING SALMON FORMATION OF THE STUHINI GROUP
7	UPPER TRIASSIC STUHINI GROUP VOLCANIC ROCKS
5	PRE-UPPER TRIASSIC HIGH GRADE GNEISSIC ROCKS
4	PRE-UPPER TRIASSIC FINE-GRAINED SEDIMENTS WITH MINOR GREENSTONE

Geology from Souther, 1971

MINERAL OCCURRENCES (104 K)

1	SPEC
2	TULSEQUAH CHIEF *
3	POLARIS TAKU *
4	SILVER QUEEN
5	SILVER BIRD
6	POTLATCH
7	POTLATCH, BANKER
8	MANVILLE, BIG BULL *
9	ERIKSEN, ASHBY
15	MARTHA, SINCLAIR
16	SURVEYOR
17	COUNCIL
20	MAIDAS
21	MOHAWK
49	YELLOW BLUFF
55	CANYON, BEAR
62	COFFMAN
*	Past producer

Figure B22. Geology and mineral occurrences of the Tulsequah area.

Tulsequah Chief mine. The following is a description of the Tulsequah Chief deposit.

GEOLOGICAL SETTING

The Tulsequah Chief orebodies are hosted within a northwest-striking sequence of volcanic and minor sedimentary rocks located just east of the Coast crystalline belt. The hangingwall of the ore deposit is composed of felsic pyroclastic rocks ranging from rhyolitic to dacitic tuffs. The tuffs are light grey, generally fine grained and often contain visible quartz fragments and feldspar grains. This package is underlain by a more massive, darker green, often aphanitic sequence of primarily andesitic flows with minor dacitic phases. This unit immediately below the ore horizon contains a discordant zone of ubiquitous pyrite, sericite and silica. Souther (1971) mapped and identified these rocks as belonging to the Upper Triassic Stuhini Group (Figure B22). Geological mapping in 1987 by Cominco Ltd. revealed a Paleozoic, *Rugossan*-bearing limestone unit to the north of the mine, however, the complex structure makes it difficult to ascertain the stratigraphic level of the limestone relative to the volcanic package. Regional bedding attitudes in the Tulsequah River area generally strike northwest and dip 60 degrees to the northeast, but these attitudes vary considerably on a local scale, due to folding and faulting.

Felsic dykes are abundant in the mine area and occur almost exclusively along major shear zones or faults. In places the dykes themselves are sheared, suggesting shearing both before and after dyke emplacement. Work in 1987 has identified at least two phases of felsic dykes, the youngest possibly coeval with the Eocene Sloko Group volcanic rocks which are exposed over an extensive area northeast of the mine. Mafic "greenstone" or diabase/diorite dykes and/or sills are also a common feature in the mine area.

The structure in the Tulsequah mine area is complex and there are at least three phases of deformation complicated by faulting and shearing. These events have truncated and displaced the orebodies and made it difficult to trace out the ore horizon along strike. Three roughly north-striking faults occur in the mine area (Figure B23) and have broken up the mine area stratigraphy into four separate fault blocks.

The Tulsequah Chief orebodies comprise several lenses which are stratigraphically controlled and contain varying proportions of zinc, copper, gold, silver and lead. The "ore horizon" hosting the deposits lies within the lower portion of a thick sequence of felsic pyroclastic rocks which forms the hangingwall of the orebodies. This horizon is composed of variably pyritized (5 to 75 per cent), silicified and sericitized dacitic tuffs, cherty tuffs, and minor cherts and lapilli tuffs. It has been traced by Cominco for 700 metres across three fault blocks. The footwall of the deposits is composed of dark green andesitic flows.

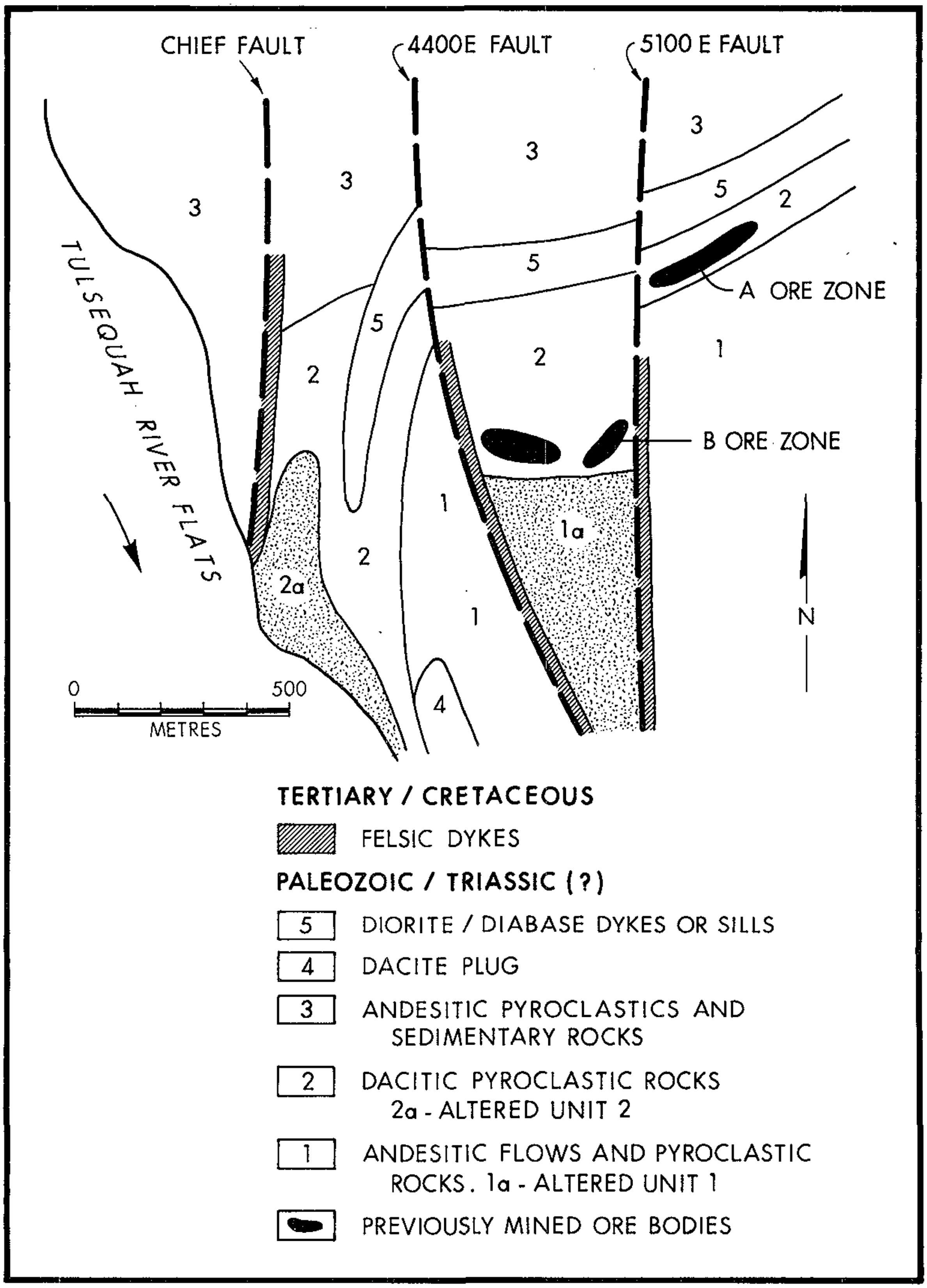


Figure B23. Sketch map of the geology and structure of the Tulsequah mine area (from Cominco Ltd., 1987).

The mine area contains two large alteration zones; one underlies the main Tulsequah Chief deposit exposed at the 6400 level (A ore zone, Figure B23), and the other occurs around the 5200 and 5400 level portals (B ore zone, Figure B23) closer to the Tulsquah River. Alteration in the 6400 level area extends in excess of 1000 metres into the footwall andesites. The alteration zones are characterized by silicification, sericitization and pyritization which all increase in intensity closer to the orebodies.

The orebodies contain varying proportions of sphalerite, chalcopyrite, galena, barite, gypsum, gold and silver. Mineralization occurs in two main types. The first as massive lenses of fine-grained pyrite and chalcopyrite with minor galena and sphalerite; the second as semimassive bands, blebs and stringers of sphalerite, galena and pyrite with appreciable barite. The lenses can be up to 10 metres thick and 170 metres long. The main orebodies are open to depth. These sulphide lenses are often highly sheared and are commonly intruded by felsic dykes.

The work of Cominco Ltd. in 1987 concentrated on finding extensions of the known mineralized zones by doing detailed structural and stratigraphic work and using deep, 700-metre diamond-drill holes. Two significant intersections of massive sulphide mineralization were made as a result of this work (Table B3). Both intercepts lie well to the northwest of the main workings. They are separated by 140 metres of strike length and were made at depths 250 metres below the lowest mine workings. All of these factors suggest that there is the potential for a large orebody at the Tulsequah Chief mine which has many of the characteristics of a classic "Kuroko-type" massive sulphide deposit. Although the complex stratigraphy and structure make exploration for the ore zones difficult, geological interpretations made from surface mapping are supported by the geology revealed in drill core, and the intersections shown below provide an indication of the newly discovered potential.

TABLE B3
1987 DRILL INTERSECTIONS

Hole	Intercept (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)
87-1	6.3	6.3	223.0	1.37	2.78	8.0
87-5	4.1	2.6	85.7	1.56	1.03	6.4

WORK DONE

Cominco Ltd., under an option agreement with Redfern Resources Ltd. and Comaplex Resources International Ltd., carried out regional, property and outcrop-scale geological mapping and sampling over the entire property area shown in Figure B22. Approximately 3500 metres of diamond drilling was completed in five deep holes.

ACKNOWLEDGMENTS

The cooperation of the crew of Cominco Ltd. on the Tulsequah Chief project, in particular Mike Casselman (Project Geologist), is much appreciated.

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SKAGWAY 104M

ENGINEER MINE (Fig. B1, No. 16) **By M.H. Gunning**

LOCATION:	Lat. 59°29'15" Long. 134°14'00" (104M/8) ATLIN MINING DIVISION. Located on the east side of Tagish Lake about 30 kilometres west of Atlin. Elevation 830 metres.
CLAIMS:	SHAUNA, PATTY, TAKU, BEE, GLEAN, ENGIN, BUTLER (94 units).
ACCESS:	By air about 30 kilometres west from Atlin or by boat west from Atlin through Graham Inlet to Tagish Lake.
OWNER/OPERATOR:	TOTAL ERICKSON RESOURCES LTD.
COMMODITIES:	Gold, silver.

DESCRIPTION:

HISTORY

The Engineer mine (MI 104M-014) has a long history of exploration activity dating back to 1899 when the property was discovered by a group of surveyors for the White Pass and Yukon Railway. From 1900 to 1902, 100 metres of underground work was done. The property lapsed in 1906 and was restaked by the Northern Partnership Syndicate which constructed a 2-ton stamp mill in 1910. From 1912 to 1918, a 70-metre shaft was sunk and four intermediate levels were developed. In 1923, Engineer Gold Mine Ltd. was incorporated and extended the original crosscut to 300 metres, completed over 1200 metres of development work on a fifth level, and also built a 45 tonne per day concentrator. Two years later, a shaft was sunk from the fifth level to access three more levels in the mine. Operations were limited to summer months only from 1927 until 1930 when work was finally suspended. From

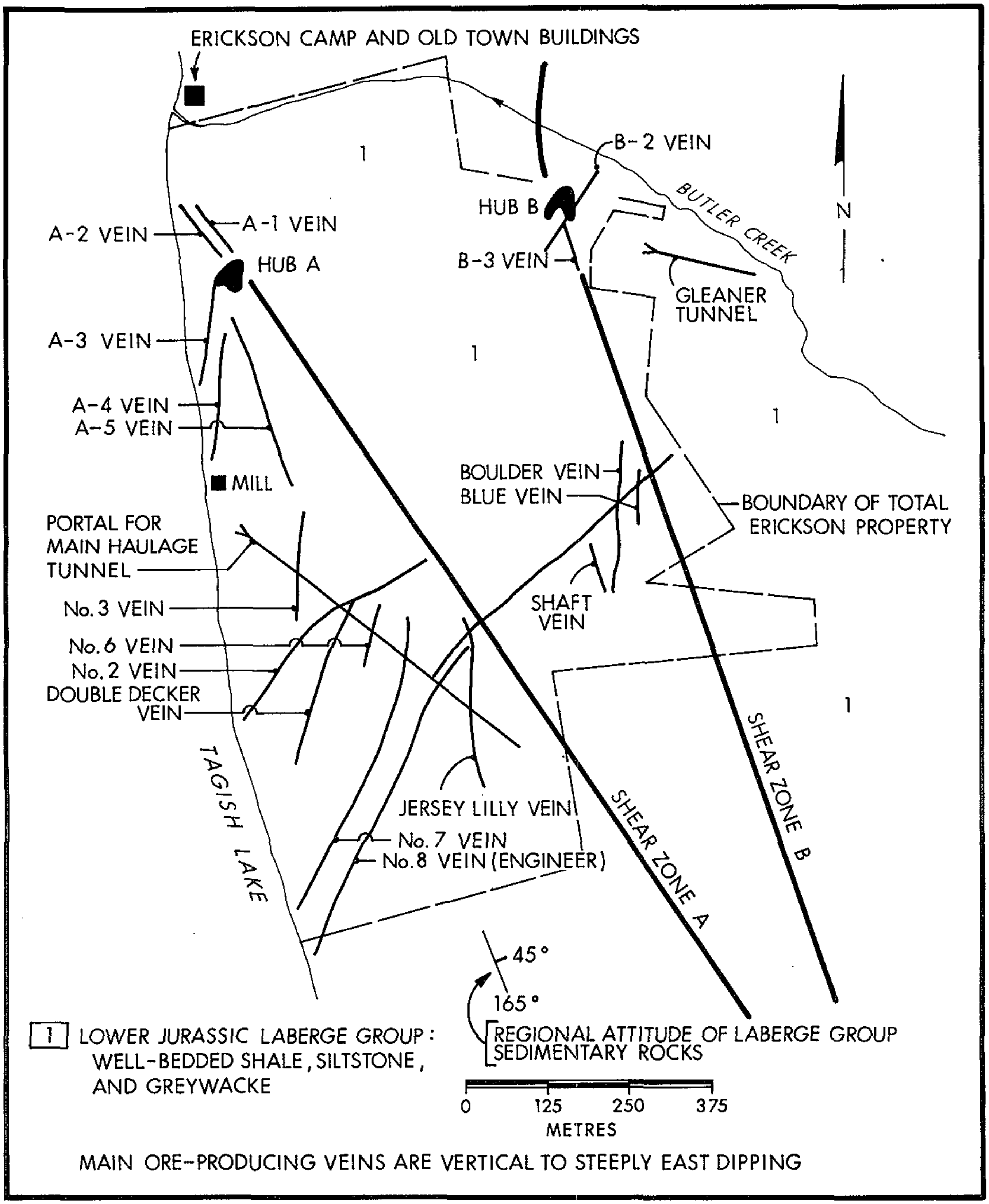

Figure B24. Sketch map of the Engineer mine area.

1932 to 1934, Reginald Brooks selectively mined high-grade ore. The mine received only sporadic exploration work from 1934 to 1980 and no further underground development was done. Estimated production from the Engineer mine from 1913 to 1952 is 15 570 tonnes grading 36 grams per tonne gold and 17.9 grams per tonne silver (National Mineral Inventory, 104M/8-Au 2). In 1979, the Nu-Energy Development Corporation acquired the mine property and rehabilitated the underground workings. Nu-Energy drilled shear zone A on the fifth level with discouraging results. Nu-Lady Gold Mines Ltd. then acquired an option on the property and completed 15 diamond-drill holes in 1980, 11 holes in 1981 and 7 holes in 1983. Total Erickson Resources Ltd. took over the Nu-Energy Development Corporation and completed a systematic exploration program around the mine in 1987.

GEOLOGICAL SETTING

The Engineer mine lies within a northwesterly trending belt of Lower Jurassic Laberge Group sedimentary rocks located between Paleozoic Cache Creek Group rocks to the east and the Coast crystalline belt to the west. The host rocks for the orebody comprise very well bedded shale, siltstone and greywacke. Flame structures, load casts and graded bedding clearly demonstrate that the sedimentary sequence is not overturned. Regional bedding attitudes strike from 150 to 180 degrees and dip moderately to the east. Overlying the Laberge Group is a sequence of pyroclastic volcanic rocks called the "Engineer Mountain volcanics" (Baltman, 1979) which are exposed at the top of Engineer and Gleanor mountains to the east of the mine. The rocks are composed mainly of crystal tuffs and may be of a late Cretaceous to early Tertiary age. A large body of medium-grained, equigranular hornblende quartz diorite has intruded the Laberge Group between the mine and the outcrop of Engineer Mountain volcanics. The age of this stock is uncertain.

Numerous phases of dykes crosscut the Laberge Group sedimentary rocks on the Engineer property. The most common are light grey, feldspar-porphyritic dacites which commonly strike north-south, subparallel to the ore-bearing veins. There are also aplitic, granitic and dark green, fine-grained to aphanitic mafic dykes.

Two phases of folding are present in the mine area. The folds are generally on a small scale and do not effect the regional bedding attitudes which tend to form a monoclinal sequence. The oldest event (F_1) is characterized by tight to isoclinal folds which plunge 65 degrees towards 149 degrees, based on minor folds located north of the mine. The hinge zones of these folds are commonly highly sheared and contain a well-developed axial planar cleavage. Some F_1 chevron folds are also present (Plate B18). This phase of deformation is best developed along shale/greywacke bedding contacts. The F_2 folding event is characterized by very open folds or simple "buckles" with vertical axial planes striking 080 degrees, again based on measurements of minor folds north of the mine.

There are two main shear zones (the "A" and "B", Figure B24) which cut across the Engineer property. These zones are generally from

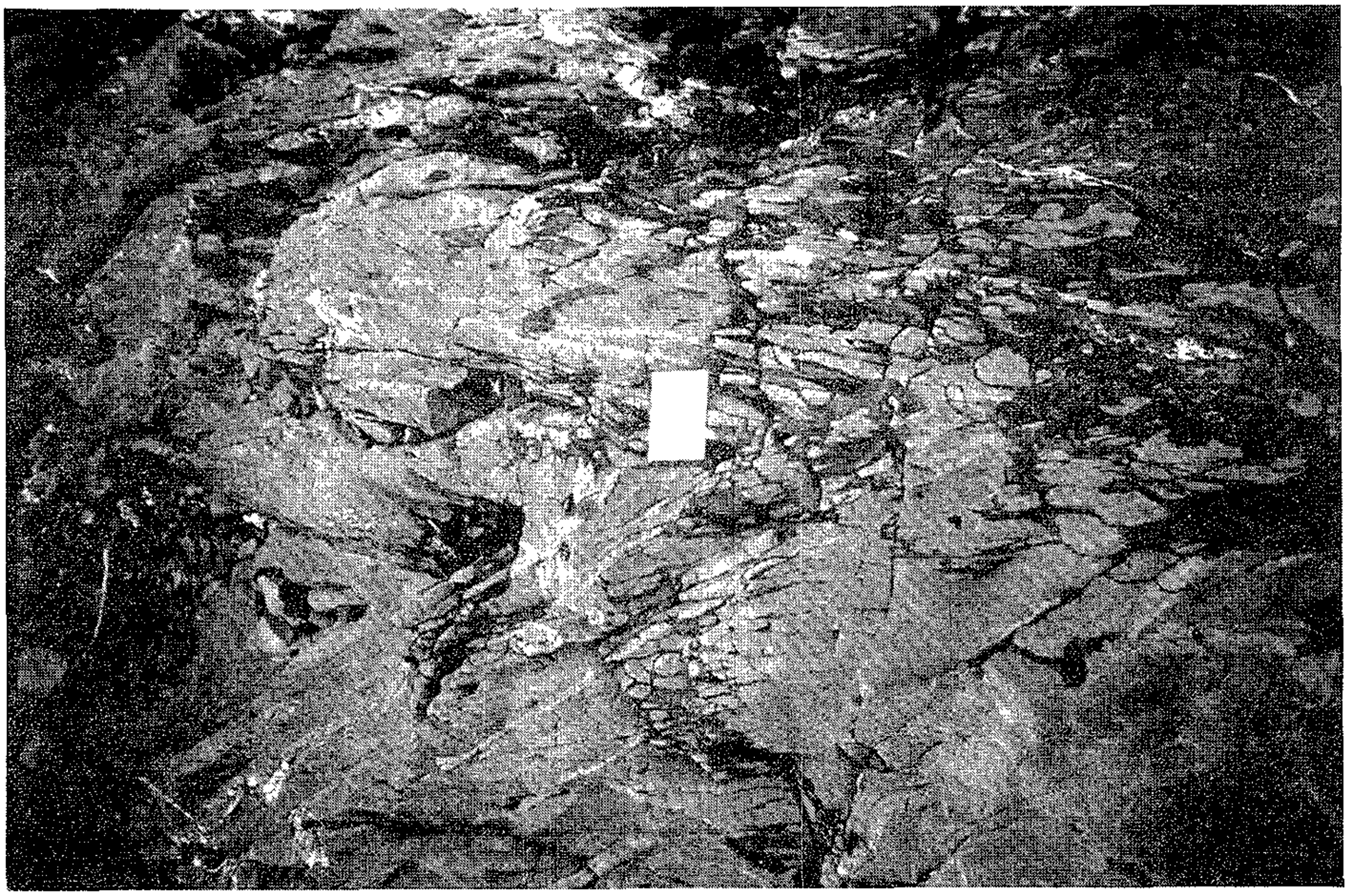

Plate B18. F_1 Chevron folds in Laberge Group sedimentary rocks on the east shore of Tagish Lake, north of the Engineer mine.

5 to 15 metres wide, roughly concordant to bedding, and laterally continuous for at least 2 kilometres and have a right-lateral sense of offset. The zones are characterized by brecciation, numerous parallel quartz veins, silicification and pyritization. Fragments of Laberge Group sedimentary rocks are often contained within the shear zones. The shear zones are not crosscut by the auriferous quartz veins which are discordant to them. Areas of massive bull quartz up to 20 metres wide, called "Hub A" and "Hub B" (Figure B24) occur where the shear zones intersect other structures. Both the shear zones and "hubs" are unmineralized and no significant gold assays have been reported from them.

MINERALIZATION

The two main ore-producing veins are the Engineer and Double Decker vein systems. These veins strike from 10 to 30 degrees and are vertical to steeply east dipping. They are discordant to both shear zones A and B, and to regional bedding in the Laberge Group. The configuration of the numerous veins in the mine area is shown in Figure B24. The width of the veins varies considerably, from 10 centimetres to over 2 metres. They are locally discontinuous due to pinching and swelling, but have been traced on surface for about 1 kilometre.

The veins are composed largely of drusy quartz with lesser calcite and minor mariposite. Vug and cockscomb textures are common as are narrow graphitic bands which are best developed near the vein margins. Wallrock alteration is minimal and the vein contacts are sharp with no associated shearing or brecciation. Sulphide mineralization in the veins is sparse and the gold content very erratic. Pyrite is the main sulphide with native gold, gold tellurides, chalcopyrite, arsenopyrite, allemontite and needles of berthierite, an iron-antimony sulphide (Schroeter, 1986). Gold and silver are the only economic commodities with a gold:silver ratio of roughly 2:1. The mineralogy and textures of the Engineer veins suggest they formed in a high level, epithermal system.

WORK DONE

Total Erickson Resources conducted a systematic exploration program around the Engineer mine in 1987. A total of 2022 soil samples and 250 rock samples were analysed, 1:1000 and 1:5000-scale geological mapping was performed, 45 line-kilometres of ground magnetometer and VLF-EM surveys run, and 8 diamond-drill holes totalling 1778.5 metres completed.

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ATLIN 104N

YELLOWJACKET **By D.V. Lefebure and M.H. Gunning**
(Fig. B1, No. 21)

LOCATION:	Lat. 59°35′40″ Long. 133°32′40″ (104N/12) ATLIN MINING DIVISION. Located approximately 9 kilometres east-northeast of Atlin. Elevation 966 metres.
CLAIMS:	ARENT 1 and 2, CAL 11, TIP, BEAMA, WEDGE FRACTION and surrounding claims.
ACCESS:	By gravel road about 12 kilometres east-northeast from Atlin.

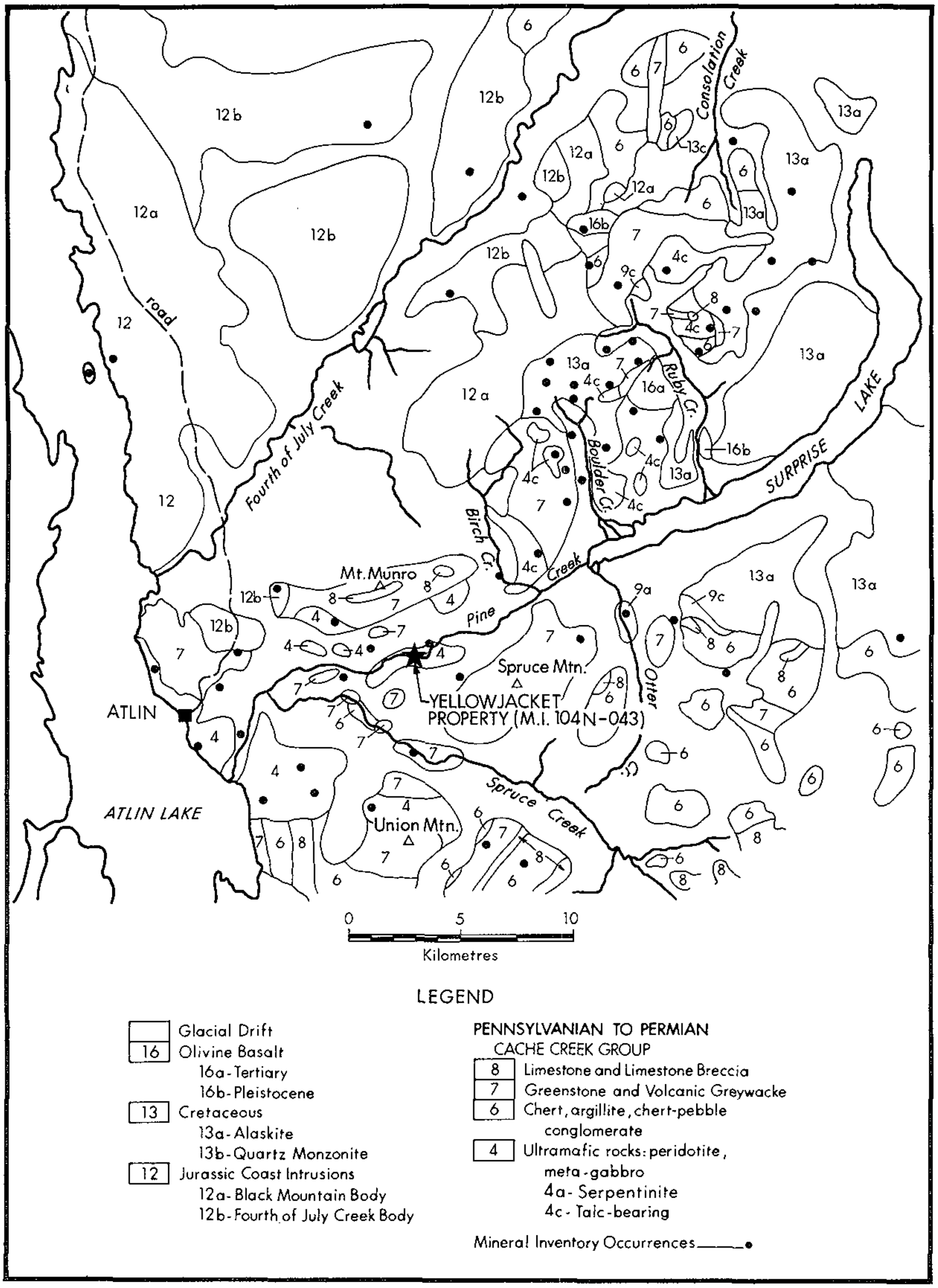

Figure B25. Geology and mineral occurrences of the Atlin area (modified from Aitken, 1959).

OWNERS: Homestake Mineral Development Company, Canova Resources Ltd.
OPERATOR: HOMESTAKE MINERAL DEVELOPMENT COMPANY.
COMMODITY: Gold.

DESCRIPTION:

PROPERTY HISTORY

The Yellowjacket property (MI 104M-014) was discovered in 1899 by placer miners working along Pine Creek. Mineral claims were staked by the Nimrod Syndicate which sank a 14-metre shaft and reported visible gold within an alteration zone containing quartz veins. Surface work continued in 1902 and a 35-metre trench was completed along the zone. The North Columbia Mining Company deepened the main shaft to 30 metres the following year. No further work was done on the property until 1983 and all of the surface workings have been destroyed by placer mining on Spruce Creek. The area was staked by local prospectors in 1983 and then optioned to Canova Resources Ltd. which completed ground geophysical surveys, five diamond-drill holes in 1984 and ten reverse circulation rotary-drill holes in 1985. The Homestake Mineral Development Company acquired an option on the Yellowjacket property in 1986 and carried out a soil geochemistry program; an airborne VLF-EM survey; ground VLF-EM, magnetometer and induced polarization surveys; and metallurgical tests on a 15-kilogram sample of drill core. Fourteen diamond-drill holes totalling 2250 metres were completed.

GEOLOGIC SETTING

The Yellowjacket property is located near the western edge of the Atlin terrane in the northern part of the Intermontane Belt of the Canadian Cordillera. The terrane is typically fault bounded against metamorphic rocks of the Omineca Belt and a narrow strip of Lower Mesozoic volcanic and sedimentary rocks to the east, and Lower Jurassic sedimentary rocks and Upper Triassic and older variably metamorphosed strata to the west (Monger, 1975).

The Atlin terrane consists of weakly metamorphosed chert, pelite, carbonate, and basic volcanic and ultramafic rocks of the Cache Creek Group of Pennsylvanian to Permian age. Monger (1975) has divided the volcanic and sedimentary rocks of the Cache Creek Group into the Nakina, Kedahda, Horsefeed, French Range and Teslin formations. In the immediate Atlin area (Figure B25) mafic volcanic rocks belong to the Nakina Formation and the chert and clastic sedimentary rocks with local pods and beds of limestone are part of the Kedahda Formation. Numerous ultramafic intrusions, typically peridotite, are associated with Cache Creek rocks, particularly the Nakina Formation. Typically the ultramafic rocks are in fault contact with the conformable rocks.

Younger granitic intrusions crosscut the Cache Creek Group rocks. A large Early Cretaceous stock outcrops immediately north of Atlin, while the Late Cretaceous Surprise Lake batholith is located 23 kilometres to the east. The latter intrusion consists of monzonite, granite and syenite phases (Christopher and Pinsent, 1982).

Gold placers have been the most important type of mineral deposit in the Atlin area. The first placer claim was staked in 1898 and led to the development of one of the major placer camps in British Columbia. A total of 615,234 ounces [19 135 618 grams] of gold was recovered from placer deposits in the Atlin Mining Division between 1898 and 1982 (Debicki, 1984). More than 96 per cent of this gold was recovered from creeks in the immediate Atlin area.

The source of the placer gold is auriferous quartz veins hosted by altered Cache Creek rocks. The only lode gold production was 245 tonnes of ore grading 13.7 grams per tonne gold from the Imperial mine. It is this disparity between the placer and lode gold production which is stimulating current mineral exploration programs in the Atlin area.

PROPERTY GEOLOGY

Poorly exposed mafic volcanic (Nakina Formation) and ultramafic rocks of the Cache Creek Group crop out on the Yellowjacket property. The ultramafic rocks underlie the north side of the Pine Creek valley, while the volcanic rocks occur on the south side. Pine Creek generally coincides with a fault zone trending 250 degrees which is the contact between the two units. Rocks within the fault zone are often intensely altered and sometimes sheared. Diamond drilling along the fault zone intersected high-grade gold, called the Yellowjacket zone, on the Arent 1 and 2 claims in the vicinity of the old Yellowjacket showing (Ronning, 1986). The mineralization does not outcrop.

Basalt, andesite, serpentinized peridotite, diorite, gabbro and diabase are the principal lithologies in the Yellowjacket zone. Narrow dykes of intermediate to felsic composition described as feldspar porphyry and syenite by Ronning were also intersected in a few diamond-drill holes. All lithologies within the Yellowjacket zone are altered and the volcanic and ultramafic rocks are frequently totally replaced by secondary minerals.

Ultramafic rocks, where recognizable, are typically peridotites altered to serpentinites. The serpentinites consist of antigorite with minor lizardite and chrysotile (Ronning, 1986). Magnetite is an important accessory mineral; most ultramafic rocks, even when altered, are still weakly to moderately magnetic.

The basalts and andesites are typically fine grained with small phenocrysts visible in less altered samples. The basalt is dark green and chloritic with minor amounts of plagioclase and pyroxene phenocrysts in a groundmass of plagioclase and pyroxene microlites. Andesites in the Yellowjacket zone are typically lighter coloured and more obviously porphyritic than the basalts. Phenocrysts of acicular hornblende and plagioclase have been logged (Ronning, 1986). Amygdules filled with chlorite and quartz were noted in one flow.

Diorite, gabbro and diabase are unusually abundant in the Yellowjacket zone. These are typically the least altered rocks and

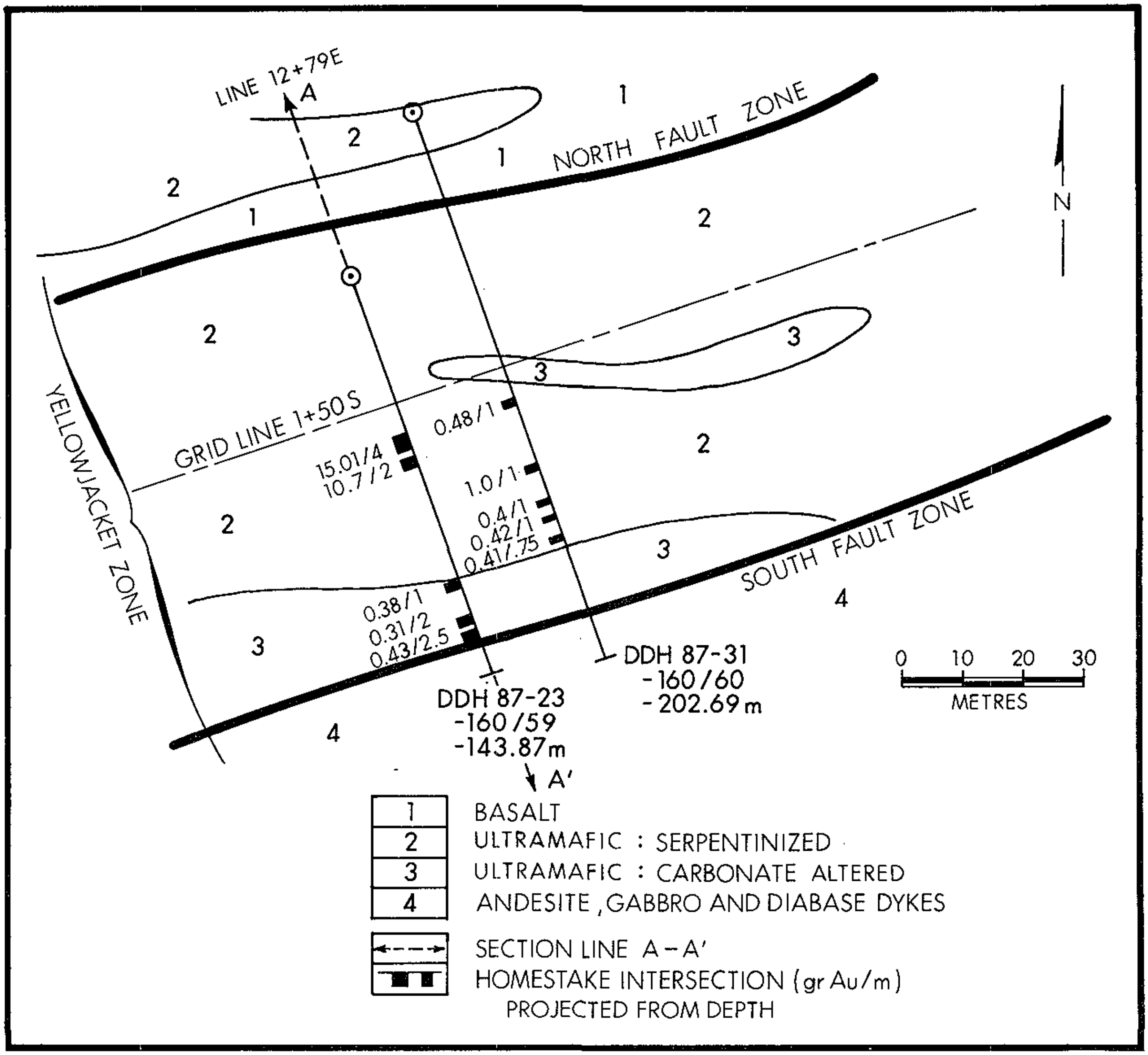

Figure B26. Plan view of the Yellowjacket zone at bedrock surface, projected from drill holes (from Homestake Mineral Development Company, 1987).

consist of equigranular plagioclase and pyroxene grains with secondary chlorite, carbonate and serpentine.

Intense alteration of the ultramafic and volcanic rocks is common. It frequently obscures the original rock type. The ultramafic rocks are typically serpentinized with broad zones of carbonate alteration. Locally they are intensely altered to talc and mariposite. Occasionally the mariposite is associated with carbonate, minor pyrite and silica which forms a listwanite (Boyle, 1979). The volcanic rocks are commonly altered to carbonate, chlorite and sericite. Silicification occurs in both volcanic and ultramafic rocks but is restricted in extent. Sulphides, typically pyrite, are minor.

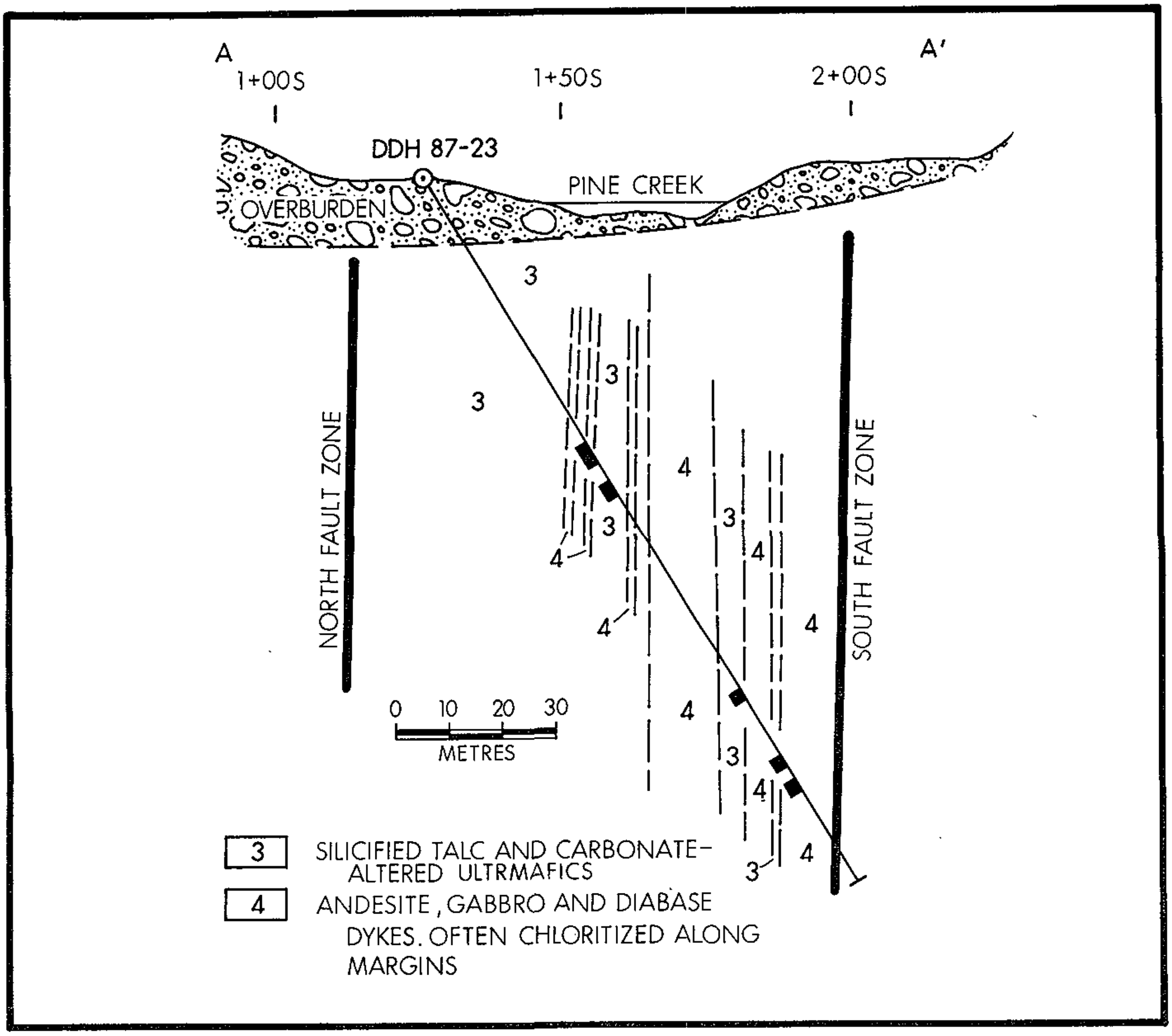

Figure B27. Schematic cross-section of the Yellowjacket zone along line 12+79E (modified from Homestake Mineral Development Company, 1987).

The Yellowjacket zone (Figures B26 and B27) is 240 metres along strike between holes 86-10 and 87-26 and extends up to 90 metres downdip (D. Marud, personal communication, 1987). The steeply dipping zone is 5 to 10 metres wide and strikes 250 degrees, parallel to the fault zone trending along Pine Creek. Coarse gold occurs in quartz veinlets 1 to 2 centimetres wide which may form stockworks with grades of 3 grams per tonne gold or better over significant widths (Ronning, 1986). Two of the better intersections are 15.1 and 17.9 grams of gold over 4.0 and 3.1 metres in drill holes 87-23 and 86-6 respectively. The gold has a fineness of 767 and is more properly referred to as electrum (B. Ballantyne, personal communication 1987). Minor arsenopyrite, pyrite and gersdorffite (nickel arsenic sulphide) may be associated with the gold mineralization but do not always occur with higher gold values.

Ronning reports that the most significant gold values are hosted by volcanic or dyke rocks.

DISCUSSION

The Yellowjacket zone consists of numerous fault slices of ultramafic and volcanic rocks at the contact between a large ultramafic intrusion and Nakina Formation volcanics. The faults provided pathways for fluids which altered the rocks and carried the gold.

A possible sequence of events to explain the Yellowjacket zone is as follows:

(1) Intrusion of the Atlin ultramafite into the submarine Nakina volcanics, possibly along a pre-existing fault.

(2) Coincident development of alteration of both rock types and fault movement near the contact. Alteration of ultramafic rocks varied from weakly serpentinized peridotite to intensely altered talc-carbonate rock. The altered ultramafic rocks shear easily at this stage and the original contact becomes a series of fault slices.

(3) Gabbro/diabase bodies intrude preferentially along the fault zone. These intrusions may not predate the gold mineralization.

(4) Feldspar porphyry and syenite dykes intrude the Yellowjacket zone. These dykes may be related to the early or late Cretaceous intrusions and may not predate the gold mineralization.

(5) Gold mineralization is introduced with associated quartz veining and minor silicification.

(6) Faults offset the Yellowjacket zone.

If this sequence of events is correct, the talc-carbonate alteration with associated mariposite is a form of ground preparation which is the first step towards the development of gold mineralization. The second step is introduction of gold-bearing hydrothermal fluids which deposited auriferous quartz stockworks.

Ballantyne and MacKinnon (1986) have shown that listwanites in the Atlin area contain no more gold than less-altered ultramafic rocks. Preliminary sampling shows that the only lithology with markedly anomalous gold values is the porphyritic dykes (*see* Table B4). Indeed, felsic dykes with anomalous gold values have been reported on the Anna, Beavis and Imperial properties. Further research is warranted to establish if the gold-bearing hydrothermal fluids were genetically related to the felsic dykes.

TABLE B4
AVERAGE ANALYSES OF SELECTED ELEMENTS FOR ATLIN AREA LITHOLOGIES

	n	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppb	Hg ppm	As ppm	Sb ppm	Co ppm	Ni ppm	Cu ppm
Volcanic rocks	7	49	0.5	49	10	79	10	88	4.1	39	239	272
Sediments	7	91	0.5	36	13	88	12	8	0.9	20	20	20
Diorite	9	134	0.5	31	11	80	12	2	1.0	38	47	338
Felsic dykes	2	420	0.5	10	12	52	10	4	1.0	52	18	26
Quartz/ carbonate veins	9	42	61.7	94	886	93	265	142	111.1	53	393	343
Ultramafic	3	<20	0.5	11	15	47	11	3	1.0	94	1902	1511
Carbonate-altered ultramafics*	43	5.3	<0.5	24	13	68	--	64	---	68	1202	1645

* from Ballantine and MacKinnon, 1986

Note: Limit of detection for gold and silver analyses, except those from Ballantyne and MacKinnon (1986), is 20 ppb and 0.5 ppm respectively.

WORK DONE

The Homestake Mineral Development Company completed 15 diamond-drill holes and 2550 metres of reverse circulation drilling on the Yellowjacket property in 1987, under an option agreement with Canova Resources Ltd.

ACKNOWLEDGMENTS

The cooperation of the Homestake Mineral Development Company is greatly appreciated. The assistance of Darcy Marud and Duncan McIvor was essential to the completion of this article.

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McDAME 104P

CORNUCOPIA (TAURUS MINE) (Fig. B1, No. 17) **By M.H. Gunning**

LOCATION:	Lat. 59°16'30" Long. 129°41'06" (104P/5) LIARD MINING DIVISION. Located approximately 8 kilometres east of Cassiar. Elevation 1300 metres
CLAIMS:	COPCO 1-6, ROY FR.
ACCESS:	By paved road, 8 kilometres east-southeast from Cassiar.
OWNER/OPERATOR:	TAURUS RESOURCES LTD.
COMMODITIES:	Gold, silver.

DESCRIPTION:

GOLD DISTRIBUTION IN THE TAURUS MINE QUARTZ VEINS

INTRODUCTION

The Taurus mine (MI 104P-012), located 8 kilometres east of Cassiar in northwestern British Columbia, has been a producer of gold and silver since September 1981. Mill throughput has averaged 125 to 135 tonnes per day with ore grades from 5 to 7 grams per tonne gold. Silver concentrations are less than a gram per tonne.

The orebody is hosted by Upper Paleozoic massive to pillowed basaltic flows belonging to the middle thrust sheet of the Sylvester allochthon (Nelson *et al.*, 1988). The auriferous quartz veins at the mine strike east-west, contain ubiquitous zones of sulphide mineralization along their margins and have a distinctive light grey alteration envelope characterized by silicification, carbonate alteration and disseminated pyrite.

This report describes the mineralized quartz veins at the Taurus mine and presents new lithogeochemical data which reveals a

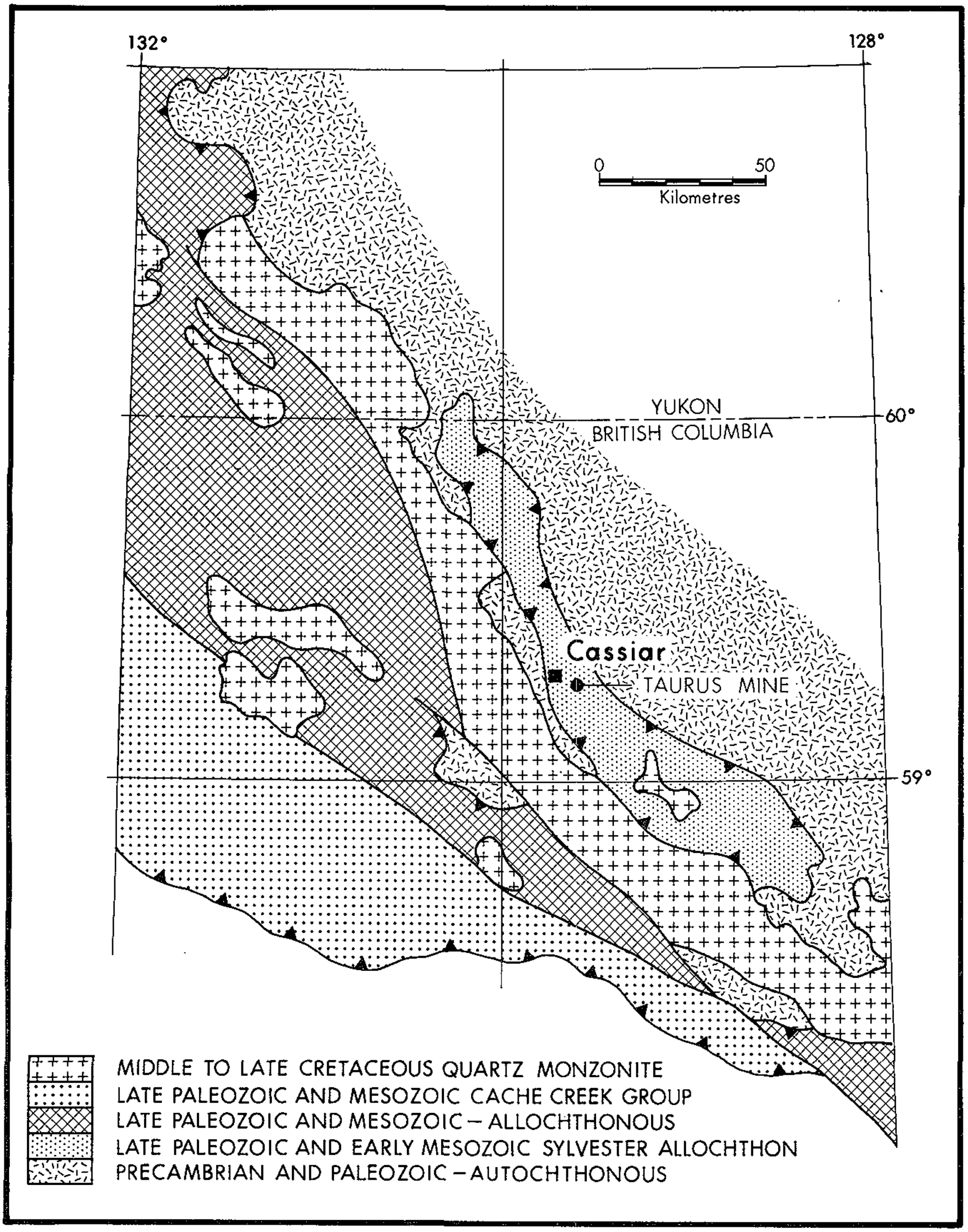


Figure B28. Geological setting of the Taurus gold mine (from Sketchley, 1986).

consistent pattern of gold distribution within them. Sampling also showed significant gold values within a massive pyrite zone contained in a large reverse fault exposed in the lowest level of the mine. These structures may have potential for future ore production.

HISTORY

In 1935, the seven-claim Cornucopia group, which covers the present day Taurus mine, was staked by J.C. Simpson who carried out stripping, trenching and rock sampling on the property until 1944. The property was optioned the following year by Benroy Gold Mines Ltd. which completed in excess of 700 metres of trenching and 1500 metres of surface diamond drilling. The claims then lapsed and were restaked in 1959 by Messrs. Couture and Copeland who carried out selective hand mining of high-grade ore from a short adit. They produced 25 tons of ore which contained 34 ounces of gold and 3 ounces of silver (46.6 grams gold and 4.1 grams silver per tonne).

Cornucopia Explorations Ltd. was incorporated in 1960 to acquire the property and changed its name to Hanna Gold Mines Ltd. in 1961. Exploration and development work was carried out on the 3600 and 4100 levels and included 1180 metres of drifting and crosscutting and 1000 metres of underground diamond drilling. Exploration to the end of 1963 outlined indicated reserves of 72 500 tonnes grading 22.6 grams per tonne gold. Newconex Canadian Exploration Ltd. optioned the property the following year and completed an additional 180 metres of drifting and crosscutting and 210 metres of drilling.

In 1972, Hanna Gold changed its name to Dorchester Resources Ltd., and from 1973 to 1975, rehabilitated and resampled the main 3600 level adit and completed 223 metres of underground diamond drilling. Dorchester Resources became Taurus Resources Ltd. in 1976. In 1978 Ashlu Gold Mines Limited optioned the property and completed 7.2 line-kilometres of magnetometer and electromagnetic surveys. In 1979, United Hearne Resources Ltd. acquired an option on a 60 per cent interest in the property and carried out further drifting, raising and underground drilling on the 3600 level and, early in 1980, confirmed reserves of 60 000 tonnes grading 16.1 grams per tonne gold.

Construction of a 135 tonne per day mill was started in the fall of 1980 and production from the 3600 level began in September 1981. In the same year, a decline was started to access the 3500 and 3400 levels. In the fall of 1986 the decline was extended and a 3300 level was developed. That same year the mine produced 37 145 tonnes of ore grading 5.1 grams per tonne gold from seven main veins. In 1987, it was discovered that extensions of the Number 1 and 2 veins did not reach the 3300 level so an intermediate 3348 level was developed. Exploration work was also started late in 1987 on the Hopeful adit which is located about 1 kilometre south of the mine.

GEOLOGICAL SETTING

The Taurus gold mine is located in the Sylvester allochthon

(Figure B28), an accreted oceanic terrane of Late Paleozoic to Early Mesozoic age. The allochthon was thrust onto Paleozoic miogeoclinal platformal rocks of the North American continental margin. The Cassiar batholith borders the allochthon to the west and is largely composed of quartz monzonite of Late Cretaceous age. Numerous potassium-argon dates from the batholith range from 89 to 109 Ma (Baadsgard *et al.*, 1961; Lowdon, 1961; Wanless *et al.*, 1970, 1972, 1978). The Troutline Creek stock is located east of the town of Cassiar and is largely composed of quartz monzonite. In places it intrudes the main batholith and in others is separated from it by a narrow pendant of metamorphic rocks. Six potassium-argon dates from this stock (Panteleyev, 1983) averaged 72 Ma. The Mount Reed and Mount Haskins stocks are located roughly 15 kilometres west of the Taurus mine and potassium-argon dates obtained from them (Christopher *et al.*, 1972) range from 48.8 to 51.4 Ma. Thus there have been numerous discrete plutonic events in the Cassiar area spanning roughly 40 million years from early Late Cretaceous to Middle Eocene.

Panteleyev and Diakow (1982) obtained a potassium-argon date of 131±5 Ma from hydrothermal white mica from a sample of a tourmaline-bearing auriferous quartz vein in the Snowy Creek area southeast of the Taurus mine; sericite from an auriferous quartz vein in the Taurus mine has been dated at 137±5 Ma (Sketchley, 1986). These Early Cretaceous ages suggest that the formation of the gold-bearing quartz veins at the Taurus mine occurred during events unrelated, and significantly prior to the emplacement of the numerous plutonic phases in the area.

The Sylvester allochthon is composed of numerous discrete fault-bounded lithotectonic slices which form a klippe which has been structurally superimposed onto platformal rocks. The structure of the allochthon comprises numerous stacked, flat fault structures bounding lithologically unique packages of rock. Although some of these faults may have been active in the late Paleozoic, the major events associated with the emplacement of the allochthon in its present position may not have occurred until early Jurassic time. The Sylvester Group is preserved in a broad, northwest-trending synclinorium. It comprises three major divisions (Nelson *et al.*, 1988) with the Taurus mine located in the middle Division II. Division I at the base of the group is largely composed of sedimentary rocks dominated by chert, while Division III at the top comprises subvolcanic intrusives, intermediate pyroclastics and minor greywacke and shale. Division II is primarily composed of basaltic flows with variably altered, narrow bodies of ultramafic rocks. The Taurus quartz veins are hosted in massive to rarely amygdaloidal, medium grey-green basaltic flows. Pillows are present in the mine area and are a common feature of Division II. North-trending lamprophyre and diabase dykes are also common in the mine area and are a prominent feature of Division II.

Several phases of faulting are present in the mine area and are listed below in order of increasing age:

(1) north-trending reverse faults,
(2) low-angle northwest-trending thrust faults,
(3) east-striking faults dipping south.

The auriferous quartz veins at the Taurus mine are structurally controlled by the oldest phase of faulting. These faults strike 80 to 90 degrees and dip 50 to 60 degrees to the south. Chloritic slickensides suggest both right-lateral and reverse movement along the structures. Crosscutting these faults are shallow thrust faults which strike northwest and dip 15 degrees to the southwest. One such structure called the "low-angle fault" is exposed in the lower levels of the mine. The youngest phase of faulting comprises north-striking reverse faults which dip 30 to 40 degrees to the east. This phase is exemplified by a fault exposed at surface just west of the 3600 level portal, and which may correlate with the main north-trending reverse fault exposed at the Erickson mine approximately 8 kilometres to the south. This structure is exposed in the underground workings at the Taurus mine and is referred to as the "reverse fault". It crosscuts all other faults in the mine and structures parallel to it may contain zones of significant gold mineralization (*see* Pyrite Zone below).

Plate B19. The No. 3 vein on the 3400 level, Taurus mine.

Although the north and northwest-trending faults crosscut, and are therefore younger than the fault systems containing the Cretaceous ore-bearing quartz veins, they may represent reactivated "Sylvester thrusts".

QUARTZ VEINS

There are at least three phases of quartz veining at the Taurus mine and all are structurally controlled by the faults described above. The oldest phase is represented by the ore veins and is characterized by white quartz veins with associated alteration envelopes within massive basaltic wallrock. Ore has been produced from the Number 1, 2, 3, 3 1/4, 3 1/2, 4 and 4 1/2 veins. The veins are usually from 50 to 60 centimetres wide but widths can range from 50 to 150 centimetres. Individual vein widths are relatively consistent along strike. The veins strike from 80 to 90 degrees and dip from 50 to 60 degrees to the south. Vein orientations are also very consistent along strike. Vein margins are often marked by chloritic slickensides indicating both reverse and right-lateral senses of movement. Northwest-trending veins seen occasionally in the mine may be splays off the main ore veins.

The second phase of veining is characterized by northwest-striking veins that dip to the southwest. They are composed of massive bull quartz several metres in thickness with some graphitic banding. The third phase of veins is associated with north-striking reverse faults that dip 30 degrees to the east. Massive white bull quartz veins with graphitic bands are several metres thick and are found within the "thrust fault". Similar quartz veins are not present in the reverse fault hosting the "Pyrite zone". The ore-producing veins are often crosscut and/or offset by these younger vein systems.

ALTERATION, MINERALIZATION AND GOLD DISTRIBUTION

The centres of the gold-bearing veins are composed of white quartz with small patches of clear grey quartz, clay and sericite often giving a mottled texture to the veins. Very symmetric alteration zones and zones of sulphide enrichment occur about the vein centres. Light grey alteration envelopes are typically 40 to 50 centimetres wide extending into both the hangingwall and footwall of the veins. They are characterized by silicification, carbonate alteration and coarse-grained, disseminated pyritohedron crystals, all of which increase in intensity closer to the veins. Chlorite is commonly developed in the host rock along the vein contacts. These vein contacts are generally very clean although wallrock fragments are occasionally seen within the veins producing a brecciated texture. Narrow graphitic bands less than 3 millimetres wide are present in many veins, both in the vein cores and along the margins (Plate B19). Quartz veinlets paralleling the main veins are sometimes present, but are uncommon.

Mineralization in the vein cores is restricted to less than 1 per cent disseminated pyrite and rare visible gold; trace tourmaline has also been observed (T.G. Schroeter, personal communication, 1987). Most sulphide mineralization occurs in narrow zones, typically 10 centimetres wide, along the vein margins. These zones may extend into the wallrock often overprinting the vein contact. The sulphides constitute 10 to 50 per cent of these zones as bands, stringers, blebs and disseminations. Pyrite is the most abundant sulphide with lesser tetrahedrite and arsenopyrite, and minor sphalerite and chalcopyrite. Fine-grained gold is also present.

In 1987, chip samples were taken systematically across the alteration halo, mineralized margin and core of seven of the producing veins. Results from this study (Figure B29) show that the distribution of gold is consistent throughout all of the producing veins. A summary of the data presented in Figure B29 is shown below in Table B5.

TABLE B5

SUMMARY OF GOLD DISTRIBUTION IN TAURUS MINE QUARTZ VEINS

	Alteration Halo	Vein Margin	Vein Centre
Average grade (g/t Au)	2.19	21.38	1.81
Average width (cm)	40.7	9.9	50.0
Percentage of weighted average	23	53	24

Weighted average of 23 samples from seven veins is 3.81 g/t Au over 100.3 centimetres.

The sampling shows that over half of the gold in the veins and alteration envelopes is contained within the sulphide-rich vein margins. Grades varied from 7.27 grams to 58.97 grams per tonne gold and averaged 21.38 grams per tonne over 9.9 centimetres. This width represents only 10 per cent of the combined width of vein and alteration halo. If only the quartz vein itself is considered, the weighted average for 15 samples from seven veins increases to 5.04 grams per tonne gold over a width of 59.9 centimetres and the relative amount of gold contained within the marginal zone increases to 69 per cent compared with only 31 per cent for the vein centre. Sample 5821 (Figure B29) also shows that zones of graphitic banding within the vein may be elevated in gold relative to the more barren core.

Gold concentrations in the alteration halo averaged 2.19 grams per tonne gold over 40.7 centimetres amounting to about one-quarter of the total gold in the system. Further sampling is needed to determine the distribution of gold within the halo. As noted earlier, alteration and pyrite mineralization within the halo increase in intensity toward the vein and it is possible that the gold distribution follows this pattern.

PYRITE ZONE

The Pyrite zone comprises a 3.1-metre interval of massive to semimassive, fine-grained pyrite located within a major reverse fault parallel to, and structurally higher than, the "thrust fault". Chloritic slickensides indicate a reverse sense of movement on the fault while sheared quartz veinlets within the fault zone indicate a right-lateral sense of shearing.

ALTERATION HALO

TYPICALLY 40-50cm WIDE CHARACTERIZED BY SILICIFICATION, CARBONATE ALTERATION, AND COARSE-GRAINED, DISSEMINATED PYRITOHEDRON CRYSTALS

SAMPLE	VEIN	WIDTH	g/t Au
5819	1*	50cm	1.99**
5801	2	35	6.95
5823	3	45	1.17
5804	3 1/4	50	0.62
5807	3 1/2	45	0.55
5810	4	30	0.41
5813	4 1/2	30	4.18
5816	4 1/2 PARALLEL STRINGER	5	1.44

VEIN MARGIN

TYPICALLY 7-10cm WIDE CHARACTERIZED BY MASSIVE BANDS, STRINGERS, BLEBS, AND DISSEMINATIONS OF FINE-GRAINED PYRITE WITH LESSER ARSENOPYRITE, TETRAHEDRITE, AND MINOR SPHALERITE AND CHALCOPYRITE, AND FINE-GRAINED GOLD

SAMPLE	VEIN	WIDTH	g/t Au
5820	1	8cm	12.62
5802	2	20	7.27
5824	3	10	20.71
5805	3 1/4	7	28.39
5808	3 1/2	10	11.86
5811	4	7	58.97
5814	4 1/2	5	9.81

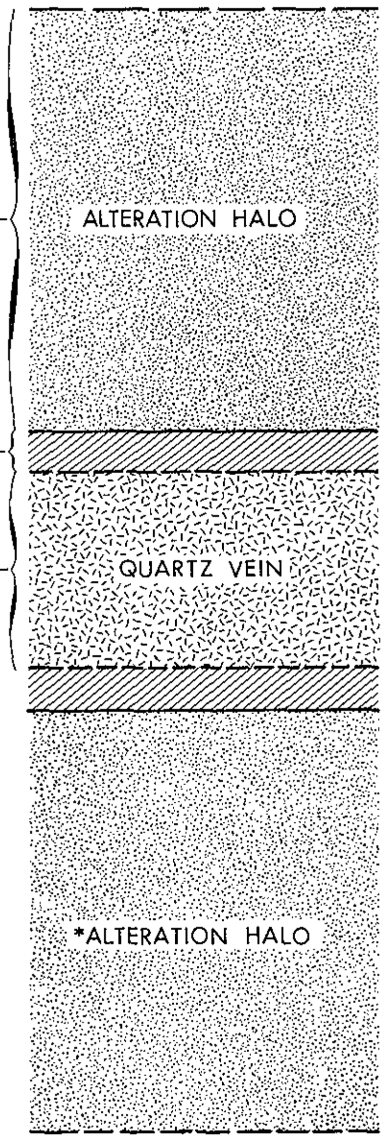
VEIN CENTRE

TYPICALLY 50cm WIDE CHARACTERIZED BY BLOCKY WHITE QUARTZ WITH RARE NATIVE GOLD

SAMPLE	VEIN	WIDTH	g/t Au
5822	1	90cm	0.62
5821	1 GRAPHITIC ZONE	40	2.06
5803	2	80	0.41
5825	3	30	0.55
5806	3 1/2	55	0.82
5809	3 1/4	60	8.71
5812	4	25	0.96
5815	4 1/2	10	0.62

* No.1,3 VEINS SAMPLED ON THE 3400' LEVEL No.2,3 1/4,3 1/2,4, AND 4 1/2 VEINS SAMPLED ON THE 3500' LEVEL

** ANALYSIS BY FIRE ASSAY AT THE TAURUS MINE, SEPTEMBER 28,29 1987



* VEINS ARE GENERALLY SYMMETRICAL

Figure B29. Gold distribution in quartz veins at Taurus mine.

The fault zone is exposed on the 3300 level and is in excess of 15 metres thick (Figure B30). It strikes 168 degrees and dips 37 degrees to the east. The footwall contact of the zone is sharp and is overlain by a 1.7-metre-wide zone (Zone A) of intense brecciation, clay and chlorite alteration and *en echelon*, quartz-filled stress fractures.

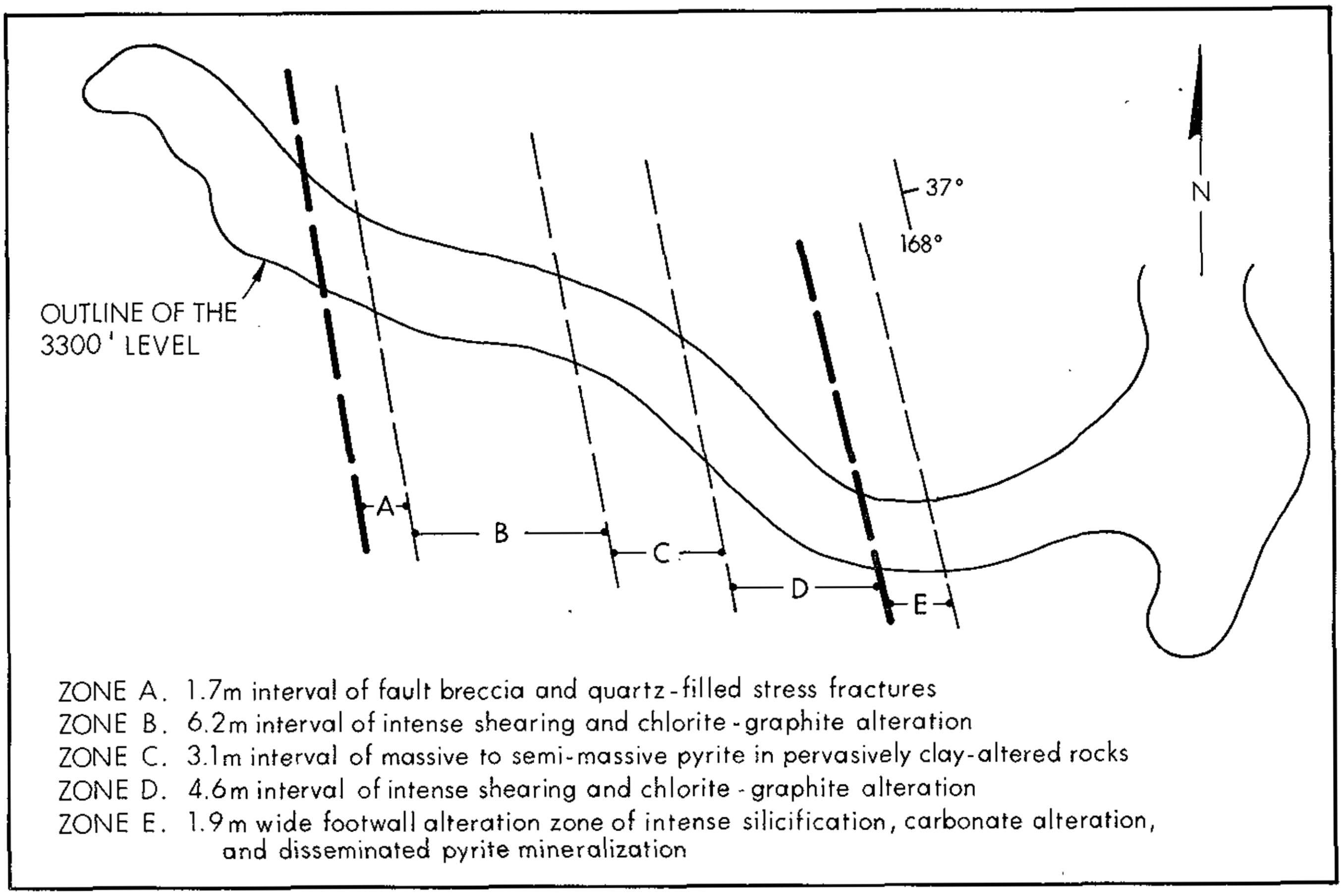


Figure B30. Sketch plan of the Pyrite zone on the 3300 level, Taurus mine.

This zone is overlain by a 6.2-metre interval (Zone B) characterized by clay, chlorite and graphite alteration and disseminated pyrite. The lower half has pervasive clay and chlorite alteration while the upper half contains more graphite and disseminated pyrite. A lamprophyre dyke crosscuts this zone. The Pyrite zone (Zone C) overlies Zone B and is 3.1 metres thick comprising massive to semimassive, fine-grained pyrite within a pervasively clay-altered host rock. The lower contact is sharp although disseminated pyrite in the upper half of Zone B indicates a partially transitional boundary. The Pyrite zone is overlain by a 6.4-metre-wide sequence (Zone D) of clay, chlorite and graphite alteration similar to Zone B. This uppermost zone of the fault is chlorite rich at its base and, like Zone B, contains disseminated pyrite near its contact with the Pyrite zone. Zone E is a light grey alteration zone in the hangingwall of the fault zone that is about 1.8 metres wide. It is composed of variably silicified and carbonate-altered andesite wallrock and contains some disseminated pyrite.

Chip sampling across the reverse fault (Table B6) returned assays of 2.06 grams per tonne gold over 1.55 metres and 15.01 grams per tonne gold over 1.55 metres across the upper and lower halves of the Pyrite zone respectively. These samples produced a weighted average of 8.53 grams per tonne gold over a width of 3.1 metres. Further sampling is needed to determine the gold distribution pattern within the Pyrite zone more accurately. The reverse fault which hosts the Pyrite zone may also be responsible for the offset of the Number 1 and 2 veins below the 3348 level and their absence on the 3300 level at the bottom of the mine.

A wide zone of semimassive pyrite bounded by zones of chloritic and graphitic alteration is located on the west end of the Number 1 vein drift on the 3400 level. This structure may correlate with the reverse fault hosting the Pyrite zone on the 3300 level. If so, the fault could have significant potential for gold mineralization with substantial lateral continuity.

WORK DONE

Drifting, raising, stoping and crosscutting continued on the 3348 and 3300 levels at the Taurus mine in 1987. Exploration work was also done in two areas away from the mine. A total of 400 metres of diamond drilling was completed in the Snowy Creek area southeast of the mine. About 170 metres of surface diamond drilling was also done in two holes near the old Hopeful adit located about 1 kilometre southwest of the mine. The adit was dewatered, widened from 1.5 by 2 metres to 2.5 by 4 metres, and a decline was driven 180 metres with one 60-metre crosscut. A vein was traced for about 80 metres and the decline has reached the limit of the area tested by surface drilling.

TABLE B6
ASSAY RESULTS FROM THE PYRITE ZONE

Sample No.	Zone	Sample Width (m)		Au (g/t)
5833	A	1.7		0.34
5831	B	3.1	Upper half	0.34
5832	B	3.1	Lower half	0.34
5829	C	1.55	Upper half	2.06
5830	C	1.55	Lower half	15.01
5827	D	2.3	Upper half	0.69
5828	D	2.3	Lower half	0.69
5826	E	1.8		0.69

Analysis by fire assay at the Taurus mine, September 30, 1987.

ACKNOWLEDGMENTS

The assistance of the mine staff of Taurus Resources Ltd. at Cassiar, in particular John Westra (Mine Manager) and Dan Dumaine (Mining Engineer), is much appreciated. Assays for this article were prepared by the staff of the mine laboratory and their assistance is gratefully acknowledged. This article benefited from discussions with David Lefebure (District Geologist, Smithers).

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INDUSTRIAL MINERALS

HELLROARING CREEK PEGMATITE (Fig. B1, No. 18) **By G.V. White**

LOCATION: Lat. 49°34′ Long. 116°10′ (82F/9)
FORT STEELE MINING DIVISION. 20 kilometres southwest of Kimberley.
CLAIMS: SARAH, SCOUT, KELLY, CUB, MONECA.
ACCESS: By road from Kimberley.
OWNERS: Barnwell of Canada Limited, Colt Exploration (Western) Limited, Fairholme Development Limited, Lumberton Mines Limited.
OPERATOR: LUMBERTON MINES LIMITED.
COMMODITY: Feldspar.

DESCRIPTION:

INTRODUCTION

A 9-day program to evaluate the feldspar potential of the Hellroaring Creek stock was conducted during July 1987. Work consisted of geological mapping, sampling, petrographic examinations and laboratory analyses. The property was originally studied as a beryl prospect, but beryl was found only locally and in trace amounts.

Results indicate the stock contains reserves of glass/ceramic grade feldspar.

GEOLOGY

The Hellroaring Creek pegmatite intrudes Proterozoic Aldridge Formation argillites, quartzites, argillaceous quartzites and mica schists. Metamorphosed Moyie dioritic sills and dykes, which intrude the Aldridge Formation, are cut by the stock emplaced approximately 1260 million years ago during Middle Proterozoic time (Ryan and Blenkinsop, 1971). The stock is exposed over the area of 1.5 by 4 kilometres (Figure B31), and in the area examined (Figure B32), consists of medium (1 to 5 millimetres) to coarse-grained (greater than 5 millimetres) white to light grey pegmatite. In typical samples pegmatite consists of 60 to 70 per cent feldspar, 20 to 30 per cent quartz, 0 to 10 per cent muscovite, 0 to 10 per cent tourmaline and may include garnet and/or pyrite, pyrrhotite and galena. Feldspar occurs in distinct microcline and albite-rich zones (Figure B32). Where feldspar is found with regular intergrowths of quartz, the pegmatite has a graphic texture. Quartz occurs locally in massive lenses several metres across and these are noticeably free of feldspar. Muscovite occurs as either fine flakes along fractures or in irregular patches with books up to 13 centimetres across. Thin needle-like tourmaline crystals (3 by 10 millimetres) and blades up to 3 centimetres long occur in patches. Red to pink garnet (1 to 2 millimetres) is observed in drill core (Figure B33) and occasional veinlets of sulphides, including pyrite, pyrrhotite and galena are also

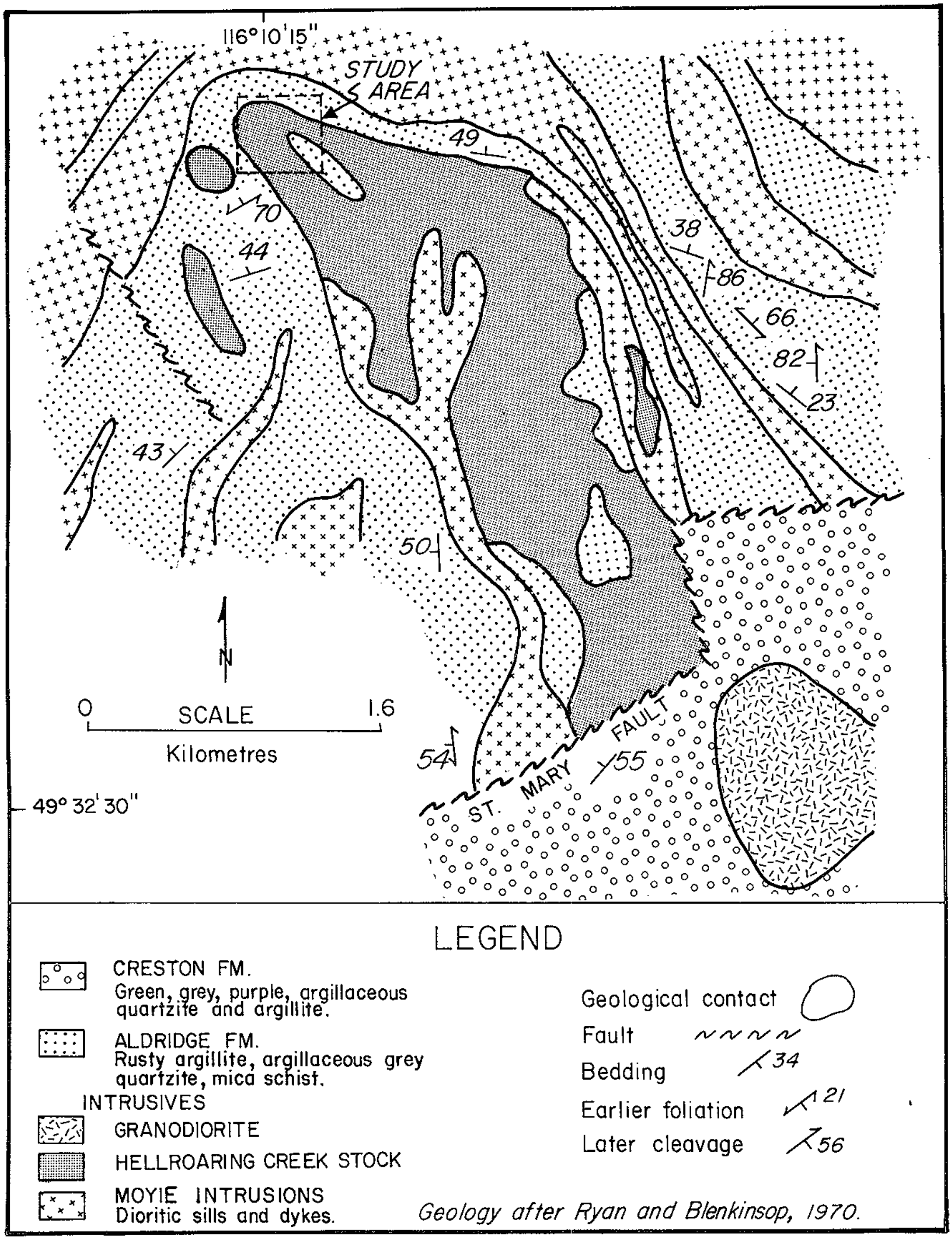


Figure B31. Geology of the Hellroaring Creek stock.

present. Iron and manganese staining is common on outcrops and in drill core.

LABORATORY ANALYSIS

Results of chemical and spectrographic analyses and X-ray diffraction tests on 23 samples are listed in Tables B7, B8 and B9. Major elements in typically feldspathic rock range from:

SiO_2	64.86 - 76.72%
Al_2O_3	12.61 - 19.00%
K_2O	0.45 - 12.45%
Na_2O	1.95 - 6.44%
CaO	0.05 - 0.64%
Fe_2O_3	0.05 - 4.24%

Samples of massive quartz (HELL-014.5,049,077,094) not included.

Table B7 indicates silica ranges between 65 and 75 per cent with siliceous zones up to 98 per cent. Alumina ranges from 19 per cent in the microcline-rich zones to 13.65 per cent in the albite-rich zone and minor amounts present in siliceous samples. Potash and soda content varies signficantly with location, from between 0.45 and 1.97 per cent to between 12.45 and 6.44 per cent respectively.

TABLE B7

MAJOR ELEMENT XRF RESULTS, HELLROARING CREEK

Field No.	SiO_2 %	TiO_2 %	Al_2O_3 %	Fe_2O_3 %	MnO %	MgO %	CaO %	Na_2O %	K_2O %	P_2O_5 %	LOI %	SUM %
HELL-012	64.86	0.01	19.00	0.05	0.02	0.03	0.05	2.94	12.45	0.17	0.27	99.86
HELL-014.5	88.46	0.02	6.60	0.20	0.02	0.00	0.06	1.60	1.70	0.03	0.45	99.14
HELL-015	74.58	0.02	14.43	1.01	0.08	0.00	0.34	6.25	1.51	0.11	0.56	98.90
HELL-033	71.76	0.03	16.79	1.56	0.05	0.13	0.42	6.44	0.45	0.10	0.69	98.42
HELL-043	73.45	0.01	15.27	0.58	0.04	0.00	0.37	5.31	2.92	0.11	0.62	98.68
HELL-046	75.88	0.02	14.90	0.77	0.02	0.03	0.41	4.63	2.55	0.08	0.78	100.07
HELL-048	75.98	0.01	12.61	0.21	0.01	0.00	0.19	5.32	2.03	0.10	0.47	96.95
HELL-049	81.22	0.02	12.02	0.39	0.02	0.02	0.17	2.49	2.16	0.04	1.18	99.73
HELL-054	73.73	0.01	14.12	0.07	0.01	0.00	0.07	2.05	9.07	0.11	0.30	99.54
HELL-056	71.84	0.01	15.14	0.05	0.01	0.00	0.05	1.97	9.89	0.13	0.34	99.43
HELL-065	76.72	0.01	13.65	0.51	0.03	0.00	0.45	5.68	1.54	0.10	0.33	99.03
HELL-070	69.71	0.01	16.31	0.06	0.01	0.01	0.07	1.95	11.35	0.15	0.31	99.93
HELL-072	71.45	0.03	15.98	4.24	1.07	0.11	0.48	4.49	0.79	0.07	0.64	99.36
HELL-073	74.92	0.02	14.26	0.65	0.03	0.01	0.54	5.50	2.52	0.09	0.48	99.00
HELL-077	97.95	0.01	0.17	0.04	0.01	0.00	0.01	0.00	0.00	0.00	0.16	98.35
HELL-080	72.57	0.01	14.77	0.27	0.04	0.00	0.25	4.19	3.92	0.10	0.70	96.82
HELL-086	70.69	0.01	15.77	0.11	0.02	0.01	0.07	2.20	10.11	0.15	0.38	99.52
HELL-087	71.88	0.01	15.23	0.08	0.02	0.02	0.10	2.20	9.35	0.14	0.41	99.44
HELL-094	97.42	0.01	0.05	0.08	0.01	0.00	0.01	0.00	0.00	0.00	0.07	97.65
HELL-100	73.82	0.02	14.94	0.97	0.09	0.06	0.42	4.75	3.42	0.09	0.44	99.03
HELL-120	73.49	0.02	15.14	1.49	0.17	0.03	0.64	6.31	0.48	0.15	0.39	98.31
HELL-148	73.16	0.02	15.14	0.61	0.03	0.08	0.24	3.27	6.15	0.10	0.75	99.55
HELL-156	73.07	0.02	14.79	0.79	0.04	0.02	0.58	5.15	2.35	0.08	0.54	97.43

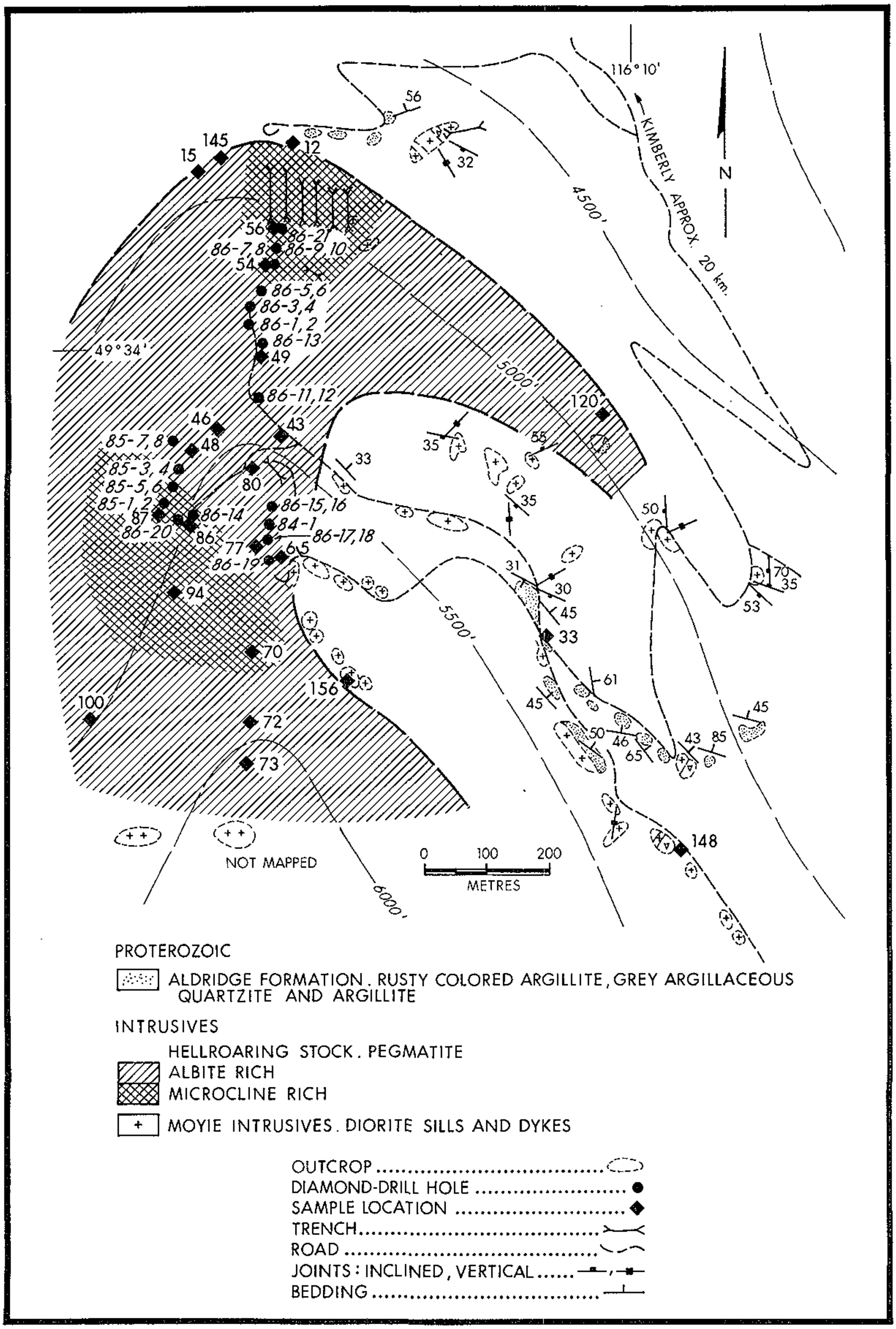
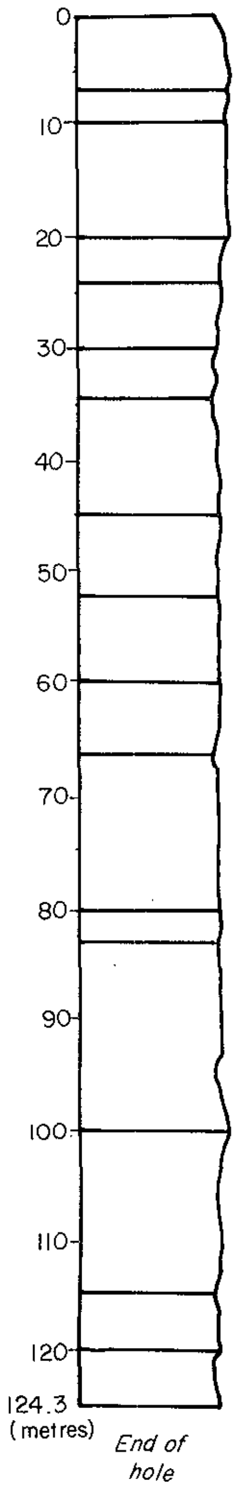


Figure B32. Detailed geology and sample locations, Hellroaring Creek pegmatite.



Pegmatite; white, coarse-grained; 70% feldspar, 15-20% quartz, 5-10% muscovite, 1% tourmaline, mica transparent, colourless to light green, minor iron staining, tourmaline occurs in hexagonal blades 25 x 4mm.

30-50% quartz, 30-50% feldspar, 5-10% muscovite, 2-3% tourmaline.

70% feldspar, 20% quartz, 5-10% muscovite, 3% tourmaline, quartz occurs in phenocrysts; increased iron staining.

70% feldspar, 20-25% quartz, minor muscovite, 1% tourmaline, quartz in veinlets.

70% feldspar, 20-25% quartz, 5-10% muscovite, 2-3% tourmaline, 2-3% iron staining.

70% feldspar, 20-25% quartz, 5% muscovite, 5% tourmaline, tourmaline in needlike clusters up to 8mm long.

65% feldspar, 20-25% quartz, 5-10% tourmaline, 5% muscovite; tourmaline needlelike - 20 x 4mm; heavy iron staining.

70% feldspar, 20-25% quartz, 5-7% muscovite, 1% tourmaline, minor iron staining from muscovite; tourmaline blades 5 x 1 mm.

70% feldspar, 20-25% quartz, 3-5% muscovite, 1-2% tourmaline, quartz is glassy, occurring in phenocrysts; minor iron staining.

60-70% feldspar, 20-25% quartz, 5-10% muscovite, 1% tourmaline; minor iron staining.

Coarse white to light grey pegmatite; 70% feldspar, 20-25% quartz, 5-7% muscovite, 1% tourmaline; fine grained pyrite; quartz in 2-3cm stringers; greater than 5% iron staining.

70% feldspar, 20-25% quartz, 7-10% muscovite, 1% tourmaline; pyrite in 7mm x 6cm veinlets; very fine grained; iron staining common.

Coarse white pegmatite, 70% feldspar, 20-25% quartz (glassy), 5% muscovite, 1% tourmaline; minor iron staining.

White to light grey, coarse pegmatite; 70-75% feldspar, 20-25% glassy grey quartz, 3-5% muscovite, 1% tourmaline.

70-75% feldspar, 20-25% quartz, 3-5% muscovite, 1% tourmaline; minor iron staining.

60-70% feldspar, 20-25% quartz, 5% pale green muscovite, 1% pale pink garnet, 1% tourmaline.

DDH 86-9 HELLROARING CREEK

SCALE 1:50

Figure B33. Diamond-drill hole 86-9, Hellroaring Creek (scale 1:50).

TABLE B8

X-RAY DIFFRACTION RESULTS, HELLROARING CREEK

Field No.	Minerals Identified
HELL-012	Microcline > albite
HELL-014.5	Quartz >> albite >> microcline > muscovite
HELL-015	Albite ~ quartz >> microcline > minor muscovite and tourmaline
HELL-033	Albite > quartz >> tourmaline (Fe-rich?) > minor muscovite and K-feldspar
HELL-043	Albite > quartz > microcline >> minor muscovite and tourmaline
HELL-046	Albite ~ quartz > microcline >> minor muscovite and tourmaline
HELL-048	Albite > quartz >> microcline >> minor muscovite
HELL-049	Quartz > albite >> muscovite ± trace K-feldspar
HELL-054	Microcline > quartz > albite >> trace illite and/or muscovite
HELL-056	Microcline > quartz > albite >> trace muscovite
HELL-065	Albite > quartz >> microcline >> minor tourmaline and muscovite
HELL-070	Microcline > quartz > albite >> trace muscovite
HELL-072	Albite > quartz >> tourmaline > minor muscovite and trace K-feldspar
HELL-073	Albite > quartz >> microcline >> tourmaline >> trace muscovite
HELL-077	Quartz with trace feldspars ± smectite
HELL-080	Albite ~ quartz >> microcline >> muscovite
HELL-086	Microcline > quartz > albite >> trace muscovite
HELL-087	Microcline > quartz > albite >> trace muscovite
HELL-094	Quartz
HELL-100	Albite ≃ quartz > microcline >> tourmaline > minor muscovite
HELL-120	Albite > quartz >> tourmaline > minor muscovite ± trace K-feldspar
HELL-148	Quartz ~ albite ~ microcline >> minor muscovite and tourmaline
HELL-156	Albite ~ quartz >> microcline > minor tourmaline and muscovite

Remarks:

(1) Tourmaline detected in this suite of rocks appears to be iron-rich.

PROCESSING TESTS

Processing tests by CANMET on one representative potassium feldspar sample produced:

Product	Weight (%)
Slimes	14.2
Mica concentrate	3.2
Iron concentrate	0.2
Feldspar concentrate (magnetic)	1.4
Feldspar concentrate (non-magnetic)	59.9
Clean tails	1.9
Tails	19.4
Total	100.0

TABLE B9
SPECTROGRAPHIC RESULTS, HELLROARING CREEK
(per cent)

Sample No.	Si	Al	Hg	Ca	Fe	Pb	Cu	Zn	Mn	Ag	V	Ti
HELL-012	>10	8.0	<0.1	<0.1	<0.1	-	0.03	-	<0.01	-	T	<0.01
HELL-014.5	>10	3.0	<0.1	<0.1	0.1	-	T	-	<0.01	-	T	<0.01
HELL-015	>10	7.0	<0.1	0.1	0.6	-	T	-	0.05	-	T	0.01
HELL-033	>10	7.5	0.1	0.12	1.1	-	T	-	0.03	-	T	0.02
HELL-043	>10	7.0	<0.1	0.15	0.3	-	T	-	0.02	-	T	0.01
HELL-046	>10	7.0	<0.1	0.15	0.5	-	T	-	<0.01	-	T	0.01
HELL-048	>10	7.0	<0.1	0.1	0.1	-	T	-	<0.01	-	T	<0.01
HELL-049	>10	6.5	<0.1	0.1	0.25	-	T	-	0.01	-	T	0.01
HELL-054	>10	7.0	<0.1	<0.1	<0.1	-	T	-	<0.01	-	T	<0.01
HELL-056	>10	7.5	<0.1	0.25	0.6	-	T	-	0.02	-	T	0.01
HELL-070	>10	5.5	<0.1	<0.1	<0.1	T	-	-	<0.01	-	-	<0.01
HELL-072	>10	8.0	0.25	0.3	2.0	-	T	-	0.35	-	T	0.03
HELL-073	>10	7.0	<0.1	0.25	0.25	-	T	-	<0.01	-	T	0.01
HELL-077	>>10	0.1	<0.1	<0.1	<0.1	-	-	-	<0.01	-	-	T
HELL-080	>10	7.0	<0.1	0.1	0.15	-	T	-	0.02	-	T	<0.01
HELL-086	>10	6.0	<0.01	<0.1	<0.1	-	T	-	<0.01	-	T	<0.01
HELL-087	>10	5.5	<0.1	<0.1	<0.1	T	T	-	<0.01	-	T	<0.01
HELL-094	>10	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.01	-	-	T
HELL-100	>10	10.0	0.1	0.3	0.6	-	T	-	0.12	-	-	0.01
HELL-120	>10	8.5	<0.1	0.4	1.3	-	-	-	0.15	-	-	0.01
HELL-148	>10	9.0	0.1	0.15	0.4	T	T	-	0.01	-	-	0.01
HELL-156	>10	>10.0	<0.1	0.5	0.5	-	-	-	0.04	-	-	0.01

Sample No.	Ni	Co	Na	K	Ga	Zr	Sr	Y	Be	B	Mo	Sn	Cr	Yb
HELL-012	T	T	>2.0	>5.0	T	-	-	-	-	T	T	-	-	-
HELL-014.5	-	T	1.0	0.5	T	-	-	-	T	T	-	T	-	-
HELL-015	-	T	>2.0	0.8	T	-	-	-	T	0.25	-	-	-	-
HELL-033	-	T	>2.0	0.3	T	-	-	-	T	>0.5	-	T	-	-
HELL-043	-	T	>2.0	1.2	T	-	-	-	T	0.2	-	T	-	-
HELL-046	-	T	2.0	0.7	T	-	-	-	T	0.5	-	T	-	-
HELL-048	-	T	>2.0	1.0	T	-	-	-	T	T	-	T	-	-
HELL-049	-	T	1.5	0.8	T	-	-	-	T	T	T	T	T	-
HELL-054	-	T	>2.0	>5.0	T	-	-	-	-	T	-	T	-	-
HELL-056	-	T	>2.0	>5.0	T	-	-	-	-	T	-	T	-	-
HELL-065	T	T	>2.0	0.7	T	-	-	-	T	0.3	T	-	T	-
HELL-070	-	T	>2.0	>5.0	T	-	T	-	-	T	-	T	-	-
HELL-072	-	T	>2.0	0.5	T	T	-	T	T	>0.5	-	T	-	T
HELL-073	-	T	>2.0	>2.0	T	-	-	-	T	0.3	-	-	-	-
HELL-077	-	T	T	T	-	-	-	-	-	-	-	-	-	-
HELL-080	-	T	>2.0	>2.0	T	-	-	-	T	0.01	-	T	-	-
HELL-086	-	T	>2.0	>5.0	T	-	-	-	-	T	-	T	-	-
HELL-087	-	T	>2.0	>5.0	T	-	-	-	-	T	-	-	-	-
HELL-094	-	T	T	T	-	-	-	-	-	-	-	-	-	-
HELL-100	-	T	>2.0	>2.0	T	-	-	-	T	0.5	T	T	-	-
HELL-120	-	T	>2.0	<0.3	T	-	-	-	T	>0.5	-	-	-	-
HELL-148	-	T	2.0	>5.0	T	-	T	-	T	0.25	-	T	-	-
HEll-156	-	T	>2.0	>2.0	T	-	-	-	T	0.4	-	T	-	-

Chemical analysis of the non-magnetic feldspar concentrate is:

Major Oxides	Sample as Received (weight %)	Feldspar Concentrate (weight %)
Fe_2O_3	0.06	0.05
MnO	<0.01	<0.01
Cr_2O_3	<0.01	<0.01
TiO_2	<0.01	<0.01
CaO	0.12	0.13
Na_2O	2.18	2.43
K_2O	9.67	12.82
P_2O_5	0.12	0.13
SiO_2	65.0	58.9
Al_2O_3	12.7	16.0
MgO	<0.05	<0.05
LOI	0.28	0.82

DISCUSSION

Processing tests indicate potential to produce mica and feldspar concentrates that meet industry standards with full liberation at 50 mesh.

ACKNOWLEDGMENTS

I would like to thank John McLeod of Lumberton Mines Limited of Calgary for his permission to examine Hellroaring Creek drill core and for providing company base maps.

REFERENCES

Pudifin, S.M. (1986): Hellroaring Group Industrial Mineral Project, *B.C. Ministry of Energy, Mines and Petroleum Resources*, Assessment Report, 15760.

Ryan, B.D. and Blenkinsop, J. (1971): Geology and Geochronology of the Hellroaring Creek Stock, British Columbia, *Canadian Journal of Earth Sciences*, Volume 8, page 85.

LUMBY PEGMATITE (Fig. B1, No. 19) **By G.V. White**

LOCATION:	Lat. 50°15′ Long. 118°47′43" (82L/2W,7W) VERNON MINING DIVISION. 13 kilometres east of Lumby.
CLAIMS:	BEARCUB 1, 2, BODI 1, 2.
ACCESS:	By road from Lumby.
OWNER/OPERATOR:	BRENDA MINES LIMITED.
COMMODITY:	Feldspar.

DESCRIPTION:

INTRODUCTION

A 7-day program was conducted in August 1987 to determine the size and nature of a 1.25 by 2.65-kilometre stock of pegmatite 13 kilometres east of Lumby (Mineral Inventory 82L/SE-015). Work consisted of geological mapping, sampling, petrographic examinations and chemical analyses.

Field investigations, chemical and spectrographic analyses, and X-ray diffraction and thin-section studies of grab samples indicate the intrusive is a potential source of glass/ceramic grade feldspar.

REGIONAL GEOLOGY

The stock intrudes quartz mica schist of the Okanagan plutonic and metamorphic complex (formerly Monashee Group) and is bounded on the south and west by Tertiary Kamloops volcanics, and on the north and east by granitic rocks of the Shuswap metamorphic complex. Biotite from the stock is currently being analysed to document time of emplacement.

LOCAL GEOLOGY

Four distinct rock types are recognized in the map area (Figure B34) and are briefly described:

Pegmatite: Often crops out as topographic highs, appears fresh, massive and most often white, but ranges from cream through yellow to reddish orange where stained by iron leached from mica.

Typically, the pegmatite consists of 67 to 75 per cent feldspar, 20 to 25 per cent quartz, 5 to 7 per cent muscovite and 5 to 15 per cent mafic minerals, commonly biotite, garnet and rarely tourmaline. Locally, regular intergrowths of quartz and feldspar give the pegmatite a graphic texture. Books of biotite and/or muscovite, up to 5 centimetres across, occur sporadically in clusters throughout the pegmatite or as individual flakes. The two micas may form 5 per cent of total volume, but are seldom found together.

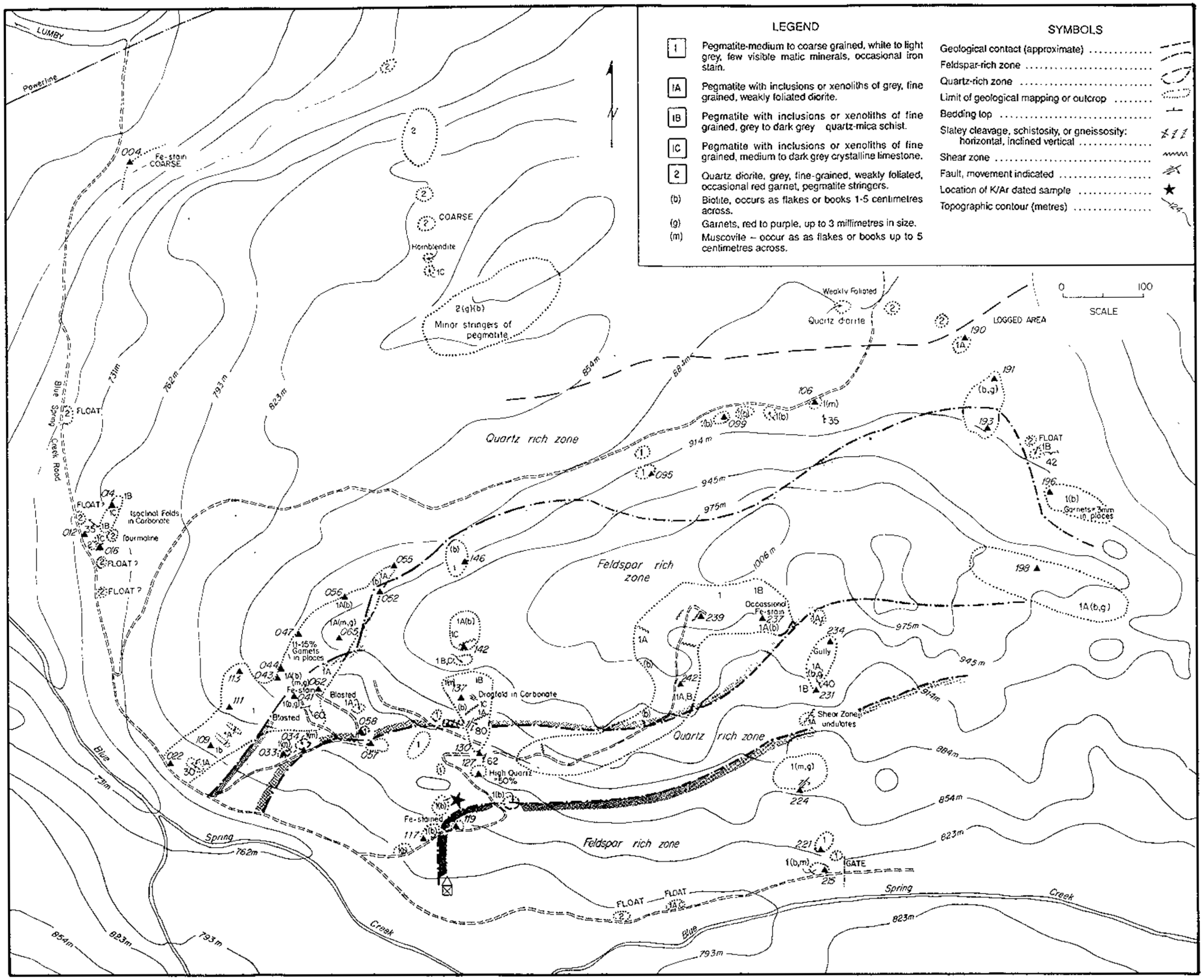


Figure B34. Geology of the Lumby pegmatite.

Red to purple garnet (1 to 3 millimetres) occurs in pockets and constitutes 5 to 15 per cent of the rock. In one location only, small (1 to 2 millimetre) crystals of tourmaline were identified.

In thin section iron oxides occur in biotite and along fractures between grains of feldspar and quartz.

Quartz Diorite: Massive, grey, fine (less than 1 millimetre) to medium-grained (1 to 5 millimetres), weakly foliated quartz diorite crops out as a prominent topographic high immediately north of the pegmatite stock. The diorite is cut by thin pegmatite dykelets and contains small (less than 1 millimetre) red garnets. South of the intrusive, xenoliths of diorite are incorporated in the pegmatite; they are often tens of metres across and similar in appearance to the more massive diorite to the north, but appear to be partially digested.

Quartz Mica Schist: Large (tens of metres across) xenoliths of fine-grained, medium to dark grey quartz mica schist are incorporated in the main pegmatite stock. The schist is foliated, several metres thick, locally intruded by lenses of quartz or pegmatite and often sheared. Small (1 to 3 millimetres) red to purple garnets are common.

Carbonate: Medium to dark grey, fine-grained crystalline limestone occurs as inclusions in the pegmatite stock. The carbonate is found within beds of quartz mica schist and contains stringers of quartz or pegmatite. Small-scale isoclinal folds and boudinage structures are prominent features in the limestone.

LABORATORY ANALYSES

Results of chemical and spectrographic analyses and X-ray diffraction tests are listed in Tables B10, B11 and B12. Major elements are:

SiO_2	66.26 - 82.37%
Al_2O_3	10.65 - 18.33%
Na_2O	0.85 - 5.43%
K_2O	0.10 - 12.64%
CaO	0.07 - 4.31%
Fe_2O_3	0.04 - 2.03%

Feldspar content varies inversely with quartz in distinct zones. A feldspar-rich core zone is flanked by feldspar-poor zones rich in quartz (Figure B34).

TABLE B10
MAJOR ELEMENTS, LUMBY (BEARCUB CLAIMS)

Field No.	SiO_2 %	TiO_2 %	Al_2O_3 %	Fe_2O_3 %	MnO %	MgO %	CaO %	Na_2O %	K_2O %	P_2O_5 %	LOI %	SUM %
BLUE-004	74.66	0.11	14.58	0.93	0.01	0.14	1.54	3.14	4.25	0.02	0.50	99.89
BLUE-012	73.13	0.02	16.23	0.60	0.10	0.03	2.93	4.31	2.34	0.03	0.28	99.99
BLUE-016	75.58	0.05	14.20	0.42	0.01	0.07	0.99	3.00	5.22	0.03	0.53	100.10
BLUE-022	74.04	0.05	14.81	0.47	0.04	0.11	0.91	2.86	5.49	0.02	0.51	99.30
BLUE-033	73.89	0.01	14.29	0.13	0.02	0.02	0.19	1.35	9.72	0.04	0.24	99.90
BLUE-034	75.33	0.05	13.86	0.51	0.02	0.11	1.07	2.76	5.86	0.03	0.26	99.86
BLUE-041	70.63	0.02	15.90	0.20	0.01	0.05	0.09	1.75	10.88	0.02	0.26	99.81
BLUE-043	77.47	0.02	13.48	0.26	0.00	0.01	3.80	3.21	0.18	0.05	0.38	98.86
BLUE-044	74.35	0.08	14.86	0.77	0.02	0.13	1.25	3.51	4.61	0.02	0.42	100.02
BLUE-047	71.60	0.01	16.09	2.03	0.53	0.06	1.66	4.70	2.83	0.03	0.22	99.76
BLUE-050	72.39	0.02	14.41	0.14	0.01	0.05	0.27	1.71	9.52	0.03	0.30	98.85
BLUE-052	74.77	0.06	15.34	0.74	0.05	0.09	1.94	4.74	1.39	0.03	0.50	99.53
BLUE-055	75.58	0.05	14.52	0.29	0.01	0.08	2.37	3.62	2.43	0.02	0.37	99.33
BLUE-057	74.68	0.15	14.90	0.94	0.02	0.21	1.41	3.22	2.92	0.02	0.85	99.32
BLUE-058	71.36	0.03	15.50	0.30	0.01	0.07	0.23	1.86	10.27	0.02	0.28	99.93
BLUE-062	71.89	0.03	15.60	0.42	0.05	0.06	0.41	2.44	8.60	0.03	0.27	99.80
BLUE-065	74.14	0.02	15.01	0.25	0.03	0.03	0.90	3.39	5.91	0.02	0.34	100.04
BLUE-095	72.83	0.03	15.81	0.19	0.01	0.03	0.47	2.24	8.00	0.02	0.52	100.16
BLUE-099	72.96	0.04	15.28	0.62	0.06	0.07	1.76	4.86	2.29	0.02	0.29	98.26
BLUE-106	73.52	0.05	15.50	0.49	0.01	0.12	0.95	3.30	5.00	0.04	0.59	99.57
BLUE-109	72.38	0.05	15.53	0.43	0.01	0.10	1.40	3.81	4.89	0.03	0.32	98.96
BLUE-111	73.89	0.08	15.67	0.65	0.01	0.10	4.31	3.35	1.06	0.01	0.71	99.84
BLUE-113	72.93	0.04	14.91	0.72	0.05	0.05	1.21	3.25	5.72	0.03	0.34	99.21
BLUE-117	74.20	0.08	15.13	0.57	0.02	0.12	0.97	2.74	5.38	0.02	0.58	99.81
BLUE-119	66.26	0.01	18.33	0.07	0.01	0.04	0.16	1.88	12.64	0.04	0.39	99.83
BLUE-127	82.37	0.04	10.65	0.13	0.00	0.03	4.26	0.85	0.10	0.02	0.54	98.99
BLUE-130	70.68	0.04	16.72	0.56	0.01	0.03	3.13	3.49	3.77	0.03	0.48	98.92
BLUE-137	72.93	0.03	14.32	0.65	0.01	0.04	0.40	2.42	8.21	0.04	0.38	99.43
BLUE-142	73.09	0.03	14.99	0.28	0.02	0.07	0.71	2.66	7.70	0.03	0.26	99.84
BLUE-146	72.37	0.03	14.96	0.25	0.01	0.06	0.13	1.61	10.04	0.03	0.47	99.96
BLUE-190	74.15	0.05	14.60	0.49	0.02	0.13	1.23	3.07	5.57	0.04	0.41	99.76
BLUE-191	76.30	0.05	15.09	0.83	0.11	0.12	1.10	2.40	2.72	0.03	0.83	99.59
BLUE-193	72.35	0.01	15.48	0.38	0.06	0.03	0.24	2.00	9.08	0.05	0.36	100.04
BLUE-196	74.03	0.06	15.41	0.60	0.01	0.11	1.16	3.49	4.59	0.03	0.60	100.09
BLUE-198	72.96	0.01	14.95	0.22	0.01	0.03	0.15	2.16	9.16	0.04	0.28	99.97
BLUE-215	71.40	0.01	15.42	0.14	0.01	0.03	0.14	1.61	10.35	0.02	0.25	99.38
BLUE-221	71.99	0.01	15.19	0.04	0.01	0.02	0.07	1.44	10.71	0.02	0.28	99.78
BLUE-224	75.22	0.03	15.21	0.43	0.08	0.04	1.57	4.55	2.54	0.02	0.38	100.07
BLUE-231	75.77	0.02	14.45	0.22	0.01	0.01	1.78	3.98	3.07	0.06	0.43	99.80
BLUE-234	75.24	0.05	15.25	0.78	0.09	0.08	1.45	4.48	2.05	0.02	0.64	100.13
BLUE-237	73.15	0.04	15.06	0.50	0.04	0.08	0.28	2.14	8.14	0.04	0.67	100.14
BLUE-239	73.99	0.07	15.40	0.90	0.05	0.12	1.50	4.61	2.80	0.03	0.48	99.95
BLUE-242	71.46	0.02	15.31	0.24	0.02	0.08	0.23	2.13	9.40	0.04	0.25	99.17
BLUE-263	77.72	0.05	11.86	0.39	0.01	0.09	1.37	2.74	3.59	0.05	0.40	98.27

TABLE B11

X-RAY DIFFRACTION RESULTS, LUMBY

Field No.	Minerals Identified
BLUE-004	Quartz>plagioclase>>K-feldspar (20%?)>>minor biotite (≤ 5%)
BLUE-012	Quartz>plagioclase>>K-feldspar (15-20%?)
BLUE-014	Plagioclase>quartz>K-feldspar (20%?)>>trace biotite (3%?)
BLUE-016	Quartz>K-feldspar ~ plagioclase>>trace biotite (2%?)
BLUE-022	Quartz ~ K-feldspar>plagioclase>>minor biotite and muscovite (2-3% each?)
BLUE-033	K-feldspar (orthoclase?) ~ quartz>>minor plagioclase (10%?)
BLUE-034	Quartz>plagioclase ~ K-feldspar>>minor biotite (4%?)
BLUE-041	K-feldspar ~ quartz>>plagioclase>>minor biotite (3%?)
BLUE-043	Quartz (60-65%?)>plagioclase (35-40%?) (oligoclase with An 25-30?)
BLUE-044	Quartz ~ K-feldspar>plagioclase>>minor biotite (5%?)
BLUE-047	Plagioclase ~ quartz>K-feldspar>>trace mica (≤ 2%)
BLUE-050	K-feldspar ~ quartz>>plagioclase (10%?)>>trace muscovite and/or illite (≤ 2%)
BLUE-052	Plagioclase>quartz>>minor K-feldspar, biotite (5% each?)>trace muscovite
BLUE-055	Quartz>plagioclase>>K-feldspar (15%?)>>minor biotite (4%?)
BLUE-057	Quartz>plagioclase>>mica (~ 10% with muscovite>>biotite)>minor K-feldspar (5%?)
BLUE-058	K-feldspar (orthoclase)>quartz>>plagioclase (10-15%)>>trace biotite (2%?)
BLUE-062	Plagioclase>quartz>K-feldspar>>minor mica (mainly biotite) and chlorite (3% each?)
BLUE-065	Quartz>K-feldspar ~ plagioclase>>trace mica (mainly biotite) (2%?)
BLUE-095	Quartz>K-feldspar>plagioclase>>minor muscovite>trace biotite ± amphibole
BLUE-099	Quartz>plagioclase>>K-feldspar>>minor biotite>trace muscovite (≤2%)
BLUE-106	Quartz>plagioclase>K-feldspar>>minor muscovite>trace biotite (≤ 2%?)
BLUE-109	Quartz>plagioclase>K-feldspar>>minor biotite (3%?)
BLUE-111	Quartz>plagioclase>>minor K-feldspar (5-10%)>trace biotite, amphibole and chlorite (≤ 5% total)
BLUE-113	Quartz>K-feldspar ~ plagioclase>>minor biotite (≤ 3%?)
BLUE-117	Quartz>plagioclase>K-feldspar>>minor muscovite (5%?)>trace biotite (2%?)
BLUE-119	K-feldspar (orthoclase)>>minor plagioclase, quartz (≤ 10% each?)>>trace mica (<2%)
BLUE-127	Quartz>>plagioclase>>minor K-feldspar (5-10%)>trace calcite and illite (≤3% each?)
BLUE-130	Quartz>plagioclase>K-feldspar
BLUE-137	K-feldspar ~ quartz>plagioclase>>trace biotite (≤2%?)
BLUE-142	K-feldspar ~ quartz>plagioclase>>trace biotite (2%?)
BLUE-146	K-feldspar>quartz>>plagioclase (10-15%)>>trace biotite (2%?)
BLUE-190	Quartz>plagioclase>K-feldspar>>minor biotite (5%?) ± trace amphibole
BLUE-191	Quartz>plagioclase>>K-feldspar>minor muscovite, sillimanite (5% each?)>trace biotite a chlorite
BLUE-193	K-feldspar (orthoclase?) ~ quartz>>plagioclase (15-20%?)>>trace mica ± chlorite (≤ 2% total)
BLUE-196	Quartz>plagioclase>K-feldspar>>minor biotite (4%)>trace muscovite ± chlorite
BLUE-198	K-feldspar ~ quartz>plagioclase>>trace mica (with biotite>muscovite, total ~ 3%?)
BLUE-215	K-feldspar ~ quartz>>plagioclase (~10-15%)>>trace mica (mainly muscovite), amphibole ± mixed-layer clay (≤ 5% total)
BLUE-221	K-feldspar (orthoclase?)>quartz>>plagioclase (~ 10%) ± trace smectite
BLUE-224	Plagioclase (oligoclase?)>quartz>>K-feldspar (15-20%?)>>minor mica (mainly muscovite, 4%?)
BLUE-231	Quartz>plagioclase>K-feldspar>>trace mica (mainly muscovite, 2%?) ± chlorite ± mixed-layer clay
BLUE-234	Quartz ~ plagioclase>>K-feldspar (10-15%?)>minor muscovite (7%?) ± trace illite
BLUE-237	K-feldspar ~ quartz>plagioclase>>trace muscovite, biotite and chlorite (2% each?)
BLUE-239	Plagioclase ~ quartz>>K-feldspar (15%?)>>minor biotite (4%?)
BLUE-242	K-feldspar (orthoclase)>quartz>>plagioclase (15-20%)>>trace biotite ± illite ± smectite (≤ 5 total)
BLUE-263	Quartz>plagioclase>K-feldspar>>trace mica ± chlorite (≤ 2% total)

TABLE B12

SPECTROGRAPHIC RESULTS, LUMBY

(per cent)

Sample No.	Si	Al	Hg	Ca	Fe	Pb	Cu	Zn	Mn	Ag	V	Ti	Ni
BLUE-004	>10	9.0	0.1	1.2	1.0	T	-	-	0.01	-	T	0.08	-
BLUE-012	>10	7.0	0.03	2.5	0.5	T	T	-	0.1	-	T	0.01	-
BLUE-014	>10	7.0	0.1	1.2	0.5	T	T	-	<0.1	-	T	0.01	-
BLUE-016	>10	6.0	0.07	0.3	0.4	T	-	-	<0.1	T	T	0.02	-
BLUE-022	>10	8.0	0.07	1.0	0.45	T	T	-	0.03	-	T	0.05	-
BLUE-033	>10	7.0	0.1	<0.1	<0.1	T	T	-	0.03	-	T	0.01	-
BLUE-034	>10	8.0	0.1	0.5	0.6	T	T	-	0.01	-	T	0.03	-
BLUE-041	>10	5.0	0.02	<0.1	0.2	T	-	-	0.01	-	T	0.01	-
BLUE-043	>10	9.0	<0.1	3.0	0.25	-	T	-	0.01	-	T	0.01	-
BLUE-044	>10	8.0	0.12	1.0	0.8	T	T	-	0.01	-	T	0.06	-
BLUE-047	>10	8.5	0.1	1.5	2.5	T	T	-	0.2	-	T	<0.01	-
BLUE-050	>10	7.0	<0.1	0.1	0.1	T	T	-	0.01	-	T	<0.01	-
BLUE-052	>10	7.5	0.1	1.4	0.2	T	T	-	0.01	-	T	0.02	-
BLUE-057	>10	8.0	0.2	1.2	0.8	T	T	-	0.02	-	T	0.07	T
BLUE-058	>10	8.0	<0.1	<0.1	0.15	T	T	-	0.01	T	T	0.01	-
BLUE-062	>10	8.5	0.15	1.4	0.7	T	T	-	0.02	-	T	0.05	-
BLUE-065	>10	7.0	<0.1	0.25	0.15	T	T	-	0.04	-	T	0.01	-
BLUE-095	>10	7.0	0.03	0.2	0.2	T	T	-	<0.01	-	T	0.01	-
BLUE-099	>10	6.5	0.05	2.0	0.6	T	T	-	0.07	-	T	0.04	-
BLUE-106	>10	8.0	0.1	1.0	0.5	T	-	-	0.01	-	T	0.05	-
BLUE-109	>10	7.5	0.04	0.9	0.4	T	-	-	<0.01	-	T	0.03	-
BLUE-111	>10	7.0	0.04	6.0	0.5	T	T	-	<0.01	-	T	0.06	T
BLUE-113	>10	6.5	0.03	0.8	0.5	T	T	-	0.04	-	T	0.02	-
BLUE-117	>10	7.0	0.1	0.8	0.5	T	-	-	0.02	-	T	0.06	-
BLUE-119	>10	7.5	<0.01	<0.01	<0.01	0.02	T	-	<0.01	T	T	0.01	T
BLUE-127	>10	6.5	0.03	4.5	0.15	-	T	-	<0.01	-	T	0.02	-
BLUE-130	>10	7.0	0.01	3.5	0.5	T	T	-	<0.01	-	T	0.03	-
BLUE-137	>10	7.5	0.1	0.15	0.7	T	T	-	<0.01	-	T	0.01	-
BLUE-142	>10	8.5	0.1	0.3	0.3	T	T	-	0.01	-	T	0.01	-
BLUE-146	>10	7.5	0.1	<0.1	0.2	T	T	-	<0.01	-	T	0.01	-
BLUE-190	>10	8.0	<0.1	1.0	0.3	T	T	-	<0.01	-	T	0.01	-
BLUE-191	>10	9.0	0.1	1.0	0.7	-	T	-	0.12	-	T	0.02	-
BLUE-193	>10	8.0	<0.1	0.1	0.25	T	T	-	0.08	-	T	<0.01	-
BLUE-196	>10	10.0	0.1	1.0	0.35	T	T	-	0.01	-	T	0.03	-
BLUE-198	>10	7.0	<0.1	<0.1	0.1	T	T	-	<0.01	-	T	<0.01	-
BLUE-215	>10	9.0	<0.1	<0.1	0.1	T	T	-	0.02	-	T	0.01	-
BLUE-221	>10	7.5	<0.1	<0.1	<0.1	T	T	-	<0.01	-	T	<0.01	-
BLUE-224	>10	8.5	<0.1	1.2	0.25	T	T	-	0.1	-	T	0.02	-
BLUE-231	>10	8.0	<0.1	1.5	0.1	T	T	-	<0.01	-	T	0.01	-
BLUE-234	>10	9.0	0.1	1.2	0.5	T	T	-	0.09	-	T	0.02	-
BLUE-237	>10	8.0	<0.1	0.1	0.3	T	T	-	0.04	T	T	0.02	-
BLUE-239	>10	7.5	0.1	1.3	0.6	T	T	-	0.05	-	T	0.03	-
BLUE-242	>10	7.0	<0.1	0.12	0.1	T	T	-	0.01	-	T	<0.01	-
BLUE-263	>10	7.5	<0.1	1.0	0.15	T	T	-	<0.01	-	T	0.01	-

Sample No.	Co	Na	K	W	Ba	Ga	Zr	Sr	Y	Be	B	Mo	Yb	Th
BLUE-004	T	1.5	2.0	-	0.05	T	T	T	-	-	-	-	-	-
BLUE-012	T	>>2.0	>2.0	-	T	T	T	T	T	T	-	-	-	-
BLUE-014	T	>>2.0	>>2.0	-	T	T	T	T	T	T	-	-	-	-
BLUE-016	T	1.5	>2.0	-	T	T	-	T	-	-	T	-	-	-
BLUE-022	T	1.7	>2.0	-	T	T	-	T	T	T	-	-	T	-
BLUE-033	T	1.5	>2.0	-	T	T	-	T	-	-	-	-	-	-
BLUE-034	T	2.0	>2.0	-	T	T	-	T	T	T	-	-	T	-
BLUE-041	T	1.6	2.0	-	0.03	T	-	T	-	-	-	-	-	-
BLUE-043	T	1.8	<0.3	-	-	T	T	0.06	-	T	-	-	-	-
BLUE-044	T	2.0	2.0	-	T	T	T	T	T	T	-	-	T	-
BLUE-047	T	>>2.0	2.0	-	T	T	T	0.04	0.02	T	-	-	0.01	T
BLUE-050	T	2.0	>>2.0	-	T	T	-	T	-	-	-	-	-	-
BLUE-052	T	>2.0	0.7	-	-	T	T	T	-	T	-	-	T	T
BLUE-055	T	>2.0	1.2	-	T	T	T	T	T	-	-	-	-	-
BLUE-057	T	1.9	1.0	-	T	T	-	T	T	-	-	-	-	-
BLUE-058	T	1.7	>>2.0	-	0.03	T	-	T	-	-	-	-	-	-
BLUE-062	T	>>2.0	>2.0	-	-	T	T	T	T	T	-	-	-	-
BLUE-065	T	1.9	>2.0	-	T	T	-	T	T	T	-	-	-	-
BLUE-095	T	1.5	>2.0	-	T	T	-	T	-	-	-	-	-	-
BLUE-099	T	>>2.0	>2.0	-	T	T	-	T	T	T	-	-	-	-
BLUE-106	T	>2.0	>2.0	-	T	T	-	T	-	T	-	-	-	-
BLUE-109	T	2.0	>2.0	-	-	T	-	T	T	T	-	-	-	-
BLUE-111	T	>>2.0	2.0	-	T	T	T	T	-	T	-	-	-	-
BLUE-113	T	>2.0	>2.0	-	0.02	T	T	-	T	T	-	-	-	-
BLUE-117	T	>2.0	>2.0	-	T	T	T	T	-	-	-	-	-	-
BLUE-119	T	>2.0	>>2.0	-	T	T	-	T	-	-	-	-	-	-
BLUE-127	T	0.8	<0.3	-	-	T	-	T	T	-	-	-	T	-
BLUE-130	T	>>2.0	>2.0	-	0.1	T	T	T	T	T	-	-	T	-
BLUE-137	T	1.7	>>2.0	-	-	T	-	T	-	-	-	T	-	-
BLUE-142	T	2.0	>>2.0	-	T	T	-	T	-	T	-	-	-	-
BLUE-146	T	1.5	>>2.0	-	T	T	-	T	-	-	-	-	-	-
BLUE-190	T	>2.0	1.8	-	T	T	T	T	-	T	-	-	-	-
BLUE-191	T	>2.0	1.3	-	0.03	T	T	T	-	T	-	-	-	-
BLUE-193	T	2.0	>>2.0	-	T	T	T	T	-	-	-	-	-	-
BLUE-196	T	>2.0	2.0	-	T	T	T	T	T	T	-	-	T	-
BLUE-198	T	>>2.0	>>2.0	-	-	T	-	T	-	T	-	-	-	-
BLUE-215	T	>2.0	>>2.0	-	T	T	-	T	-	-	-	T	-	-
BLUE-221	T	1.8	>2.0	-	T	T	-	T	-	-	-	-	-	-
BLUE-224	T	>2.0	1.5	-	-	T	-	-	T	T	-	-	T	-
BLUE-231	T	>2.0	2.0	-	-	T	-	T	T	T	-	-	T	-
BLUE-234	T	2.0	1.0	-	-	T	-	T	T	T	-	-	T	-
BLUE-237	T	1.8	>2.0	-	-	T	-	T	T	T	-	-	T	-
BLUE-239	T	>2.0	1.2	-	-	T	T	T	T	T	-	-	T	-
BLUE-242	T	2.0	>2.0	-	-	T	-	T	-	-	-	-	-	-
BLUE-263	T	2.0	1.5	-	0.03	T	-	T	-	T	-	-	-	-

PROCESSING TESTS

Processing tests by CANMET on one representative sample produced:

Product	Weight (%)
+20 mesh	3.5
Slimes	14.0
Mica concentrate	5.3
Feldspar concentrate (magnetic)	0.4
Feldspar concentrate (non-magnetic)	55.6
Tails	21.2
Total	100.0

The non-magnetic feldspar concentrate was analysed with the following results:

Major Oxides	Sample as Received (weight %)	Feldspar Concentrate (weight %)
Fe_2O	0.14	0.06
MnO	<0.01	<0.01
Cr_2O_3	0.07	<0.01
TiO_2	<0.01	<0.01
CaO	0.21	0.25
Na_2O	2.03	2.60
K_2O	10.7	12.9
P_2O_5	0.02	0.02
SiO_2	65.1	62.2
Al_2O_3	13.9	17.5
MgO	<0.05	<0.05
LOI	0.21	0.19

DISCUSSION

Low iron content and acceptable potassium and alumina content indicate the Lumby pegmatite has good to very good potential to produce a high-quality potash feldspar with liberation of 20 mesh.

ACKNOWLEDGMENT

I wish to acknowledge the cooperation of Brenda Mines Limited and in particular their geologist, Ragnar Bruaset, while working on the Bearcub claims.

REFERENCES

Bruaset, R.U. (1987): Geological and Geochemical Assessment Report on The Bearcub Feldspar Property, *Brenda mines Limited*, Company Report.

Okulitch, A.V. (1979): Geology of the Thompson - Shuswap - Okanagan, *Geological Survey of Canada*, Open File 637.

Remarks:

(1) Amorphous alteration materials, notably iron oxides and allophane, are not included in the above estimates.

(2) K-feldspar identified in the suite of rocks appear to be orthoclase while plagioclase is most likely oligoclase with An ~ 25-30 mole %.

REGIONAL

GEOCHEMICAL

SURVEY

REGIONAL GEOCHEMICAL STREAM SEDIMENT SURVEY RESULTS FOR SMITHERS (93L) AND WHITESAIL LAKE (93E) MAP SHEETS

by
D. V. Lefebure and M. H. Gunning

INTRODUCTION

The Smithers and Whitesail Lake regional geochemical surveys (RGS) are part of an ongoing program by the British Columbia Ministry of Energy, Mines and Petroleum Resources to provide industry with a high quality reconnaissance geochemical database to aid in the exploration for mineral deposits. This database can also be utilized to identify metallogenic provinces, to assist in land use decisions, and to provide data for environmental studies.

The results of the stream sediment analyses from these two surveys are reviewed in this report to identify geochemically anomalous areas and to suggest their origin. The correlation between predominant rock type, stratigraphic age and element thresholds is examined to illustrate the potential for using the entire database to define and explain more subtle anomalies.

DATABASE

Each 1:250 000 NTS map sheet (93E and 93L) covers approximately 14 500 square kilometres with an average density of one stream sediment and water sample per 16 square kilometres. Lake sediment and water samples were collected in low lying areas with poorly developed drainage patterns, to complement the stream samples. One kilogram of sediment and 0.25 litre of water were collected at each site. A complete description of the sample preparation and analytical techniques is given in the British Columbia RGS-16 and RGS-17 Open Files (GSC Open Files 1360 and 1361 respectively).

Samples were analysed for the following elements:

Zn, Cu, Pb, Ni, Co, Ag, Mn, As, Mo, Fe, Hg, LOI, U, Cd, Sb	- all samples
W, Ba	- Whitesail sheet only
V, F, Au	- Smithers sheet only
W, Ba, Sn	- Smithers sheet, stream sediments only
U, F, pH	- Water samples

The data are available in hard copy at 1:250 000 scale and consist of a mineral inventory map, sample location map, symbol and value map for each element and a text of field analytical and statistical data. The geology is shown on all element maps. G.S.C. Open File 708 (Woodsworth, 1980) was used for the geology of the Whitesail Lake area and G.S.C. Open File 351 (Tipper, 1976) was used for the geology of the Smithers area. The data are also available on floppy diskettes separated into files corresponding to 1:250 000 NTS map sheets (Matysek, 1987).

GEOLOGICAL SETTING

The Whitesail Lake and Smithers areas are, for the most part, within the Intermontane Belt, although the Coast plutonic complex underlies the southwestern corner of the Whitesail map area (Figure B37). The Coast plutonic complex consists of metamorphased pre-Lower Jurassic volcanic and sedimentary rocks of the Gamsby Group and granitic intrusions of Paleozoic (?) to Tertiary age.

In the survey area, the Intermontane Belt is composed of a succession of volcanic and sedimentary rocks cut by plutonic rocks of Triassic to Tertiary age. The stratigraphic succession, consists of: Late Triassic Takla Group, Early to Middle Jurassic Hazelton Group, Late Jurassic Bowser Lake Group, Cretaceous Skeena and Sustut groups, Early Cretaceous Kasalka Group, and Tertiary Ootsa Lake, Endako and Chilcotin groups. The two oldest groups formed in volcanic island arcs. The sedimentary rocks of the Bowser Lake, Skeena and Sustut groups were deposited within successor basins. The Kasalka Group volcanic succession erupted in a continental margin setting. Widespread Tertiary flows erupted in a continental setting.

These stratified rocks have been intruded by Upper Triassic to Lower Jurassic Topley intrusions, Cretaceous Bulkley intrusions, the Tertiary Coast plutonic complex and Eocene Babine and Nanika intrusions. The plutonic rocks are typically quartz monzonite, granodiorite or quartz diorite.

There are numerous mineral occurrences within the study area; virtually all of them in the Intermontaine Belt. The principal deposit types are porphyry copper and molybdenum deposits, mesothermal and epithermal precious metal veins, massive sulphide occurrences and coal seams.

DATA ANALYSIS

In this study 898 and 849 stream sediment analyses are examined from the Whitesail Lake and Smithers areas respectively. Multi-element anomalies and their possible sources are determined from these samples.

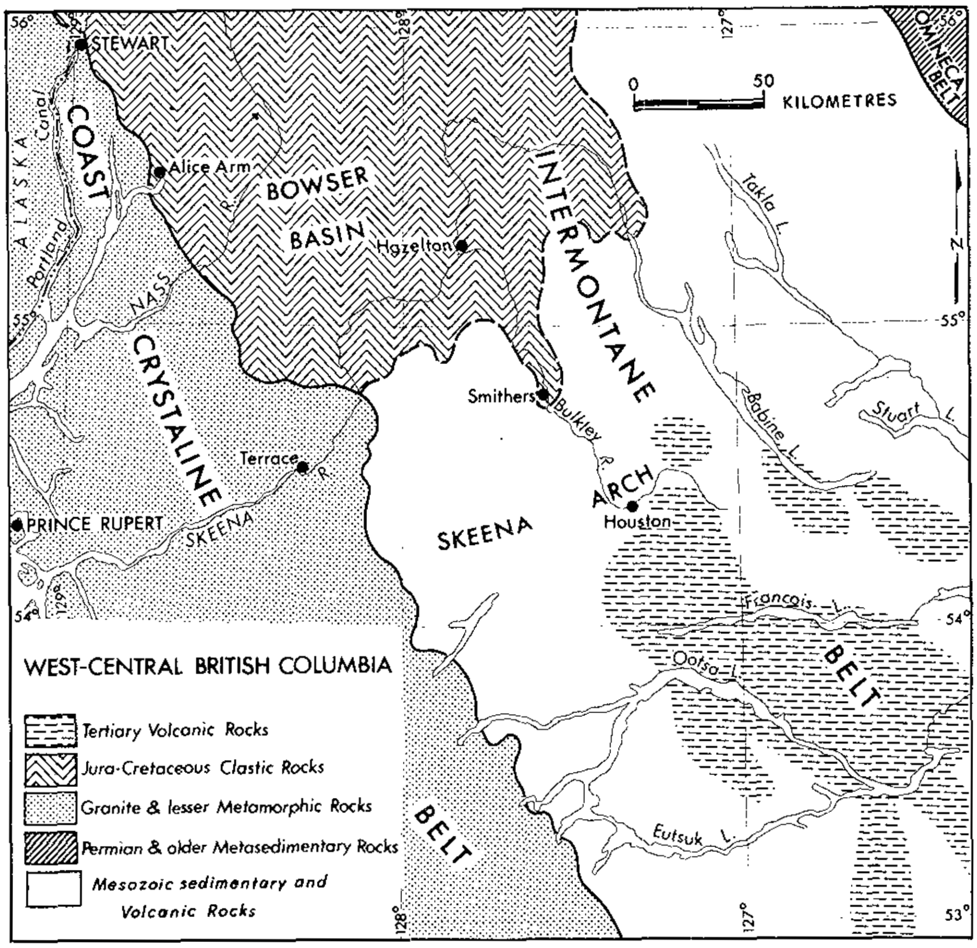


Figure B37. Generalized tectonic map, west-central British Columbia (from Carter, 1981).

The importance of the dominant lithology underlying the drainage basin of the stream from which the sediment sample was collected is also examined.

Given the relatively good access into the study area, contamination of the stream sediments by various human activities such as mining, farming and logging is to be expected. The possibility of contamination was noted at the time of sample collection for 272 samples on the Smithers sheet. Only 60 samples on the Whitesail Lake sheet were taken from possibly contaminated streams.

Two samples in the Smithers area are identified by the authors as probably reflecting contamination by man's activities. High lead, zinc, silver and other metal values in Aldrich Lake (867157) on the west side of Hudson Bay Mountain are due to the leakage of tailings from the Duthie mine. Sample 861109 contained high copper and gold values along the west shore of Babine Lake north of Granisle. This may be due to contamination from trucks carrying copper-gold concentrate from Bell mine to Topley. High antimony, copper and tungsten values in the Mount Dubose area on the Whitesail Lake sheet may have been caused by contamination from an aqueduct. A comparison of average values from the entire sample population with those from probably contaminated samples reveals little variation. Contamination is assumed to be of relatively minor importance in this study.

ANOMALOUS AREAS

For this study anomalous stream sediment values are defined as those exceeding the 90th percentile, except for the elements silver, molybdenum, tungsten and tin (Table B13). Higher anomalous thresholds were chosen for these elements because background values are close to, or below, the analytical detection limits. A more sophisticated analysis of the data would involve determination of threshold values for each rock type, but this was not done in this study. However, varying geochemical signatures of different lithological suites are discussed later in this paper, under "Lithological and Stratigraphic Variation".

TABLE B13
ANOMALY THRESHOLDS

		Whitesail	Smithers			Whitesail	Smithers
Ag	ppm	0.2(93.1%)*	0.4(93.3%)	Mn	ppm	1401	1401
As	ppm	15	13.1	Mo	ppm	4(91.6%)	2(4)
Au	ppb	-	11	Ni	ppm	22	29
Ba	ppm	1081	1051	Pb	ppm	17	17
Cd	ppm	0.3	0.6	Sb	ppm	0.9	1.9
Co	ppm	16	16	Sn	ppm	-	6(94.6%)
Cu	ppm	53	49	U	ppm	5.3	3.0
F	ppm	-	321	V	ppm	-	73
Hg	ppb	61	81	W	ppm	3(91.5%)	3(96.8%)
Iron	%	5.01	3.90	Zn	ppm	136	140

*Threshold shown in parentheses when above the 90th percentile.

Using these thresholds two types of anomalies can be defined - single sample and multiple sample anomalies. Single-sample anomalies are common and are extremely important to explorationists because the low RGS sample density often results in only one sample being collected in the drainage basin containing a particular mineral occurrence. The true significance of many spot anomalies can only be determined by further geochemical sampling and prospecting. Although less common than single-sample anomalies, multiple sample anomalies may also indicate undiscovered mineral occurrences and help to define metallogenic patterns. Multiple sample anomalies are emphasized in this study.

The multiple sample anomalies, which may cover areas of tens of square kilometres, are typically very coherent, with no internal non-anomalous values. Gold is the exception to this generalization which probably reflects its low concentrations and the relatively small sample size. Frequently the anomaly pattern for one element is nearly coincident with that of one or more other elements. These coherent multiple element and multiple sample anomalies often define prospective areas.

The results of this study suggest the best indicators for mineralization are gold, silver, copper, lead, zinc, cadmium, antimony, tin, tungsten and uranium. The broadest anomalies are defined by arsenic, silver and copper while gold, cadmium, tin, tungsten and uranium anomalies are less widely dispersed. Cadmium may be one of the more useful pathfinders as it is generally anomalous in areas containing known mineralized occurrences and background values are generally similar for all rock types. Barium is not very useful in defining areas of mineralization as it generally appears to reflect the underlying lithology, although single-sample anomalies may be significant. Mercury and manganese anomalies are not easily related to known mineralization and mercury typically shows poor correlation with other anomalous elements.

WHITESAIL LAKE (93E)

The majority of the geochemical anomalies in the Whitesail Lake area, as defined by this study, are immediately east of the eastern margin of the Coast Complex, in areas with small plugs intruding Jurassic Hazelton Group rocks. Relatively few anomalies occur within the Coast Complex. The selection of threshold values on a regional basis may have resulted in the masking of subtle anomalies within the Coast Complex, where background values are lower than in the adjacent volcano-sedimentary terrain, and in the eastern half of the map where there are abundant out-croppings of Cretaceous and Tertiary volcanic and intrusive rocks.

Twenty-two anomalous areas are identified in the Whitesail Lake area (Table B14, Figure B38). All six of the major porphyry copper-molybdenum deposits have associated anomalies. North of Sibola Peak, Anomaly 8 is probably related to the Bergette deposit. The strongest anomaly (10) on the sheet is in the Tahtsa Lake - Tahtsa Reach area. It is associated with numerous mineral occurrences including the Whiting Creek and Huckleberry porphyry copper-molybdenum deposits. Immediately to the south, another strong anomaly (11) includes the Ox Lake porphyry copper deposit. Within Tweedsmuir Park a multi-element anomaly centered on Red Bird Mountain is related to the Red Bird porphyry molybdenum deposit. Several single-sample anomalies occur in creeks draining the area of the Berg deposit.

Multi-element anomalies coincide with areas of known mineral occurrences south of Troitsa Lake (13), east of Little Whitesail Lake (17) and Mount Prestone (20). Further exploration is warranted in these areas.

Although few anomalous values occur within the Coast Complex, three linear anomalies for base metals and silver are found at Sandifer Lake (12), the Tochquoyalla Ranges (15) and Kimsquit Lake (22). Only one Minfile occurrence is associated with each anomaly. Further exploration of these areas should be considered.

TABLE B14

MAJOR GEOCHEMICAL ANOMALIES IN THE WHITESAIL LAKE (93E) AREA, 1986 RGS SURVEY

#	AREA	ELEMENTS	ASSOC.	COMMENTS
1	NW of Morice Lake	Pb, Zn, Ba, Cd	4	Spot anomaly is downstream from the New Moon Ag-Pb-Zn showing.
2	East shore of Morice Lake	Cu, Mo, Pb, Zn, Cd	2	Spot anomaly occurs at the southern tip of a granitic plug of *the Upper Triassic - Lower Jurassic Topley intrusions.*
3	Kidprice Lake/ Bergland River	Ag,As,Sb,Hg,Cu,Mo, Pb,Zn,Ba,Cd,Mn,W	2	The Berg deposit of 238 mt at 0.31% Cu and 2.8 g/t Ag falls within the southeastern portion of this anomaly. North end of the anomaly is downstream from area staked immediately after the release.
4	Hill-Tout Lake	Ag,Cu,Zn,Cd,W	2?	Anomaly occurs just west of a small plug of the Upper Cretaceous Bulkley Intrusions.
5	Nadina Lake	As,Sb,Cu,Pb,Zn,Ba, Mn	3	Strong multi-element anomaly with no apparent lithologic control that occurs in a topographically low area.
6	Shelford Hills	Ag,Hg,Mo,Pb,Zn, Cd, Mn	4	Large area with not all elements coincidently anomalous. Ag content up to 1.1 ppm.
7	Rhine Ridge	Ag,As,Cu,Pb,Zn,Mo W,Cd	2	Strong anomaly parallel to the Kidprice Lake (3) zone. Ag up to 1.4 ppm.
8	North of Sibola Peak	Ag,Cu,Pb,Zn,Ba, Cd,W	4?	Anomaly is located 5-10 km downstream from the Bergette Cu-Mo, showing which has no sampling in the immediate area.
9	Mt.Wells area			Possible lithologic control from underlying Upper Cretaceous Bulkley Intrusions and Eocene Endako Group and Goosly Lake volcanics.
10	Tahtsa Lake/ Tahtsa Reach	Ag,As,Sb,Hg,Cu,Mo, Pb,Zn,Cd,Mn,W	2,3	The following deposits lie within the anomalous zone: Emerald Glacier - 40.8 kt @ 9% Zn, 8% Pb, 355 g/t Ag Whiting Creek - 40 mt @ .17% Cu, .1% MoS_2 Huckleberry - 77 mt @ .4% Cu, .025% MoS_2 Upstream of the west end of the anomaly was staked the day after release.
11	South of Tahtsa	As,Sb,Hg,Pb,Zn,	3,4	The Ox Lake deposit of 27.2 Mt at 0.3% Cu and .01% MoS_2 falls within the anomalous zone.

Table B14 continued

#	AREA	ELEMENTS	ASSOC.	COMMENTS
12	Sandifer Lake	Ag,Cu,Pb,Zn,Cd,W,	4	Strong anomaly which occurs along the eastern boundary of the Coast plutonic complex.
13	South of Troitsa Lake	Ag,As,Sb,Cu,Mo, Pb,Zn,Cd,Mn,W	2,3	Very strong anomaly centered about a small plug of the Upper Cretaceous Bulkley Intrusions. Also centered about the Fab properties (Mineral Inventory #41-44) with Cu-Mo-Pb-Zn showings
14	Fenton Lake-Morgan Lake area	Ag,Pb,Zn,Cd,Mn	4	Highly anomalous zone of samples along the lakes in an area surrounded by much younger intrusive and volcanic rocks.
15	Tochquonyalla Ranges	Ag,Cu,Mo,Pb,Zn, Cd,Mn,W	2	Strong anomaly which occurs just within the Coast plutonic complex.
16	Mt. Dubose	Sb,Cu,W	-	Linear anomaly located well within the Coast plutonic complex that may be the result of contamination related to an above ground acqueduct.
17	Little Whitesail Lake	Ag,As,Hg,Cu,Mo, Pb,Zn,Ba,Mn,W	2	Area east of Core Mountain staked the day of the release. Anomalous zone is east of the Coast plutonic complex boundary.
18	Goosefoot Lake	Mo,Zn,Mn	4	The anomaly is located in an area surrounded by younger intrusions and volcanic rocks.
19	Red Bird Mountain	Ag,As,Sb,Hg,Cu,3, Pb,Zn,Mn,W,	4	The Redbird deposit of 90.7 mt at 0.14% MoS_2 lies within this anomalous zone.
20	Mt. Prestone	Sb,Cu,Mo,Zn,Cd	2	Very strong area of anomalies located west of, and downstream *from, an isolated cluster of Mineral Inventory occurrences* numbered 76-82 related to Cu-Ag showings centered around Mt. Prestone.
21	Wahla Mountain	Hg,Mo,W,Mn	2	Strong Mo anomaly associated with a small isolated plug of the Upper Cretaceous Bulkley intrusions.
22	Kimsquit Lake	Ag,Cu,Mo,Pb,Zn, Cd,Mn,W	2,4	Very strong anomaly located along Kimsquit Lake and well within the Coast plutonic complex. The anomaly may be associated with a well-exposed cliff-face gossan in the area.

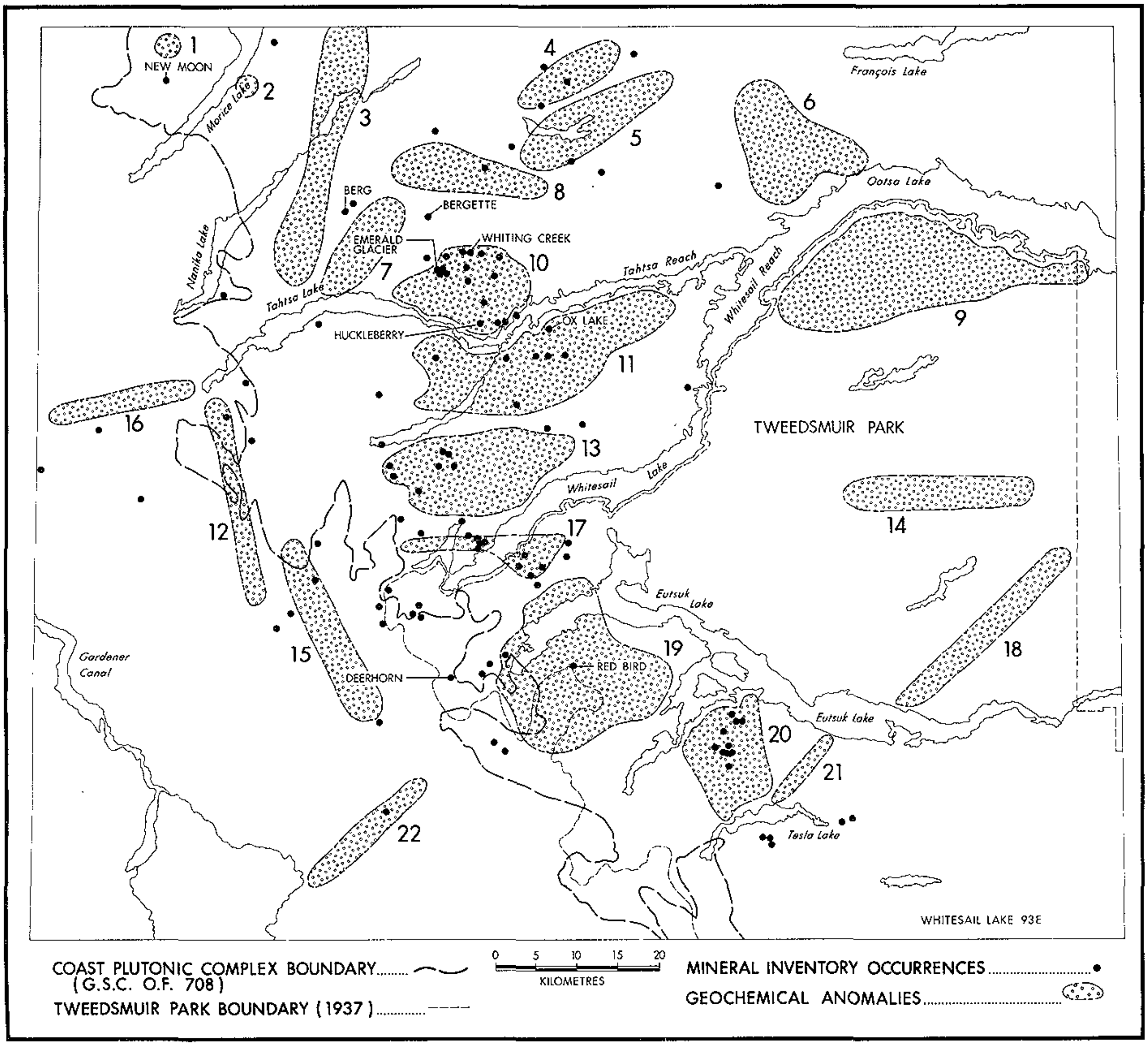


Figure B38. Anomalous areas, Whitesail Lake map sheet.

Multi-sample barium anomalies including the Mount Wells anomaly (9) appear to correlate with the exposures of Tertiary volcanic rocks and Cretaceous Bulkley intrusions. Single-sample barium anomalies occur in several places on the Whitesail Lake sheet and may warrant further evaluation.

Anomalies in the Shelford Hills (6), Fenton Lake (14) and Goosefoot Lake (18) areas are not directly associated with Minfile mineral occurrences although there is a copper-molybdenum showing, the Rip, southwest of the Shelford Hills anomaly. Further exploration should be considered in this area. The other two anomalies are within the boundaries of Tweedsmuir Park and cannot be staked or explored.

Table B15 continued

#	AREA	ELEMENTS	ASSOC.	COMMENTS
13	Grouse Mountain	Ag,Cu,Zn,Pb,Mo,Cd	2,4	Numerous base metals plus Ag mineral occurrences including Grouse Mountain and Hidden Treasure.
14	Matzentzel Mountain	Mo,Cd,Ag	2?	Broad Mo anomaly associated with Jurassic Topley intrusions. Linear Ag and Cd anomaly trends outward towards Golden Eagle and Topley Richfield deposits.
15	Pillar Peak	Cu,Sn	-	Linear anomaly encompasses scattered Cu+Ag occurrences.
16	Gosnell Creek	Cu,Sn,V	-	Linear anomaly trends towards known Cu occurrences to the south
17	Atna Lake	Au,Pb,Cd,U,Sn	4?	Correlates with spot anomaly #1 on Whitesail Lake sheet.
18	Chisolm Lake	Hg	-	Linear anomaly coincident in part with fault.
19	Owen Lake	Ag,Zn,Pb,Mo,Cd,Mn,U	4,1	NW-trending anomaly which includes Silver Queen Mine. (893.4kt @ 3.09 g Au/t, 263.0 g Ag/t, 0.75% Cu, 1.5% Pb, 6.83% Zn)
20	Goosly Lake	Au,Sb,Cu,V	3	Small anomaly probably related to mineral occurrences on north shore of Goosly Lake and possibly Equity Silver mine. Only Au anomaly encompasses Equity Silver.
21	Klo Creek	Ba,F	-	Large anomaly which reflects higher background Ba and F values in Tertiary volcanic rocks.
22	Maxan Creek	U	-	Related to unconformity between Goosly Lake volcanics (Ootsa Lake Group) and Buck Creek volcanics (Endako Group).
23	Allin Creek	Hg,Cd	-	Coincident with westerly trending fault in area of recent exploration activity.

TABLE B15.

MAJOR GEOCHEMICAL ANOMALIES IN THE SMITHERS (93L) AREA, 1986 RGS SURVEY

#	AREA	ELEMENTS	ASSOC.	COMMENTS
1	Northwest Map Corner	As,Sb,Hg,Pb	3	Scattered Cu-Mo and Ag-Pb mineral occurrences in Cretaceous Skeena Group.
2	Hankin Lake	Mn,U	-	Related to Late Cretaceous granodioritic intrusions.
3	Trout Creek	Au,Sb,U	-	Related to Late Cretaceous granodioritic intrusions.
4	Hudson Bay Mountain	Au,Ag,As,Pb,Zn, Mo,Cd,W	2,3	Numerous mineral occurrences include Glacier Gulch Mo deposit (30 mt @ 0.26% MoS_2, 0.06% WO_3) and Duthie Mine (Ag-Pb-Zn)
5	Dome Mountain-Mount Cronin	Au,Ag,As,Sb,Hg,Zn, Pb,Mo,Cd,U,F	2,3	Numerous mineral occurrences include Dome Mountain, Ascot and Cronin vein systems and Big Onion Cu-Mo porphyry deposit.
6	Blackberry Creek	Ba,Cu,Mo,W,U	1	Related to Jurassic Topley intrusion with scattered mineral occurrences. Large bog-iron deposit on Limonite Creek coincides with southern part of anomaly.
7	Hazelton Mountains	Au	5	Scattered mineral occurrences of porphyry and vein style showing
8	Howson Basin	Ba,Sb,Zn,Pb,Mn, Cd,F	4	Numerous base metal occurrences with associated silver.
9	Denys Creek	Sn	-	An area of coal occurrences.
10	Houston Tommy-Cabinet Creeks	Au,Ag,Sb,As,Ba,Cu, Pb,Zn,Mo,Mn,Cd,W,V	2,3,4	Large anomaly with most known mineral occurrences near north end More than 70% of immediate post-release staking was on southern half of anomaly.
11	Knapper Creek	Cd	-	No known mineral occurrences.
12	Bob Creek	Au,Ag,Sb,As,Zn,Pb, CD,F	3,4	Spot anomaly with highest gold value (5400 ppb) on Smithers sheet. Downstream from Gold Brick Au-Ag-Zn occurrence.

SMITHERS (93L)

Anomalies are found in all areas on the Smithers sheet. Most are underlain by Early to Middle Jurassic Hazelton Group sedimentary and volcanic rocks or by Jurassic to Late Cretaceous granitic intrusions. Within the area underlain by Tertiary volcanic rocks, the younger Endako Group lithologies do not appear to be related to significant geochemical anomalies.

Twenty-three geochemical anomalies have been identified on the Smithers sheet (Table B15, Figure B39). Major multi-element anomalies are found at Hudson Bay Mountain, Grouse Mountain, Howson Basin, Bob Creek, Owen Lake and in the Babine Range (Dome Mountain to Mount Cronin) - all areas of known mineralization.

Figure B39. Anomalous areas, Smithers map sheet.

A large multi-element anomaly (10) extending from Houston Tommy Creek to Cabinet Creek generated the most interest following the 1987 RGS data release because there were six stream sediment samples strongly anomalous in gold in an unclaimed area. The southern portion of this anomaly has several copper ± molybdenum ± silver ± zinc occurrences but no previously reported gold showings.

Another multi-element anomaly (6) in the area of Blackberry and Limonite creeks is associated with a Jurassic Topley intrusion. There are two copper-molybdenum showings and one manganese mineral occurrence in the area. A bog-iron deposit coincides with the southern part of the anomaly. Further exploration for porphyry copper and precious metal deposits in this area appears warranted. Anomaly 6 is within a broader gold anomaly that covers much of the Hazelton Mountains on the Smithers sheet. This is another area that should be prospected.

South of Topley Landing on Babine Lake is a large molybdenum anomaly (14) with scattered high copper values, associated with the Jurassic Topley intrusions. There are several small showings in this area including the Tachi and Totem prospects. Although the area would appear prospective for porphyry deposits, Carter (1981) states that "the Topley intrusions of the Skeena Arch area are not known to contain significant economic mineral deposits". High silver and cadmium values define an elongate zone which trends from the molybdenum anomaly towards the Golden Eagle and Topley Richfield silver-lead-zinc vein deposits. Similar vein deposits may possibly be found peripheral to Topley intrusions by looking for a cadmium-silver geochemical signature in silts.

In the Atna Lake area (17) anomalous values for gold, lead, cadmium and tin cannot be correlated to known Minfile mineral occurrences although there are copper showings to the northeast. The New Moon silver-gold-lead-zinc showings are located to the south, on the Whitesail Lake sheet where there is an RGS anomaly (1).

Smaller anomalies in Hankin Lake (2), Trout Creek (3), Denys Creek (9), Knapper Creek (11) and Maxan Creek (22) are not associated with Minfile showings. Both the Trout Creek and Knapper Creek anomalies have precious metal geochemical signatures which warrant further investigation.

ANOMALOUS MULTI-ELEMENT ASSOCIATIONS

The stream sediment data exhibit some positive correlations greater than 0.5 between various elements (Tables B16 and B17).

These positive correlations are:

Whitesail Lake:	Mo-Cu, Mo-Ag, Cu-Ag, As-Sb, As-Pb, As-Zn, Zn-Pb, Zn-Cd, Pb-Ag, Pb-Cd, Co-Ni, Co-Fe
Smithers:	Sb-Pb, Sb-Cd, Zn-Pb, Zn-Cd, Pb-Ag,Pb-Cd, Ag-Cd, Ag-Sb, Co-Fe

TABLE B16. CORRELATION MATRIX FOR WHITESAIL LAKE STREAM SEDIMENT SAMPLES

897 Samples

	As	Cd	Co	Cu	Hg	Fe	Mn	Mo	Ni	Pb	Sb	U	W	Zn
Ag	0.316	0.487	0.178	**0.604**	0.107	0.169	0.101	**0.524**	0.082	**0.624**	0.253	0.019	0.188	0.443
As		0.377	0.340	0.200	0.333	0.277	0.368	0.129	0.137	**0.592**	**0.570**	-0.090	0.047	**0.572**
Cd			0.356	0.363	0.179	0.193	0.232	0.323	0.161	**0.519**	0.227	0.042	0.155	**0.732**
Co				0.404	0.212	**0.574**	0.373	0.111	**0.520**	0.286	0.258	-0.160	0.106	0.456
Cu					0.030	0.234	0.069	**0.747**	0.145	0.370	0.169	-0.025	0.239	0.388
Hg						0.129	0.341	0.057	0.049	0.222	0.307	0.051	0.004	0.251
Fe							0.304	0.209	0.255	0.261	0.215	-0.042	0.266	0.354
Mn								0.079	0.104	0.308	0.181	-0.034	-0.005	0.481
Mo									0.018	0.358	0.115	0.217	0.381	0.299
Ni										0.103	0.015	-0.098	0.021	0.244
Pb											0.445	0.059	0.247	**0.687**
Sb												-0.063	0.040	0.333
U													0.223	-0.026
W														0.170

TABLE B17. CORRELATION MATRIX FOR SMITHERS STREAM SEDIMENT SAMPLES

847 Samples

	As	Cd	Co	Cu	Hg	Fe	Mn	Mo	Ni	Pb	Sb	U	Zn	Au
Ag	0.330	**0.500**	0.094	0.043	0.069	0.113	0.063	0.003	0.119	**0.703**	**0.647**	0.071	0.445	0.404
As		0.316	0.251	0.139	0.208	0.332	0.223	0.078	0.137	0.365	0.497	-0.031	0.423	0.365
Cd			0.253	0.166	0.090	0.170	0.292	0.020	0.127	**0.686**	**0.539**	0.114	**0.748**	0.117
Co				0.415	0.106	**0.619**	0.334	0.056	0.478	0.110	0.179	-0.004	0.411	0.009
Cu					-0.008	0.168	0.078	**0.217**	0.063	0.057	0.091	-0.100	0.213	0.007
Hg						0.265	0.158	-0.026	0.169	0.062	0.238	0.104	0.152	0.020
Fe							0.378	0.027	0.365	0.137	0.216	-0.091	0.376	0.021
Mn								-0.013	0.117	0.077	0.073	-0.031	0.424	-0.005
Mo									-0.054	0.000	0.027	0.096	0.005	0.000
Ni										0.074	0.122	0.026	0.177	0.019
Pb											**0.811**	0.045	**0.617**	0.127
Sb												0.053	0.496	0.123
U													0.006	0.029
W														0.166

Element associations commonly reflect elements found together in the same source mineral, rock or mineral occurrence.

It is possible to identify multi-element associations for the element values that exceed the threshold values defined in Table B13. These anomalous multi-element associations could be related to mineral occurrences as indicated in Table B18 below.

TABLE B18. MULTI-ELEMENT ASSOCIATIONS FOR ANOMALOUS ELEMENTS

Assoc. Elements		Number of Samples Whitesail Lake	Smithers	Deposit Type
1.	U, Mo, W	88	79	Porphyry
2.	Mo, Cu, W, Pb, Zn, Cd, As, Sb	53	28	Porphyry
3.	As, Sb, Pb, Zn, Au, Mn	76	68	Vein (Epithermal?)
4.	Zn, Pb, Mn, Cu, Au	41	53	Vein (Mesothermal?)
5.	Au	-	45	Vein

For this study the associations are defined by using the element unique to the association to determine the sample population. Within this population significant numbers of samples with anomalous values for other elements defined the complete multi-element suite. For example, uranium is unique to Association 1 and roughly a quarter of the samples contain anomalous molybdenum and tungsten. Other associations are defined in the same manner and exclude the samples previously selected.

These multi-element associations are not usually explicit in the anomaly patterns because more than one deposit type often occurs in adjacent drainage basins. For example, lead-zinc veins are common peripheral to porphyry copper-molybdenum deposits. Therefore, anomaly patterns frequently consist of elements from two multi-element associations.

Surprisingly, many anomalous gold values in the Smithers area do not correspond with anomalous values for other elements. Anomalous silver values occur with all multi-element associations but do not show a strong correlation with any single one. This partially reflects the difficulty of separating background from anomalous values for silver because the detection limit is close to the background values.

The positive correlation between cobalt-nickel and cobalt-iron noted above corresponds to marginally anomalous samples in the multi-element analysis. This relationship reflects both lithologic controls and hydromorphic processes.

LITHOLOGICAL AND STRATIGRAPHIC VARIATION

All samples are coded to identify the dominant lithology and stratigraphic unit at the sample site. These codes enable manipulation of the data sets to determine statistics for each map unit. In this study mean concentrations and standard deviations for all generalized lithologies and stratigraphic units are listed in Tables B19, B20 and B21. A complete evaluation of the data set would require a more sophisticated approach.

The stratigraphic units have been discussed above. The generalized lithologies are:

intrusive (INT.)	- diorite, quartz diorite, gabbro, quartz monzonite, granodiorite, quartz monzodiorite, monzodiorite, syenodiorite, granite syenomonzonite.
volcanic (VOLC.)	- basalt, andesite, dacite and rhyolite flows, breccias and pyroclastic rocks; minor sediments.
metamorphic (META.)	- granitoid gneiss, migmatite, amphibolite, schist, marble, tuff, volcanogenic sandstone
carbonate (CARB.)	- limestone
sedimentary (SED.)	- shale, quartzose sandstone, graywacke, conglomerate, siltstone, coal, tuff, flows
till (TILL)	- till

Cadmium, cobalt, vanadium and tungsten are four elements that have similar mean concentrations in virtually all generalized lithologies. Cadmium values are higher for the four limestone samples on the Smithers sheet. Tungsten values are generally higher on the Smithers sheet, but only the intrusive rocks of the Whitesail Lake area differ from the other samples from the same map sheet. This reflects higher tungsten values in the Cretaceous and Tertiary intrusions (Table B20).

The stream sediment samples from drainage basins underlain by metamorphic rocks of the Coast Complex have lower mean concentrations of almost all elements than any other generalized lithology on either map sheet. Ten stream samples from areas of Takla Group rocks in the Smithers area contain very high copper and high mercury values.

The most metallogenetically significant rocks in the study area are, however, the Jurassic Hazelton and Bowser Lake rocks. Both groups are associated with stream sediments containing high concentrations of silver, gold, lead and zinc. Copper, manganese and tin are also high in areas underlain by Hazelton Group rocks while arsenic and antimony are anomalous in the sediments associated with Bowser Lake Group rocks. In the Whitesail Lake area higher molybdenum occurs in sediments derived from the Hazelton Group and intrusive rocks.

TABLE B19. MEAN CONCENTRATION AND STANDARD DEVIATION OF EACH ELEMENT FOR GENERALIZED ROCK TYPE

(a) WHITESAIL LAKE MAP SHEET

	INTRUSIVES		VOLCANICS		SEDIMENTS		METAMORPHICS		TILL		MAP SHEET	
N	269		330		46		109		143		898	
	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Ag*	0.12	0.13	0.13	0.17	0.10	0.05	0.10	0.04	0.11	0.10	0.12	0.13
As	2.73	4.72	9.83	20.1	14.7	17.5	1.66	1.91	6.01	7.78	6.35	13.8
Ba	720	308	749	324	802	231	640	288	742	226	723	302
Cd	0.16	0.41	0.20	0.40	0.16	0.13	0.12	0.10	0.13	0.15	0.16	0.34
Co	8.20	4.52	10.4	9.52	9.58	4.20	9.08	4.80	8.82	3.49	9.24	6.72
Cu	35.4	61.0	40.9	98.4	32.9	27.8	33.4	18.1	19.7	16.6	34.4	68.8
Hg ppb	28.6	22.6	43.7	30.4	34.7	21.1	24.8	12.9	39.8	21.9	35.6	25.6
Fe%	3.42	1.77	3.72	1.44	3.69	1.09	3.30	1.45	3.38	1.08	3.49	1.50
Mn	587	396	1050	809	839	389	477	220	1025	885	820	689
Mo	2.2	3.4	2.2	4.7	1.5	1.3	1.5	1.1	1.7	2.1	2.0	3.5
Ni	10.5	6.99	13.0	9.30	16.6	14.5	11.3	7.00	13.6	8.57	12.3	8.75
Pb	6.15	8.98	10.7	12.5	11.4	10.4	2.89	5.86	7.03	9.33	7.84	10.5
Sb	0.24	0.43	0.63	1.04	0.75	1.63	0.11	0.06	0.67	2.15	0.46	1.16
U	3.84	3.40	2.65	3.05	2.48	1.11	2.99	2.21	2.70	1.28	3.04	2.82
W	2.18	4.35	1.31	1.05	1.30	0.92	1.43	1.20	1.16	1.03	1.56	2.55
Zn	66.0	56.3	106.1	73.8	99.3	42.6	53.7	25.5	84.6	41.1	83.4	61.1

* values in ppm unless otherwise noted

(b) SMITHERS MAP SHEET

	INTRUSIVES		VOLCANICS		SEDIMENTS		CARBONATES		TILL		MAP SHEET	
N	98		489		146		4		112		849	
	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Ag	0.15	0.14	0.15	0.18	0.16	0.30	0.1	0	0.15	0.10	0.15	0.20
As	5.4	6.6	7.0	8.8	10.4	9.57	8.0	3.9	5.9	3.8	7.2	8.3
Au ppb	8.4	23.9	18.0	245	8.7	53.1	1.8	1.3	3.3	6.2	13.6	185
Ba	771	291	812	280	713	175	637	257	754	190	774	264
Cd	0.26	0.75	0.23	0.50	0.25	0.59	0.32	0.24	0.20	0.23	0.23	0.52
Co	9.19	4.86	10.5	3.88	10.7	3.46	7.25	1.29	9.43	3.60	10.1	3.97
Cu	31.6	22.4	34.3	72.7	27.6	20.3	28.5	8.2	24.3	27.4	31.8	57.6
F	251	77.1	242	110	213	63.7	171	20.1	206	63.8	230.8	96.8
Hg ppb	36.3	29.2	40.9	49.2	61.6	52.5	50.0	30.0	54.9	31.4	45.6	46.1
Fe%	2.75	0.86	2.98	0.65	3.34	0.66	2.75	1.07	2.99	0.83	2.98	0.77
Mn	678	623	926	722	730	623	3006	3796	896	838	871	777
Mo	1.2	1.0	1.23	3.16	1.14	0.89	1	0	1.1	0.38	1.2	2.4
Ni	12.2	6.6	17.5	9.60	22.0	10.6	10	3.1	18.6	5.78	17.6	9.4
Pb	9.2	6.2	11.4	24.9	12.1	17.7	6.3	3.7	9.0	3.6	10.9	20.2
Sb	0.66	0.74	0.80	1.48	1.19	1.72	0.52	0.42	0.59	0.52	0.82	1.36
Sn	2.54	1.38	2.88	1.60	2.65	1.46	2.25	0.82	2.16	1.38	2.67	1.54
U	2.56	2.15	1.79	0.99	2.01	0.78	1.57	0.29	2.07	1.21	1.95	1.20
V	49.0	21.5	53.9	18.7	45.3	12.7	42.2	15.1	45.0	16.5	50.1	18.5
W	1.73	1.71	1.75	2.52	1.70	1.79	1.25	0.43	1.63	0.53	1.71	2.12
Zn	87.7	60.4	102.0	59.8	97.3	68.3	60.5	20.1	102.0	59.8	96.1	58.3

TABLE B21. MEAN CONCENTRATION AND STANDARD DEVIATION FOR EACH ELEMENT ACCORDING TO MAP UNIT

SMITHERS MAP SHEET

	ENDAKO GROUP VOLCANICS		COTSA LAKE GROUP VOLCANICS		SUSTUT GROUP SEDIMENTS		SKEENA GROUP SEDIMENTS		BOWSER LAKE GROUP SEDIMENTS	
N	68		44		9		112		25	
	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Ag*	0.15	0.10	0.15	0.11	0.12	0.06	0.12	0.08	0.32	0.69
As	4.7	1.9	5.2	2.7	6.6	3.4	9.5	7.91	15.8	14.5
Au ppb	3.5	8.0	4.6	17.7	1.2	0.41	5.3	20.5	26.6	119
Ba	999	309	942	225	748	60.7	720	189	670	125
Cd	0.15	0.15	0.20	0.18	0.17	0.18	0.25	0.66	0.26	0.30
Co	9.91	2.74	8.97	3.04	9.66	1.94	10.8	3.78	10.8	2.05
Cu	18.9	6.46	16.1	6.0	21.4	3.0	28.5	22.7	25.8	9.05
F	259	75	250	95	176	29	216	68.1	213	45.9
Hg ppb	39.1	16.7	52.8	42.8	60.0	64.5	62.4	56.0	59.0	22.4
Iron%	2.86	0.53	2.71	0.64	2.95	0.41	3.32	0.70	3.56	0.43
Mn	816	1128	818	862	580	171	709	577	883	857
Mo	1.0	0.24	1.0	0	1.0	0	1.1	0.87	1.3	1.1
Ni	24.4	9.3	18.0	9.1	17.3	2.4	23.3	11.5	17.6	6.0
Pb	7.8	2.9	10.3	6.7	7.9	4.8	10.7	6.89	20.0	39.3
Sb	0.35	0.26	0.58	0.55	0.70	0.69	1.03	0.94	2.11	3.49
Sn	2.35	1.39	1.63	0.80	3.66	1.05	2.58	1.49	2.56	1.32
U	2.17	0.91	2.40	0.62	1.58	0.52	2.04	0.83	2.00	0.58
V	54.7	15.3	44.6	11.0	48.5	9.31	44.4	13.0	48.6	11.3
W	1.69	0.46	1.50	0.50	1.22	0.41	1.76	1.92	1.60	1.46
Zn	79.2	29.5	84.8	27.5	84.8	14.4	95.2	75.7	111.2	35.5

	HAZELTON GROUP VOLCANICS		TAKLA GROUP VOLCANICS		GOOSLY LAKE, BABINE AND NANIKA INTRUSIONS		COAST PLUTONIC COMPLEX		BULKLEY INTRUSIONS		TOPLEY INTRUSIONS	
N	367		10		19		5		39		35	
	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Ag*	0.15	0.20	0.15	0.06	0.23	0.25	0.1	0	0.12	0.09	0.14	0.09
As	7.81	9.93	5.3	1.61	2.57	2.03	2.60	2.33	8.64	9.09	3.68	2.33
Au ppb	22.6	283	6.6	12.8	13.2	33.5	1.4	0.48	6.5	16.9	8.97	25.5
Ba	765	263	689	104	868	277	714	102	821	368	671	156
Cd	0.25	0.57	0.11	0.03	0.20	0.24	0.1	0	0.37	1.17	0.19	0.15
Co	10.9	4.10	9.6	2.90	7.47	4.05	8.4	5.1	9.38	3.46	10.0	6.14
Cu	36.1	58.4	152.4	339.5	30.0	19.0	24.4	15.7	29.8	14.6	35.4	30.9
F	240	118	169	31.7	268	91.5	309	54.6	251	76.7	235	64.9
Hg ppb	39.2	54.0	63.0	15.1	25.0	27.2	16.0	19.7	47.6	31.4	32.8	24.3
Iron%	3.03	0.67	3.13	0.14	2.22	0.65	2.25	1.05	3.00	0.86	2.84	0.77
Mn	960	595	908	602	484	375	346	232	878	869	608	274
Mo	1.3	3.6	1.4	1.2	1.1	0.22	1.0	0	1.3	0.97	1.4	1.3
Ni	16.2	9.3	17.8	2.67	10.9	7.61	12.6	7.73	12.8	7.44	12.1	4.25
Pb	12.3	28.6	9.2	1.46	8.2	6.8	4.8	3.2	11.5	7.02	7.85	3.84
Sb	0.92	1.67	0.45	0.16	0.33	0.37	0.10	0	1.18	0.88	0.35	0.30
Sn	3.12	1.64	2.9	0.94	1.73	0.78	1.6	1.20	2.76	1.54	2.85	1.24
U	1.65	1.01	1.86	0.35	2.85	1.25	3.08	1.03	2.06	0.90	2.88	3.25
V	54.9	19.8	50.8	11.4	45.5	16.1	44.2	17.0	46.8	13.9	54.0	29.3
W	1.78	2.90	2.0	0.0	1.78	2.21	1.40	0.48	1.51	1.75	2	1.39
Zn	108.7	65.8	84.9	10.7	74.2	46.5	52.2	31.3	107.5	81.1	78.1	27.5

TABLE B20. MEAN CONCENTRATION AND STANDARD DEVIATION FOR EACH ELEMENT ACCORDING TO MAP UNIT

WHITESAIL LAKE MAP SHEET

	ENDAKO GROUP VOLCANICS		CHILCOTIN GROUP VOLCANICS		COTSA LAKE AND KASALKA GROUP VOLCANICS		SKEENA AND GAMBIER GROUPS		ASHMAN FORMATION SEDIMENTS	
N	20		15		131		32		14	
	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Ag*	0.10	0.00	0.10	0.02	0.12	0.14	0.10	0.00	0.12	0.10
As	4.2	3.99	2.60	2.52	7.90	9.95	11.2	16.1	22.7	17.9
Ba	1016	160	708	228	811	230	833	263	730	99.4
Cd	0.10	0.00	0.10	0.0	0.23	0.53	0.13	0.08	0.25	0.19
Co	7.6	2.98	12.1	5.70	9.06	5.74	9.40	4.68	10.0	2.77
Cu	18.0	7.2	17.5	10.7	24.7	21.7	34.1	32.1	30.0	13.0
Hg ppb	61.5	38.2	32.0	11.0	45.8	28.5	31.2	19.4	42.8	22.4
Fe%	2.83	0.77	3.71	1.09	3.45	1.01	3.70	1.27	3.67	0.47
Mn	950	507	635	196	1131	1068	714	326	1124	370
Mo	1.3	0.43	1.3	0.44	1.71	1.76	1.5	1.5	1.4	0.72
Ni	12.9	4.57	31.4	18.3	12.0	8.81	18.4	17.0	12.5	3.24
Pb	6.2	2.9	4.4	1.62	10.1	9.22	9.12	6.27	16.7	15.0
Sb	0.44	0.54	0.2	0.10	0.47	0.45	0.42	0.50	1.52	2.70
U	3.19	0.74	4.06	1.55	3.13	4.58	2.67	1.26	2.05	0.40
W	1.1	0.3	1.0	0	1.25	0.85	1.34	1.04	1.21	0.55
Zn	77.0	23.7	82.7	25.7	110.2	90.2	84.8	28.3	132.4	50.5

	HAZELTON GROUP VOLCANICS		GOOSLY LAKE AND QUANCHUS INTRUSIONS		KASALKA AND BULKLEY INTRUSIONS		MESOZOIC AND CENOZOIC INTRUSIONS		TOPLEY INTRUSIONS		PALEOZOIC(?) INTRUSIONS	
N	164		82		37		122		8		20	
	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Ag*	0.15	0.21	0.14	0.16	0.16	0.20	0.10	0.05	0.12	0.06	0.1	0.0
As	12.7	26.7	2.46	2.58	7.81	10.3	1.57	1.38	2.37	0.93	1.75	1.47
Ba	670	378	832	402	663	100	697	261	838	229	464.0	164
Cd	0.20	0.31	0.16	0.19	0.19	0.28	0.15	0.57	0.18	0.18	0.11	0.03
Co	11.8	12.1	6.52	4.27	9.51	4.06	7.95	4.09	10.7	3.51	13.2	4.24
Cu	58.9	135.8	35.7	94.9	44.5	35.9	30.9	39.8	49.6	37.0	39.4	9.84
Hg ppb	41.0	30.9	33.9	34.4	36.2	20.6	24.5	10.6	22.5	9.12	20.5	8.04
Fe%	4.04	1.71	3.26	1.81	4.10	2.58	3.19	1.36	3.50	0.57	4.18	1.62
Mn	1035	583	717	591	677	214	474	234	731	292	522	222
Mo	2.75	6.42	2.6	3.6	3.4	4.9	1.8	2.8	1.62	1.04	1.05	0.21
Ni	12.2	6.78	8.97	7.90	11.8	5.73	10.1	6.32	9.62	3.55	16.6	6.31
Pb	12.3	15.3	7.4	8.4	12.0	15.3	3.72	5.66	11.1	6.8	2.9	2.5
Sb	0.82	1.38	0.20	0.20	0.64	0.99	0.16	0.12	0.31	0.17	0.13	0.06
U	2.07	0.91	5.93	4.79	3.55	2.43	2.93	1.75	2.92	2.46	1.75	1.01
W	1.41	1.26	2.75	6.02	4.02	6.25	1.48	1.80	1.0	0	1.15	0.47
Zn	108.6	64.1	71.5	47.1	94.9	73.6	53.8	55.1	99.4	49.5	50.7	18.3

* values in ppm unless otherwise noted

Stream sediments from drainage basins underlain by Cretaceous and Tertiary volcanic rocks have low gold and copper, and high barium mean concentrations. Sediments related to the Ootsa Lake Group have high uranium values while those derived from the Chilcotin Group have high nickel, cobalt and uranium and low lead concentrations. In the Whitesail Lake area the sediments overlying the Endako Group have high mercury values.

Higher mean concentrations of fluorine and uranium and lower values of arsenic, mercury, manganese and antimony compared to the other generalized rock types are common for the intrusive rocks. Intrusions of different ages display appreciable variation. The Paleozoic (?) diorite intrusions contain higher concentrations of nickel and iron and lower concentrations of virtually all the other elements. Sediments derived from the Topley intrusions and the Mesozoic/Cenozoic granodiorites in the Whitesail Lake area are similar in composition to the average analysis for sediments associated with all intrusive rocks. The Cretaceous Kasalka and Bulkley intrusions contain high values of arsenic, mercury, lead, antimony and zinc. In the Whitesail Lake area the highest mean concentrations for molybdenum are associated with Kasalka and Bulkley intrusions in the Whitesail Lake area.

The mean concentrations of the elements for the two map sheets are similar (Table B19). The principal differences are higher iron, molybdenum, tin, uranium and tungsten, and lower mercury, nickel, lead and antimony values for the Whitesail Lake samples. The similarities undoubtedly reflect the large proportion of both map areas underlain by the same lithologies.

Mean concentration values for 18 953 stream sediment analyses from British Columbia have been published by Johnson (1984). A comparison of the Whitesail Lake and Smithers samples to these values emphasizes the similarities between these two areas compared to the variation shown throughout the province (Figure B40). It should be noted that samples from different map sheets have been analysed at a number of laboratories, sometimes with different techiques. Therefore, any comparison of map sheets is limited to broad generalizations. Both map sheets have unusually low uranium values and higher than average manganese, copper and zinc mean concentrations. The Smithers sheet has surprisingly low mean concentrations of molybdenum compared to the rest of the province.

CONCLUSIONS

Numerous single and multiple sample RGS anomalies occur in the Whitesail Lake and Smithers areas. A total of 45 anomalous areas are identified in this study. Many of them are related to known mineralized areas such as Hudson Bay Mountain, Skeena Mountains, Howson Basin, Cabinet Creek area, Bob Creek, Grouse Mountain, Owen Lake area, Sibola Peak, Tahtsa Lake, Tahtsa Reach, Red Bird Mountain and Mount Prestone. Others such as Trout Creek, Houston Tommy Creek, Knapper and Shelford Hills require further investigation to explain their source.

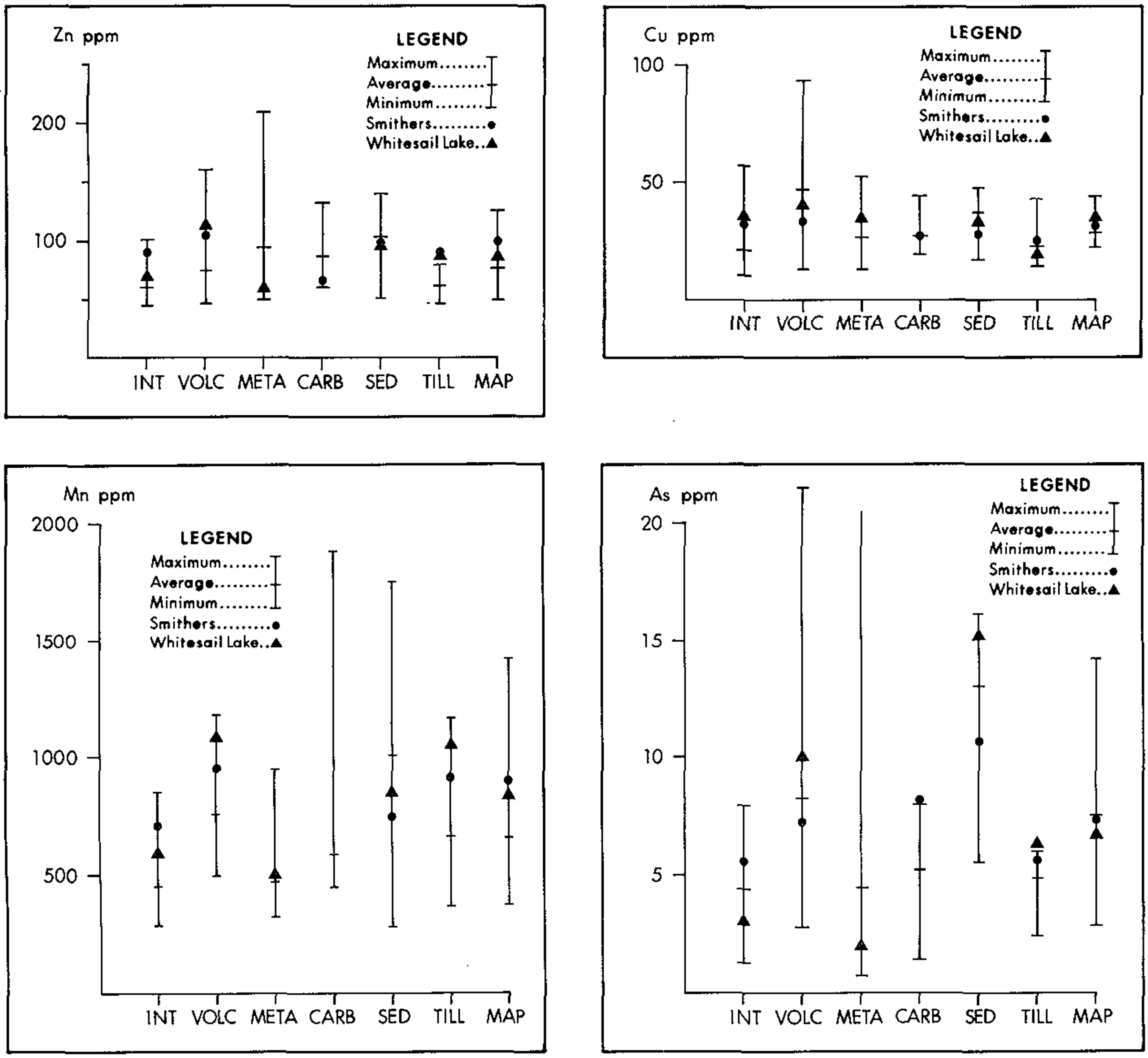
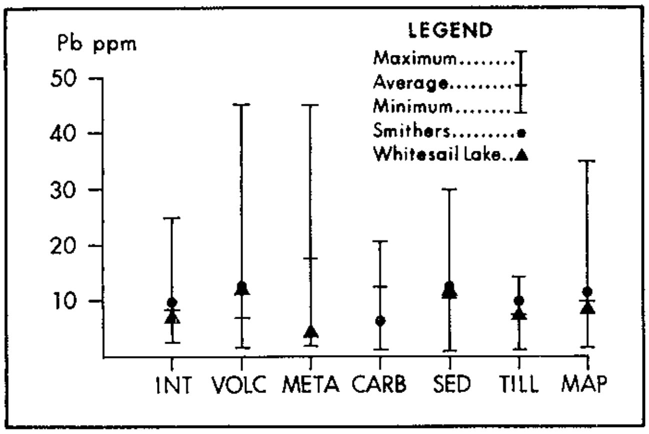
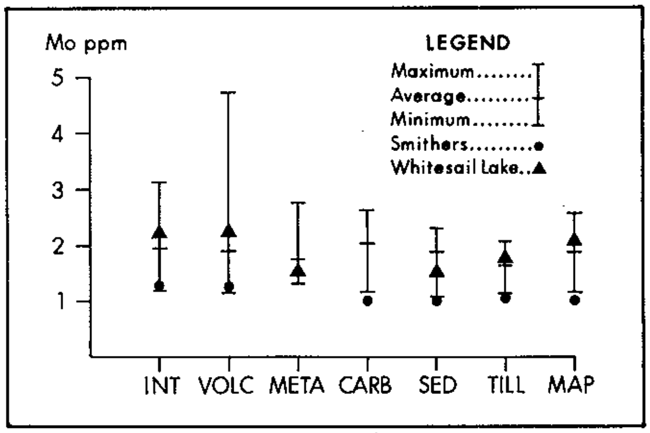
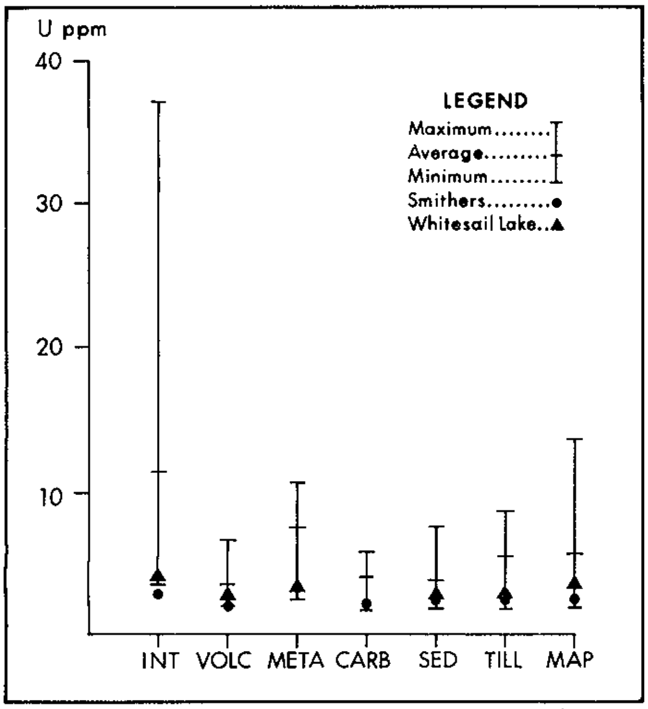
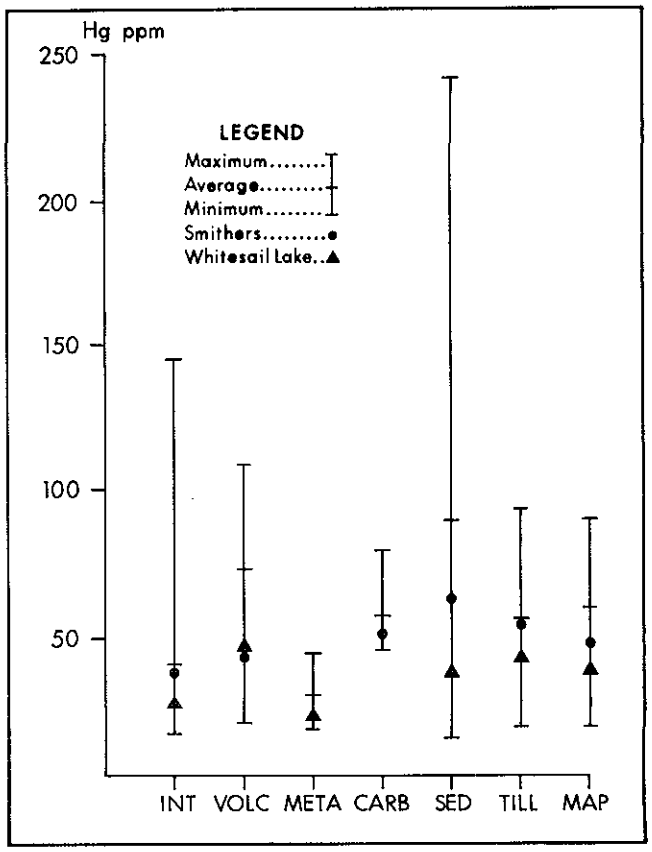


Figure B40. Diagrams display mean concentrations for selected elements for entire 1:250 000 National Topographic System map sheets for RGS stream sediment samples. Map sheet averages for different lithologies, as well as the entire sheet, are represented by the different columns. The bars on the vertical lines show the maximum, average and minimum map sheet mean concentrations for 17 sheets from throughout British Columbia (Johnson, 1984). Johnson's data are compared to map sheet mean concentrations for the more recently sampled Whitesail Lake (X) and Smithers (dots) areas. Codes for lithologies are explained in the text.


Pb ppm
LEGEND
Maximum
Average
Minimum
Smithers
Whitesail Lake
50
40
30
20
10
INT VOLC META CARB SED TILL MAP


Mo ppm
LEGEND
Maximum
Average
Minimum
Smithers
Whitesail Lake
5
4
3
2
1
INT VOLC META CARB SED TILL MAP


U ppm
40
30
20
10
LEGEND
Maximum
Average
Minimum
Smithers
Whitesail Lake
INT VOLC META CARB SED TILL MAP


Hg ppm
250
200
150
100
50
LEGEND
Maximum
Average
Minimum
Smithers
Whitesail Lake
INT VOLC META CARB SED TILL MAP

Many of the anomalous areas are characterized by five anomalous multi-element associations: U-Mo-W, Mo-Co-W, As-Sb-Pb-Zn, Zn-Pb-Mn and Au. These associations are believed to reflect the porphyry and vein deposits which are common throughout the study area.

The best indicator elements fo mineralization in the Smithers and Whitesail Lake areas are gold, silver, copper, lead, zinc, cadmium, antimony, tin, tungsten and uranium. Cadmium, less often used as a pathfinder, targets many mineral occurrences and mean concentrations are generally the same for sediments associated with all rock types.

Stream sediments derived from different lithologies exhibit varying mean concentrations and standard deviations. These values are presented in several tables in this study and should be used to identify more subtle anomalies that are not apparent if thresholds are calculated for the entire RGS map sheet sample population, as in this study.

ACKNOWLEDGMENTS

We wish to acknowledge the assistance of Paul Matysek *who* provided the computer data files and valuable advice on multi-element associations. John Gravel, Stephen Day, Paul Matysek and John Newell read the paper and their suggestions were most helpful.

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Carter, N.C. (1981): Porphyry Copper and Molybdenum Deposits West-Central British Columbia, *B.C. Ministry of Energy, Mines and Petroleum Resources*, Bulletin 64.

Johnson, W.M. (1984): British Columbia Geochemical Reconnaissance Survey Data Summary, *B.C. Ministry of Energy, Mines and Petroleum Resources*, Paper 1984-1, pages 185-210.

Matysek, P.F. (1986): A New Look for Regional Geochemical Survey Data, *B.C. Ministry of Energy, Mines and Petroleum Resources,* Geological Fieldwork 1986, Paper 1987-1, pages 397-394.

Tipper, H.W. (1976): Geology of Smithers, B.C. (NTS Map Area 93L) *Geological Survey of Canada*, Open File 351.

Woodsworth, G.J. (1980): Geology of Whitesail Lake (NTS Map Area 93E), *Geological Survey of Canada*, Open File 708.

PART C

MINERALS AND COAL EXPLORATION

PART C

MINERALS AND COAL EXPLORATION

TABLE OF CONTENTS

FIGURE

PREFACE

The following outline of the organization of Part C will assist the user in understanding the material it contains.

SOURCES OF INFORMATION

Assessment reports on geology, geophysics, geochemistry, drilling, and prospecting submitted by the mineral exploration and development industry are the primary sources of detailed technical data. Ministry staff geologists prepare reports on mineralized areas, deposits, and mines which may be extracted from this volume.

The data are believed to be reliable as far as the many individual sources and interpretations permit. Entries have been proofread, but do not conform to normal Geological Survey Branch editorial standards for publications.

The 1987 edition of *Exploration in British Columbia* includes assessment reports submitted up to December 31, 1987. Any assessment reports submitted after this date will appear in the 1988 edition.

ORGANIZATION

The property descriptions that form the body of Part C are presented in two sections: minerals and coal.

The minerals section has been computer-sorted. Initially properties are grouped in ascending order of 1:250 000 scale NTS map sheets (for example, 82E) and further subdivided by 1:50 000 east and west half-sheets (for example, 82E/2E).

Each page of text for the property descriptions represents two pages of computer printout, which have been reduced to save space and costs.

The coal property descriptions are grouped by coalfield and assigned a sequential number (C1-C7). The minerals and coal sections have separate indices of property names, operators and authors,with the page number as the location key.

A computer-plotted index map (back pocket) at a scale of 1:2 000 000 shows the location of exploration projects as described in the assessment reports. The map legend relates NTS areas, assessment report numbers, page numbers in text and property names. In congested areas on the index map assessment work locations only are shown without report numbers. The coal assessment reports are indicated by sequential item number.

Appreciation is due to Laura deGroot and Kim Passmore for the completion of data input and generation of the index map.

Explanations of the various components of each property description follow:

NAME

Most often the name given to a property is that used in the Mineral Inventory--MINFILE. This is often the name by which the property was originally known (for example, Glacier Gulch, Magnum). If there is no Mineral Inventory name associated with the project described in the assessment report, a claim name is used as the property name.

ASSESSMENT REPORT

The number listed is assigned to the report when it is accepted under the *Mineral Act* and Mineral Act Regulations.

INFORMATION CLASS

The reports are classified on a relative scale as to information value. "Info Class" values range from 1, the highest, to 4, the lowest.

LOCATION

The latitude and longitude given is either the centre of the property or the area where most of the work was done. Mining Division and NTS designations are keyed to the location of the main showing(s) or the majority of the claims. In cases where claims are located on more than one NTS sheet, up to four NTS designations are given.

CLAIMS

Up to 15 claim names may be listed on which work has been performed.

OPERATOR

The individual or the company that completed and paid for the work is listed. A company name may be followed by abbreviations:

ASSOC. (ASSOCIATES or ASSOCIATION)	INV. (INVESTMENTS)
CAN. (CANADIAN or CANADA)	FIN. (FINANCIAL)
CONS. (CONSOLIDATED)	MANUF. (MANUFACTURING)
CONSTRU (CONSTRUCTION)	MIN. (MINING/MINERALS)
CONSUL. (CONSULTANT)	MINES (IN FULL)
DEV. (DEVELOPMENT)	PARTN. (PARTNERSHIP)
ENG. (ENGINEERING)	PETR. (PETROLEUM)
ENT. [ENTERPRISE(S)]	PROS. (PROSPECTING)
EX. [EXPLORATION(S)]	RES. (RESOURCES)
IND. (INDUSTRY or INDUSTRIES)	SYND. (SYNDICATE)
INF. (INFORMATIONAL)	VENTURES (IN FULL)
INT. (INTERNATIONAL)	

CO., LTD., CORP., AND INC. are omitted.

AUTHOR

The authorship (up to two persons) of the assessment report that forms the basis of the property description is listed.

COMMODITIES

The commodities named are those associated with the Mineral Invelntory--MINFILE property name. When a claim name is used as a substitute property name, commodities are not listed.

DESCRIPTION

A capsule geological description of the property may include lithology, age, structure, mineralization, and alteration.

WORK DONE

A brief summary of the type and amount of exploration work reported is listed. The following examples illustrate the abbreviations and codes used:

DIAD 355M;3 HOLES,NQ	Surface diamond drilling totalling 355 metres in holes of NQ size
SOIL 250;CU,AG	250 soil samples analysed for copper and silver
MULTIELEMENT	Samples analysed for more than 6 elements
GEOL/PROS 1:5000	Indicates scale/detail of geological/prospecting mapping
KM	Total linear kilometres

REFERENCES

Only related MINFILE and assessment report references describing work done on or near the claims are listed in this volume. Mineral Inventory--MINFILE names and numbers are listed where they occur on the claims worked and described in the report. Data sources are coded as:

A.R.	Assessment Report
M.I.	Mineral Inventory

WORK TYPE CODES

TYPE OF WORK	CODE
GEOLOGY	
Geological mapping	GEOL
Photo interpretation	FOTO
GEOPHYSICS	
Geophysics, general	GEOP
Dip needle	DIPN
Magnetometer, ground	MAGG
Magnetometer, airborne	MAGA
Electromagnetic, ground	EMGR
Electromagnetic, airborne	EMAB
Induced polarization	IPOL
Self potential	SPOT
Seismic	SEIS
Gravity	GRAV
Resistivity (alone)	REST
Mise-a-la-masse	MALM
Radiometric, ground	RADG
Radiometric, airborne	RADA
Scintillometer, ground	SCGR
Scintillometer, airborne	SCAB
Gamma ray spectrometer, ground	GRSG
Gamma ray spectrometer, airborne	GRSA
Radiometric drill hole probing	RADP
Radon gas scintillometry	RGAS
Airborne infra-red	INFR
Radar	RADR
GEOCHEMISTRY	
Soil	SOIL
Stream sediment	*SILT*
Heavy minerals	HMIN
Rock chip	ROCK
Water	HYDG
Overburden drilling	OBDR
Biogeochemistry	BIOG
Fission track etch	ETCH

TYPE OF WORK	CODE
DRILLING	
Diamond	DIAD
Percussion	PERD
Rotary	ROTD
Becker hammer	BHDR
Overburden, <u>see</u> Geochemistry	
Underground	UNDD
Churn	CHUD
PROSPECTING	
Prospecting	PROS
RELATED TECHNICAL	
Sampling and assaying	SAMP
Petrography	PETR
Mineralography	MNGR
Metallurgy	META
PREPARATORY	
Linecutting or grid establishment	LINE
Topographic mapping	TOPO
Underground surveying	USUR
PHYSICAL	
Trenching	TREN
Small pits	PITS
Stripping	STRI
Road work	ROAD
Underground development	UNDV
Land surveying	LSUR
Reclamation	*RECL*
Trail	TRAL

DETAILED DATA

Detailed property and technical data are described in the assessment reports which are confidential for a period of one year from the date of affidavit. The confidentiality period may be extended up to three years for regional surveys, and up to five years for drill-core assays upon request. All non-confidential assessment reports may be viewed at the Geological Survey Branch in Victoria, Senior Regional Geologist's office in Vancouver, and District Geologists' offices.in Smithers, Prince George, Kamloops and Nelson. Locally, partial sets of non-confidential assessment reports on microfiche are also available for viewing at most Gold Commissioners' offices. Photocopies of the reports may be obtained from:

Geological Survey Branch
Mineral Resources Division
Ministry of Energy, Mines and Petroleum Resources
Room 121, 525 Superior Street
Victoria, BC
V8V 1X4

Telephone: 356-2278

Microfiche copies and photocopies may be obtained from:

Victoria Microfilm Company Ltd.
538 Culduthel Road
Victoria, BC
V8Z 1G1

Telephone: 381-4222

MINERALS EXPLORATION

**** ****

MINING DIV: Greenwood ASSESSMENT REPORT 99999 INFO CLASS 1
LOCATION: LAT. 49 06 00 LONG. 128 37 00 NTS:
CLAIMS: Laura 2
OPERATOR:
AUTHOR: Kikichin, T.
DESCRIPTION:
REFERENCES:

**** Basic ****

MINING DIV: Trail Creek ASSESSMENT REPORT 15448 INFO CLASS 3
LOCATION: LAT. 49 00 36 LONG. 118 01 30 NTS:
CLAIMS: Basic
OPERATOR: Lacana Min.
AUTHOR: Johnston, R.
DESCRIPTION: The claim is underlain by a serpentinized ultramafic plug within Middle Jurassic Elise Formation andesites near the southern edge of the Tertiary Coryell Batholith.
Soil geochemistry returned low gold, platinum and palladium values.
WORK DONE: SOIL 193;multielement
ROCK 9;multielement
REFERENCES:

**** Castle ****

MINING DIV: Greenwood ASSESSMENT REPORT 15627 INFO CLASS 3
LOCATION: LAT. 49 01 00 LONG. 118 09 00 NTS:
CLAIMS: Castle 1-4
OPERATOR: Nitro Res.
AUTHOR: Di Spirito, F.; Graham, J.C.
DESCRIPTION: A serpentinized ultramafic body about 1.5 kilometres in diameter intrudes greenstone and metasediments of the Jurassic Rossland Group. The ultramafic itself is intruded by granodiorite/diorite of the Cretaceous Nelson Batholith Pods of chromite mineralization occur in the ultramafic body.
WORK DONE: EMAB 245.0 km;VLF
MAGA 245.0 km
REFERENCES:

**** Castle ****

MINING DIV: *** ASSESSMENT REPORT 16358 INFO CLASS 2
LOCATION: LAT. 49 02 00 LONG. 118 09 30 NTS:
CLAIMS: Candy 1-12,Castle 1-4
OPERATOR: Nitro Res.
AUTHOR: Graham, J.C.
DESCRIPTION: The Castle and Candy claims area is underlain by Jurassic Rossland Group volcanics and sediments which enclose the tectonically emplaced Castle Mountain ultramafic body.
WORK DONE: MAGG 30.0 km
SPOT 43.0 km

GEOL 1:5000
LINE 70.0 km
ROCK 77;multielement
MAGA 245.1 km
MNGR 5
SOIL 620;multielement
REFERENCES:

**** Bonanza Fr. ****

MINING DIV: Greenwood ASSESSMENT REPORT 15436 INFO CLASS 2
LOCATION: LAT. 49 08 48 LONG. 118 26 30 NTS:
CLAIMS: Bonanza,Neta,Ruby,Sting
OPERATOR: American Girl Res.
AUTHOR: Sookochoff, L.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: The claims are underlain by Permian-Carboniferous Anarchist Group rocks, Triassic rocks and Tertiary intrusives in fault contact with the Precambrian Grand Forks Group. Discontinuous silver-lead-zinc-gold mineralization in pyritic quartz veins occur in vertical northwesterly trending structures.
Soil geochemistry identified anomalous multielement values.
WORK DONE: SOIL 1154;multielement
EMGR 25.5 km;VLF
REFERENCES: A.R. 11538
M.I. O82ESE170-BONANZA FR.

**** Hek,Lucky John ****

MINING DIV: *** ASSESSMENT REPORT 15554 INFO CLASS 3
LOCATION: LAT. 49 11 30 LONG. 118 37 54 NTS:
CLAIMS: Hek
OPERATOR: Cons. Boundary Ex.
AUTHOR: Sookochoff, L.
COMMODITIES: Copper,Gold
DESCRIPTION: The claims are underlain by Permian Anarchist Group volcanics and sediments enveloped by Paleocene Coryell Intrusions and Phoenix volcanics. Mineralization consisting of pyrite, pyrrhotite and chalcopyrite is hosted by Anarchist Group rocks and occurs within a west-northwest trending quartz filled shear zone.
Drilling resulted in the intersection of a zone of gold bearing massive sulphides.
WORK DONE: DIAD 783.0 m;9 holes,BQ
SAMP 73;multielement
REFERENCES: A.R. O6130,O8883
M.I. O82ESE072-LUCKY JOHN:O82ESE179-HEK

**** Hek,Lucky John ****

MINING DIV: Greenwood ASSESSMENT REPORT 16066 INFO CLASS 3
LOCATION: LAT. 49 11 36 LONG. 118 28 00 NTS:
CLAIMS: Hek
OPERATOR: Cons. Boundary Ex.
AUTHOR: Sookochoff, L.
COMMODITIES: Copper,Gold

DESCRIPTION: Geological mapping on the claims has recognized three major rock units: Permian (?) Anarchist Group metavolcanics and metasediments; Tertiary Coryell Intrusions, primarily syenite; and Phoenix volcanics consisting of andesite and trachyte.
WORK DONE: DIAD 783.0 m;9 holes,BQ
SAMP 82;multielement
REFERENCES: A.R. 06130,08883,15554
M.I. 082ESE072-LUCKY JOHN;082ESE179-HEK

**** Mono ****

MINING DIV: *** ASSESSMENT REPORT 16123 INFO CLASS 4
LOCATION: LAT. 49 10 06 LONG. 118 28 00 NTS:
CLAIMS: Mono (L.2205)
OPERATOR: Flanagan, F.
AUTHOR: Lucke, J.
COMMODITIES: Gold,Silver
DESCRIPTION: The claim is underlain by metasediments and volcanics variously intruded by granitic rocks. Mineralization consists of (1) metamorphosed limestone containing magnetite and sulphides and (2) a number of quartz veins containing sulphides. The former appear to occur in no specific pattern but are scattered randomly over the property and the latter strike in a northerly direction.
WORK DONE: ROCK 6;Au
PROS 1:2000,1:500
MAGG 1.5 km
LINE 1.5 km
REFERENCES: A.R. 13685
M.I. 082ESE076-MONO

**** Sara ****

MINING DIV: Greenwood ASSESSMENT REPORT 16214 INFO CLASS 4
LOCATION: LAT. 49 13 36 LONG. 118 30 18 NTS:
CLAIMS: Sara
OPERATOR: Noranda Ex.
AUTHOR: Fyles, J.
DESCRIPTION: The area is within a swarm of Tertiary dykes. Rocks older than the dyke swarm include metamorphosed cherts and greenstones of the upper part of the Knob Hill Group which are cut by granodiorite probably belonging to the Cretaceous-Jurassic Nelson Intrusions, both of which are intruded by coarse-grained syenite along the southern margin of the Tertiary Coryell Batholith.
WORK DONE: GEOL 1:10 000
REFERENCES:

**** Beau ****

MINING DIV: *** ASSESSMENT REPORT 16177 INFO CLASS 4
LOCATION: LAT. 49 01 36 LONG. 118 39 12 NTS:
CLAIMS: Beau 1
OPERATOR: Kucherhan, J.
AUTHOR: Kregosky, R.
DESCRIPTION: The Beau claims are underlain by Permian Anarchist Group rocks. These rocks have been intruded by ultramafic/serpentine bodies.

Mineralization and quartz veins are frequently found in shear zones associated with these serpentine intrusives.
WORK DONE: SOIL 60;Au,Ag
REFERENCES:

**** Combination (L.1458) ****

MINING DIV: Greenwood ASSESSMENT REPORT 15538 INFO CLASS 4
LOCATION: LAT. 49 07 24 LONG. 118 40 12 NTS:
CLAIMS: Combination
OPERATOR: Kleman, T.
AUTHOR: Taylor, R.
COMMODITIES: Silver,Lead
DESCRIPTION: The claim is underlain by granodiorite and mica schists. Quartz veins occur in the granodiorite.
WORK DONE: ROCK 1;Au,Ag
PROS 1:4000
REFERENCES: M.I. 082ESE185-COMBINATION

**** Crown ****

MINING DIV: *** ASSESSMENT REPORT 15596 INFO CLASS 4
LOCATION: LAT. 49 05 06 LONG. 118 36 18 NTS:
CLAIMS: Crown 5-9,Crown 17-19,Mikra,Nellie Cotton
OPERATOR: Noranda Ex.
AUTHOR: Gill, G.
DESCRIPTION: The claims are mainly underlain to the north by cherts and greenstones of the Carboniferous-Permian Knob Hill Group with the Sharpstone member of the Triassic Brooklyn Formation lying unconformably above the latter. The southern portion of the claims are underlain by pre-Carboniferous quartz-chlorite-biotite-muscovite schists and argillites of the Permian-Carboniferous Attwood Formation. The structural trend is approximately 130 to 160 degrees and dips moderately-steeply to the north and east.
WORK DONE: GEOL 1:2500
LINE 14.7 km
ROCK 29;multielement
REFERENCES:

**** Eagle ****

MINING DIV: Greenwood ASSESSMENT REPORT 15641 INFO CLASS 3
LOCATION: LAT. 49 03 30 LONG. 118 31 00 NTS:
CLAIMS: Alpha,Connection,Cressant,Eagle,Homestake-Eagle,Myrtle Fr. The Layover,RB 5
OPERATOR: Noranda Ex.
AUTHOR: Keating, J.
DESCRIPTION: The property is underlain by a package of Permian-Carboniferous sediments unconformably overlain by an overturned sedimentary/volcanic assemblage of Triassic Brooklyn Formation. These rocks have been intruded by Jurassic serpentinites and Eocene diorites and syenites. Small replacement deposits of pyrrhotite, pyrite and minor chalcopyrite occur in Brooklyn limestones and siltstones associated with diorite dykes.
WORK DONE: GEOL 1:2500

REFERENCES: A.R. 15080

**** Golden Crown,Winnipeg ****

MINING DIV: *** ASSESSMENT REPORT 16090 INFO CLASS 3
LOCATION: LAT. 49 04 24 LONG. 118 34 18 NTS:
CLAIMS: Calumet
OPERATOR: Cons. Boundary Ex.
AUTHOR: Kim, H.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: The claims are underlain by Permo-Carboniferous-Triassic metavolcanic and intrusive rocks. The predominant rock types are green-dark green metavolcanics.
WORK DONE: DIAD 420.9 m;7 holes,BQ
SAMP 113;multielement
REFERENCES: A.R. 08482,08851
M.I. 082ESE032-GOLDEN CROWN;082ESE033-WINNIPEG

**** Hamilton ****

MINING DIV: Greenwood ASSESSMENT REPORT 16543 INFO CLASS 4
LOCATION: LAT. 49 11 18 LONG. 118 40 48 NTS:
CLAIMS: Hamilton,Mundy
OPERATOR: Nahirny, T.
AUTHOR: Nahirny, T.
COMMODITIES: Silver
DESCRIPTION: The claims appear to be underlain by volcanics, sediments and possibly intrusive rocks.
WORK DONE: SOIL 25;THM
TREN 22.0 m;3 trenches
PROS 1:5000
ROCK 6;Au,Ag
REFERENCES: A.R. 13135,15308

**** Lexington,City of Paris ****

MINING DIV: *** ASSESSMENT REPORT 16417 INFO CLASS 2
LOCATION: LAT. 49 00 54 LONG. 118 37 12 NTS:
CLAIMS: Bing,Bruce,City of Vancouver,Cuba,Dandy,Excelsior,Holly 1,Holly 3 Holly 12,Iron King,Lexington,Marie Stewart,New Jack of Spades St. Lawrence
OPERATOR: Can. Pawnee Oil
AUTHOR: Candy, C.; Day, W.C.
COMMODITIES: Gold,Copper,Silver,Lead,Zinc
DESCRIPTION: Disseminated and fracture-controlled copper and gold mineralization occurs at the footwall contact within a dacitic body enclosed by serpentinites. The dacite ranges up to 175 metres in thickness, and trends northwesterly. It dips at between 25 degrees and 30 degrees northeasterly.
WORK DONE: MAGG 44.0 km
EMGR 61.6 km;VLF,PEM
SPOT 44.0 km
DIAD 1039.4 m;9 holes,NQ
SAMP 515;Mo,Cu,Ag,Au
REFERENCES: A.R. 00408,00805,01707,01775,05378,09361,10487,11365

M.I. 082ESE041-LEXINGTON;082ESE042-CITY OF PARIS

**** Rb 1 ****

MINING DIV: Greenwood ASSESSMENT REPORT 15905 INFO CLASS 3
LOCATION: LAT. 49 05 00 LONG. 118 33 00 NTS:
CLAIMS: Pac 57-58,RB 1
OPERATOR: Noranda Ex.
AUTHOR: Bradisn, L.; Keating, J.
DESCRIPTION: Regionally the area is largely underlain by Knob Hill Group (Paleozoic) andesites which are fault-bound to the east by serpentinite of unknown age. Potential for gold mineralization is indicated by anomalous gold values in silt samples (1985) and somewhat coincident VLF electromagnetic/magnetic anomalies sub-parallel to the creek.
WORK DONE: LINE 4.0 km
EMGR 4.0 km;VLF
MAGG 4.0 km
SOIL 332;multielement
REFERENCES:

**** Sappho (Cabin) ****

MINING DIV: *** ASSESSMENT REPORT 16215 INFO CLASS 3
LOCATION: LAT. 49 02 12 LONG. 118 43 06 NTS:
CLAIMS: Ada,Alki,Harold Fr.,Liz
OPERATOR: Noranda Ex.
AUTHOR: Keating, J.
COMMODITIES: Copper,Silver,Platinum
DESCRIPTION: The oldest rocks on the Boundary Creek grid are believed to be Knob Hill Group (Jurassic) andesites, which may in fact be members of the Triassic Brooklyn Formation. These rocks are unconformably overlain by a package of Tertiary volcanics and sediments which have been intruded and/or overlain by a massive dioritic unit.
WORK DONE: ROCK 59;Cu,Pb,Zn,Mo,Ag,Au
GEOL 1:2500
LINE 5.0 km
OBDR 110;multielement
SOIL 198;multielement
REFERENCES: A.R. 03335
M.I. 082ESE147-SAPPHO (CABIN)

**** Sunnyside,Fanny Joe ****

MINING DIV: Greenwood ASSESSMENT REPORT 15892 INFO CLASS 3
LOCATION: LAT. 49 03 00 LONG. 118 37 00 NTS:
CLAIMS: Bev 2,Fanny Joe,Sun,Sunnyside
OPERATOR: Sunnyside Res.
AUTHOR: Sookochoff, L.
COMMODITIES: Gold,Copper,Silver,Lead,Zinc
DESCRIPTION: The property is underlain by Permian Anarchist Group rocks with Cretaceous ultramafic exposures and Triassic sediments. Old workings occur on mineralized quartz veins containing pyrite, pyrrhotite, magnetite, arsenopyrite, galena, sphalerite and chalcopyrite.
WORK DONE: EMGR 19.0 km;VLF

LINE 26.0 km
SOIL 532;multielement
REFERENCES: A.R. 00809
M.I. 082ESE059-FANNY JOE;082ESE060-SUNNYSIDE

**** W2 ****

MINING DIV: *** ASSESSMENT REPORT 15900 INFO CLASS 3
LOCATION: LAT. 49 14 00 LONG. 118 31 00 NTS:
CLAIMS: W 2
OPERATOR: Great Central Mines
AUTHOR: Hopper, H.
DESCRIPTION: The area prospected is underlain by granite, andesite porphyry and quartzite. These rocks are siliceous and pyritic.
WORK DONE: SOIL 125;Ag,Au
ROCK 12;Au,Ag
PROS 1:5000
REFERENCES:

**** Winner ****

MINING DIV: Greenwood ASSESSMENT REPORT 15435 INFO CLASS 3
LOCATION: LAT. 49 04 18 LONG. 118 35 24 NTS:
CLAIMS: Buna Vista,Legal Tender,Ranger,Winner,Wren
OPERATOR: Silver Lady Res.
AUTHOR: Kim, H.
COMMODITIES: Copper,Gold
DESCRIPTION: The claims are underlain by Permo-Carboniferous-Triassic metavolcanics, diorite and a sill-like body of serpentinite. Mineralization consists of gold-bearing quartz veins that occur along multiple, parallel northwest trending structures.
Geophysical survey results identified numerous VLF electromagnetic conductors.
WORK DONE: EMGR 15.0 km;VLF
LINE 15.0 km
REFERENCES: M.I. 082ESE163-WINNER

**** Bee ****

MINING DIV: *** ASSESSMENT REPORT 15607 INFO CLASS 4
LOCATION: LAT. 49 05 00 LONG. 118 58 00 NTS:
CLAIMS: Bee 2-3
OPERATOR: Silver Falls Res.
AUTHOR: Wood, D.
DESCRIPTION: Just north of the property, northwest trending shear zones within Anarchist schist contain silver and gold bearing quartz veins and breccia zones. Magnetometer survey results indicate a north-northeast trending shear zone.
WORK DONE: MAGG 6.4 km
LINE 6.4 km
REFERENCES:

**** Belair ****

MINING DIV: Osoyoos ASSESSMENT REPORT 16172 INFO CLASS 3

LOCATION: LAT. 49 11 12 LONG. 119 13 18 NTS:
CLAIMS: Ray 1-4
OPERATOR: Granges Ex.
AUTHOR: Peto, P.
COMMODITIES: Chromium
DESCRIPTION: The claims cover a northwest trending alpine peridotite dyke, 100 metres by 1 000 metres, which intrudes quartzites and greenschists of the Anarchist Group. Chromite occurs as disseminations or as podiform segregations up to 1.5 metres wide and 30 metres long, parallel to northwest foliation and near vertical shear planes.
WORK DONE: GEOL 1:2500
ROCK 7;Pt
EMGR 10.0 km;VLF
REFERENCES: M.I. 082ESW025-BELAIR

**** Fontenoy ****

MINING DIV: Greenwood ASSESSMENT REPORT 16325 INFO CLASS 2
LOCATION: LAT. 49 07 42 LONG. 119 10 48 NTS:
CLAIMS: Fontenoy,Kettle,Knight Rambler,Last Chance
OPERATOR: Bravo Res.
AUTHOR: Hainsworth, W.
COMMODITIES: Silver
DESCRIPTION: The claims are underlain by siliceous argillites trending northwest with dips to the northeast. Intercalated bands of silicified greenstones were observed within the sediments. Pyrite, sphalerite and galena occur in quartz veins carrying variable precious metal values. Faulting and accompanying shearing were also observed.
WORK DONE: SOIL 1236;Au,Ag,Cu,Zn
REFERENCES: M.I. 082ESW018-FONTENOY

**** Gold Hill ****

MINING DIV: *** ASSESSMENT REPORT 16168 INFO CLASS 3
LOCATION: LAT. 49 06 54 LONG. 119 12 18 NTS:
CLAIMS: Billie,Lou
OPERATOR: Wapiti Ex.
AUTHOR: Peto, P.
COMMODITIES: Gold,Lead,Zinc
DESCRIPTION: East-trending quartz fissure-fillings cut greenstones and quartzites of the Anarchist Group west of Camp McKinney. Veins are up to 1.5 metres wide and carry pyrite, galena, sphalerite and free gold. VLF-electromagnetic conductors coincide with vein structures.
WORK DONE: GEOL 1:2500
MAGG 8.0 km
LINE 14.7 km
ROCK 22;Au
EMGR 13.6 km;VLF
REFERENCES: M.I. 082ESW043-GOLD HILL

**** Ho ****

MINING DIV: Greenwood ASSESSMENT REPORT 15405 INFO CLASS 4

LOCATION: LAT. 49 07 42 LONG. 119 07 18 NTS:
CLAIMS: Ho
OPERATOR: Hook, A.
AUTHOR: Hook, A.; Headey, C.
DESCRIPTION: The claim appears to be underlain by volcanic rocks.
WORK DONE: PROS 1:10 000
REFERENCES:

**** Jolly ****

MINING DIV: *** ASSESSMENT REPORT 16290 INFO CLASS 3
LOCATION: LAT. 49 07 18 LONG. 119 03 24 NTS:
CLAIMS: Jolly IV
OPERATOR: Park Res.
AUTHOR: Sookochoff, L.
DESCRIPTION: The property is underlain by the Permian Anarchist Group consisting of greenstone, argillite and chert. Phyllitic schist, graphitic schist and limestone occur with the northwesterly belt of sediments. A regional north-south fault zone imprints a variable degree of structural patterns on rocks in the area. Silicified black argillite with quartz veinlets hosts anomalous gold values, 51.4 grams per tonne silver and over 1 per cent lead.
WORK DONE: SOIL 137;multielement
REFERENCES:

**** Leona ****

MINING DIV: Greenwood ASSESSMENT REPORT 15918 INFO CLASS 2
LOCATION: LAT. 49 08 06 LONG. 119 01 24 NTS:
CLAIMS: Bev 1-4,David 1-3,Leona,Norm 1-8
OPERATOR: Monte Carlo Res.
AUTHOR: Mark, D.
DESCRIPTION: The property is underlain by metasedimentary and metavolcanic rocks of the Permian Anarchist Group. Minor intrusions belonging to the Cretaceous Valhalla plutonic rocks occur as well as some Tertiary dykes. Mineralization is associated with shear zones located in both the metasedimentary (argillite/quartzite) and the metavolcanic (greenstone) rocks. Pyrite, chalcopyrite, galena and sphalerite were observed.
WORK DONE: MAGG 47.6 km
SOIL 1925;Pb,Zn,Ag,Cu,As
EMGR 47.6 km;VLF
REFERENCES: A.R. 12759

**** Lou ****

MINING DIV: *** ASSESSMENT REPORT 15519 INFO CLASS 4
LOCATION: LAT. 49 07 00 LONG. 119 12 18 NTS:
CLAIMS: Billie,Lou
OPERATOR: Craney, J.
AUTHOR: Dupras, A.
DESCRIPTION: East-trending quartz fissure-fillings cut greenstones and quartzites of the Anarchist Group west of Camp McKinney. Veins are 0.3 to 1.5 metres wide and carry pyrite, galena, sphalerite and free gold.

WORK DONE: LINE 5.0 km
SAMP 13;Au,Ag
PROS 1:5000
REFERENCES:

**** Miny ****

MINING DIV: Greenwood ASSESSMENT REPORT 16493 INFO CLASS 4
LOCATION: LAT. 49 05 48 LONG. 119 13 48 NTS:
CLAIMS: Miny,Miny 1-2
OPERATOR: Stushnoff, J.
AUTHOR: Stushnoff, J.
DESCRIPTION: Widely scattered outcrops of Late Jurassic granite are in contact with sediments to the west and altered by ultramafic rocks to the east.
WORK DONE: LINE 12.0 km
ROCK 3;multielement
SOIL 10;multielement
PROS 1:3333
REFERENCES:

**** Victoria-Old England ****

MINING DIV: *** ASSESSMENT REPORT 16653 INFO CLASS 4
LOCATION: LAT. 49 06 45 LONG. 119 08 12 NTS:
CLAIMS: AH,CH,HO,Lemon,Old England,Snowden,Stan,Stan 4-5,Victoria
OPERATOR: Minnova
AUTHOR: Kyba, B.
COMMODITIES: Gold,Zinc
DESCRIPTION: The property is underlain by Permian volcanic and sedimentary rocks of the Anarchist Group that have been intruded by Cretaceous stocks and plutons. Tertiary volcanic rocks overlie all rock types in the central and eastern portions of the property. One large fault and several small fault zones trend north-northeasterly through the property. Mineralization occurs as gold, galena and sphalerite in pyrite-rich veins and as gold disseminated in sheared and altered greenstone.
WORK DONE: GEOL 1:5000
ROCK 92;multielement
REFERENCES: A.R. 07636,09498,15256
M.I. O82ESW021-VICTORIA-OLD ENGLAND

**** WS,Boomerang ****

MINING DIV: Greenwood ASSESSMENT REPORT 16671 INFO CLASS 3
LOCATION: LAT 49 15 05 LONG. 119 00 58 NTS:
CLAIMS: BC,Chaperone,Eagle Fr.,Iconoclast,W.S.
OPERATOR: Logan Mines
AUTHOR: Visser, S.; Hopper, D.
COMMODITIES: Silver,Gold
DESCRIPTION: Granite is intruded by quartz and quartz breccia structures. A grey dyke (andesite porphyry) trends with the quartz fracture-filling veins.
WORK DONE: GEOL 1:2000
SOIL 245;Au,Ag,Cu

ROCK 20;Au,Ag
SAMP 24;Au,Ag
TREN 380.0 m;10 trenches
REFERENCES: A.R. 05621,06286,08211,15191
M.I. O82ESW063-BOOMERANG;O82ESW063-WS

**** Kruger ****

MINING DIV: Osoyoos ASSESSMENT REPORT 16074 INFO CLASS 3
LOCATION: LAT. 49 01 12 LONG. 119 31 30 NTS:
CLAIMS: Bertha Fr.,Blue Bell,Gold Hill,Kruger Mt.,Lakeview,Molka,Rohne Fr.
OPERATOR: Makus Res.
AUTHOR: Carpenter, T.H.; Crowe, G.G.
DESCRIPTION: Sheared schists, greenstones and silicified volcanics and sediments of the Kruger schists are intruded by Jurassic-Cretaceous Osoyoos Batholith granodiorites. Skarn deposits carrying gold and copper are developed proximal to a northwest trending limestone unit which hosts the Lakeview and Dividend past-producers. Numerous quartz veins are also developed. A large silicified zone marks the contact between the volcanics and intrusives. Low, but anomalous gold values have been recovered from this silicified zone.
WORK DONE: GEOL 1:5000
EMGR 9.0 km;VLF
SOIL 401;multielement
MAGG 11.0 km
ROCK 84;multielement
REFERENCES:

**** Rohne Fr. (L.2676),CHUKAR,MOLKA (L.2675) ****

MINING DIV: *** ASSESSMENT REPORT 14877 INFO CLASS 2
LOCATION: LAT. 49 00 18 LONG. 119 29 06 NTS:
CLAIMS: Bertha Fr.,Blue Bell,Dividend 2,Gold Hill,Kruger Mountain,Lakeview Molka,Rohne Fr.,Whistler
OPERATOR: Makus Res.
AUTHOR: Di Spirito, F.; Krohman, D.
COMMODITIES: Gold,Copper
DESCRIPTION: Paleozoic volcanics and sediments are intruded by Jurassic granodiorite. Shear zones within greenstone are variably mineralized pyrrhotite, pyrite, chalcopyrite, magnetite, arsenopyrite, gold and silver in quartz pods, stringers and veins. Small skarns contain pyrrhotite, pyrite, chalcopyrite, gold and silver.
WORK DONE: EMGR 85.0 KM;VLF
GEOL 1:5000
LINE 92.5 KM
MAGG 85.0 KM
PETR 26 THIN SECTIONS
ROCK 116;MULTIELEMENT
SOIL 202;MULTIELEMENT
REFERENCES: A.R. 658,808,2922,14877
CHUKAR;O82ESW117-MOLKA (L.2675)
M.I. O82ESW076-ROHNE FR. (L.2676);O82ESW083-

**** Buck ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15783 INFO CLASS 3
LOCATION: LAT. 49 01 36 LONG. 119 35 30 NTS:
CLAIMS: Nep
OPERATOR: Nepheline Res.
AUTHOR: Payne, J.
COMMODITIES: Nepheline Syenite
DESCRIPTION: Sills of nepheline syenite-syenite occur in Carboniferous Kobau Group metasedimentary and metavolcanic rocks which are cut by Cretaceous plutonic rocks of gabbro to quartz diorite composition. The sills are zoned mineralogically, and dip steeply southwest. Drill results indicate that the sills are tabular bodies with thicknesses of at least 170 metres.
WORK DONE: GEOL 1:2000
ROCK 11;multielement
DIAD 300.8 m;3 holes,BQ
MAGG 4.9 km
REFERENCES: A.R. 00677,00970,01228,02027,04130,
M.I. O82ESW106-BUCK

**** Goldhill ****

MINING DIV: *** ASSESSMENT REPORT 16630 INFO CLASS 4
LOCATION: LAT. 49 00 35 LONG. 119 30 53 NTS:
CLAIMS: Goldhill
OPERATOR: Stewart, R.
AUTHOR: Stewart, R.
DESCRIPTION: The claim is located on the western edge of the Osoyoos Batholith-a mass of medium to coarse-grained granodiorite of Jurassic to Cretaceous age intruding a series of sheared schists, greenstones and quartzites known as the Kruger schists. Native gold blebs were observed in thin section.
WORK DONE: MAGG 5.5 km
ROCK 46;multielement
PETR 1
LINE 5.5 km
REFERENCES:

**** Hill ****

MINING DIV: Osoyoos ASSESSMENT REPORT 16159 INFO CLASS 2
LOCATION: LAT. 49 15 42 LONG. 119 41 36 NTS:
CLAIMS: King,King 1-4,Mo
OPERATOR: Grandex Res.
AUTHOR: Christopher, P.
COMMODITIES: Gold
DESCRIPTION: Mineralization on the Orofino Mountain property consists of quartz veins with pyrite, chalcopyrite, galena and free gold. Gold values of up to 370.2 grams per tonne over 0.9 metres have been obtained from the Lower King adit.
Sedimentary and volcanic rocks are intruded by Mesozoic granitic bodies varying in composition from granite to diorite.

WORK DONE: SOIL 2013;Au
LINE 51.3 km
EMGR 44.3 km;VLF
MAGG 44.3 km
REFERENCES: A.R. 04604,09933,11480,12705,13576,15078
M.I. 082ESW113-HILL

**** Kruger Mt,Horn Silver ****

MINING DIV: *** ASSESSMENT REPORT 16629 INFO CLASS 3
LOCATION: LAT. 49 03 37 LONG. 119 40 13 NTS:
CLAIMS: Utica
OPERATOR: Laroth Eng.
AUTHOR: Larabie, E.
COMMODITIES: Silver,Gold,Copper,Lead,Zinc,Nepheline Syenite
DESCRIPTION: The property is underlain by Kruger syenite and is bordered to the south by granodiorite (Jurassic or younger) and to the north by Carboniferous Kobau Group quartzites and schists. The main mineral, silver, is found in quartz veins up to 1.3 metres wide. Numerous small faults are evident as well as two major faults.
WORK DONE: GEOL 1:10 000
MAGG 32.5 km
EMGR 32.5 km;VLF
LINE 35.5 km
ROAD 3.5 km
REFERENCES: A.R. 05293
M.I. 082ESW002-HORN SILVER;082ESW160-KRUGER MT.

**** Mak Siccar ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15920 INFO CLASS 2
LOCATION: LAT. 49 06 30 LONG. 119 41 12 NTS:
CLAIMS: Allen (L.2974),Apex (L.1038),Bobbs (L.2966),Buller (L.2965),Buller 1
Crown (L.2969),Eclipse Fr. (L.2976),French (L.2975)
Kitchener (L.2967),Mak Siccar,Otter (L.2970),Strathcona (L.2968)
OPERATOR: Chelik Res.
AUTHOR: Di Spirito, F.; Meixner, H.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: Quartz veins 5 to 150 centimetres wide occur in a shear zone which traverses a small granodiorite stock within greenstone schists. The shear zone strikes 030 degrees east and dips 60 degrees to the west.
WORK DONE: SOIL 952;multielement
EMGR 51.0 km;VLF
MAGG 52.0 km
GEOL 1:5000
LINE 71.7 km
ROCK 68;multielement
REFERENCES: A.R. 08996
M.I. 082ESW004-MAK SICCAR (BULLER,BOBS)

**** McT ****

MINING DIV: *** ASSESSMENT REPORT 15413 INFO CLASS 3
LOCATION: LAT. 49 11 00 LONG. 119 34 00 NTS:

CLAIMS: Chris McT,Ebony Fr.,R. McT,Steve McT
OPERATOR: Atlar Res.
AUTHOR: Gewargis, W.
DESCRIPTION: The claims are underlain by a thick sequence of metamorphosed sedimentary rocks belonging to the Carboniferous Kobau Group. Weak VLF-electromagnetic conductors and magnetic anomalies coincide with anomalous gold soil zones.
WORK DONE: SOIL 233;multielement
ROCK 10;multielement
LINE 15.2 km
EMGR 15.2 km;VLF
MAGG 15.2 km
GEOL 1:1000
REFERENCES:

**** Nova ****

MINING DIV: Osoyoos ASSESSMENT REPORT 16124 INFO CLASS 4
LOCATION: LAT. 49 13 42 LONG. 119 34 30 NTS:
CLAIMS: Nova
OPERATOR: Golden Webb Res.
AUTHOR: Bartier, P.
DESCRIPTION: The property is underlain by Precambrian Monashee Group metasediments which have been intruded by Cretaceous-Jurassic Nelson Intrusions. There are at least three quartz veins with anomalous gold values located in the plutonic rocks at or near the Monashee Group contact. The veins are 1 to 3 metres wide, have a northerly strike, dip east and display limonite and malachite staining.
WORK DONE: GEOL 1:1250
MAGG 7.7 km
EMGR 7.7 km;VLF
REFERENCES:

**** Standard ****

MINING DIV: *** ASSESSMENT REPORT 15833 INFO CLASS 3
LOCATION: LAT. 49 12 06 LONG. 119 34 48 NTS:
CLAIMS: Snowflake
OPERATOR: Kronex Res.
AUTHOR: Callaghan, B.; Coombes, S.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: The claims are underlain by Cretaceous calc-alkaline Valhalla intrusives of quartz monzonite composition. Mineralization consists of pyrite, galena, sphalerite and lesser chalcopyrite and gold tellurides hosted in quartz veins.
WORK DONE: SAMP 40;Au,Ag
DIAD 610.5m;10 holes,NQ
REFERENCES: A.R. 12971
M.I. 082ESW091-STANDARD

**** White ****

MINING DIV: Osoyoos ASSESSMENT REPORT 16267 INFO CLASS 3
LOCATION: LAT. 49 00 24 LONG. 119 33 24 NTS:
CLAIMS: Knight,White

OPERATOR: Stewart, R.
AUTHOR: Stewart, R.
DESCRIPTION: The claims are located on the western edge of the Osoyoos Batholith, a mass of medium to coarse-grained granodiorite with a series of sheared schists, greenstones and quartzites known as the Kruger schists.
WORK DONE: ROCK 6;multielement
MAGG 11.0 km
LINE 11.0 km
SAMP 6;multielement
PROS 1:2000
REFERENCES:

**** Cliff ****

MINING DIV: *** ASSESSMENT REPORT 15992 INFO CLASS 2
LOCATION: LAT. 49 15 00 LONG. 119 51 00 NTS:
CLAIMS: Cliff,Great Eastern
OPERATOR: Goldcliff Res.
AUTHOR: Rockel, E.; Crooker, G.
DESCRIPTION: The claims are underlain by a Jurassic ultramafic stock which has intruded marine sedimentary and volcanic rocks of the Triassic Apex Mountain Group. Gold mineralization is associated with brecciation, quartz stockworks and carbonatization.
WORK DONE: PETR 10;thin sections
MAGG 42.4 km
ROCK 59;multielement
SOIL 1726;multielement
GEOL 1:2500
LINE 49.8 km
EMGR 26.9 km;VLF
REFERENCES:

**** Daly ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15505 INFO CLASS 4
LOCATION: LAT. 49 13 42 LONG. 119 46 36 NTS:
CLAIMS: Daly,Daly 1
OPERATOR: Grand National Res.
AUTHOR: Freeze, J.
DESCRIPTION: The claims are underlain by Triassic metasediments and metavolcanics of the Shoemaker Formation. Locally these rocks have been intruded by diorites belonging to the Cretaceous-Jurassic Nelson Batholith. Precious metal mineralization is localized in limy cherts and argillites of the Shoemaker Formation.
WORK DONE: SOIL 81;multielement
REFERENCES: A.R. 14205,14759

**** Hill,MO ****

MINING DIV: *** ASSESSMENT REPORT 16648 INFO CLASS 2
LOCATION: LAT. 49 15 40 LONG. 119 41 42 NTS:
CLAIMS: King,King 1,Mo
OPERATOR: Grandex Res.
AUTHOR: Christopher, P.

COMMODITIES: Gold,Rhodonite
DESCRIPTION: Narrow quartzite bands of the Triassic Shoemaker Formation occur as pendants in an intrusive complex that varies from gabbro to granite. Mineralization consists of 1 metre wide steeply dipping quartz veins containing pyrite, chalcopyrite, galena and free gold.
WORK DONE: SOIL 92;multielement
ROCK 83;multielement
DIAD 1404.5 m;23 holes,NQ
SAMP 110;multielement
TREN 1200.0 m;31 trenches
REFERENCES: A.R. 09933,11480,12705,13576,15078,16159
M.I. 082ESW113-HILL;082ESW137-MO

**** Vault ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15595 INFO CLASS 3
LOCATION: LAT. 49 22 06 LONG. 119 36 12 NTS:
CLAIMS: Vault 1-2,Vault 4
OPERATOR: Can. Nickel
AUTHOR: Groeneweg, W.; Hunter, E.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by porphyritic trachyte flows of the Marron Formation, trachytic pyroclastics and flows of the Marama Formation, and lahars, volcanic flows and tuffs of the White Lake Formation. All formations are of Eocene age. The rocks are folded into a east plunging syncline and a gentle east trending anticline. A major northeast fault zone cuts through the centre of the property. Other northeast and northwest trending faults occur in the northeast part of the Vault 1 claim. Parts of the Lower Marama Formation have been silicified and locally contain low gold-silver values.
WORK DONE: DIAD 779.0 m;2 holes,NQ
SAMP 85;multielement
GEOL 1:4000
REFERENCES: A.R. 10968,12487
M.I. 082ESW173-VAULT

**** Fuji,Logan ****

MINING DIV: *** ASSESSMENT REPORT 15932 INFO CLASS 3
LOCATION: LAT. 49 25 42 LONG. 119 50 48 NTS:
CLAIMS: Fuji,Logan
OPERATOR: Tchaikazan Ent.
AUTHOR: Di Spirito, F.; Graham, J.C.
DESCRIPTION: Cretaceous-Jurassic Nelson Intrusions are in contact with Triassic volcanics and sediments.
WORK DONE: EMGR 34.3 km;VLF
MAGG 39.8 km
LINE 51.3 km
REFERENCES: A.R. 14893

**** Jennifers Gold ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15638 INFO CLASS 3
LOCATION: LAT. 49 18 00 LONG. 119 57 30 NTS:
CLAIMS: Jennifer's Gold

OPERATOR: Toby Creek Res.
AUTHOR: Coffin, D.; Di Spirito, F.
DESCRIPTION: The property geology is composed of Upper Triassic Nicola Group chert and intermediate volcanics which trend northerly. Strong magnetic responses indicate a linear fracture, probably a fault trending 080 degrees, and an anomaly which has been interpreted as a diorite stock.
WORK DONE: GEOL 1:5000
ROCK 15;multielement
MAGA 81.8 km
EMAB 81.8 km;VLF
REFERENCES:

**** Lisa ****

MINING DIV: *** ASSESSMENT REPORT 16432 INFO CLASS 3
LOCATION: LAT. 49 17 30 LONG. 119 58 30 NTS:
CLAIMS: Lisa 1
OPERATOR: Tymar Res.
AUTHOR: Croft, S.
DESCRIPTION: The claim is underlain by greenstone, chert and tuff of the Triassic Independence, Shoemaker and Old Tom Formations.
WORK DONE: SOIL 102;multielement
MAGG 50.0 km
EMGR 50.0 km;VLF
LINE 50.0 km
REFERENCES:

**** Northwestern Quarries ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15517 INFO CLASS 3
LOCATION: LAT. 49 18 18 LONG. 119 46 00 NTS:
CLAIMS: Golden Plug
OPERATOR: Green Lake Res.
AUTHOR: Day, W.C.
COMMODITIES: Stone
DESCRIPTION: Eocene andesite-basalt pyroclastics are intruded by rhyolitic to rhyodacitic rocks. Extensive clay alteration occurs in the rhyolitic intrusive.
WORK DONE: DIAD 307.4 m;3 holes,NQ
SAMP 54;multielement
REFERENCES: A.R. 13611
M.I. 082ESW056-NORTHWESTERN QUARRIES

**** PDL ****

MINING DIV: *** ASSESSMENT REPORT 16674 INFO CLASS 3
LOCATION: LAT. 49 22 18 LONG. 119 48 20 NTS:
CLAIMS: Ford 1,PDL
OPERATOR: QPX Min.
AUTHOR: Lee, L.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain primarily by cherts and greenstones of the Triassic or older Old Tom and Shoemaker Formations. Tertiary conglomerates (Springbrook Formation) and lavas (Marron Formation)

are exposed towards the eastern claim boundaries. Minor gold-bearing pyrite-arsenopyrite stringers occur in cherts of the Shoemaker Formation.
WORK DONE: GEOL 1:5000,1:2500
SOIL 496;multielement
ROCK 164;multielement
LINE 5.3 km
REFERENCES: A.R. 13199,14062
M.I. 082ESW190-PDL

**** Ritsuko ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15532 INFO CLASS 3
LOCATION: LAT. 49 20 42 LONG. 119 56 42 NTS:
CLAIMS: Motomi,Ritsuko
OPERATOR: Petrotex Res.
AUTHOR: Di Spirito, F.
DESCRIPTION: The claims are underlain by post-Triassic granodiorite, part of a large body which intrudes Triassic Independence Formation volcano-sedimentary strata.
WORK DONE: EMGR 9.0 km;VLF
TREN 40.0 m;1 trench
SOIL 5;multielement
LINE 10.3 km
MAGG 9.0 km
SILT 3;multielement
GEOL 1:10 000
SAMP 4;multielement
REFERENCES: A.R. 14499

**** Yuniman ****

MINING DIV: *** ASSESSMENT REPORT 15843 INFO CLASS 2
LOCATION: LAT. 49 18 24 LONG. 119 56 30 NTS:
CLAIMS: Black Jack,Black Pine,Blue Bell,Bush Rat,Far West,Hub Fr. Little Bessie,Old Diggings,Truine
OPERATOR: Toby Creek Res.
AUTHOR: Gale, R.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Triassic cherts, basalt, andesite, argillite and limestone which are intruded by diorite and narrow dykes of intermediate to felsic composition. Gold, silver and arsenopyrite in quartz veins are associated with northwest trending dykes and fracture systems. Silica, carbonate and scapolite alteration is present.
WORK DONE: GEOL 1:1000,1:500
ROCK 459;multielement
MNGR 5
SOIL 592;multielement
SAMP 210;multielement
IPOL 2.5 km
TREN 450.0 m;25 trenches
DIAD 626.0 m;5 holes,NQ
REFERENCES: M.I. 082ESW180-YUNIMAN

**** Dollar ****

MINING DIV: Greenwood ASSESSMENT REPORT 16314 INFO CLASS 4
LOCATION: LAT. 49 27 18 LONG. 119 07 30 NTS:
CLAIMS: W 1-2
OPERATOR: Morrison, M.
AUTHOR:
DESCRIPTION: Massive granodiorite of the Westkettle Batholith (Cretaceous-Jurassic Nelson Intrusions) is cut by a strong 1 to 2 metre wide shear zone crossing the property for at least 300 metres at 080 degrees. The zone dips vertically. Vuggy quartz veins 5 to 50 centimetres in width fill the shear zone locally. Mineralization consists of pockets of pyrite, galena and sphalerite within or adjacent to the quartz vein material. Silver assays range from 60 to 300 grams per tonne, while gold assays range from 3 to 15 grams per tonne. Saussuritization extends 0.5 metres on either side of the shear zone while chlorite alteration extends up to 3 metres.
WORK DONE: BIOG 36;multielement
REFERENCES: A.R. 03740,07358
M.I. 082ESW059-DOLLAR (INYO;ACKWORTH;ESTER)

**** Nora ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15466 INFO CLASS 3
LOCATION: LAT. 49 22 24 LONG. 119 19 48 NTS:
CLAIMS: Nora 1-2
OPERATOR: Noranda Ex.
AUTHOR: Gill, D.
DESCRIPTION: The claims may be underlain by Cretaceous Valhalla and Nelson Intrusions.
WORK DONE: LINE 10.6 km
SOIL 200;Cu,Pb,Zn,Ag,Au
REFERENCES:

**** Green ****

MINING DIV: Greenwood ASSESSMENT REPORT 15501 INFO CLASS 4
LOCATION: LAT. 49 23 42 LONG. 118 40 24 NTS:
CLAIMS: Green 1
OPERATOR: Boitard, C.
AUTHOR: Boitard, C.; La Rue, J.
DESCRIPTION: The claim is underlain by a complex series of intrusive rocks of the Cretaceous Valhalla Intrusions and Eocene Coryell Intrusions.
WORK DONE: SOIL 47;Cu,Co,Ag,Zn,Au,As
REFERENCES: A.R. 06617,07154,07846,09551,10038,13379,14342

**** Saaga ****

MINING DIV: *** ASSESSMENT REPORT 16346 INFO CLASS 3
LOCATION: LAT. 49 23 42 LONG. 118 55 36 NTS:
CLAIMS: Saaga
OPERATOR: Saga Res.
AUTHOR: Partridge, G.

DESCRIPTION: Metamorphosed, south-dipping andesitic rocks of the Permian Anarchist Group are intruded by granite of the Upper Mesozoic Valhalla Batholith on the west and are overlain in the east by conglomerate and minor volcanic sandstone of the Tertiary Kettle River Formation. A trace of very fine sulphide was noted in the sediments in the southeast portion of the grid.
WORK DONE: MAGG 14.5 km
SOIL 243;Ag,Au,As
PROS 1:5000
LINE 14.5 km
REFERENCES:

**** Basic,Mafic ****

MINING DIV: Greenwood ASSESSMENT REPORT 16151 INFO CLASS 3
LOCATION: LAT. 49 29 48 LONG. 118 26 00 NTS:
CLAIMS: Basic,Mafic
OPERATOR: Bukara Res.
AUTHOR: Di Spirito, F.; Graham, J.C.
DESCRIPTION: The claims are believed to be underlain by Cretaceous-Jurassic Nelson granodiorite, Tertiary Coryell intrusives and Permian Anarchist Group rocks.
WORK DONE: MAGA 131.0 km
EMAB 131.0 km;VLF
REFERENCES:

**** Buffalo,Averill ****

MINING DIV: *** ASSESSMENT REPORT 15964 INFO CLASS 3
LOCATION: LAT. 49 35 00 LONG. 118 23 36 NTS:
CLAIMS: PT
OPERATOR: Placer Dev.
AUTHOR: Clark, A.
COMMODITIES: Copper,Silver,Gold
DESCRIPTION: A pyroxenite dyke or sill occurs within a body of Tertiary augite syenite with andesitic volcanics along the contacts.
WORK DONE: SAMP 305;multielement
DIAD 780.6 m;13 holes,BQ
REFERENCES: A.R. 09584
M.I. 082ENE007-AVERILL;082ENE008-BUFFALO

**** GH,Gloucester ****

MINING DIV: Greenwood ASSESSMENT REPORT 15467 INFO CLASS 4
LOCATION: LAT. 49 34 36 LONG. 118 22 12 NTS:
CLAIMS: G.H.,Gloucester
OPERATOR: MacKillop, R.
AUTHOR: Malott, M.
COMMODITIES: Copper,Gold,Iron,Molybdenum,Silver
DESCRIPTION: Paleozoic to Mesozoic Franklin Group rocks are intruded by Cretaceous-Jurassic granodiorite of the Nelson Batholith. Chalcopyrite mineralization occurs along the intrusive contact with a strike of approximately 240 degrees and dip of nearly 70 degrees southeast.
WORK DONE: PROS 1:3600

ROCK 3:Cu,Au,Ag,Pt
REFERENCES: A.R. 06228,10953
M.I. 082ENE005-GLOUCESTER;082ENE006-GH

**** Kingfisher ****

MINING DIV: *** ASSESSMENT REPORT 15981 INFO CLASS 2
LOCATION: LAT. 49 33 48 LONG. 118 21 06 NTS:
CLAIMS: DAJG 1-4,Dodge,Spring 4
OPERATOR: Placer Dev.
AUTHOR: Clark, A.
COMMODITIES: Copper,Lead,Zinc,Gold,Silver,Cadmium,Fluorite
DESCRIPTION: The claims are underlain by a pyroxenite/syenite intrusion with platinum-palladium mineralization.
WORK DONE: SAMP 69;Cu,Ag,Au,Pt,Pd
DIAD 1078.7 m;19 holes,BQ
REFERENCES: A.R. 07395
M.I. 082ENE009-KINGFISHER

**** Plat Pal ****

MINING DIV: Greenwood ASSESSMENT REPORT 15811 INFO CLASS 3
LOCATION: LAT. 49 35 00 LONG. 118 25 00 NTS:
CLAIMS: Pal,Plat
OPERATOR: Potter, A.
AUTHOR: Clark, A.
DESCRIPTION: Outcrops prospected include pyroxenite, granite and granodiorite. Soil samples taken along a single line include anomalous values of precious and base metals.
WORK DONE: SOIL 168;Au,Pt,Pd
PROS 1:6000
REFERENCES:

**** Auriferous ****

MINING DIV: *** ASSESSMENT REPORT 15439 INFO CLASS 4
LOCATION: LAT. 49 31 48 LONG. 119 00 12 NTS:
CLAIMS: Auriferous 1
OPERATOR: Morrison, M.
AUTHOR:
DESCRIPTION: The claim is underlain by northwest trending and northeast dipping metavolcanic and metasedimentary rocks of the Permian Anarchist Group, which are intruded by the Cretaceous-Jurassic Nelson Batholith. Biogeochemistry survey results identified anomalous multielement values.
WORK DONE: BIOG 77;multielement
REFERENCES:

**** Doe (Ivy;Fan) ****

MINING DIV: Greenwood ASSESSMENT REPORT 16102 INFO CLASS 4
LOCATION: LAT. 49 31 24 LONG. 119 11 30 NTS:
CLAIMS: CA 2-5,PFC 3
OPERATOR: Dynamic Oil
AUTHOR: Leary, G.

COMMODITIES: Molybdenum,Copper,Flourite
DESCRIPTION: Extensive drilling has indicated an open pit reserve of 20.7 million tonnes grading 0.106 per cent molybdenite in two zones, "E" zone and "Lake" zone with potential for 36.3 million tonnes.
A higher grade steeply north-dipping lens in "Lake" zone breccia (subject of current study) with an average width of 8.5 metres and average grade of 0.33 per cent molybdenite has potential for 4.5 million tonnes.
Mineralization occurs in Cretaceous-Jurassic Nelson and Tertiary Valhalla rocks.
WORK DONE: GEOL 1:5000
REFERENCES: A.R. 05203,05204,05430,05519,05860,06023,06276,06932,07413,07683
M.I. 082ENW036-DOE (IVY,FAN)

**** Fap ****

MINING DIV: Osoyoos ASSESSMENT REPORT 16255 INFO CLASS 4
LOCATION: LAT. 49 37 00 LONG. 119 51 00 NTS:
CLAIMS: F.A.P. 1
OPERATOR: Agio Res.
AUTHOR: Peto, P.
COMMODITIES: Copper
DESCRIPTION: A highly oxidized north trending shear-zone, 400 metres long by 20 metres wide, cuts amphibolitic basement rocks enveloped by a granodiorite intrusion. The shear zone hosts hornblendites and altered diorites(?). These are cut by quartz veins and quartz-carbonate veinlets carrying pyrite, chalcopyrite and minor galena with low values in gold and silver.
WORK DONE: DIAD 68.9 m;1 hole,NQ
REFERENCES: A.R. 02198,04691,05445,10718,11518,13931,15047
M.I. 082ENW048-FAP

**** Jass (Hen, Mun) ****

MINING DIV: *** ASSESSMENT REPORT 16437 INFO CLASS 3
LOCATION: LAT. 49 43 36 LONG. 119 55 48 NTS:
CLAIMS: Dale,Rose,Rose 2-3
OPERATOR: Almaden Res.
AUTHOR: Burns, T.; Watt, D.
COMMODITIES: Copper,Molybdenum,Zinc
DESCRIPTION: Cretaceous-Jurassic Nelson and Valhalla intrusives (granodiorite-quartz monzonite) with later aplite and quartz latite dykes have been sheared and faulted. Weak porphyry copper-molybdenum mineralization and vein silver mineralization occurs.
WORK DONE: SILT 166;Ag,Pb,Zn,Cu,As
SAMP 84;Ag,Cu,Pb,Zn
OBDR 225.0 m;23 holes
SOIL 167;Ag,Pb,Zn,Cu,As
REFERENCES: A.R. 05318,06399,06558,10445,15207
M.I. 082ENW021-JASS (HEN,MUN)

**** Jubilation ****

MINING DIV: Vernon ASSESSMENT REPORT 16504 INFO CLASS 4
LOCATION: LAT. 49 57 48 LONG. 119 42 36 NTS:

CLAIMS: Jubilation 1-2
OPERATOR: Chevron Min.
AUTHOR: Ziebart, P.
DESCRIPTION: Permian-Pennsylvanian Cache Creek Group metasediments striking westerly and dipping steeply north are intruded by a hornblende diorite stock on the northeast side of the property. Some hornfelsing and skarnification of the lime-rich sediments has resulted. Gold, silver, and arsenic values occur in anomalous amounts associated with pyrite-bearing quartz veinlets cutting through fractured, bleached, limonite and manganese stained limy metasediments. Northwest faulting (333 degrees) of possible Tertiary age appears to control the emplacement of the quartz veinlets.
WORK DONE: PROS 1:2500
ROCK 16;multielement
SOIL 6;multielement
REFERENCES:

**** Shear ****

MINING DIV: *** *ASSESSMENT REPORT* 16094 *INFO CLASS 4*
LOCATION: LAT. 49 59 42 LONG. 119 34 12 NTS:
CLAIMS: Shear 1-7
OPERATOR: Lenard, N.
AUTHOR:
DESCRIPTION: The property is underlain by Permian-Pennsylvanian Cache Creek Group metasediments and andesites, locally intruded by minor dioritic-mafic dykes with satellite quartz veins and stockworks. The wallrocks are albitized, argillized and pyritized. Strong potassic alteration is found in some dykes. Auriferous, pyritic quartz veins occur with occasional free gold.
WORK DONE: GEOL 1:3333
REFERENCES: A.R. 14784

**** Bern ****

MINING DIV: Nicola ASSESSMENT REPORT 15594 INFO CLASS 3
LOCATION: LAT. 49 53 12 LONG. 119 59 36 NTS:
CLAIMS: M 82
OPERATOR: Brenda Mines
AUTHOR: Bruaset, R.
DESCRIPTION: Porphyritic quartz diorite of the Jurassic Brenda stock is fractured and weakly mineralized with chalcopyrite and molybdenite in hairline fractures and occasionally the same minerals in quartz veins. Weak alteration occurs in the form of chloritization of mafics, potassium feldspar vein selvages and epidote.
WORK DONE: *DIAD 355.1 m;3 holes,NQ*
SAMP 57;Mo,Cu,Pb,Fe,Ca
REFERENCES:

**** Iron Horse,Blue Bell (Ted),Blue Bell (Patrici

MINING DIV: Osoyoos ASSESSMENT REPORT 15834 INFO CLASS 1
LOCATION: LAT. 49 48 18 LONG. 119 53 24 NTS:
CLAIMS: Cap,Iron Horse,Oka 1-11

OPERATOR: Fairfield Min.
AUTHOR: Hylands, J.; Rowe, J.
COMMODITIES: Copper,Lead,Zinc,Gold,Garnet
DESCRIPTION: Gold-bearing veins, disseminated and massive sulphides occur in Upper Triassic Nicola Group sediments, volcanics and skarns. The *Nicola Group rocks are roof pendants in Cretaceous-Jurassic Nelson* Batholith diorite-granodiorite. Minor molybdenite occurs locally in quartz veins in altered intrusives.
WORK DONE: GEOL 1:5000
SOIL 7823;Au,Ag,Cu,Zn,As
ROCK 381;Au,Ag,Cu,Zn,As
LINE 58.4 km
REFERENCES: A.R. 00672,00718,01110,04040,08143,09261
M.I. O82ENW025-IRON HORSE;O82ENW026-BLUE BELL;O82ENW027-TED;
O82ENW030-BLUE BELL

**** Director 5 ****

MINING DIV: Vernon ASSESSMENT REPORT 16216 INFO CLASS 4
LOCATION: LAT. 49 55 36 LONG. 118 34 06 NTS:
CLAIMS: Azza
OPERATOR: Amulet Res.
AUTHOR: Mark, D.; Ven Huizen, G.
COMMODITIES: Zinc,Lead,Silver,Gold
DESCRIPTION: The claims are underlain by Cretaceous-Jurassic Nelson Intrusion granitic-type rocks as well as Permian Anarchist Group argillites. Mineralization consists of gold and silver with associated pyrite within siliceous epithermal veins along north and east shear zones. Intense kaolin alteration is associated with the veins.
WORK DONE: IPOL 2.1 km
GEOL 1:200
TREN 210.0 m;6 trenches
SAMP 37;multielement
REFERENCES: M.I. O82ENE018-DIRECTOR 5

**** Split ****

MINING DIV: *** ASSESSMENT REPORT 15639 INFO CLASS 3
LOCATION: LAT. 49 52 30 LONG. 118 43 30 NTS:
CLAIMS: Split 1-2
OPERATOR: Triple Star Res.
AUTHOR: Nelles, D.
DESCRIPTION: The property is underlain by felsic intrusives of the Lower Cretaceous Nelson Batholith.
WORK DONE: SOIL 52;Au,Ag
SILT 6;Au,Ag
ROCK 2;Au,Ag
HMIN 28;Au,Ag
REFERENCES:

**** Kid 3,Kid 12 ****

MINING DIV: Nelson ASSESSMENT REPORT 16635 INFO CLASS 3
LOCATION: LAT. 49 12 24 LONG. 116 15 14 NTS:
CLAIMS: Star 1-2,Star 12,Star 4-5,Star 7
OPERATOR: Cominco
AUTHOR: Pighin, D.; Vyselaar, J.
COMMODITIES: Lead,Zinc,Silver
DESCRIPTION: The Star claims are underlain by steeply dipping, east facing Proterozoic Middle Aldridge Formation sediments. These sediments are dominantly medium to thin-bedded wacke and quartzitic wackes and lesser quartzwacke. Gabbro sills and dykes are found on the property. The property is bounded by steeply dipping major north trending faults. At least 4 other minor faults that are parallel to the major north trending faults occur on the property.
WORK DONE: EMGR 33.6 km;HLEM
SOIL 765;multielement
LINE 17.6 km
ROAD 3.5 km
TREN 130.0 m;1 trench
REFERENCES: A.R. 01069,01625,01642,07481,12856
M.I. 082FSE002-KID 12;082FSE013-KID 3

**** Option ****

MINING DIV: *** ASSESSMENT REPORT 16501 INFO CLASS 3
LOCATION: LAT. 49 09 12 LONG. 116 13 54 NTS:
CLAIMS: Sky
OPERATOR: Wiklund, D.
AUTHOR: Davies, H.
COMMODITIES: Copper,Gold,Tungsten
DESCRIPTION: The claims are underlain by Proterozoic Aldridge Formation quartzites and shales. Quartz veins occur in diorite sills.
WORK DONE: LINE 8.8 km
SOIL 135;multielement
REFERENCES: A.R. 12895
M.I. 082FSE068-OPTION

**** Blackmore ****

MINING DIV: Fort Steele ASSESSMENT REPORT 15428 INFO CLASS 3
LOCATION: LAT. 49 00 54 LONG. 116 17 00 NTS:
CLAIMS: Sha 19-20,Sha 22-23
OPERATOR: Cominco
AUTHOR: Visser, S.
COMMODITIES: Silver,Lead
DESCRIPTION: The claims are underlain by moderately east dipping Precambrian Middle Aldridge Formation sediments. These sediments are dominantly medium to thin bedded wackes and quartzitic wackes which are intruded by gabbro sills and dykes. The area is bounded on the east and west by major north trending faults: the Iron Mountain Fault on the west and on the east by the Kidd Creek Fault. A number of minor northeast and northwest striking left lateral normal faults have been mapped

on the property. Geophysical survey results identified two UTEM conductors.
WORK DONE: LINE 16.2 km
EMGR 17.4 km;UTEM
REFERENCES: M.I. 082FSE076-BLACKMORE

**** Blackmore ****

MINING DIV: *** ASSESSMENT REPORT 16169 INFO CLASS 3
LOCATION: LAT. 49 00 36 LONG. 116 19 36 NTS:
CLAIMS: Sha 19
OPERATOR: Cominco
AUTHOR: Hagen, A.
COMMODITIES: Silver,Lead
DESCRIPTION: The Sha claims cover east-dipping, Precambrian Middle Aldridge Formation sediments composed predominantly of bedded wackes, quartzitic wackes and quartzwackes intruded by gabbro sills and dykes. The area is bounded by two major north trending faults; the Iron Mountain Fault on the west and the Kidd Creek Fault on the east. Other minor northeast and northwest striking, left lateral faults exist on the property.
WORK DONE: DIAD 396.0 m;1 hole,NQ
ROAD 0.5 km
REFERENCES: M.I. 082FSE076-BLACKMORE

**** Row ****

MINING DIV: Nelson ASSESSMENT REPORT 15585 INFO CLASS 2
LOCATION: LAT. 49 11 30 LONG. 116 28 00 NTS:
CLAIMS: Row 1-3
OPERATOR: Esso Res.
AUTHOR: Waskett-Myers, M.
DESCRIPTION: The claims are underlain by Proterozoic Middle Aldridge Formation greywacke and slate dipping 30 degrees to the west. A north-northwest trending normal fault occurs along the west claim boundary.
WORK DONE: SOIL 2438;multielement
REFERENCES:

**** Sha ****

MINING DIV: *** ASSESSMENT REPORT 16181 INFO CLASS 3
LOCATION: LAT. 49 11 30 LONG. 116 19 12 NTS:
CLAIMS: Sha 24,Sha 26,Sha 28
OPERATOR: Cominco
AUTHOR: Hagen, A.
DESCRIPTION: The Sha claims are underlain by moderately east dipping Precambrian Middle Aldridge Formation sediments. These sediments are dominantly medium to thin bedded wackes and quartzitic wackes which are intruded by gabbro sills and dykes. The area is bounded on the east and west by 2 major north trending faults: the Iron Mountain Fault on the west and on the east by the Kidd Creek Fault. A number of minor northeast and northwest striking left lateral normal faults have been mapped on the property.
WORK DONE: SOIL 345;Pb,Zn
REFERENCES: A.R. 15109

**** Jon ****

MINING DIV: Nelson ASSESSMENT REPORT 16037 INFO CLASS 4
LOCATION: LAT. 49 02 54 LONG. 116 35 42 NTS:
CLAIMS: Jon,Jon 2-5
OPERATOR: O'Grady, F.
AUTHOR: O'Grady, F.
DESCRIPTION: The claims are underlain by the Proterozoic Aldridge Formation.
WORK DONE: GEOL 1:4000
SILT 18;Pb,Zn
SOIL 25;Pb,Zn
REFERENCES:

**** Sullivan ****

MINING DIV: *** ASSESSMENT REPORT 16243 INFO CLASS 3
LOCATION: LAT. 49 02 48 LONG. 116 37 30 NTS:
CLAIMS: Sullivan Two
OPERATOR: Orion Res.
AUTHOR: Whiting, F.
DESCRIPTION: Galena and sphalerite occur as stratabound layers in the Proterozoic Aldridge Formation, accompanied by tourmalinization, albitization and talc alteration.
WORK DONE: GEOL 1:10 000
LINE 3.3 km
REFERENCES: A.R. 13858

**** Black Rock South,Black Rock North ****

MINING DIV: Nelson ASSESSMENT REPORT 15873 INFO CLASS 3
LOCATION: LAT. 49 08 00 LONG. 117 13 00 NTS:
CLAIMS: Black Rock 5-7 Fr.,Black Rock 10-12 Fr.
OPERATOR: Source Res.
AUTHOR: Cooke, D.
COMMODITIES: Lead,Zinc
DESCRIPTION: The Black Rock claims cover lead, zinc, silver and copper mineralization within Cambrian limestones of the Laib Formation. Phyllites, schists, and argillites occur within the sequence. These rocks are underlain by quartzites of the Reno Formation, and to the south are intruded by a granitic stock. Best geochemistry results range to 23.6 ppm silver, 330 ppb gold, 13.4 per cent lead, 14.9 per cent zinc and 187 ppm germanium.
WORK DONE: GEOL 1:5000
SOIL 517;Cu,Pb,Zn,As,W,Ag
LINE 9.5 km
ROCK 20;Cu,Pb,Zn,Ag,As,Wo
REFERENCES: A.R. 07215,08132
M.I. 082FSW006-BLACK ROCK NORTH;082FSW007-BLACK ROCK SOUTH

**** Bonanza ****

MINING DIV: *** ASSESSMENT REPORT 16035 INFO CLASS 4
LOCATION: LAT. 49 07 42 LONG. 117 07 30 NTS:

CLAIMS: Dip
OPERATOR: Nugget Mines
AUTHOR: Allen, G.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: The Sheep Creek Gold Mining Camp is underlain by Late Proterozoic to Cambrian argillite, argillaceous quartzite and limestone that have been folded into two tight northerly-trending anticlines with an intervening syncline. Gold-quartz veins with minor sulphides occur in northeasterly-trending faults where they intersect certain stratigraphic units (notably Upper Navada and Upper Nugget quartzite).
WORK DONE: ROCK 26;Au
REFERENCES: M.I. 082FSW055-BONANZA

**** Ace in the Hole ****

MINING DIV: Nelson ASSESSMENT REPORT 16567 INFO CLASS 4
LOCATION: LAT. 49 07 06 LONG. 117 22 30 NTS:
CLAIMS: Ace in the Hole
OPERATOR: Falconbridge
AUTHOR: Von Fersen, N.
COMMODITIES: Gold
DESCRIPTION: Mafic volcaniclastics of basaltic composition are interbedded with argillite, ash tuff and pyritic, cherty ash tuff. Several small bodies of fine-grained rhyolite were mapped within the mafic volcanics.
WORK DONE: TREN 216.0 m;9 trenches
SAMP 43;Au,Ag,Cu,Pb,Zn
GEOL 1:200
REFERENCES: A.R. 14934

**** Arnold,Rosa,Drum Lummon,Hattie,Ben Hassen ***

MINING DIV: *** ASSESSMENT REPORT 15510 INFO CLASS 4
LOCATION: LAT. 49 15 54 LONG. 117 23 42 NTS:
CLAIMS: Ben Hassen,June 2-6,Insurance 1,Insurance 3-5,Dora,Copper King Homestake,Arnold,Maude 5,Ontario,Westminster Fr.,Gordon,St. Louis Rosa
OPERATOR: Kootenay King Res.
AUTHOR: Allen, D.
COMMODITIES: Copper,Molybdenum,Lead
DESCRIPTION: The claims are centred on a complex swarm of Eocene porphyritic felsic to intermediate dykes which intrude sedimentary rocks of the Lower-Middle Jurassic Hall Formation of the Jurassic Rossland Group. Molybdenite, scheelite and chalcopyrite occur in a quartz vein stockwork associated with an aplite stock. Silver-lead-zinc mineralization in quartz veins occur peripherally to the stockwork zone.
WORK DONE: ROCK 58;Au,Ag
REFERENCES: A.R. 01603,06301,07573,07575,07754,08570
M.I. 082FSW213-DRUM LUMMON;082FSW226-HATTIE;082FSW300-BEN HASSEN;
082FSW301-ARNOLD;082FSW241-ROSA

**** Gus,Swift ****

MINING DIV: Nelson ASSESSMENT REPORT 15561 INFO CLASS 3
LOCATION: LAT. 49 07 00 LONG. 117 21 12 NTS:
CLAIMS: Gus 1-13,Swift 1-6
OPERATOR: Falconbridge
AUTHOR: Hendrickson, G.A.; Von Fersen, N.
DESCRIPTION: The claims are underlain primarily by a sequence of mafic volcanic and volcaniclastic rocks of basaltic composition, which are part of the Lower Jurassic Elise Formation of the Rossland Group. Mineralization consists of pyrite and minor chalcopyrite, sphalerite, trace galena, hematite and traces of gold and silver which are hosted by quartz-carbonate veinlets.
WORK DONE: MAGG 43.0 km
LINE 43.0 km
EMGR 43.0 km;VLF
IPOL 43.0 km
SOIL 1008;Au,Ag
REFERENCES:

**** Katie ****

MINING DIV: *** ASSESSMENT REPORT 15781 INFO CLASS 3
LOCATION: LAT. 49 08 30 LONG. 117 20 00 NTS:
CLAIMS: Katie 1
OPERATOR: Murray, K.
AUTHOR:
DESCRIPTION: The Katie claim is underlain by Elise Formation basaltic rocks of the Rossland Group. A broad copper soil anomaly measuring 400 metres by 500 metres includes up to 1 200 ppm copper, 34 ppb gold and erratic values of silver.
WORK DONE: SOIL 167;Cu,Ag,Au
LINE 16.8 km
REFERENCES: A.R. 08258

**** Lone Silver ****

MINING DIV: Nelson ASSESSMENT REPORT 15799 INFO CLASS 4
LOCATION: LAT. 49 02 30 LONG. 117 16 00 NTS:
CLAIMS: Lone Silver 2-3
OPERATOR: Abbott-Brown, G.
AUTHOR: Blanchet, D.
DESCRIPTION: The property is located southwest of the Lone Silver Mine. Highly schistose granodiorite related to the Nelson Batholith is the likely host of numerous mineralized veins presumably related to the Black Bluff fault.
WORK DONE: SOIL 6;Cu,Pb,Ag
ROCK 2;Cu,Pb,Ag,Au
PROS 1:6666
REFERENCES: A.R. 10842

**** Beaver ****

MINING DIV: Trail Creek ASSESSMENT REPORT 15511 INFO CLASS 4
LOCATION: LAT. 49 04 42 LONG. 117 44 18 NTS:
CLAIMS: Beaver
OPERATOR: Bragg, D.
AUTHOR: Bragg, D.
DESCRIPTION: The claim is underlain by Cretaceous-Jurassic Nelson Intrusion monzonite and Middle Jurassic Rossland Group volcanics.
WORK DONE: PROS 1:1000
REFERENCES:

**** Cam ****

MINING DIV: *** ASSESSMENT REPORT 15457 INFO CLASS 4
LOCATION: LAT. 49 04 06 LONG. 117 44 18 NTS:
CLAIMS: Cam 2-3
OPERATOR: Inland Au-Ag Res.
AUTHOR: Bragg, D.
DESCRIPTION: The claims are underlain by Rossland monzonite that locally varies in grain size, colour and composition and is cut by numerous dykes.
WORK DONE: PROS 1:1000
REFERENCES: A.R. 00025

**** Oriental ****

MINING DIV: Trail Creek ASSESSMENT REPORT 16106 INFO CLASS 4
LOCATION: LAT. 49 04 30 LONG. 117 43 30 NTS:
CLAIMS: Oriental (L.1701)
OPERATOR: Bragg, D.
AUTHOR:
DESCRIPTION: Mineralized zones occur along fault structures within the Mount Roberts Formation (Pennsylvanian), the Rossland Group (Jurassic) and the Rossland monzonite (Jurassic or Cretaceous-Jurassic).
WORK DONE: MAGG 1.3 km
PROS 1:500
REFERENCES:

**** Add,Charleston ****

MINING DIV: *** ASSESSMENT REPORT 16107 INFO CLASS 4
LOCATION: LAT. 49 04 48 LONG. 117 46 42 NTS:
CLAIMS: Add 2,Add 3 Fr.,Add 4,Arr 11-12
OPERATOR: Bragg, D.
AUTHOR:
DESCRIPTION: Mineralized zones occur along fault structures within the Mount Roberts Formation (Pennsylvanian), the Rossland Group (Jurassic) and the Nelson Intrusions (Cretaceous-Jurassic).
WORK DONE: MAGG 4.3 km
PROS 1:500
REFERENCES:

**** Big Trout ****

MINING DIV: Trail Creek ASSESSMENT REPORT 15815 INFO CLASS 4
LOCATION: LAT. 49 06 00 LONG. 117 48 00 NTS:
CLAIMS: Big Trout
OPERATOR: Inland Au-Ag Res.
AUTHOR: Bragg, D.
DESCRIPTION: In the Rossland Mining Camp mineralized stopes or zones occur along fault structures within the Mount Roberts Formation (Pennsylvanian), the Rossland Group (Lower Jurassic) and the Nelson Plutonic Complex (Lower Cretaceous). Within the survey area three easterly magnetic linears suggest underlying vein systems.
WORK DONE: LINE 1.8 km
MAGG 1.8 km
REFERENCES: A.R. 14293,14882

**** Evening Star,Georgia ****

MINING DIV: *** ASSESSMENT REPORT 15432 INFO CLASS 3
LOCATION: LAT. 49 05 24 LONG. 117 47 12 NTS:
CLAIMS: Evening Star,Georgia,Georgia Fr.,Mascot,Pott
OPERATOR: Gallant Gold Mines
AUTHOR: Hardy, J.
COMMODITIES: Gold,Copper,Silver
DESCRIPTION: Steeply dipping gold-bearing massive sulphide veins are hosted in Upper Paleozoic and Lower Jurassic volcanic and sedimentary rocks intruded by the Trail Batholith and Rossland monzonite.
Diamond drill results revealed up to 15 per cent finely disseminated iron sulphides over widths up to 7 metres and massive sulphide veinlets from several centimetres to one metre. The best intersection was 4.5 grams per tonne gold over a 0.7 metre massive pyrrhotite vein.
WORK DONE: RECL
GEOL 1:2000,1:1000
SAMP 485;multielement
DIAD 694.0 m;7 holes,NQ
ROCK 94;multielement
REFERENCES: A.R. 08971,14236
M.I. 082FSW102-EVENING STAR;082FSW149-GEORGIA

**** Hillside ****

MINING DIV: Trail Creek ASSESSMENT REPORT 15475 INFO CLASS 4
LOCATION: LAT. 49 03 24 LONG. 117 46 54 NTS:
CLAIMS: Hillside
OPERATOR: Inland Au-Ag Res.
AUTHOR: Bragg, D.
DESCRIPTION: The claim is underlain by augite porphyry volcanics of the Middle Jurassic Rossland Group which are intruded by intermediate-felsic dykes.
WORK DONE: MAGG 3.0 km
GEOL 1:500
REFERENCES: A.R. 14622

**** Jero ****

MINING DIV: *** ASSESSMENT REPORT 15482 INFO CLASS 3
LOCATION: LAT. 49 02 42 LONG. 117 50 18 NTS:
CLAIMS: Jero 5
OPERATOR: Gunsteel Res.
AUTHOR: Allen, D.; Gravel, J.
DESCRIPTION: The claims are underlain by openly folded, layered volcanics, volcaniclastics and siltstones of the Middle Jurassic Rossland Group, which are intruded by syngenetic augite porphyry dykes and plugs and by Tertiary Coryell syenites and monzonites. Mineralization on the property consists of abundant disseminated pyrrhotite.
WORK DONE: SOIL 379;multielement
SILT 1;Au,Ag,As,Cu,Pb,Zn
EMGR 9.3 km;HLEM,VLF
MAGG 8.3 km
ROCK 3;Au,Ag,As,Cu,Pb,Zn
LINE 13.5 km
REFERENCES: A.R. 02045

**** Jero ****

MINING DIV: Trail Creek ASSESSMENT REPORT 15414 INFO CLASS 4
LOCATION: LAT. 49 02 36 LONG. 117 50 18 NTS:
CLAIMS: Jero 5
OPERATOR: Gunsteel Res.
AUTHOR: Allen, G.
DESCRIPTION: The property is underlain by volcanic and sedimentary rocks of the Middle Jurassic Rossland Group. Survey results are inconclusive.
WORK DONE: EMGR 1.2 km;VLF
SOIL 31;multielement
ROCK 3;multielement
REFERENCES: A.R. 02045,15482

**** Pine ****

MINING DIV: *** ASSESSMENT REPORT 15481 INFO CLASS 4
LOCATION: LAT. 49 03 24 LONG. 117 48 12 NTS:
CLAIMS: Pine
OPERATOR: Inland Au-Ag Res.
AUTHOR: Bragg, D.
DESCRIPTION: The claim is underlain in part by Rossland monzonite and Middle Jurassic Rossland Group augite porphyry.
WORK DONE: LINE 3.3 km
GEOL 1:500
MAGG 3.3 km
REFERENCES:

**** Silverine,Iron Colt,Evening Star,Georgia ****

MINING DIV: Trail Creek ASSESSMENT REPORT 15865 INFO CLASS 3
LOCATION: LAT. 49 05 30 LONG. 117 47 00 NTS:
CLAIMS: Evening Star,Georgia,Georgia Fr.,Mascot,Pott

OPERATOR: Gallant Gold Mines
AUTHOR: Walcott, P.E.
COMMODITIES: Gold,Copper,Silver
DESCRIPTION: Steeply dipping gold-bearing massive sulphide veins are hosted in Upper Paleozoic and Lower Jurassic volcanic and sedimentary rocks, which are intruded by the Trail Batholith and Rossland monzonite.
WORK DONE: IPOL 4.2 km
MAGG 32.8 km
EMGR 30.3 km;HLEM
REFERENCES: A.R. 08971,14236,15432
M.I. 082FSE100-IRON COLT;082FSW102-EVENING STAR;082FSW149-GEORGIA;082FSW286-SILVERINE

**** Top ****

MINING DIV: *** ASSESSMENT REPORT 16672 INFO CLASS 3
LOCATION: LAT. 49 06 58 LONG. 117 47 50 NTS:
CLAIMS: Top 1
OPERATOR: Fidelio Ent.
AUTHOR: Aussant, C.
DESCRIPTION: Within the claim group, the Mount Roberts Formation (Pennsylvanian) is thrust over Rossland Group volcanics (Jurassic). These rocks have been intruded by Nelson granites (Cretaceous-Jurassic) and Coryell syenites (Eocene). Exploration targets are fracture-controlled massive sulphide zones carrying gold values. No mineralization was located.
WORK DONE: MAGG 42.0 km
EMGR 26.3 km;VLF
LINE 47.0 km
REFERENCES:

**** Veruna ****

MINING DIV: Trail Creek ASSESSMENT REPORT 16253 INFO CLASS 4
LOCATION: LAT. 49 00 54 LONG. 117 50 54 NTS:
CLAIMS: Mitzi 1,Veruna 1
OPERATOR: Sage Res.
AUTHOR: Murton, J.
DESCRIPTION: The claims are underlain by Jurassic intermediate to mafic volcanic rocks of the Rossland Group.
WORK DONE: SOIL 74;Mo,Cu,Pb,Zn,Ag
REFERENCES: A.R. 11723

**** Vulcan ****

MINING DIV: *** ASSESSMENT REPORT 16105 INFO CLASS 4
LOCATION: LAT. 49 04 12 LONG. 117 45 42 NTS:
CLAIMS: Vulcan Fr. (L.3397)
OPERATOR: Bragg, D.
AUTHOR:
DESCRIPTION: Mineralized zones occur along fault structures within the Mount Roberts Formation (Pennsylvanian), the Rossland Group (Jurassic) and the Nelson Intrusions (Cretaceous-Jurassic).
WORK DONE: PROS 1:500
MAGG 1.3 km

REFERENCES:

**** JRL ****

MINING DIV: Nelson ASSESSMENT REPORT 16353 INFO CLASS 4
LOCATION: LAT. 49 24 18 LONG. 117 55 00 NTS:
CLAIMS: JRL
OPERATOR: Landis, J.
AUTHOR: Landis, J.
DESCRIPTION: The claim is underlain by Pennsylvanian Mount Roberts Formation sediments.
WORK DONE: EMGR 11.3 km;VLF
ROCK 6;multielement
PROS 1:20 000
REFERENCES:

**** Blackcock ****

MINING DIV: *** ASSESSMENT REPORT 15844 INFO CLASS 3
LOCATION: LAT. 49 19 30 LONG. 117 08 00 NTS:
CLAIMS: Blackcock
OPERATOR: O'Hara Res.
AUTHOR: Hainsworth, W.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: A northerly trending belt of volcanics and sediments of Jurassic age are underlain and cut by granitic plutons of the Nelson Batholith. The trend of flows is from north to northeast with dips steeply to the west. Fissures within the sediments and flows follow the regional pattern but within the granites have an east-west to northeast trend. Gold and silver mineralization associated with base metals, particularly zinc and lead, is contained within pyritic quartz-filled fissures.
WORK DONE: DIAD 227.2 m;5 holes,BQ
REFERENCES: M.I. 082FSW076-BLACKCOCK

**** Euphrates ****

MINING DIV: Nelson ASSESSMENT REPORT 15507 INFO CLASS 3
LOCATION: LAT. 49 23 00 LONG. 117 12 30 NTS:
CLAIMS: Euphrates
OPERATOR: Bourdon, R.
AUTHOR:
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: Gold values are associated with arsenopyrite, pyrite, galena, chalcopyrite and sphalerite mineralization disseminated in quartz stringers, which occur in southwest dipping schistose zones in Elise Formation volcanics of Lower Jurassic age.
WORK DONE: SOIL 183;multielement
ROCK 2;multielement
REFERENCES: A.R. 02598,03719,05721,06139,14353
M.I. 082FSW186-EUPHRATES

**** Ymir (Consolidated) ****

MINING DIV: *** ASSESSMENT REPORT 15524 INFO CLASS 3

LOCATION: LAT. 49 19 24 LONG. 117 10 12 NTS:
CLAIMS: Golden Horn
OPERATOR: Nu Dawn Res.
AUTHOR: Poloni, J.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by the Lower Jurassic-Triassic Ymir Group consisting of argillites, slates, limestone and quartzite, which are cut by quartz-filled shear zones containing gold, silver, lead and zinc values.
WORK DONE: UNDD 161.2 m;2 holes,BQ
SAMP 210;Au,Ag,Pb,Zn
ROTD 297.2 m;5 holes
REFERENCES: A.R. 12562
M.I. 082FSW074-YMIR (CONSOLIDATED)

**** Aurous ****

MINING DIV: Nelson ASSESSMENT REPORT 16161 INFO CLASS 4
LOCATION: LAT. 49 23 48 LONG. 117 23 48 NTS:
CLAIMS: Aurous 1-4
OPERATOR: Ganderton, R.
AUTHOR: Santos, P.
DESCRIPTION: The claims are underlain by Jurassic Rossland Group meta-volcanics. Alteration includes extensive propylitization and silicification. Chalcopyrite, pyrite, and magnetite form zones peripheral to the gold. The mineralization trend is almost north-south with a possible thickness of at least 120 metres.
WORK DONE: SOIL 21;Au,Ag,Cu
LINE 2.9 km
REFERENCES:

**** Gold Mtn,Kena ****

MINING DIV: *** ASSESSMENT REPORT 16594 INFO CLASS 3
LOCATION: LAT. 49 25 33 LONG. 117 16 26 NTS:
CLAIMS: Gold Mtn 1-3,Kena 19,Kena 7,Gold Mtn
OPERATOR: Tournigan Min. Ex.
AUTHOR: Black, P.
COMMODITIES: Gold
DESCRIPTION: The claims appear to be underlain by andesitic tuffs, breccias and flows and Silver King porphyry.
WORK DONE: DIAD 918.9 m;6 holes,NQ
SAMP 89;Au,Ag,Cu
REFERENCES: A.R. 05222,05665,06520,06946,09476,08593,13348,14023,15373

**** Honky Tonk ****

MINING DIV: Nelson ASSESSMENT REPORT 16173 INFO CLASS 4
LOCATION: LAT. 49 23 18 LONG. 117 17 42 NTS:
CLAIMS: Honkey Tonk,Mars,Venus Fr.
OPERATOR: Geostrategic Consul.
AUTHOR: Evans, D.
DESCRIPTION: Copper, gold and silver are hosted in quartz veins/veinlets and silicified zones in Lower Jurassic Elise Formation rocks. Veins range in width from 30 centimetres to 3 metres, dip vertically or

nearly vertically and strike north, north-northeast, northwest and east-northeast. Base and precious metals are closely associated with sulphides, principally chalcopyrite and pyrite.
WORK DONE: SOIL 56;Au,Ag,Cu
REFERENCES: A.R. 11883,12992

**** Schist,Cottonwood ****

MINING DIV: *** ASSESSMENT REPORT 15605 INFO CLASS 4
LOCATION: LAT. 49 24 30 LONG. 117 16 30 NTS:
CLAIMS: Cottonwood,Schist 1-3,Schist Fr.
OPERATOR: Bourdon, R.
AUTHOR: Bourdon, R.
DESCRIPTION: The area prospected is underlain by northwest trending, southwest dipping Elise Formation volcanics, which have been intruded by Silver King porphyry. The volcanics generally consist of chlorite schists resulting from a regional greenschist facies metamorphism and contain northwest trending zones of pyritization and minor sericitization which contain anomalous gold values as well as narrow quartz veins containing minor values of copper, lead, zinc, silver and gold.
WORK DONE: PROS 1:5000
SOIL 39;multielement
ROCK 10;multielement
REFERENCES:

**** Silver 6,Silver 1,Perrier ****

MINING DIV: Nelson ASSESSMENT REPORT 15654 INFO CLASS 3
LOCATION: LAT. 49 27 00 LONG. 117 16 00 NTS:
CLAIMS: Big Mac 1-4,Big Mac Fr.,Perrier 1,Lizzie "C",Silver Hawk
OPERATOR: Penrose Res.
AUTHOR: Jones, H.
COMMODITIES: Gold,Silver,Copper,Lead,Zinc
DESCRIPTION: The property is underlain by argillite, flow breccias, pillow lavas, coarse porphyroblastic flows and biotite tuffites of the Rossland Group. Porphyritic biotite granite and equigranular biotite of the Nelson Batholith outcrop to the west and northwest of the property. Minor feldspar porphyry, basaltic feldspar porphyry and lamprophyre dykes occur locally.
WORK DONE: MAGG 16.0 km
LINE 18.4 km
REFERENCES: A.R. 03091,07377,07393,10605
M.I. 082FSW208-PERRIER;082FSW230-SILVER 1;082FSW231-SILVER 6

**** Star of the East ****

MINING DIV: *** ASSESSMENT REPORT 15573 INFO CLASS 4
LOCATION: LAT. 49 26 30 LONG. 117 16 54 NTS:
CLAIMS: Star of the East
OPERATOR: Bourdon, R.
AUTHOR:
DESCRIPTION: The claim is underlain by northwest trending, steeply southwest dipping andesite flows and tuffs of the Lower Jurassic Elise Formation near the contact with a Silver King porphyry intrusion.

WORK DONE: MAGG 2.7 km
REFERENCES:

**** Star of the West ****

MINING DIV: Nelson ASSESSMENT REPORT 15606 INFO CLASS 4
LOCATION: LAT. 49 26 30 LONG. 117 17 00 NTS:
CLAIMS: Star of the West
OPERATOR: Lacana Min.
AUTHOR: Johnston, R.
COMMODITIES: Lead,Zinc,Silver
DESCRIPTION: The property is underlain by northwest trending, southwest dipping andesite flows and tuffs of the Lower Jurassic Elise Formation, which have been intruded by sills of Silver King porphyry and altered diorite which contain spotty gold anomalies. Discontinuous silicified pods containing stringer galena and sphalerite occur in shears.
WORK DONE: TREN 209.0 m;4 trenches
ROCK 82;multielement
REFERENCES: M.I. O82FSW309-STAR OF THE WEST

**** Tough Nut,Ag ****

MINING DIV: *** ASSESSMENT REPORT 13893 INFO CLASS 3
LOCATION: LAT. 49 26 00 LONG. 117 20 30 NTS:
CLAIMS: AG,Tough Nut
OPERATOR: Addie, G.
AUTHOR: Addie, G.
DESCRIPTION: The claims are underlain by Middle Jurassic Elise Formation porphyritic andesites. Soil geochemistry returned anomalous gold values.
WORK DONE: MAGG 3.5 km
ROCK 35;multielement
SOIL 75;multielement
REFERENCES:

**** Iva Fern ****

MINING DIV: Nelson ASSESSMENT REPORT 15567 INFO CLASS 3
LOCATION: LAT. 49 18 30 LONG. 116 55 12 NTS:
CLAIMS: Fern,Fern 2-3,Iva,Gem,Jewel
OPERATOR: Agincourt Ex.
AUTHOR: Solkoski, L.; Spearing, C.
COMMODITIES: Gold,Silver,Copper,Lead,Zinc
DESCRIPTION: Two significant showings are separated by a soil covered slope which hosts a copper, lead, zinc and silver anomaly. The main workings area has five known concordant mineralized zones consisting of massive chalcopyrite-galena-pyrite up to 1.2 metres thick. The showings occur in the Proterozoic Irene Formation.
WORK DONE: LINE 19.9 km
MAGG 19.9 km
GEOL 1:5000
ROCK 22;Cu,Pb,Zn,Ag,Au
LSUR 1:5000
EMGR 19.9 km;VLF

SOIL 127;Cu,Pb,Zn,Ag
REFERENCES: A.R. 14053
M.I. O82FSE037-IVA FERN

**** CND ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16656 INFO CLASS 2
LOCATION: LAT. 49 25 08 LONG. 116 09 52 NTS:
CLAIMS: CND,CND 2-5
OPERATOR: Partners Oil & Min.
AUTHOR: Bishop, S.
DESCRIPTION: The property lies within a north-northeast trending segment of the Proterozoic portion of the Kootenay area which originated as a thick prograding clastic wedge along the western margin of the North American continental plate. Gold mineralization occurs in three geological settings: large quartz veins up to 20 metres wide, small cross cutting quartz veins 2 metres wide and large shear zones.
WORK DONE: MAGG 47.5 km
EMGR 47.5 km;VLF
SOIL 1090;Au
LINE 47.5 km
REFERENCES:

**** Moyie River ****

MINING DIV: *** ASSESSMENT REPORT 15622 INFO CLASS 3
LOCATION: LAT. 49 23 42 LONG. 116 00 36 NTS:
CLAIMS: Placer Lease 1902
OPERATOR: Queenstake Res.
AUTHOR: Henrick, M.
DESCRIPTION: Overburden drilling to delineate a Tertiary channel terminated in gritty, felsic argillite of the Aldridge Formation.
WORK DONE: HMIN 84;Au
ROTD 276.1 m;20 holes
REFERENCES:

**** Pee Pee ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16606 INFO CLASS 3
LOCATION: LAT. 49 21 25 LONG. 115 59 40 NTS:
CLAIMS: Ram 1-3
OPERATOR: Frost, E.
AUTHOR: O'Grady, F.
COMMODITIES: Lead
DESCRIPTION: The showings on the property consist of five parallel shear zones containing galena, sphalerite and accompanying oxides. The host rocks are thin bedded quartzites of the lower portion of the Proterozoic Middle Aldridge Formation. A diorite sill, believed to be the Hiawatha sill, crosses the claim group from north to south.
WORK DONE: LINE 6.0 km
SILT 11;Pb,Zn
SOIL 108;Pb,Zn
GEOL 1:5000
REFERENCES: M.I. O82GSW038-PEE PEE

**** Perry Creek ****

MINING DIV: *** ASSESSMENT REPORT 15649 INFO CLASS 3
LOCATION: LAT. 49 27 30 LONG. 116 07 24 NTS:
CLAIMS: Winter,Agnes,Anna,Carol 1-8,Cheona,Eclipse,G.D. Sam,Linda 1-7
Lithos 1-4,Lone Eagle,Perry 1-2,Perry 4-5,Petra 9-15,Pioneer
Quartz Creek,Standard
OPERATOR: Gallant Gold Mines
AUTHOR: Hardy, J.
COMMODITIES: Gold,Silver
DESCRIPTION: Helikian Creston, Kitchener and Aldridge Formations are intruded by Moyie sills. Quartz veins localized in shear zones and fractures locally contain high grades of gold over restricted widths.
WORK DONE: DIAD 439.0 m;10 holes,NQ
GEOL 1:10 000,1:5000,1:2500,1:500
SAMP 394;Au
PETR 2 thin sections
REFERENCES: A.R. 08598,13007,14212
M.I. 082FSE087-PERRY CREEK

**** Weaver ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16538 INFO CLASS 3
LOCATION: LAT. 49 25 18 LONG. 116 04 00 NTS:
CLAIMS: Weaver 2,Weaver 4,Weaver 8
OPERATOR: Fenway Res.
AUTHOR: Morris, R.
COMMODITIES: Gold
DESCRIPTION: Moyie sills intrude the Aldridge and Creston Formations (Proterozoic). Major structure is the Baldy fault. Alteration includes quartz-carbonate, sericite and chlorite. Mineralization includes pyrite and minor gold.
WORK DONE: DIAD 456.0 m;15 holes,BQ
SAMP 51;Au,Ag
REFERENCES: M.I. 082FSE029-WEAVER

**** Leader ****

MINING DIV: *** ASSESSMENT REPORT 16009 INFO CLASS 3
LOCATION: LAT. 49 32 42 LONG. 116 07 42 NTS:
CLAIMS: Leader A,Wellington
OPERATOR: Donnex Res.
AUTHOR: Archer, G.
COMMODITIES: Silver,Lead,Zinc,Copper,Tungsten
DESCRIPTION: The claims are underlain by argillites and quartzites of the Proterozoic Creston Formation, dolomitic argillites of the Proterozoic Kitchener and Siyeh Formations and a granodiorite/ pegmatite. The Creston and Kitchener Formations are separated by a north-northeast trending fault (Sawmill fault). The Sawmill fault is the localizing structure for the gold-lead-copper bearing quartz veins.
WORK DONE: ROCK 23;multielement
LINE 54.0 km

SOIL 430;multielement
REFERENCES: A.R. 08163,13011,14112
M.I. 082FNE060-LEADER (WELLINGTON,MASCOT,ECLIPSE)

**** Mat ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16609 INFO CLASS 3
LOCATION: LAT. 49 42 00 LONG. 116 10 55 NTS:
CLAIMS: Mat 265
OPERATOR: Cominco
AUTHOR: Ransom, P.
DESCRIPTION: The drill hole reported on herein intersected sediments of the Middle Proterozoic Aldridge Formation. Pyrrhotite is locally disseminated in a manner typical of the Aldridge Formation regionally.
WORK DONE: DIAD 304.0 m;1 hole,NQ
ROAD 2.0 km
REFERENCES:

**** Mat ****

MINING DIV: *** ASSESSMENT REPORT 16607 INFO CLASS 4
LOCATION: LAT. 49 44 35 LONG. 116 07 00 NTS:
CLAIMS: Mat 112
OPERATOR: Cominco
AUTHOR: Ransom, P.
DESCRIPTION: The drill hole intersected sediments of the Middle Proterozoic Aldridge Formation. Pyrrhotite is locally disseminated in a manner typical of the Aldridge Formation regionally.
WORK DONE: DIAD 96.0 m;1 hole,NQ
REFERENCES:

**** Mat ****

MINING DIV: Fort Steele ASSESSMENT REPORT 15430 INFO CLASS 3
LOCATION: LAT. 49 43 36 LONG. 116 06 48 NTS:
CLAIMS: Mat 64-72,Mat 111-119,Text,Title,Timid,Wax,Weak,Cateh,Cater,Caper
OPERATOR: Cominco
AUTHOR: Ransom, P.; Visser, S.
DESCRIPTION: The drill hole intersected sedimentary rocks of the Middle Proterozoic Aldridge Formation. Pyrrhotite is locally disseminated in a manner typical of the Aldridge Formation regionally.
Borehole geophysical results identified a weak UTEM conductor that correlates with a thin laminated pyrrhotite zone. Surface geophysical results identified a shallow, flat-lying UTEM conductor.
WORK DONE: SAMP 30;Pb,Zn
LINE 18.0 km
DIAD 650.0 m;1 hole,HQ,NQ
EMGR 12.0 km;UTEM
REFERENCES:

**** Paris ****

MINING DIV: *** ASSESSMENT REPORT 15648 INFO CLASS 3
LOCATION: LAT. 49 31 00 LONG. 116 04 00 NTS:
CLAIMS: Paris 1-2

OPERATOR: Imperial Metals
AUTHOR: Gorc, D.
DESCRIPTION: The claims are underlain by grey, grey-green quartzites and argillaceous quartzites of the Creston Formation (Middle Proterozoic). Gold mineralization on nearby claims is thought to be associated with fault systems located along and parallel to Perry Creek. No mineralization has been discovered to date on the Paris claims.
WORK DONE: SOIL 155;multielement
REFERENCES: A.R. 12938,14191

**** Rowan ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16610 INFO CLASS 3
LOCATION: LAT. 49 40 27 LONG. 116 01 24 NTS:
CLAIMS: Rowan
OPERATOR: Cominco
AUTHOR: Ransom, P.
DESCRIPTION: The drill hole intersected sediments of the Middle Proterozoic Aldridge Formation. Pyrrhotite is locally disseminated in a manner typical of the Aldridge Formation regionally.
WORK DONE: ROAD 0.1 km
DIAD 167.0 m;1 hole,NQ
REFERENCES:

**** The Dean (All Over) ****

MINING DIV: *** ASSESSMENT REPORT 16608 INFO CLASS 3
LOCATION: LAT. 49 41 19 LONG. 116 01 21 NTS:
CLAIMS: Quantrell
OPERATOR: Cominco
AUTHOR: Ransom, P.
COMMODITIES: Lead,Zinc,Silver
DESCRIPTION: The drill hole intersected sediments of the Middle Proterozoic Aldridge Formation. Pyrrhotite is present in numerous cross-cutting veins up to 20 centimetres wide and in veins parallel to bedding up to 3 centimetres wide as well as being disseminated in a manner typical of the Aldridge Formation regionally.
WORK DONE: DIAD 151.5 m;1 hole,NQ
REFERENCES: M.I. 082FNW135-THE DEAN (ALL OVER)

**** Commonwealth ****

MINING DIV: Slocan ASSESSMENT REPORT 15933 INFO CLASS 2
LOCATION: LAT. 49 40 00 LONG. 116 40 00 NTS:
CLAIMS: Commonwealth,Hidden Treasure,Hooker,Republic (L.4173)
Republic (L.4176),Sultan
OPERATOR: Rival Min.
AUTHOR: Verzosa, R.S.
COMMODITIES: Lead,Zinc,Silver,Copper
DESCRIPTION: The property is underlain by Precambrian successions of the Windermere and Purcell Series. Quartz stockworks in steeply dipping buff dolomite is accompanied by varying amounts, in disseminations or stringers of galena, tetrahedrite, sphalerite, pyrargyrite and pyrite.
WORK DONE: MAGG 39.8 km

EMGR 34.3 km;VLF
LINE 51.3 km
REFERENCES: A.R. 07947,10463
M.I. 082FNE162-COMMONWEALTH

**** Ben Derby ****

MINING DIV: Nelson ASSESSMENT REPORT 16150 INFO CLASS 3
LOCATION: LAT. 49 36 06 LONG. 116 45 30 NTS:
CLAIMS: Ford 1-2
OPERATOR: Amarado Res.
AUTHOR: Lloyd, J.
COMMODITIES: Molybdenum
DESCRIPTION: The Ford claims cover molybdenite mineralization within and adjacent to a Cretaceous granitic stock. The stock is intruded into quartz-muscovite schists, meta-andesites, and quartzites of the Proterozoic Horsethief Creek Group.
WORK DONE: IPOL 28.6 km
REFERENCES: A.R. 01176,07933
M.I. 082FNE125-BEN DERBY

**** Ram ****

MINING DIV: Slocan ASSESSMENT REPORT 15542 INFO CLASS 3
LOCATION: LAT. 49 41 00 LONG. 116 51 30 NTS:
CLAIMS: Ram
OPERATOR: Lumberton Mines
AUTHOR: McLeod, J.
DESCRIPTION: The claim is underlain by the Cambrian-Devonian Lardeau Group of rocks consisting of alternating zones of schists and quartzites which are intruded by Jurassic-Cretaceous diorite dykes and sills. One small showing of magnetite associated with a diorite intrusive was encountered.
WORK DONE: MAGG 13.8 km
LINE 13.8 km
GEOL 1:1250
REFERENCES:

**** Rock of Ages ****

MINING DIV: *** ASSESSMENT REPORT 16130 INFO CLASS 3
LOCATION: LAT. 49 40 30 LONG. 116 50 00 NTS:
CLAIMS: Goya,Miro,Picasso,Rock of Ages
OPERATOR: Chelik Res.
AUTHOR: Di Spirito, F.; Graham, J.C.
DESCRIPTION: Cambrian-Devonian Lardeau Group metamorphic rocks host granitic intrusions which occur in the northeastern corner of the Rock of Ages property.
WORK DONE: EMAB 168.0 km;VLF
MAGA 64.0 km
REFERENCES:

**** Piedmont (Hope 2) ****

MINING DIV: Slocan ASSESSMENT REPORT 16063 INFO CLASS 3

LOCATION: LAT. 49 43 30 LONG. 117 24 48 NTS:
CLAIMS: Hope 2-7,Hope 9,Quebec
OPERATOR: Noranda Ex.
AUTHOR: Keating, J.
COMMODITIES: Zinc,Lead,Silver
DESCRIPTION: The claims are underlain in part by a roof pendant of Jurassic-Triassic Slocan Group metasediments lying within the Cretaceous-Jurassic Nelson Batholith. The sedimentary rocks strike northwest with shallow dips to the southwest. Two massive sulphide showings are present. One is skarnified sediment-hosted sphalerite, galena, pyrite and pyrrhotite at or near the granodiorite contact and the other is stratiform pyrite, pyrrhotite, sphalerite and galena.
WORK DONE: LINE 10.9 km
SOIL 410;Au,Cu,Pb,Zn,Ag
REFERENCES: A.R. 12980,14764
M.I. O82FNW129-PIEDMONT (HOPE 2)

**** Dodge ****

MINING DIV: Nelson ASSESSMENT REPORT 15604 INFO CLASS 3
LOCATION: LAT. 49 02 00 LONG. 116 38 30 NTS:
CLAIMS: Dodge 1-3
OPERATOR: Cominco
AUTHOR: Visser, S.
DESCRIPTION: The Dodge property is underlain by the Precambrian Middle Aldridge Formation, consisting mainly of metawacke and metaquartzitic wacke. Metasediments which underlie the property appear (very limited outcrop) to form a northeast plunging syncline, that is complicated by north trending faults. The property hosts a lead-zinc soil anomaly. The source of the anomaly at this time is unknown.
WORK DONE: MAGG 9.0 km
EMGR 9.0 km;HLEM
REFERENCES: A.R. 14951

**** Gold Till ****

MINING DIV: Slocan ASSESSMENT REPORT 16540 INFO CLASS 3
LOCATION: LAT. 49 59 36 LONG. 117 46 00 NTS:
CLAIMS: Gold Till 1-3
OPERATOR: Dragoon Res.
AUTHOR: Murray, J.
DESCRIPTION: A metasediment-metavolcanic package, occasionally pyritic, is sandwiched between intrusive monzonitic and dioritic stocks (Cretaceous Goat Canyon-Halifax Creek and Lower Cariboo Creek stocks).
WORK DONE: SOIL 213;Cu,Pb,Zn,Ag,Au
TREN 300.0 m;3 trenches
PITS 2
REFERENCES:

**** Bismark,Gold Cure ****

MINING DIV: *** ASSESSMENT REPORT 15543 INFO CLASS 3
LOCATION: LAT. 49 53 00 LONG. 117 04 54 NTS:
CLAIMS: Crown Point (L. 5297)

OPERATOR: St. James Min.
AUTHOR: Evans, D.
COMMODITIES: Lead,Silver
DESCRIPTION: The claims are underlain by Triassic Slocan Group sedimentary and metasedimentary rocks that are folded into a syncline. Faulting, shearing and metasomatism accompany pyrite, sphalerite and galena in a hydrothermal vein system.
WORK DONE: DIAD 503.8 m;7 holes,NQ
SAMP 90;Pb,Zn,Ag,Au,Cd
REFERENCES: A.R. 08437,12146
M.I. O82FNW185-GOLD CURE;O82FNW096-BISMARK

**** Black Bear ****

MINING DIV: Slocan ASSESSMENT REPORT 16415 INFO CLASS 4
LOCATION: LAT. 49 55 00 LONG. 117 04 00 NTS:
CLAIMS: Last Chance (L.12853),Mastodon (L.4902),Black Bear (L.10783)
Last Chance 1-5,Manhattan (L.4540)
OPERATOR: Saalfeld, R.
AUTHOR: Linn, M.
COMMODITIES: Lead,Silver
DESCRIPTION: The presently known mineralized shoot lies within a shear zone up to 4.6 metres wide. As indicated by drilling the shear zone is near the contact between a feldspar porphyry apophysis of the Cretaceous-Jurassic Nelson Batholith and the enclosing Jurassic-Triassic Slocan Group sediments.
WORK DONE: DIAD 37.8 m;1 hole,NQ
REFERENCES: M.I. O82FNW092-BLACK BEAR

**** Cat ****

MINING DIV: *** ASSESSMENT REPORT 16556 INFO CLASS 3
LOCATION: LAT. 49 55 00 LONG. 117 02 30 NTS:
CLAIMS: Cat 1-2
OPERATOR: Morrison, L.
AUTHOR:
DESCRIPTION: The property is underlain by phyllite, argillite, calcareous argillite and limestone of the Jurassic-Triassic Slocan Group. Bedding strikes mostly north-northwest and dips steeply northeast but a few north-northeast strikes were noted. Joints and shears strike northeast and dip steeply southeast. There are several old silver-lead-zinc workings in the vicinity, but no mineralization has yet been found on the property.
WORK DONE: GEOL 1:5000
ROCK 40;Ag,Pb,Cu,Zn
SOIL 120;Ag,Pb,Cu,Zn
REFERENCES:

**** Condor ****

MINING DIV: Slocan ASSESSMENT REPORT 16247 INFO CLASS 4
LOCATION: LAT. 49 55 48 LONG. 117 15 36 NTS:
CLAIMS: Iron Mask,Condor
OPERATOR: Goldsmith, L.
AUTHOR: Goldsmith, L.

DESCRIPTION: Clastic sediments of the Triassic-Jurassic Slocan Group are cut by a northeasterly trending shear zone which is exposed on the Iron Mask claim. Sphalerite occurs in the shear zone.
WORK DONE: SOIL 17;Ag,Pb,Zn
REFERENCES:

**** Dorothy ****

MINING DIV: *** ASSESSMENT REPORT 15774 INFO CLASS 4
LOCATION: LAT. 49 58 12 LONG. 117 14 36 NTS:
CLAIMS: Irene Fr.
OPERATOR: Dickenson Mines
AUTHOR: Makepeace, D.
COMMODITIES: Silver,Lead,Zinc
DESCRIPTION: The property is within the Slocan Group sedimentary rocks of Triassic age. Two lode structures are on the claim. The "Minnie-Ha-Ha" lode strikes east-west and dips approximately 30 degrees to the south. The "Dorothy" lode strikes north-south and dips approximately 60 degrees to the east. A 51.8 metre trench was dug in 1986 to expose the "Dorothy" lode. Thirty metres of the trench exposed a combination of "sheared" and "fragmental" type lode breccia. No economic mineralization was exposed in the trench.
WORK DONE: TREN 51.8 m;1 trench
SAMP 13;Ag,Pb,Zn
GEOL 1:120
REFERENCES: M.I. 082FNW051-DOROTHY

**** Payne,Mercury ****

MINING DIV: Slocan ASSESSMENT REPORT 15628 INFO CLASS 3
LOCATION: LAT. 50 00 00 LONG. 117 14 00 NTS:
CLAIMS: Donnelly,Argentite 2,Ocean,Mercury
OPERATOR: Yukon Min.
AUTHOR: Dasler, P.G.; Smith, F.
COMMODITIES: Lead,Zinc,Silver
DESCRIPTION: A series of shear zones traverse the Lower Jurassic-Triassic Slocan Group sediments, mainly comprising graphitic argillites. These zones intermittently host quartz-siderite veins carring silver-lead-zinc mineralization. The Mercury Mine produced 978.4 kilograms of silver, and the adjacent Payne Mine produced 115 070 kilograms of silver.
WORK DONE: SAMP 74;Au,Ag
UNDV rehab. old workings
PETR 1 thin section
ROAD 2.9 km
TREN 150.0 m;2 trenches
GEOL 1:4000,1:2500,1:2000,1:1500,1:500
REFERENCES: M.I. 082FNW016-MERCURY;082KSW006-PAYNE

**** Silver Bear,Index,Silver Bell ****

MINING DIV: *** ASSESSMENT REPORT 16587 INFO CLASS 3
LOCATION: LAT. 49 52 05 LONG. 117 06 59 NTS:
CLAIMS: Broughton,Silver Bear,Silver Bear 1-2,Silver Bell
Silver Bear Connection,Connection Fr.,Hartford,Susquehanna

Broughton 1-4
OPERATOR: Strand Res.
AUTHOR: Rockel, E.
COMMODITIES: Silver,Lead,Zinc,Gold
DESCRIPTION: The Bismark property is underlain by Jurassic-Triassic Slocan Group sedimentary and metasedimentary rocks. These rocks have been folded into a synclinal wedge bounded on the north and south by Cretaceous Jurassic Nelson Intrusions. Faulting, shearing and metasomatism accompanied intrusive activities and are directly related to the formation of vein and replacement deposits of lead-zinc-silver.
WORK DONE: SOIL 444;multielement
ROCK 13;Au,Ag,Pb,Zn
LINE 18.5 km
ROAD 2.6 km
GEOL 1:5000
IPOL 4.8 km
REFERENCES: A.R. 13328,14479
M.I. 082FNW100-SILVER BEAR;082FNW101-INDEX;082FNW186-SILVER BELL

**** Evening Star No 9 ****

MINING DIV: Slocan ASSESSMENT REPORT 15893 INFO CLASS 4
LOCATION: LAT. 49 47 15 LONG. 117 27 23 NTS:
CLAIMS: Evening Star No. 9,Evening Star No. 9 Fr.
OPERATOR: Stewart, R.
AUTHOR:
DESCRIPTION: The claims are located in an alternating sequence of granite and sedimentary contacts of the Slocan Group. Adjacent mines encountered "dry ore" associated with quartz veins. Best results from a soil sample are 182 ppm lead, 719 ppm zinc, 1.4 ppm silver and 6 ppb gold.
WORK DONE: PROS 1:2500
ROCK 2;multielement
PETR 1 sample
SOIL 18;multielement
REFERENCES:

**** Harco ****

MINING DIV: *** ASSESSMENT REPORT 15941 INFO CLASS 4
LOCATION: LAT. 49 52 00 LONG. 117 19 00 NTS:
CLAIMS: Harco 8-11
OPERATOR: Blanchet, D.
AUTHOR: Robins, J.
DESCRIPTION: The entire property is underlain by Nelson intrusives, predominantly a potassium feldspar porphyritic granite with minor quartz diorite and quartz monzonite phases. No mineralization was seen in outcrop.
WORK DONE: PROS 1:10 000
REFERENCES:

**** Haro ****

MINING DIV: Slocan ASSESSMENT REPORT 15782 INFO CLASS 4

LOCATION: LAT. 49 52 54 LONG. 117 18 48 NTS:
CLAIMS: Haro 8-11
OPERATOR: Blanchet, D.
AUTHOR:
DESCRIPTION: The highest results obtained were 95 ppb gold and 0.8 ppm silver in 36 soil samples taken on two lines along the length of the property.
WORK DONE: SOIL 36;Au,Ag
PROS 1:10 000
REFERENCES:

**** JR ****

MINING DIV: *** ASSESSMENT REPORT 16249 INFO CLASS 3
LOCATION: LAT. 49 48 42 LONG. 117 26 42 NTS:
CLAIMS: JR 2
OPERATOR: Manny Consul.
AUTHOR: Santos, P.
DESCRIPTION: Gold and silver bearing quartz veins with galena, sphalerite, and tetrahedrite cut altered Cretaceous-Jurassic Nelson intrusives and altered Early Mesozoic gneisses of the Milford Group. Veins trend northwest and dip to the northeast. Three gold geochemical anomalies with associated high lead, zinc, silver, arsenic and copper values were identified in a soil sampling survey.
WORK DONE: GEOL 1:2500
SOIL 302;multielement
REFERENCES:

**** Jumbo (Mary) ****

MINING DIV: Slocan ASSESSMENT REPORT 16336 INFO CLASS 4
LOCATION: LAT. 49 48 24 LONG. 117 17 06 NTS:
CLAIMS: Jumbo
OPERATOR: Ortona Res.
AUTHOR: Coombes, S.
COMMODITIES: Gold,Silver
DESCRIPTION: Gold, silver, lead and zinc mineralization in carbonate-quartz hydrothermal veins occur within the Cretaceous-Jurassic Nelson Batholith. Veins trend roughly north and range in width up to one metre.
WORK DONE: ROCK 16;Au,Ag
GEOL 1:1000
PETR 3 thin sections
REFERENCES: A.R. 12648
M.I. 082FNW208-JUMBO (MARY)

**** Kalispel ****

MINING DIV: *** ASSESSMENT REPORT 15801 INFO CLASS 3
LOCATION: LAT. 49 51 42 LONG. 117 24 00 NTS:
CLAIMS: Kalispel,Leona 4
OPERATOR: American Platinum
AUTHOR: Santos, J.
COMMODITIES: Silver
DESCRIPTION: Gold and silver-bearing quartz veins cut highly altered

granodiorite belonging to the Mesozoic Nelson Intrusions.
WORK DONE: DIAD 257.8 m;2 holes,NQ
SAMP 131;Au,Ag,Pb,Zn,Mo
REFERENCES: A.R. 09899
M.I. 082FNW166-KALLSPEL

**** LH ****

MINING DIV: Slocan ASSESSMENT REPORT 16665 INFO CLASS 3
LOCATION: LAT. 49 53 30 LONG. 117 19 56 NTS:
CLAIMS: LH
OPERATOR: Noranda Ex.
AUTHOR: Keating, J.; Mitchell, I.
COMMODITIES: Gold,Copper
DESCRIPTION: The property is underlain by a roof pendant of Jurassic Rossland Group rocks (volcaniclastics and sediments) within the granodioritic intrusives of the Cretaceous-Jurassic Nelson Batholith. A number of small, Tertiary intrusive stocks of syenitic to gabbroic composition have intruded the older rocks resulting in widespread fracturing, hydrothermal alteration and sulphide mineralization. The gold occurrences on the property are associated with pyrrhotite-arsenopyrite-pyrite mineralization in major shear zones which have been variably silicified, chloritized and/or clay altered.
WORK DONE: DIAD 284.5 m;1 hole,NQ
SAMP 223;Au,Ag,Cu,Pb,Zn,Mo,As
REFERENCES: A.R. 15747
M.I. 082FNW212-LH

**** Riverside ****

MINING DIV: *** ASSESSMENT REPORT 16636 INFO CLASS 4
LOCATION: LAT. 49 48 36 LONG. 117 18 46 NTS:
CLAIMS: Autumn,Riverside
OPERATOR: Strato Geological Eng.
AUTHOR: Butler, S.
COMMODITIES: Silver,Lead,Zinc
DESCRIPTION: Cretaceous-Jurassic Nelson Batholith porphyritic granodiorites underlie the claim area. Mineralogy consists mainly of quartz, feldspar, and biotite. Mineralization occurs in veins within shears and fractures. In the vicinity of adit 1, the granite is much more altered and several small shear zones are found in the walls of the adit.
WORK DONE: GEOL 1:1000
SOIL 45;Cu,Pb,Zn,As,Cd,Au
ROCK 1;Cu,Pb,Zn,As,Cd,Au
REFERENCES: A.R. 08513
M.I. 082FNW144-RIVERSIDE

**** Rky-Dky ****

MINING DIV: Slocan ASSESSMENT REPORT 15800 INFO CLASS 2
LOCATION: LAT. 49 49 00 LONG. 117 24 00 NTS:
CLAIMS: Dky,Rky
OPERATOR: Trac Res.
AUTHOR: Santos, P.

COMMODITIES: Silver,Gold
DESCRIPTION: Gold and silver-bearing quartz veins cut porphyritic granite belonging to the Nelson Intrusions (Mesozoic). Propylitic and argillic alteration is prevalent in the wall rock.
WORK DONE: DIAD 1037.9 m;10 holes,NQ
SAMP 192;multielement
REFERENCES: A.R. 12986
M.I. 082FNW256-RKY-DKY

**** Silver Ridge ****

MINING DIV: *** ASSESSMENT REPORT 15444 INFO CLASS 4
LOCATION: LAT. 49 59 36 LONG. 117 16 00 NTS:
CLAIMS: Silver Ridge
OPERATOR: Skylark Res.
AUTHOR: Krause, R.
DESCRIPTION: The claims are underlain by Triassic Slocan Group massive argillites and quartzites. These sedimentary rocks are intruded by numerous felsic-intermediate dykes. The drill hole intersected massive argillites with interbedded quartzites.
WORK DONE: DIAD 68.6 m;1 hole,NQ
REFERENCES:

**** Speculator ****

MINING DIV: Slocan ASSESSMENT REPORT 16218 INFO CLASS 3
LOCATION: LAT. 49 48 12 LONG. 117 20 30 NTS:
CLAIMS: Gam 1-2
OPERATOR: Lightning Creek Mines
AUTHOR: Freeze, J.
COMMODITIES: Lead,Silver,Zinc,Barium
DESCRIPTION: Silver mineralization occurs in veins, shears and replacements usually with lead and/or zinc mineralization.
WORK DONE: SOIL 193;multielement
ROCK 5;multielement
REFERENCES: M.I. 082FNW151-SPECULATOR

**** Prince,Golden ****

MINING DIV: *** ASSESSMENT REPORT 16288 INFO CLASS 3
LOCATION: LAT. 49 46 00 LONG. 116 57 12 NTS:
CLAIMS: Dragon South,Golden,Golden Dragon,Margaret,Prince 1-4
OPERATOR: La Ronge Res.
AUTHOR: Butler, S.
DESCRIPTION: The claim is underlain by a package of northerly trending sedimentary and volcanic rocks of late Paleozoic and Mesozoic age. These include sediments and their metamorphic equivalents of the Milford and Slocan Groups. Interbedded between them are the metamorphic volcanics of the Triassic Kaslo Group. Also intruding the preceeding is the Cretaceous-Jurassic Nelson Batholith and related dykes. Tertiary mineralization is in quartz veins and replacements along fractures in limestone and consists of galena, sphalerite and pyrite.
WORK DONE: ROCK 2;Cu,Pb,Zn,Ag,As,Au
SOIL 248;Cu,Pb,Zn,Ag,As

GEOL 1:20 000
SILT 13;multielement
REFERENCES: A.R. 12572

**** True Blue ****

MINING DIV: Slocan ASSESSMENT REPORT 16623 INFO CLASS 3
LOCATION: LAT. 49 53 30 LONG. 116 57 34 NTS:
CLAIMS: Blue,Kas 6,Lo 5,True,True Blue,Kas 2,Kaslo,Copper Queen
True Blue Fr.
OPERATOR: QPX Min.
AUTHOR: Lee, L.
COMMODITIES: Copper
DESCRIPTION: Metamorphosed sedimentary and volcanic rocks of the Mississippian Milford Group host a small occurrence of banded polymetallic volcanogenic massive sulphide mineralization. Both mafic and felsic metavolcanic rocks are cut by large subvolcanic(?) dioritic sills and dykes.
WORK DONE: GEOL 1:5000
SOIL 455;multielement
SILT 5;multielement
ROCK 57;multielement
LINE 4.0 km
ROAD 5.3 km
REFERENCES: A.R. 07587,09428,10336,15294
M.I. 082FNE002-TRUE BLUE

**** Verna (Dorothy) ****

MINING DIV: *** ASSESSMENT REPORT 15793 INFO CLASS 3
LOCATION: LAT. 49 47 18 LONG. 116 55 12 NTS:
CLAIMS: Verna,Dorothy 3
OPERATOR: Cascadia Mines & Res.
AUTHOR: Timmins, W.
COMMODITIES: Gold,Silver,Zinc,Lead,Copper
DESCRIPTION: The claims are underlain by limy schists and impure quartzites of the Cambrian Hamill Group. Current soil results show a narrow area of anomalous values of zinc and erratic single point zinc and silver anomalies.
WORK DONE: SOIL 138;Pb,Zn,Ag
REFERENCES: A.R. 06582,08050
M.I. 082FNE153-VERNA (DOROTHY)

Fernie 082G

**** Flathead ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16676 INFO CLASS 2
LOCATION: LAT. 49 10 17 LONG. 114 36 04 NTS:
CLAIMS: Flathead 1-2,Flathead 6,Flathead 8-12
OPERATOR: Dome Ex. Can.
AUTHOR: Cameron, R.; Fox, P.
COMMODITIES: Gold
DESCRIPTION: A block-faulted assemblage of Devonian, Mississippian and Permian

limestones, dolomites, shales and quartzites have been intruded by Cretaceous trachyte stocks. Local contact effects include silicification and formation of marble and calc-silicate skarn. Gold soil anomalies occur over the stocks and surrounding limestones.
WORK DONE: SOIL 339;multielement
ROCK 39;multielement
DIAD 1261.9 m;10 holes,BQ
SAMP 836:Au
REFERENCES: A.R. 15359
M.I. 082GSE070-FLATHEAD

**** Howe ****

MINING DIV: *** ASSESSMENT REPORT 16258 INFO CLASS 3
LOCATION: LAT. 49 11 54 LONG. 114 37 42 NTS:
CLAIMS: Howe 1,Howe 4-6
OPERATOR: Dome Ex. Can.
AUTHOR: Cameron, R.
DESCRIPTION: A thrust fault brings Elko Formation limestones on top of a sequence of Triassic Spray River Formation shales and siltstone, Permian Rocky Mountain Formation quartz arenite and Mississippian Rundle Group limestones. Clay altered trachyte intrusions are present in the hanging wall of the fault and may be the source for the geochemical anomalies.
WORK DONE: SOIL 525;multielement
GEOL 1:5000
LINE 25.0 km
REFERENCES: A.R. 15035

**** Vine ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16456 INFO CLASS 3
LOCATION: LAT. 49 27 00 LONG. 115 44 36 NTS:
CLAIMS: Vine 54,Vine 56,Vine 58
OPERATOR: Cominco
AUTHOR: Hagen, A.
DESCRIPTION: The Vine claims cover northeast and east dipping Proterozoic Middle Aldridge Formation sediments, composed predominantly of bedded quartzwackes, quartzitic wackes and wackes intruded by gabbro sills and dykes. The area is bounded by three major faults; the east trending Cranbrook Fault on the north, the northwest trending Gold Creek Fault on the east and the northeast trending Moyie Fault on the southeast. To date, no mineralization of ecomonic significance has been found on the property.
WORK DONE: DIAD 661.3 m;2 holes,HQ,NQ
REFERENCES:

**** Sandy ****

MINING DIV: *** ASSESSMENT REPORT 16681 INFO CLASS 3
LOCATION: LAT. 49 15 27 LONG. 115 50 43 NTS:
CLAIMS: ML 62
OPERATOR: Cominco
AUTHOR: Anderson, D.
DESCRIPTION: The Sandy and Ald claims are underlain by Proterozoic Middle

Aldridge Formation sediments. The sediments are predominantly quartzitic wacke turbidites argillaceous packages. This sequence has been intruded by Moyie and finer grained inter-turbidite gabbro intrusive sills and dykes. The major structure is a major, open, gently north-plunging anticline.
WORK DONE: SAMP 403;Pb,Zn
REFERENCES:

**** Cedar ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16221 INFO CLASS 4
LOCATION: LAT. 49 23 18 LONG. 115 13 42 NTS:
CLAIMS: Cedar 1,Cedar 3,Cedar 5
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: Proterozoic Aldridge, Creston and Kitchener Formations consisting of argillite, quartzite, limestone, dolomite and tuff outcrop on both sides of the Rocky Mountain Trench which is underlain by Paleozoic limestone, dolomite, shale and sandstone. A major structure adjacent to and in the Trench is complex.
WORK DONE: ROAD 6.0 km
PERD 47.2 m;2 holes
REFERENCES:

**** Cedar ****

MINING DIV: *** ASSESSMENT REPORT 15051 INFO CLASS 4
LOCATION: LAT. 49 22 48 LONG. 115 16 06 NTS:
CLAIMS: Cedar 1-3,Cedar 5
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The claims appear to be underlain by Precambrian Aldridge Formation sediments. The percussion drill hole did not reach bedrock.
WORK DONE: PERD 18.0 M;1 HOLE
ROAD 7.3 KM
REFERENCES: A.R. 15051

**** Dogwood ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16235 INFO CLASS 4
LOCATION: LAT. 49 24 00 LONG. 115 12 42 NTS:
CLAIMS: Dogwood 10,Dogwood 8
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: Proterozoic Aldridge Formation argillite, argillaceous quartzite and quartzite underlies the claims. Folding is minimal and faulting is northeast to northwest. Limited intrusives include diorite, granodiorite and lamprophyres. Mineralized shears and disseminations include pyrite, pyrrhotite, chalcopyrite and galena.
WORK DONE: PERD 56.4 m;1 hole
ROAD 6.0 km
REFERENCES:

**** Elderberry ****

MINING DIV: *** ASSESSMENT REPORT 16500 INFO CLASS 3
LOCATION: LAT. 49 20 18 LONG. 115 09 30 NTS:
CLAIMS: Elderberry 6
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The claims are underlain by Mississippian Exshaw and Banff Formation limestone, shale and siltstone, Mississippian Rundle Group limestone and siltstone, Upper Devonian Palliser, Fairholme and Alexo Formation limestone and dolomite, Upper Cambrian Jubilee and Elko dolomite, Middle Cambrian Burton shale, limestone, sandstone and conglomerate and Precambrian Roosville quartzite, limestone and argillite.
WORK DONE: ROTD 122.8 m;2 holes
REFERENCES:

**** Elderberry ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16448 INFO CLASS 4
LOCATION: LAT. 49 20 06 LONG. 115 09 12 NTS:
CLAIMS: Elderberry 4
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The Elderberry 3 and 4 claims are underlain by Upper Devonian limestone, argillaceous limestone and sandstone, and Mississippian limestone, limy siltstone and black shale. The well bedded strata strike north and dip 20 to 30 degrees west.

The Rimrock workings, exposing copper, silver and gold mineralization are located in the central east area of the Elderberry 4 claim.
WORK DONE: ROTD 74.0 m;2 holes
REFERENCES:

**** Elderberry ****

MINING DIV: *** ASSESSMENT REPORT 16328 INFO CLASS 3
LOCATION: LAT. 49 24 30 LONG. 115 07 42 NTS:
CLAIMS: Elderberry 13-14
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: Proterozoic Aldridge and Creston Formations are faulted over Devonian Fairholm Formation limestone, dolomite, quartzite, argillite and siltstone. Barite occurs within an altered and northwest striking shear zone with copper mineralization.
WORK DONE: PERD 141.1 m;1 hole
ROAD 2.0 km
REFERENCES:

**** Alder ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16329 INFO CLASS 3

LOCATION: LAT. 49 27 18 LONG. 115 24 42 NTS:
CLAIMS: Alder 6
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The drill cuttings are composed of light to dark grey limestone similar to the Upper Devonian limestone which outcrops within the Rocky Mountain Trench to the east of the drill site.
WORK DONE: PERD 147.2 m;1 hole
REFERENCES:

**** Aspen ****

MINING DIV: *** ASSESSMENT REPORT 15624 INFO CLASS 3
LOCATION: LAT. 49 29 30 LONG. 115 22 00 NTS:
CLAIMS: Aspen 9
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The property is located on the east side of the northwesterly trending Rocky Mountain Trench fault. Outcrops are evident to the west and are composed of Rundle Group limestone. Similarly, to the east are exposed Precambrian Aldridge Formation quartzite and argillite.
WORK DONE: ROTD 463.0 m;4 holes
REFERENCES:

**** Aspen ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16490 INFO CLASS 4
LOCATION: LAT. 49 25 06 LONG. 115 23 12 NTS:
CLAIMS: Aspen 2
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: Small outcrops north and southwest of the drill hole expose Devonian and Mississippian strata. The structure is complex, and major faults strike northwesterly with cross faults trending east to north and northeast.
WORK DONE: ROTD 71.9 m;1 hole
REFERENCES:

**** Aspen ****

MINING DIV: *** ASSESSMENT REPORT 15858 INFO CLASS 3
LOCATION: LAT. 49 29 54 LONG. 115 25 42 NTS:
CLAIMS: Aspen 11
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The claims may be underlain by the contacts between Proterozoic Aldridge, Creston, Kitchener and Siyeh Formation rocks.
WORK DONE: ROTD 131.0 m;4 holes
REFERENCES:

**** Aspen ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16030 INFO CLASS 4
LOCATION: LAT. 49 26 36 LONG. 115 23 18 NTS:

CLAIMS: Aspen 3
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The claim is underlain by Mississippian Rundle Group limestone that strikes west and dips south. Drill results are inconclusive.
WORK DONE: DIAD 67.0 M;1 HOLE,NQ
REFERENCES: A.R. 12998,15030

**** Aspen 11 ****

MINING DIV: *** ASSESSMENT REPORT 15653 INFO CLASS 4
LOCATION: LAT. 49 29 30 LONG. 115 26 00 NTS:
CLAIMS: Aspen 11
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The claims are underlain by the Precambrian Aldridge Formation and granitic intrusions. To the west are Devonian and Mississippian limestone and sandstone which are intruded by quartz monzonite and granodiorite dykes.
WORK DONE: ROTD 61.5 m;1 hole
REFERENCES: A.R. 12997

**** Balsam ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16260 INFO CLASS 3
LOCATION: LAT. 49 26 48 LONG. 115 18 54 NTS:
CLAIMS: Balsam 7
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The claims are underlain by flat-lying Proterozoic Aldridge Formation grey to black banded argillite, siltstone and quartzite. Narrow siderite-quartz veins with pyrite, pyrrhotite and chalcopyrite occur in thin fractures and disseminations.
WORK DONE: PERD 122.8 m;1 hole
REFERENCES:

**** Balsam ****

MINING DIV: *** ASSESSMENT REPORT 16261 INFO CLASS 3
LOCATION: LAT. 49 26 48 LONG. 115 19 42 NTS:
CLAIMS: Balsam 8
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The claims are underlain by Proterozoic Aldridge Formation grey to black banded argillite, siltstone and quartzite. Narrow siderite-quartz veins with pyrite, pyrrhotite and chalcopyrite occur in thin fractures and disseminations.
WORK DONE: PERD 115.2 m;1 hole
REFERENCES:

**** Cedar,Great Western ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16222 INFO CLASS 3
LOCATION: LAT. 49 26 42 LONG. 115 16 00 NTS:
CLAIMS: Cedar 10

OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
COMMODITIES: Copper,Silver,Lead,Zinc,Gold
DESCRIPTION: The claims are underlain by thin-bedded, flat-lying Proterozoic Aldridge Formation grey to black banded argillite, siltstone and argillaceous quartzite. Mineralization consists of narrow veins of siderite-quartz with pyrite, pyrrhotite and chalcopyrite and thin fractures filled with pyrrhotite and pyrite.
WORK DONE: DIAD 801.0 m;1 hole,BQ
REFERENCES: A.R. 03439,05900,05901,05904,05905,05906,07086,08014,08137
M.I. 082GSW040-GREAT WESTERN;082GSW054-CEDAR

**** Harvey ****

MINING DIV: *** ASSESSMENT REPORT 16257 INFO CLASS 3
LOCATION: LAT. 49 16 18 LONG. 114 41 18 NTS:
CLAIMS: Harvey 1-4
OPERATOR: Dome Ex. Can.
AUTHOR: Cameron, R.
DESCRIPTION: Rocks present are a sequence of Triassic Spray River Formation shales and siltstone, Permian Rocky Mountain Group quartz arenite and Mississippian Rundle Group limestones. Clay-altered syenite plugs and dykes intrude the sequence. Source rocks for the geochemical anomalies appear to be clay-altered limonitic stocks.
WORK DONE: LINE 20.0 km
GEOL 1:5000
ROCK 10;multielement
SOIL 401;multielement
REFERENCES:

**** Bull River Mine ****

MINING DIV: Fort Steele ASSESSMENT REPORT 15471 INFO CLASS 3
LOCATION: LAT. 49 30 06 LONG. 115 22 42 NTS:
CLAIMS: Steeples 12
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
COMMODITIES: Copper,Silver,Gold
DESCRIPTION: Near the Bull River Mine Proterozoic Aldridge Formation quartzite, argillaceous quartzite and argillite show minor local folding and faulting. These metasedimentary rocks are intruded by dioritic dykes and granodiorite bodies. Quartz-calcite-siderite veins are mineralized with chalcopyrite, pyrite, pyrrhotite, and locally galena.
WORK DONE: ROTD 346.0 m;7 holes
REFERENCES: A.R. 03439,05900,05901,05904,05906,07086,08014,08531,08584,08695 10075,10891,11681,12575,13377
M.I. 082GNW002-BULL RIVER MINE

**** Dibble,Box ****

MINING DIV: *** ASSESSMENT REPORT 15868 INFO CLASS 3
LOCATION: LAT. 49 35 48 LONG. 115 26 00 NTS:
CLAIMS: Axe,Beaver Fr.,Big Three,Box,Emerald,Foster,Last Chance Fr.,Lynx Pix I-II,Richmond Hill

OPERATOR: F & B Silver
AUTHOR: Olfert, E.G.
COMMODITIES: Copper,Silver,Gold,Lead
DESCRIPTION: Structurally controlled mineralization occurs in quartz veins hosted in the Proterozoic Aldridge and Creston Formations. Lead-zinc-silver-gold geochemical anomalies occur in areas underlain by black shales of the Aldridge Formation.
WORK DONE: SILT 8;multielement
ROCK 69;multielement
TREN 24.0 m;1 trench
EMGR 12.0 km;VLF
GEOL 1:1000
SOIL 64;multielement
REFERENCES: A.R. 08864,10415,11223,15052
M.I. 082GNW003-DIBBLE;082GNW051-BOX

**** Steeples ****

MINING DIV: Fort Steele ASSESSMENT REPORT 15691 INFO CLASS 3
LOCATION: LAT. 49 32 48 LONG. 115 18 48 NTS:
CLAIMS: Steeples 2,Steeples 5,Steeples 7,Steeples 10,Steeples 26,Steeples 30 Steeples 40
OPERATOR: Stanfield, R.
AUTHOR: Allen, A.
DESCRIPTION: The claims are underlain by Proterozoic Aldridge, Creston, Kitchener and Siyeh Formation rocks except on the west and east boundaries where Devonian-Mississippian limestones are exposed. Major faulting is evident at the boundaries. Granite and diorite dykes intrude the country rocks.
WORK DONE: ROTD 553.0 m;8 holes
REFERENCES:

**** Victor ****

MINING DIV: *** ASSESSMENT REPORT 16396 INFO CLASS 3
LOCATION: LAT. 49 36 32 LONG. 115 27 11 NTS:
CLAIMS: Ax,Lynx,Pix I-II,Vic 1-2
OPERATOR: Montreux Dev.
AUTHOR: Ditson, C.
COMMODITIES: Lead,Zinc,Silver,Gold
DESCRIPTION: Steeply dipping quartz veins in the Proterozoic Creston Formation carry lead, zinc and minor copper with gold and silver values. The Creston Formation trends slightly east of north, dipping steeply to the west. The Horseshoe Fault crosses the eastern part of the claim group in a northeasterly direction. Mineralized quartz veins are fault-related.
WORK DONE: GEOL 1:5000,1:500
SOIL 168;multielement
ROCK 191;multielement
LINE 5.9 km
ROAD 9.5 km
TREN 2.0 m;1 trench
REFERENCES: A.R. 08864,10415,11223,15052,15868
M.I. 082GNW004-VICTOR

**** Big Bend Boy,Honeycomb ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16444 INFO CLASS 4
LOCATION: LAT. 49 44 42 LONG. 115 30 48 NTS:
CLAIMS: Big Bend Boy,Honey Comb
OPERATOR: Luke, W.
AUTHOR: Morris, R.
DESCRIPTION: Proterozoic Purcell Supergroup (Creston Formation) folded sediments occur on the hanging wall of a thrust fault. Quartz veins are evident.
WORK DONE: PROS 1:500
REFERENCES:

**** Dardanelle ****

MINING DIV: *** ASSESSMENT REPORT 16327 INFO CLASS 3
LOCATION: LAT. 49 42 30 LONG. 115 32 00 NTS:
CLAIMS: Dardanelle
OPERATOR: Justice Min.
AUTHOR: Groves, W.
COMMODITIES: Gold,Silver,Copper,Lead,Zinc
DESCRIPTION: Stacked, flat gold-quartz veins are connected by steep feeders in flat thrusts in Creston quartzites of the Purcell Supergroup. Maximum width of the veins is 1 metre with moderate gold values, minor associated base metals and silver.
WORK DONE: SAMP 35;Ag,Au,Cu,Pb,Zn
GEOL 1:500,1:200
SOIL 84;multielement
DIAD 410.0 m;10 holes,NQ
REFERENCES: A.R. 13200
M.I. 082GNW019-DARDANELLE

**** Jeff 3 ****

MINING DIV: Fort Steele ASSESSMENT REPORT 15913 INFO CLASS 4
LOCATION: LAT. 49 38 30 LONG. 115 32 00 NTS:
CLAIMS: Jeff 3
OPERATOR: Governor Res.
AUTHOR: Groves, W.
DESCRIPTION: Rocks underlying the property are greenish khaki impure Creston blocky bedded (0.3 to 0.5 metres thick) quartzites with thin argillaceous interbeds, at an attitude of 045/85NW. Major and minor faults cut the Purcell series rocks. Minor "step" block faulting and flat Laramide thrust faulting also cut across the moderately to steeply dipping Purcell rocks of the area. Both flat and step faults are marked by quartz veins, and slightly earlier ankerite or ankerized diorite sills. Veins are either barren or carry gold-quartz-sulphides. Present survey results show definitely sub-economic values of gold even in gravity concentrate.
WORK DONE: PROS 1:5000
META 4;Au
REFERENCES:

**** Mutt 1 ****

MINING DIV: *** ASSESSMENT REPORT 15912 INFO CLASS 3
LOCATION: LAT. 49 41 00 LONG. 115 35 00 NTS:
CLAIMS: Mutt 1
OPERATOR: Governor Res.
AUTHOR: Groves, W.
DESCRIPTION: The property is underlain by a folded and northerly trending, faulted syncline in Precambrian Purcell Supergroup sediments: Aldridge dark argillites (east margin) and stratigraphically higher Lower Creston micaceous quartzites (Hogback Ridge). The claim straddles the major north-northeast fault followed by the Wild Horse River. Narrow ankerite sills injected into the graphitic argillites of the fault zone feature minor quartz-carbonate/sulphides tension fracture veinlets.
WORK DONE: META 2;Au
SOIL 204;multielement
REFERENCES:

**** Mutt 3 ****

MINING DIV: Fort Steele ASSESSMENT REPORT 15901 INFO CLASS 4
LOCATION: LAT. 49 44 00 LONG. 115 31 00 NTS:
CLAIMS: Mutt 3
OPERATOR: Governor Res.
AUTHOR: Groves, W.
DESCRIPTION: Lower elevations of the property are underlain by Precambrian Creston Formation (green, purple and white argillaceous quartzite) and overlain at higher elevations by the Kitchener Formation (green, grey and purple buff weathering dolomitic argillite). Much of the property area is obscured by till.
WORK DONE: PROS 1:5000
SILT 9;multielement
REFERENCES:

**** ****

MINING DIV: Skeena ASSESSMENT REPORT 99998 INFO CLASS 1
LOCATION: LAT. 52 05 05 LONG. 114 11 11 NTS:
CLAIMS: Harry,Bill,George
OPERATOR:
AUTHOR:
DESCRIPTION:
REFERENCES:

**** Wait ****

MINING DIV: Fort Steele ASSESSMENT REPORT 16373 INFO CLASS 3
LOCATION: LAT. 49 43 00 LONG. 115 48 00 NTS:
CLAIMS: Wait 11
OPERATOR: Normine Res.
AUTHOR: Klewchuck, P.
DESCRIPTION: Drilling intersected rocks of the Proterozoic Aldridge

Formation, metamorphosed fine-grained clastic sedimentary rock, minor brecciation, chloritic alteration, and minor amounts of pyrite, chalcopyrite, and galena.
WORK DONE: DIAD 335.0 m;1 hole,NQ
SAMP 80;Cu,Pb,Zn,Ag,Au,As
REFERENCES:

**** Wait ****

MINING DIV: *** ASSESSMENT REPORT 16613 INFO CLASS 3
LOCATION: LAT. 49 42 05 LONG. 115 47 27 NTS:
CLAIMS: Wait 6
OPERATOR: Normine Res.
AUTHOR: Klewchuck, P.
DESCRIPTION: The claims are underlain by Proterozoic Aldridge Formation metamorphosed fine-grained clastic sedimentary rocks. Faulting occurs with chloritic and argillic alteration.
WORK DONE: DIAD 469.8 m;2 holes,NQ
SAMP 163;multielement
REFERENCES:

**** Wait ****

MINING DIV: Fort Steele ASSESSMENT REPORT 15824 INFO CLASS 3
LOCATION: LAT. 49 42 00 LONG. 115 49 00 NTS:
CLAIMS: Wait 2-3,Wait 5-13
OPERATOR: Normine Res.
AUTHOR: Mark, D.
DESCRIPTION: The general area is underlain by Purcell Supergroup sedimentary rocks of Precambrian age that is cut by block faulting. Most of the Wait claims are covered with glacial and fluvial overburden. The underlying rock-types are probably of Creston, Aldridge, and Kitchener Formations. Rock-types are predominantly argillites, siltstones and quartzites with some dolomite. Three drill holes intersected mineralization consisting of stratabound banded pyrite, pyrrhotite, sphalerite, galena and arsenopyrite.
WORK DONE: EMGR 13.3 km,HLEM
IPOL 29.3 km
REFERENCES:

**** Wait ****

MINING DIV: *** ASSESSMENT REPORT 15496 INFO CLASS 3
LOCATION: LAT. 49 41 42 LONG. 115 47 30 NTS:
CLAIMS: Wait 2,Wait 6
OPERATOR: Normine Res.
AUTHOR: Klewchuck, P.
DESCRIPTION: The claims are underlain by Proterozoic Aldridge Formation metamorphosed, fine-grained clastic sedimentary rocks. Chloritic and argillic alteration with iron and minor base metal sulphides occur on the property.
WORK DONE: DIAD 947.2 m;2 holes,NQ
SAMP 298;multielement
REFERENCES:

**** Wait ****

ASSESSMENT REPORT 16614 INFO CLASS 3

MINING DIV: Fort Steele
LOCATION: LAT. 49 41 40 LONG. 115 47 32 NTS:
CLAIMS: Wait 2
OPERATOR: Normine Res.
AUTHOR: Klewchuck, P.
DESCRIPTION: The claims are underlain by Proterozoic Aldridge Formation metamorphosed fine-grained clastic sedimentary rocks. Faults occur with chloritic and argillic alteration.
WORK DONE: SAMP 60;Cu,Pb,Zn,As,Ag,Au
DIAD 184.7 m;1 hole,NQ
REFERENCES: A.R. 15496

**** Diorite ****

ASSESSMENT REPORT 16537 INFO CLASS 4

MINING DIV: ***
LOCATION: LAT. 49 51 42 LONG. 115 34 18 NTS:
CLAIMS: Diorite 1
OPERATOR: Rainbow, D.
AUTHOR: Grove, E.W.
DESCRIPTION: Proterozoic Aldridge Formation strata are overlain to the east by the thick Creston Formation which underlies the eastern two thirds of the claim area. Rocks are mainly thinly laminated graphitic argillite, siltstone, and quartzite. Overall structure appears to be a north trending, gently to moderately east dipping sequence. Silver-bearing galena rich quartz veins have been found.
WORK DONE: PROS 1:18 181
REFERENCES:

**** Southking ****

ASSESSMENT REPORT 16337 INFO CLASS 3

MINING DIV: Fort Steele
LOCATION: LAT. 49 47 12 LONG. 115 35 30 NTS:
CLAIMS: J.M.,J.M. 1,S King,TC 1-2
OPERATOR: Bakra Res.
AUTHOR: Di Spirito, F.; Pawliuk, D.
COMMODITIES: Silver,Gold,Lead,Zinc
DESCRIPTION: Precambrian sedimentary and volcanic rocks of the Purcell Supergroup have been intruded by Cretaceous feldspar porphyries. Narrow quartz veins exposed for up to a few metres along strike locally contain up to 1.2 grams per tonne gold, 390.8 grams per tonne silver and 2.94 per cent lead.
WORK DONE: GEOL 1:5000
MAGG 50.8 km
EMGR 16.2 km;HLEM
SOIL 895;multielement
ROCK 104;multielement
LINE 59.6 km
REFERENCES: M.I. O82GNW030-SOUTHKING

**** Hot ****

ASSESSMENT REPORT 15906 INFO CLASS 3

MINING DIV: ***
LOCATION: LAT. 49 49 00 LONG. 115 28 00 NTS:
CLAIMS: Wild 1,Wild 3
OPERATOR: Dome Ex. Can.
AUTHOR: Fox, P.; Goodall, G.
COMMODITIES: Copper,Gold
DESCRIPTION: The property is underlain by a sequence of Cambrian-Ordovician carbonates including the Jubilee, McKay and Beverfoot Formations. A northerly trending, tightly folded, overturned anticline is exposed in steep cliffs on the east side of the property. A north trending fault transects the property. Irregular plugs and dykes of feldspar porphyry intrude the sedimentary sequence west of the fault. Quartz veining with moderate disseminated pyrite occurs.
WORK DONE: DIAD 707.0 m;6 holes,NQ
ROCK 45;multielement
SAMP 222;Au
REFERENCES: M.I. O82GNW050-HOT

O82J
Canal Flats

**** Deep Purple ****

ASSESSMENT REPORT 16506 INFO CLASS 3

MINING DIV: Golden
LOCATION: LAT. 50 12 42 LONG. 115 08 42 NTS:
CLAIMS: Candy,DP 1-3
OPERATOR: Graf, C.
AUTHOR:
COMMODITIES: Flourite,Barium
DESCRIPTION: The claims cover a widespread zone of carbonatization within Middle Devonian platformal carbonates and an evaporite-red bed sequence. The pyritic alteration zone is ankeritized and contains widespread fluorite-barite-lanthanum mineralization.
WORK DONE: SOIL 344;multielement
REFERENCES: M.I. O82JSW018-DEEP PURPLE

**** Barbi ****

ASSESSMENT REPORT 16278 INFO CLASS 4

MINING DIV: ***
LOCATION: LAT. 50 39 00 LONG. 115 36 00 NTS:
CLAIMS: Barbi
OPERATOR: Dia Met Min.
AUTHOR: Fipke, C.; Suggitt, J.
DESCRIPTION: A possible near-surface alkaline or carbonatitic intrusive with outward gold-scheelite skarn may occur in Middle Cambrian Chancellor Group massive limestone, pelitic phyllite and thin bedded phyllite-limestone units. The units are displaced along a north-northwest trending thrust fault.
WORK DONE: MAGG 5.7 km
HMIN 5;multielement
REFERENCES:

**** St. Patrick ****

MINING DIV: Slocan ASSESSMENT REPORT 16468 INFO CLASS 4
LOCATION: LAT. 50 13 30 LONG. 116 56 00 NTS:
CLAIMS: Dunc
OPERATOR: Security Environmental Systems
AUTHOR: Floyd, A.; McCrossan, E.
COMMODITIES: Silver,Lead,Zinc
DESCRIPTION: The property is underlain by rocks of the Hamill-Badshot-Mohican Formations of Lower Cambrian age and the pre-Mississippian Lardeau Group. The old St. Patrick Mine on the claim consists of vein and replacement silver-lead-zinc mineralization in the Lardeau Group of rocks.
WORK DONE: SOIL 100;multielement
REFERENCES: A.R. 12941
M.I. O82KSE026-ST. PATRICK

**** Aspen ****

MINING DIV: *** ASSESSMENT REPORT 15650 INFO CLASS 3
LOCATION: LAT. 50 02 30 LONG. 117 14 00 NTS:
CLAIMS: Alhambra,Alpine,Aspen 1-6,Avalanche,Hector,J.P. Wilson,Libbie R. Maple,Maple Fr.,Phoenix 3,Pine Fr.,Spruce,Trail 1-2 Fr.
OPERATOR: Noranda Ex.
AUTHOR: Devin, D.; Mitchell, I.
DESCRIPTION: The property is underlain by Triassic Slocan Group rocks which consist of argillite, slates and phyllites with units of limestone, quartzite and calcareous horizons. These rocks have been intruded by quartz-feldspar porphyry sills and dykes. The rocks strike northwest with steep southwesterly dips and have undergone extensive folding and faulting.
WORK DONE: GEOL 1:5000,1:2500
ROCK 68;multielement
REFERENCES: A.R. 14656

**** Merit ****

MINING DIV: Slocan ASSESSMENT REPORT 16472 INFO CLASS 3
LOCATION: LAT. 50 01 20 LONG. 117 13 00 NTS:
CLAIMS: Kate,Merit,Merit Centre,Merit M,Rich,Trove
OPERATOR: Goldsmith, L.
AUTHOR: Goldsmith, L.; Kallock, P.
DESCRIPTION: Clastic and carbonate sediments of the Upper Triassic-Lower Jurassic Slocan Group are cut by granitic sills and dykes. Bedding and foliation trend northwesterly and dip in varying attitudes, and are related to a position on northwesterly trending steep to recumbent fold limbs. Silver geochemical anomalies in soils have not yet been explained.
WORK DONE: GEOL 1:5000,1:2500,1:1250
SOIL 575;Ag,Pb,Zn
ROAD 2.3 km
REFERENCES: A.R. 14343,15472

**** Merit ****

MINING DIV: *** ASSESSMENT REPORT 15472 INFO CLASS 3
LOCATION: LAT. 50 01 00 LONG. 117 13 48 NTS:
CLAIMS: Merit South
OPERATOR: Kobold Res.
AUTHOR: Chung, P.
DESCRIPTION: Metasedimentary units belonging to the Triassic Slocan Group are deformed with repeated folding and faulting with planar and linear elements trending northwest along apparent fold axes. A stockpile of rocks near an adit consists of quartz vein material mineralized with galena and sphalerite.
WORK DONE: ROCK 4;Cu,Pb,Zn,Ag
LINE 14.2 km
SOIL 228;Cu,Pb,Zn,Ag
MAGG 6.1 km
EMGR 6.1 km;VLF
REFERENCES: A.R. 14343

**** Merit,Rich ****

MINING DIV: Slocan ASSESSMENT REPORT 15552 INFO CLASS 3
LOCATION: LAT. 50 01 24 LONG. 117 11 48 NTS:
CLAIMS: Merits Fr.,Rich
OPERATOR: Goldsmith, L.
AUTHOR: Goldsmith, L.
DESCRIPTION: Triassic-Jurassic Slocan Group sedimentary rocks are cut by granitic dykes and sills. Anomalous silver and zinc values occur in soils. No mineralization has been observed in place.
WORK DONE: ROCK 1;Au,Ag
SOIL 176;Ag,Pb,Zn
GEOL 1:1250
LINE 4.4 km
REFERENCES: A.R. 14343,15472

**** Peoria,Lucky Jim ****

MINING DIV: *** ASSESSMENT REPORT 16615 INFO CLASS 3
LOCATION: LAT. 50 02 24 LONG. 117 12 24 NTS:
CLAIMS: MR 3-8,Bessie,Non Pariel Fr.,Blackbird,St. George,Isis,Highlander
OPERATOR: Petroflame Int. Res.
AUTHOR: Butler, S.; Hunter, A.
COMMODITIES: Silver,Lead,Zinc
DESCRIPTION: The claims are underlain by Jurassic-Triassic Slocan Group slaty argillites with interbedded calcareous zones. The Lucky Jim limestone is an interbedded calcareous unit that is highly fractured and brecciated. Sphalerite and pyrite with some galena and chalcopyrite occur within the brecciated zones.
WORK DONE: EMGR 5.0 km;VLF
LINE 3.4 km
SPOT 3.4 km
ROCK 9;Cu,Pb,Zn,Ag,Cd,Au
GEOL 1:5000

SOIL 185:multielement
REST 1.0 km
MAGG 0.3 km
REFERENCES: M.I. 082KSW021-PEORIA:082KSW023-LUCKY JIM

**** Silver ****

MINING DIV: Slocan ASSESSMENT REPORT 16291 INFO CLASS 3
LOCATION: LAT. 50 02 30 LONG. 117 10 30 NTS:
CLAIMS: Silver,Silver Chalice,Silver Shadow,Silver Spirit
OPERATOR: Goldsmith, L.
AUTHOR: Goldsmith, L.; Kallock, P.
DESCRIPTION: Clastic sediments and limestone of the Triassic-Jurassic Slocan Group are intruded by granitic dykes and sills. Productive silver-lead-zinc lodes trend northeasterly across the prevailing north-westerly strike of folded bedding. A silver (zinc, lead) anomaly in soils was detected on the Silver and Silver Shadow claims.
WORK DONE: GEOL 1:5000
SOIL 593:Ag,Pb,Zn
REFERENCES:

**** X-Ray ****

MINING DIV: *** ASSESSMENT REPORT 16248 INFO CLASS 4
LOCATION: LAT. 50 01 30 LONG. 117 02 06 NTS:
CLAIMS: X-Ray Fr.
OPERATOR: Goldsmith, L.
AUTHOR:
DESCRIPTION: Triassic Kaslo Group volcanics underlie the claim. Quartz veining is evident in rubble but none was observed in place.
WORK DONE: GEOL 1:5000
SOIL 11:Au
REFERENCES:

**** A,Victim ****

MINING DIV: Slocan ASSESSMENT REPORT 15973 INFO CLASS 2
LOCATION: LAT. 50 05 36 LONG. 117 35 30 NTS:
CLAIMS: A 1-7,Anton 2-5,Bobbie 1,Maly 5,Moly 1,North,Victor 1,Moly 4
OPERATOR: Silvera Res.
AUTHOR: Meyer, B.
COMMODITIES: Silver,Lead,Zinc,Molybdenum,Gold
DESCRIPTION: The claims are underlain by Jurassic-Triassic phyllite and limestone of the Slocan Group, and phyllite, limestone and calc-silicate of the Pennsylvanian-Triassic Milford Group. Intruding the metasediments are Cretaceous and/or Jurassic (?) felsic intrusives. The metasediments strike east with steep dips. The intrusives are elongated in an east-west direction with numerous shear zones occurring in the Slocan Group near the intrusive contacts. A mineralized fault zone contains argentiferous galena-sphalerite-chalcopyrite-gold and is up to 3.6 metres wide and 18 metres long. Gold values in Milford Group calc-silicates intermittently encountered over a true width of 22.8 metres, grade up to 5.5 grams per tonne. Molybdenite mineralization is sporadic along intrusive contacts.

WORK DONE: EMGR 8.7 km;VLF
SAMP 134:Au
SOIL 1594:Au,Ag,Cu,Pb
LINE 50.4 km
GEOL 1:5000,1:2500
ROAD 4.5 km
ROCK 57:Au,Ag
MAGG 8.7 km
DIAD 326.1 m;8 holes,NQ,BQ
REFERENCES: A.R. 02393,02966,03004,08402,09175,11646
M.I. 082KSW060-A(SHANNON,FIARY QUEEN);082KSW062-VICTIM(LEONA)

**** Alamo ****

MINING DIV: *** ASSESSMENT REPORT 15525 INFO CLASS 3
LOCATION: LAT. 50 01 30 LONG. 117 16 24 NTS:
CLAIMS: Alamo,Alamo 2-3,Lynn
OPERATOR: Goldsmith, L.
AUTHOR: Goldsmith, L.
DESCRIPTION: Clastic Triassic-Jurassic Slocan Group sediments underly the claims. Granitic dykes cut the sedimentary rocks.
WORK DONE: LINE 27.8 km
ROCK 3:Ag,Au
GEOL 1:5000
SOIL 527:Ag,Pb,Zn
REFERENCES:

**** C ****

MINING DIV: Slocan ASSESSMENT REPORT 15588 INFO CLASS 4
LOCATION: LAT. 50 09 00 LONG. 117 22 15 NTS:
CLAIMS: C 1
OPERATOR: Silvera Res.
AUTHOR: McDonald, R.; Meyer, B.
DESCRIPTION: The claims are underlain by Triassic andesite and serpentinized ultramafics of the Kaslo Group, Jurassic-Triassic argillite and slate of the Slocan Group and Cretaceous-Jurassic granite. Sediments and volcanics trend east-west with steep dips. An increase in concentration of gold and platinum values near the serpentinite-andesite contact is indicated by analytical results of heavy mineral samples.
WORK DONE: ROCK 16:Au,Pt
HMIN 18:Au,Pt
REFERENCES:

**** Florence ****

MINING DIV: *** ASSESSMENT REPORT 16112 INFO CLASS 4
LOCATION: LAT. 50 00 18 LONG. 117 20 30 NTS:
CLAIMS: Florence (L.5764)
OPERATOR: Stewart, R.
AUTHOR:
DESCRIPTION: The claim is underlain by a Cretaceous-Jurassic Nelson Batholith granitic structure.
WORK DONE: PROS 1:2000

SOIL 14;multielement
ROCK 6;multielement
REFERENCES:

**** Sunshine,Dore ****

MINING DIV: Slocan ASSESSMENT REPORT 15625 INFO CLASS 4
LOCATION: LAT. 50 05 12 LONG. 117 39 00 NTS:
CLAIMS: Dore,Sunshine
OPERATOR: Tillicum Gold Mines
AUTHOR: George, J.
DESCRIPTION: The claims are underlain by Carboniferous-Permian Milford Group and Triassic-Lower Jurassic Slocan Group metavolcanics and metasediments. Soil geochemistry returned low gold values.
WORK DONE: SOIL 18;Au
REFERENCES:

**** Prince ****

MINING DIV: *** ASSESSMENT REPORT 15785 INFO CLASS 4
LOCATION: LAT. 50 15 24 LONG. 117 48 54 NTS:
CLAIMS: Prince
OPERATOR: Harris, J.
AUTHOR:
DESCRIPTION: Government geologists report grey to black phyllite, argillite, quartzite and minor tuffaceous sedimentary rocks. Drilling did not intersect mineralization although a sample analysed in 1984 shows 48.50 per cent lead, 3 116.05 grams per tonne silver, and 7.47 grams per tonne gold.
WORK DONE: DIAD 16.8 m;1 hole,EXT
PROS 1:15 800
REFERENCES:

**** Comstock ****

MINING DIV: Slocan ASSESSMENT REPORT 16480 INFO CLASS 4
LOCATION: LAT. 50 19 24 LONG. 117 09 24 NTS:
CLAIMS: Comstock 3-4
OPERATOR: Ambergate Ex.
AUTHOR: Ostler, J.; Spearing, C.
COMMODITIES: Silver,Lead,Zinc
DESCRIPTION: The northeast part of the property is underlain by andesitic volcanics of the Cambrian-Devonian Index Formation. The southwest part of the property is underlain by basal grits and siltstones of the Broadview Formation. The Comstock workings located near the centre of the property explore several quartz veins up to 1.5 metres wide that are mineralized with argentiferous galena and minor sphalerite. Mineralization occurs as disseminations of sulphide crystals in milky and smoky quartz.
WORK DONE: STRI 1 ha
TRAL 1.2 km
GEOL 1:10 000,1:500
ROCK 9;Cu,Pb,Zn,Ag,Au
REFERENCES: M.I. 082KSW127-COMSTOCK

**** Gallo ****

MINING DIV: *** ASSESSMENT REPORT 15698 INFO CLASS 4
LOCATION: LAT. 50 25 00 LONG. 117 11 00 NTS:
CLAIMS: Calumet,Calumet 2-3,Coronation,Gallo,Harry,Mobbs
OPERATOR: Goldsmith, L.
AUTHOR: Goldsmith, L.
DESCRIPTION: Lower Paleozoic metavolcanics and metasediments of the Lardeau Group underlie the claims.
WORK DONE: SOIL 125;Au
LINE 6.8 km
REFERENCES: A.R. 08483,08862,09801,10129,11813,14519

**** Grizzly ****

MINING DIV: Slocan ASSESSMENT REPORT 15541 INFO CLASS 3
LOCATION: LAT. 50 18 54 LONG. 117 00 42 NTS:
CLAIMS: Grizzly,Grizzly 2-3
OPERATOR: Murjoh Res.
AUTHOR: Blanchflower, J.
COMMODITIES: Silver,Copper
DESCRIPTION: The claims are underlain by grey-black and green schists of the Cambrian-Devonian Lower and Upper Index Formation. The schists are folded and faulted by regional tectonism, and now comprise a portion of the mapped Kootenay Lake anticline. All rocks have undergone regional metamorphism of low to medium grades. A fracture-controlled quartz vein at the old Grizzly workings hosts local pyrite, chalcopyrite and tetrahedrite mineralization. The vein has been traced for 60 metres north and south in a 175/90 degree fault zone.
WORK DONE: ROCK 16;Au,Ag,Cu,Pb,Zn
SOIL 237;Ag,Cu,Pb,Zn
GEOL 1:5000
REFERENCES: A.R. 14502
M.I. 082KSW056-GRIZZLY

**** Slave ****

MINING DIV: *** ASSESSMENT REPORT 16180 INFO CLASS 4
LOCATION: LAT. 50 26 24 LONG. 117 11 36 NTS:
CLAIMS: Slave
OPERATOR: Komperdo, L.
AUTHOR: Komperdo, L.; Wright, W.
DESCRIPTION: Paleozoic phyllite and metavolcanics are part of a large regional fold and are slightly to moderately metamorphosed. Mineralization consisting of pyrite, gold, and silver are predominantly associated with stress fractures.
WORK DONE: SAMP 13;Au,Ag
PROS 1:4880
REFERENCES:

**** White Eagle ****

MINING DIV: Slocan ASSESSMENT REPORT 16433 INFO CLASS 3

LOCATION: LAT. 50 18 00 LONG. 118 10 00 NTS:
CLAIMS: Amber 1-4,Juno,North Star
OPERATOR: Ambergate Ex.
AUTHOR: Ostler, J.; Spearing, C.
COMMODITIES: Silver,Gold,Lead,Zinc
DESCRIPTION: The property is underlain by clastic sediments of the Broadview Formation. The northeast and southwest parts of the property are underlain by basal grits and siltstones. The central part is underlain by variably carbonaceous pelites and impure carbonates. Mineralized quartz veins are generally associated with the carbonaceous pelites in the central part of the property at several locations. Veins are up to 1.5 metres thick. Mineralization seems to be in ore shoots with galena-sphalerite centres and pyritic margins.
WORK DONE: GEOL 1:10 000,1:500
SOIL 383;Cu,Pb,Zn,Ag,Au
ROCK 60;Cu,Pb,Zn,Ag,Au
TRAL 11.3 km
SILT 7;multielement
LINE 18.3 km
REFERENCES: M.I. 082KSW126-WHITE EAGLE

**** Jumbo (Toby Creek),Lisa A ****

MINING DIV: Golden ASSESSMENT REPORT 16117 INFO CLASS 3
LOCATION: LAT. 50 22 24 LONG. 116 26 48 NTS:
CLAIMS: Toby 1-2,Toby 4
OPERATOR: Graf, C.
AUTHOR:
COMMODITIES: Silver,Lead,Zinc,Barium
DESCRIPTION: The claims are underlain by Proterozoic and/or Lower Paleozoic sediments consisting of black argillites, quartzites, conglomerates and carbonates. Numerous zinc-lead-silver +/- barite deposits occur in a dolomite sequence along the major regional Mt. Forster thrust fault.
WORK DONE: SOIL 328;multielement
SILT 7;Ag,As,Cu,Pb,Sb,Zn
REFERENCES: M.I. 082KSE042-LISA;082KSE043-JUMBO (TOBY CREEK)

**** Lady ****

MINING DIV: *** ASSESSMENT REPORT 16149 INFO CLASS 4
LOCATION: LAT. 50 23 48 LONG. 116 19 00 NTS:
CLAIMS: One Lady,Two Lady
OPERATOR: Haimila, R.
AUTHOR: Haimila, R.
DESCRIPTION: The claims are underlain by argillite, dolomite and quartzite of the Dutch Creek Formation.
WORK DONE: PROS 1:10 000
REFERENCES:

**** T.C. ****

MINING DIV: Golden ASSESSMENT REPORT 16477 INFO CLASS 4
LOCATION: LAT. 50 24 54 LONG. 116 18 30 NTS:

CLAIMS: TC 1
OPERATOR: Van Der Lee, A.
AUTHOR: Carter, J.
DESCRIPTION: The claim is underlain by argillite, dolomite and quartzite of the Dutch Creek Formation.
WORK DONE: PROS 1:6096
SOIL 34;Au
REFERENCES:

**** Canadian Boy ****

MINING DIV: Revelstoke ASSESSMENT REPORT 16005 INFO CLASS 4
LOCATION: LAT. 50 39 36 LONG. 117 24 36 NTS:
CLAIMS: Silver Slipper
OPERATOR: York, L.
AUTHOR: York, L.
COMMODITIES: Silver,Lead,Zinc,Gold
DESCRIPTION: The claim appears to be underlain by quartzites and argillites.
WORK DONE: SOIL 12;multielement
SPOT 1.5 km
REFERENCES: M.I. 082KNW018-CANADIAN BOY

**** Foggy Day ****

MINING DIV: *** ASSESSMENT REPORT 16077 INFO CLASS 4
LOCATION: LAT. 50 35 24 LONG. 117 20 00 NTS:
CLAIMS: Cat 1-2
OPERATOR: Tri County Holdings
AUTHOR: Di Spirito, F.; Graham, J.C.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper
DESCRIPTION: The claims are underlain by phyllites, greenstone and quartzites.
WORK DONE: MAGA 52.0 km
EMAB 52.0 km;VLF
REFERENCES: M.I. 082KNW117-FOGGY DAY

**** Silver Dollar,Gilman,Mountain Boy,Iron Dollar

MINING DIV: Revelstoke ASSESSMENT REPORT 15946 INFO CLASS 3
LOCATION: LAT. 50 45 00 LONG. 117 34 00 NTS:
CLAIMS: Blackhock,Carbonate Hill,Frisco,Gilman,Iron Dollar,Mountain Boy
OPERATOR: Bryndon Ventures
AUTHOR: Sampson, C.
COMMODITIES: Gold,Lead,Zinc,Silver
DESCRIPTION: The phyllites and schistose greenstones of the Jowett Formation (Lardeau Group) are host rocks to the Gilman and Silver Dollar vein systems. Both are situated in O20 degree fault zones and dip 40-70 degrees northeast. In both, massive quartz veining up to 2 metres thick occurs in the shear zone, carrying pyrite, galena, sphalerite and fine grained gold.
WORK DONE: SOIL 416;multielement
DIAD 315.8 m;6 holes,BQ
SAMP 61;Au,Ag
REFERENCES: A.R. 05209,11532
M.I. 082K 101-SILVER DOLLAR;082K 127-GILMAN;082K 131-

MOUNTIAN BOY;O82K 136-IRON DOLLAR

**** Murray ****

MINING DIV: *** ASSESSMENT REPORT 16361 INFO CLASS 3
LOCATION: LAT. 50 37 00 LONG. 117 58 42 NTS:
CLAIMS: Fran 1,Murray 2,Murray 4,Murray 7-8
OPERATOR: G.W.R. Res.
AUTHOR: Leishman, D.
COMMODITIES: Copper,Silver,Gold
DESCRIPTION: Intermediate to felsic volcanics of the Shuswap terrane have been intruded by Galena Bay granodiorite. Disseminated to massive sulphides (copper enriched) with precious metal values are found over a strike length of 3.4 kilometres. Sulphide bodies are conformable to bedding. The target is polymetallic massive sulphide bodies of possible volcanogenic origin.
WORK DONE: EMGR 25.0 km;VLF
SOIL 69;Au,Cu
ROCK 33;Au,Cu
GEOL 1:5000
MAGG 25.0 km
PETR 5 thin sections
LINE 25.0 km
REFERENCES: A.R. 12702
M.I. O82KNW096-MURRAY

**** Independence,Goldfinch ****

MINING DIV: Revelstoke ASSESSMENT REPORT 15401 INFO CLASS 1
LOCATION: LAT. 50 49 30 LONG. 117 39 18 NTS:
CLAIMS: Dorothy,Goldfinch,Independence,Sea Lion
OPERATOR: Granges Ex.
AUTHOR: Leader, J.; Zbitnoff, G.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by metamorphic rocks of the Cambrian-Devonian Lardeau Group. Gold occurs in quartz veins and altered wall rock.
Drilling results intersected significant widths of gold bearing rock.
WORK DONE: SAMP 2429;Au,Ag
DIAD 33745.9 m;37 holes,NO
REFERENCES: A.R. 09137,11267,12895,13920,14597
M.I. O82KNW073-INDEPENDENCE;O82KNW076-GOLDFINCH

**** Lost Cup ****

MINING DIV: *** ASSESSMENT REPORT 16582 INFO CLASS 3
LOCATION: LAT. 50 50 01 LONG. 117 39 46 NTS:
CLAIMS: Lost Cup,Nina,Phyllis
OPERATOR: Granges Ex.
AUTHOR: Zbitnoff, G.
COMMODITIES: Silver,Lead
DESCRIPTION: The claims are underlain by metamorphic rocks of the Cambrian-Devonian Lardeau Group.
WORK DONE: SOIL 435;multielement

REFERENCES: A.R. 09137,11267,12895,13920,14597,15401
M.I. O82KNW195-LOST CUP

**** Teddy Glacier ****

MINING DIV: Revelstoke ASSESSMENT REPORT 16021 INFO CLASS 3
LOCATION: LAT. 50 52 06 LONG. 117 45 00 NTS:
CLAIMS: E.G.G. 1-2,Fran 2,Mombola Fr.
OPERATOR: K-Z Res.
AUTHOR: Pezzot, E.; White, G.E.
COMMODITIES: Lead,Silver,Zinc,Gold
DESCRIPTION: Phyllite and limy phyllite of the Paleozoic Jowett Formation is cut by northwest trending quartz-ankerite-sulphide veins carrying gold-silver values.
WORK DONE: EMAB 119.0 km;VLF
MAGA 119.0 km
REFERENCES: A.R. 10421
M.I. O82KNW069-TEDDY GLACIER

**** Fern & Evelyn ****

MINING DIV: Slocan ASSESSMENT REPORT 16096 INFO CLASS 3
LOCATION: LAT. 50 45 36 LONG. 117 10 36 NTS:
CLAIMS: Fox 3
OPERATOR: Big I Dev.
AUTHOR: McLeod, J.
COMMODITIES: Molybdenum,Zinc,Tungsten
DESCRIPTION: Metamorphic clastics assigned to the Lower Cambrian Marsh Adams Formation are intruded by a Mesozoic leucocratic quartz monzonite pluton. The country rocks have undergone garnet-pyroxene skarn and hydrothermal quartz vein alteration. Mineralization identified in hand specimen consists of pyrite, pyrrhotite, galena, molybdenite, magnetite, sphalerite, scheelite, bismuthinite, stibnite and chalcopyrite.
WORK DONE: SAMP 52;multielement
DIAD 103.3 m;1 hole,NO
REFERENCES: A.R. 07695
M.I. O82KNW206-FERN & EVELYN

**** Horne ****

MINING DIV: Revelstoke ASSESSMENT REPORT 16643 INFO CLASS 4
LOCATION: LAT. 50 46 21 LONG. 117 26 47 NTS:
CLAIMS: Horne
OPERATOR: Golden Range Res.
AUTHOR: Hlava, M.
DESCRIPTION: The claim is underlain by phyllites, chlorite schists and minor limestone of the Cambrian-Devonian Index Formation.
WORK DONE: GEOL 1:10 000
SILT 1;multielement
ROCK 9;multielement
REFERENCES:

**** Lackburn,Glenside ****

MINING DIV: *** ASSESSMENT REPORT 16626 INFO CLASS 4
LOCATION: LAT. 50 45 32 LONG. 117 26 55 NTS:
CLAIMS: Circle City
OPERATOR: Golden Range Res.
AUTHOR: Hlava, M.
COMMODITIES: Lead,Silver,Gold
DESCRIPTION: The claim is underlain by Cambrian-Devonian Index Formation phyllites, chlorite schists and minor limestone.
WORK DONE: GEOL 1:10 000
SILT 5;multielement
ROCK 11;multielement
REFERENCES: M.I. 082KNW141-GLENSIDE;082KNW175-LACKBURN

**** Aim ****

MINING DIV: Vernon ASSESSMENT REPORT 15461 INFO CLASS 4
LOCATION: LAT. 50 07 30 LONG. 118 32 24 NTS:
CLAIMS: Aim 1
OPERATOR: K.D. Res.
AUTHOR: Nelles, D.
DESCRIPTION: Tertiary plateau basalts underlie most of the claim.
WORK DONE: SILT 13;multielement
HMIN 6;Au
REFERENCES:

**** Echo,Hump ****

MINING DIV: *** ASSESSMENT REPORT 16413 INFO CLASS 3
LOCATION: LAT. 50 10 36 LONG. 118 46 30 NTS:
CLAIMS: Bonne I-II,Echo I-IV,Echo I-IV,Moss I-VIII
OPERATOR: QPX Min.
AUTHOR: Gosse, R.
DESCRIPTION: The proterozoic Shuswap Metamorphic Complex is overlain by unmetamorphosed volcanics and sediments. Paleozoic rocks underlie a portion of the property.
WORK DONE: GEOL 1:10 000
SOIL 418;multielement
SILT 21;multielement
ROCK 222;multielement
PETR 2 thin sections
REFERENCES:

**** Pita ****

MINING DIV: Vernon ASSESSMENT REPORT 16660 INFO CLASS 3
LOCATION: LAT. 50 09 49 LONG. 118 34 23 NTS:
CLAIMS: Pita 1-8,Pita 10-16,Pita 20-29
OPERATOR: Approach Res.

AUTHOR: Christopher, P.
DESCRIPTION: The claims are underlain by rocks of the "Slocan Assemblage" (Triassic) and "Thompson Assemblage" (Cache Creek equivalent) except in the southeast, where granitoid rocks of the Cretaceous-Jurassic Nelson Batholith occur, and in scattered areas where Tertiary Kamloops Group volcanics cap the Thompson Assemblage rocks.
WORK DONE: SOIL 578;multielement
LINE 17.5 km
REFERENCES:

**** Pita ****

MINING DIV: *** ASSESSMENT REPORT 15878 INFO CLASS 2
LOCATION: LAT. 50 09 30 LONG. 118 33 00 NTS:
CLAIMS: Pita 1-8,Pita 22-26,Pita 29
OPERATOR: Approach Res.
AUTHOR: Christopher, P.
DESCRIPTION: The Pita property is underlain by rocks of the "Slocan Assemblage" (Triassic) and "Thompson Assemblage" (Cache Creek equivalent) which are intruded by granitic rocks of the Nelson Batholith. Rock types include tuffs, andesitic lavas, limestone, chert and argillaceous sedimentary units. A prominent sericitized and sheared pyritic alteration zone cuts the sedimentary rock sequence. Soil contains up to 1 020 ppb gold and panned sediments contain up to 21 500 ppb gold.
WORK DONE: SOIL 1048;Cu,Ag,Zn,Pb,Au
HMIN 3;Cu,Ag,Zn,Pb,Au
LINE 30.0 km
ROCK 53;Cu,Ag,Zn,Pb,Au
GEOL 1:5000
EMGR 11.2 km;VLF
REFERENCES:

**** Pita ****

MINING DIV: Vernon ASSESSMENT REPORT 16668 INFO CLASS 4
LOCATION: LAT. 50 06 08 LONG. 118 30 34 NTS:
CLAIMS: Pita 29
OPERATOR: Approach Res.
AUTHOR: Christopher, P.
DESCRIPTION: Metamorphosed volcanic and sedimentary rocks of the Paleozoic Cache Creek Group are intruded by dioritic and monzonitic phases of the Cretaceous-Jurassic Nelson Batholith. Elevated nickel values suggest the presence of mafic dykes. East-trending structural zones with quartz veins contain precious metal values in chalcopyrite, pyrite, galena and sphalerite.
WORK DONE: SOIL 59;multielement
REFERENCES:

**** Spar ****

MINING DIV: *** ASSESSMENT REPORT 16536 INFO CLASS 3
LOCATION: LAT. 50 14 42 LONG. 118 48 24 NTS:
CLAIMS: Bearcub 1-2,Bodi 1-2
OPERATOR: Brenda Mines

AUTHOR: Bruaset, R.

DESCRIPTION: CONFIDENTIAL STATUS

(Will be published in Exploration in British Columbia, 1988

**** Kalamalka (Chance) ****

MINING DIV: Vernon ASSESSMENT REPORT 16442 INFO CLASS 3
LOCATION: LAT. 50 12 00 LONG. 119 06 00 NTS:
CLAIMS: Gus 1-2
OPERATOR: Triple Star Res.
AUTHOR: Dasler, P.G.; Smith, F.
COMMODITIES: Gold,Silver,Copper,Lead,Zinc
DESCRIPTION: Jurassic-Eocene diorite intrusive and sedimentary country rocks are cut by late faulting. Quartz veins in these fault zones carry gold values.
WORK DONE: UNDV 100.0 m;rehab
ROCK 30;Au,Ag
UNDD 133.8 m;8 holes,AQ
SAMP 29;Au,Ag
GEOL 1:500
REFERENCES: M.I. O82LSW050-KALAMALKA (CHANCE)

**** British Empire ****

MINING DIV: *** ASSESSMENT REPORT 16115 INFO CLASS 4
LOCATION: LAT. 50 14 54 LONG. 119 22 00 NTS:
CLAIMS: British Empire,Dominion Fr.
OPERATOR: Benvenuto, G.
AUTHOR: Benvenuto, G.
COMMODITIES: Gold,Silver
DESCRIPTION: At least 18 narrow, high-grade gold-bearing quartz veins occur within a 220 metre wide interval of a major shear zone in metasedimentary rocks of the Pennsylvanian-Permian Cache Creek Group.
WORK DONE: ROCK 54;multielement
REFERENCES: M.I. O82LSW034-BRITISH EMPIRE

**** Bond ****

MINING DIV: Vernon ASSESSMENT REPORT 16027 INFO CLASS 4
LOCATION: LAT. 50 01 00 LONG. 119 34 00 NTS:
CLAIMS: Bond 1
OPERATOR: Lenard, N.
AUTHOR: Lenard, N.
DESCRIPTION: The claim is underlain by metasediments and andesites of the Permian-Pennsylvanian Cache Creek Group. Locally the rocks are cut

by dykes and plugs of diorite-quartz diorite of the Jura-Cretaceous Vernon pluton, which contacts the Cache Creek Group along the east and north margins of the property.
WORK DONE: GEOL 1:5000
REFERENCES: A.R. 12148,14511

**** Brett ****

MINING DIV: *** ASSESSMENT REPORT 15564 INFO CLASS 3
LOCATION: LAT. 50 14 12 LONG. 119 39 48 NTS:
CLAIMS: Brett 1
OPERATOR: Huntington Res.
AUTHOR: Gruenwald, W.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by Mesozoic granitic intrusive rocks which are overlain in part by Tertiary andesitic and basaltic flows and tuffaceous rocks. Cutting the Tertiary volcanics are several northerly trending epithermal-type shear, vein and silicified zones. These zones and the adjacent host rocks contain significant gold and silver mineralization. Parallel and closely associated with these zones are post mineralization feldspar porphyry dykes thought to be related to a nearby syenitic intrusive.
WORK DONE: DIAD 795.2 m;16 holes,NQ
SAMP 450;Au
REFERENCES: A.R. 13469,13471
M.I. O82LSW110-BRETT

**** Dome ****

MINING DIV: Vernon ASSESSMENT REPORT 16229 INFO CLASS 3
LOCATION: LAT. 50 04 54 LONG. 119 41 00 NTS:
CLAIMS: Dome 1
OPERATOR: Huntington Res.
AUTHOR: Gruenwald, W.
DESCRIPTION: The property appears to be underlain by Mesozoic granitic intrusive rocks. These may in part be intruded by and overlain by Tertiary volcanic rocks of the nearby Terrace Mountain Outlier.
WORK DONE: HMIN 3;Au
LINE 3.5 km
SOIL 145;Au
REFERENCES:

**** Expo ****

MINING DIV: *** ASSESSMENT REPORT 16447 INFO CLASS 3
LOCATION: LAT. 50 12 34 LONG. 119 33 19 NTS:
CLAIMS: Expo 1-2,Expo 7-8
OPERATOR: Pacific Northwest Res.
AUTHOR: McLeod, J.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Tertiary Kamloops Group volcano-sediments and Jurassic-Cretaceous granitic plutonic rocks of the Valhalla Intrusives.
WORK DONE: SOIL 90;multielement
SILT 255;multielement

REFERENCES:

**** Tara ****

MINING DIV: Vernon ASSESSMENT REPORT 16498 INFO CLASS 4
LOCATION: LAT. 50 00 06 LONG. 119 37 36 NTS:
CLAIMS: Tara 4-7
OPERATOR: Cox, P.
AUTHOR: Wilmot, A.
DESCRIPTION: The claims are underlain by Permian-Pennsylvanian Cache Creek Group andesitic tuffs and Tertiary conglomerates.
WORK DONE: SOIL 136;Cu,Au
REFERENCES:

**** White Elephant ****

MINING DIV: *** ASSESSMENT REPORT 15930 INFO CLASS 3
LOCATION: LAT. 50 08 48 LONG. 119 33 00 NTS:
CLAIMS: Blyt I,Gem I-II,Pine
OPERATOR: Blyth, W.
AUTHOR: Muloin, B.
COMMODITIES: Gold,Silver,Tungsten,Bismuth,Tellurium,Silica
DESCRIPTION: The claims are underlain by faulted granodiorites and porphyritic basalts.
WORK DONE: LINE 10.2 km
GEOL 1:2000
MAGG 10.2 km
REFERENCES: M.I. 082LSW042-WHITE ELEPHANT

**** Young ****

MINING DIV: Vernon ASSESSMENT REPORT 16228 INFO CLASS 3
LOCATION: LAT. 50 11 00 LONG. 119 39 36 NTS:
CLAIMS: Young 1
OPERATOR: Huntington Res.
AUTHOR: Gruenwald, W.
DESCRIPTION: The property is underlain by a thick sequence of Tertiary volcanics comprised of basalts, andesites and minor rhyolite and rhyolite breccias.
WORK DONE: LINE 7.5 km
SOIL 140;Au
HMIN 7;Au
REFERENCES:

**** Zumar ****

MINING DIV: *** ASSESSMENT REPORT 16416 INFO CLASS 3
LOCATION: LAT. 50 00 42 LONG. 119 38 12 NTS:
CLAIMS: Zumar 2,Zumar 4
OPERATOR: Skyworld Res. & Dev.
AUTHOR: Wilmot, A.
COMMODITIES: Gold,Silver
DESCRIPTION: A quartz vein occurs in Permian-Pennsylvanian Cache Creek Group basalt and andesite. Late felsite dykes and quartz stringers are also evident. Mineralization consists of pyrite and chalcopyrite with

gold and silver values.
WORK DONE: SAMP 6;Au,Ag
SOIL 487;Cu,Ag
DIAD 95.1 m;1 hole,BQ
REFERENCES: A.R. 15400
M.I. 082LSW111-ZUMAR

**** Expo ****

MINING DIV: Nicola ASSESSMENT REPORT 16483 INFO CLASS 4
LOCATION: LAT. 50 19 30 LONG. 119 48 39 NTS:
CLAIMS: Expo 4,Expo 6,Expo 9-10,Expo 14-18,Expo 22
OPERATOR: Pacific Northwest Res.
AUTHOR: McLeod, J.
DESCRIPTION: The property appears to be underlain by Tertiary Kamloops Group volcanic-sedimentary rocks.
WORK DONE: SILT 11;Au,Ag,Ni,Co,Mn,Cr
REFERENCES:

**** Ron ****

MINING DIV: *** ASSESSMENT REPORT 15968 INFO CLASS 4
LOCATION: LAT. 50 14 30 LONG. 119 50 00 NTS:
CLAIMS: Ron 1-2
OPERATOR: Huntington Res.
AUTHOR: Gruenwald, W.
DESCRIPTION: The claims are underlain by metavolcanic and metasedimentary rocks of the Precambrian Chapperon Group. These rocks are intruded by a large pre-Permian serpentinized ultramafic dyke and numerous Mesozoic granitic dykes. Overlying the entire sequence in the northern portion of the claims are flat lying Tertiary volcanic rocks. Anomalous base and precious metal values occur in all rocks except Tertiary volcanics. Some stream sediments contain visible gold.
WORK DONE: SILT 28;Au,Cu,Pb,Zn,Ag
HMIN 20;Au,Cu,Pb,Zn,Ag
GEOL 1:5000
ROCK 19;Au,Cu,Pb,Zn,Ag
REFERENCES:

**** Expo ****

MINING DIV: Kamloops ASSESSMENT REPORT 16348 INFO CLASS 4
LOCATION: LAT. 50 26 06 LONG. 119 38 06 NTS:
CLAIMS: Expo 3
OPERATOR: Pacific Northwest Res.
AUTHOR: McLeod, J.
DESCRIPTION: The claim is underlain by Tertiary Kamloops Group volcaniclastics.
WORK DONE: SOIL 17;multielement
SILT 11;multielement
REFERENCES:

**** Nugget ****

MINING DIV: Nicola ASSESSMENT REPORT 16438 INFO CLASS 4
LOCATION: LAT. 50 20 18 LONG. 119 46 24 NTS:
CLAIMS: Nugget 1
OPERATOR: Huntington Res.
AUTHOR: Gruenwald, W.
DESCRIPTION: The property is underlain by Tertiary volcanic rocks comprised predominantly of basalt flows, pyroclastics and minor felsic volcanics. Transecting the property is a strong north trending topographic linear (fault zone).
WORK DONE: SILT 7;Au
SOIL 70;Au
LINE 3.6 km
HMIN 7;Au
REFERENCES:

**** Greg ****

MINING DIV: Vernon ASSESSMENT REPORT 16031 INFO CLASS 3
LOCATION: LAT. 50 22 12 LONG. 119 28 54 NTS:
CLAIMS: Greg
OPERATOR: Tournigan Min. Ex.
AUTHOR: Jenks, J.
DESCRIPTION: The claim is underlain by Permian-Pennsylvanian Cache Creek Group volcanics and argillites.
WORK DONE: LINE 8.6 km
SOIL 284;multielement
REFERENCES: A.R. 14906

**** Hidden Treasure,Grand Times ****

MINING DIV: *** ASSESSMENT REPORT 15535 INFO CLASS 3
LOCATION: LAT. 50 23 00 LONG. 119 29 30 NTS:
CLAIMS: Penny
OPERATOR: Goldstone Ex.
AUTHOR: Mehner, D.
COMMODITIES: Gold
DESCRIPTION: Hornblende diorite intrudes Triassic and Paleozoic argillites, siltstones and andesite tuffs. Crowded feldspar porphyry, possibly a Tertiary dacite plug occurs at the southwest corner of the claim. A northwest shear containing quartz veins to 4.5 metres in width cuts the hornblende diorite. The quartz is highly fractured, sulphide poor but contains traces of visible gold. Irregular quartz veins to 50 centimetres wide containing minor sulphides and anomalous gold values occur elsewhere on the claim - often along a northeast linear.
WORK DONE: LINE 15.0 km
MAGG 15.0 km
EMGR 15.0 km;VLF
ROCK 58;Au,Ag,As
GEOL 1:5000
REFERENCES: A.R. 02552,10031,14305

M.I. O82LSW012-GRAND TIMES

**** Peak,Irish ****

MINING DIV: Vernon ASSESSMENT REPORT 16039 INFO CLASS 4
LOCATION: LAT. 50 23 36 LONG. 119 23 18 NTS:
CLAIMS: Peak I,Irish 2
OPERATOR: GoldQuest Min.
AUTHOR: Gourlay, A.
DESCRIPTION: The claims are underlain by the Jurassic-Triassic Slocan Group and Upper Triassic Nicola Group rocks which are intruded by Cretaceous - Tertiary monzonite dykes. Erosional remnants of Tertiary basalt cap other rocks at higher elevations.
WORK DONE: MAGG 7.3 km
REFERENCES:

**** Laf ****

MINING DIV: *** ASSESSMENT REPORT 16277 INFO CLASS 4
LOCATION: LAT. 50 27 36 LONG. 118 31 06 NTS:
CLAIMS: Laf,Laf III
OPERATOR: Gerle Gold
AUTHOR: Hrkac, C.
COMMODITIES: Copper,Zinc
DESCRIPTION: Gneiss and quartzite of the Monashee Group have been intruded by large, flat-lying diorite sills. Locally this series of rocks is underlain by Proterozoic metamorphosed volcanics and sediments of the Shuswap Metamorphic Complex.
WORK DONE: GEOL 1:20 000
SILT 2;multielement
ROCK 21;multielement
REFERENCES: M.I. O82LSE056-LAF

**** B.S. ****

MINING DIV: Vernon ASSESSMENT REPORT 16349 INFO CLASS 3
LOCATION: LAT. 50 16 00 LONG. 118 55 30 NTS:
CLAIMS: B.S. 3
OPERATOR: Zicton Gold
AUTHOR: Allen, A.
DESCRIPTION: Proterozoic gneiss and phyllite of the Shuswap Metamorphic Complex, Pennsylvanian-Permian Cache Creek Group and Upper Triassic Nicola Group argillite, shale, tuff and andesite are intruded by two small diorite stocks. Major faults and folds occur. Mineralization in and associated with fault zones, include gold, silver, minor galena, chalcopyrite and pyrrhotite.
WORK DONE: MAGG 26.0 km
EMGR 20.0 km;VLF
REFERENCES:

**** P.S.,B.S. ****

MINING DIV: *** ASSESSMENT REPORT 16429 INFO CLASS 2
LOCATION: LAT. 50 17 36 LONG. 118 58 30 NTS:
CLAIMS: BS 4-5,DK 1,PS 4-6

OPERATOR: Quinto Min.
AUTHOR: Kuran, D.
DESCRIPTION: Folded marine clastics and tuffs of the Sicamous Formation of Upper Triassic age are intruded by Jurassic and Cretaceous stocks. The lithologies are locally sheared parallel to fold axes and are occupied by quartz veins.
WORK DONE: GEOL 1:5000
LINE 4.8 km
EMGR 31.0 km;VLF
SOIL 1401;multielement
REFERENCES:

**** Comstock ****

MINING DIV: Kamloops ASSESSMENT REPORT 16211 INFO CLASS 3
LOCATION: LAT. 50 59 42 LONG. 119 33 18 NTS:
CLAIMS: Comstock
OPERATOR: Lacana Min.
AUTHOR: Wells, R.
DESCRIPTION: The property is underlain by a mixed assemblage of Devonian-Mississippian Eagle Bay Formation phyllites and schists that strike northeasterly and dip 30-50 degrees northwest. North-trending faults are commonly filled by Tertiary feldspar porphyry dykes. Copper-lead-zinc and silver mineralization occurs on the property as high grade float and as anomalous values in a mafic unit.
WORK DONE: GEOL 1:2500
SOIL 1160;Au,Ag,Cu,Pb,Zn
EMGR 26.8 km;VLF,HLEM
MNGR 2;polished sections
LINE 26.8 km
REFERENCES:

**** Ford ****

MINING DIV: *** ASSESSMENT REPORT 15503 INFO CLASS 3
LOCATION: LAT. 51 00 54 LONG. 119 38 48 NTS:
CLAIMS: Ford 2,Ford 4-5,Woof 2-3
OPERATOR: Adams Ex.
AUTHOR: Lloyd, J.
DESCRIPTION: The claims are underlain by a northeast trending belt of intermediate to felsic volcanics dipping at 30 degrees to the northwest. The volcanics are of Devonian age and several units contain pyrite, pyrrhotite, chalcopyrite, sphalerite and galena mineralization which are considered to be of volcanogenic origin.
WORK DONE: IPOL 12.9 km
REFERENCES: A.R. 13400

**** Pat 2,Pat ****

MINING DIV: Kamloops ASSESSMENT REPORT 16651 INFO CLASS 2
LOCATION: LAT. 51 00 56 LONG. 119 44 47 NTS:
CLAIMS: Adam 1,Bruhn 1,Busn 1-2,Cicero 1,Shrub 1,Steep 1,Steep 3
OPERATOR: National Res. Ex.
AUTHOR: Wynne, F.
COMMODITIES: Copper,Asbestos,Iron,Zinc,Lead,Gold

DESCRIPTION: The claims lie along the contact of Devonian-Mississippian Eagle Bay Formation felsic to intermediate volcanics to the north, with Sicamous Formation impure carbonates to the south. A strong pyrrhotite-rich skarn about 200 metres thick extends across the property at the contact, which dips about 50 degrees north. Low grade gold intersections have been made at the structural base of the skarn section.
WORK DONE: MAGG 48.4 km
EMGR 48.4 km;HLEM
GRAV 3.5 km
SOIL 338;multielement
DIAD 1299.0 m;7 holes,NQ
SAMP 403;multielement
LINE 48.4 km
ROAD 1.5 km
TREN 295.0 m;8 trenches
REFERENCES: A.R. 12640
M.I. O82M 118-PAT 2;O82M 119-PAT

**** Scotch ****

MINING DIV: *** ASSESSMENT REPORT 16176 INFO CLASS 4
LOCATION: LAT. 50 57 00 LONG. 119 29 30 NTS:
CLAIMS: Scotch
OPERATOR: Brican Res.
AUTHOR: Daughtry, K.
COMMODITIES: Zinc,Copper
DESCRIPTION: Disseminated to massive pyrrhotite, pyrite, chalcopyrite and sphalerite occur in zones of stratiform mineralization in metamorphosed intermediate to felsic volcanic rocks of the Eagle Bay Formation near its contact with younger argillaceous limestone and argillite of the Sicamous Formation
WORK DONE: MAGG 4.3 km
GRAV 0.6 km
EMGR 4.3 km;HLEM
LINE 4.3 km
REFERENCES: A.R. 06237,06419,07691,12216,14998
M.I. O82LNW046-SCOTCH

**** Annis 5,Annis 8,Annis 11,Annis Main Showing *

MINING DIV: Kamloops ASSESSMENT REPORT 15523 INFO CLASS 4
LOCATION: LAT. 50 48 00 LONG. 119 03 18 NTS:
CLAIMS: LG 1
OPERATOR: Leishman, D.
AUTHOR: Leishman, D.; Gruenwald, W
COMMODITIES: Lead,Zinc,Silver,Copper
DESCRIPTION: The claim is underlain by Archean Mara Formation (Mt. Ida Group) quartzites and micaceous quartzites with graphitic horizons. Massive to semi-massive sulphides are found in bands paralleling local schistosity. Grades of up to 12 per cent combined lead-zinc with 171 grams per tonne silver are found. Copper and gold values are low. There is good correlation between geophysics and visible mineralization.
WORK DONE: LINE 3.0 km

EMGR 2.2 km;VLF
MAGG 2.8 km
REFERENCES: A.R. 04453,05864
M.I. 082LNW021-ANNIS MAIN SHOWING;082LNW023-ANNIS 8;082LNW024-ANNIS 5;082LNW25-ANNIS 11

**** Metal Crest ****

MINING DIV: *** ASSESSMENT REPORT 15427 INFO CLASS 3
LOCATION: LAT. 50 57 00 LONG. 119 26 00 NTS:
CLAIMS: Shu 1,Shu 5-6
OPERATOR: Torhsen Energy
AUTHOR: Hawkins, T.; Thomae, B.
COMMODITIES: Lead,Zinc,Gold
DESCRIPTION: The claims are underlain by a west-northwest trending sequence of Devonian-Mississippian Eagle Bay Formation mafic to felsic metavolcanics and volcaniclastics, quartzite, siliceous carbonate rocks, interbedded black argillites, conglomerate and sandstone. Oxidized euhedral pyrite is found in most rock types locally and finely disseminated pyrite is also common. Ankerite, limonite, chlorite and sericite alteration are widespread. Soil and rock chip geochemistry identified anomalous multielement values.
WORK DONE: ROCK 5;multielement
ROCK 30;multielement
SOIL 250;Au,Cu,Ag,Zn,Pb
GEOL 1:20 000
REFERENCES: A.R. 14620
M.I. 082LNW014-METAL CREST

**** Perris ****

MINING DIV: Kamloops ASSESSMENT REPORT 16658 INFO CLASS 3
LOCATION: LAT. 50 53 21 LONG. 119 21 19 NTS:
CLAIMS: Perris 1,Perris 3
OPERATOR: National Res. Ex.
AUTHOR: Wynne, F.
DESCRIPTION: The claims lie astride the contact between Sicamous Formation impure limestone to the south and Devonian-Mississippian Eagle Bay Formation rocks to the north. The Eagle Bay Formation at this point is mainly greenstone and limestone, with a section of probably felsic volcanic "paper schist" at the contact. The sequence is homoclinal and north dipping.
WORK DONE: MAGG 7.6 km
EMGR 7.6 km;HLEM
GRAV 0.4 km
LINE 7.6 km
TREN 55.0 m;2 trenches
REFERENCES:

**** Shuswap ****

MINING DIV: *** ASSESSMENT REPORT 16191 INFO CLASS 2
LOCATION: LAT. 50 57 54 LONG. 119 25 42 NTS:
CLAIMS: Dana III,Dana VI,Dana VIII,Scotch 1-2,Sow III,Sow V-VIII,Tar I-IV
OPERATOR: Nexus Res.

AUTHOR: Cope, G.; Hawkins, T.
COMMODITIES: Lead,Gold,Silver
DESCRIPTION: The property is underlain by the Devonian-Mississippian Eagle Bay Formation. A pyritic ferruginous chert horizon has been traced and tested by diamond drilling over a strike length of at least 1.3 kilometres. It has been folded and refolded into a northwest plunging overturned anticline. Gold grades increase towards the hinge.
WORK DONE: MNGR 5;polished sections
DIAD 1783.0 m;22 holes,BQ
GEOL 1:2500
LINE 18.1 km
SAMP 340;multielement
ROCK 47;multielement
IPOL 11.8 km
PETR 13;thin sections
REFERENCES: A.R. 12879
M.I. 082LNW016-SHUSWAP

**** Vimy ****

MINING DIV: Kamloops ASSESSMENT REPORT 15902 INFO CLASS 4
LOCATION: LAT. 50 53 00 LONG. 119 20 00 NTS:
CLAIMS: Vimy
OPERATOR: Peto, P.
AUTHOR: Peto, P.
COMMODITIES: Copper,Silver,Gold
DESCRIPTION: East trending chlorite schists dipping 35 degrees host a north-trending lineament associated with pyrite-chalcopyrite mineralization exposed in several old diggings with anomalous concentrations of copper-zinc in adjacent soils. VLF-electromagnetic conductors are weak or absent.
WORK DONE: SOIL 5;multielement
EMGR 6.5 km;VLF
GEOL 1:2500
REFERENCES: A.R. 02415,03036,03429,08815,13137
M.I. 082LNW020-VIMY

Seymour Arm 082M

**** Golden Eagle ****

MINING DIV: *** ASSESSMENT REPORT 16659 INFO CLASS 3
LOCATION: LAT. 51 02 40 LONG. 119 28 38 NTS:
CLAIMS: Golden Eagle,Golden Eagle II
OPERATOR: Mineta Res.
AUTHOR: Wells, R.
COMMODITIES: Copper,Lead,Zinc
DESCRIPTION: The claims are underlain by Devonian-Mississippian Eagle Bay Formation chloritic schists and calcareous phyllites with minor limestone striking east. In the eastern part of the property these are intruded by a large felsic stock of unknown age. The contact is thought to trend north. Exposures are rare. Disseminated sphalerite and galena have been found in place in siliceous phyllite.

WORK DONE: SOIL 244;Au,Ag,Cu,Pb,Zn
LINE 6.6 km
REFERENCES: A.R. 11898,13204,13513
M.I. 082M 209-GOLDEN EAGLE

**** Golden Eagle ****

MINING DIV: Kamloops ASSESSMENT REPORT 15513 INFO CLASS 4
LOCATION: LAT. 51 03 30 LONG. 119 27 30 NTS:
CLAIMS: Golden Eagle
OPERATOR: Lodmell, R.
AUTHOR: Lutjen, L.
DESCRIPTION: The claim is underlain by Cretaceous biotite granite and limestone.
WORK DONE: PROS 1:12 500
REFERENCES: A.R. 15531

**** Golden Eagle ****

MINING DIV: *** ASSESSMENT REPORT 15531 INFO CLASS 4
LOCATION: LAT. 51 03 30 LONG. 119 27 36 NTS:
CLAIMS: Golden Eagle II
OPERATOR: Barnes Creek Min.
AUTHOR: Lodmell, R.; Lutjen, L.
DESCRIPTION: The claim is underlain by schists, greenstones, limestones, and granites of Cretaceous age (?) and older.
WORK DONE: PROS 1:12 500
REFERENCES: A.R. 15513

**** Rusty,Patches ****

MINING DIV: Kamloops ASSESSMENT REPORT 15814 INFO CLASS 4
LOCATION: LAT. 51 02 00 LONG. 119 27 00 NTS:
CLAIMS: Patches
OPERATOR: Bristow, J.
AUTHOR:
DESCRIPTION: The claims are reportedly underlain by Permian or earlier grey/brown phyllites and greenstones which have been locally intruded by Jurassic/Cretaceous granodiorites and/or diorites. In general, overburden is deep with outcrops confined to road cuts and steep valley walls. This limited orientation survey included 4 samples with less than 5 ppb gold and 1 sample with 20 ppb gold content.
WORK DONE: SOIL 5;multielement
REFERENCES:

**** Ad 1 ****

MINING DIV: *** ASSESSMENT REPORT 15772 INFO CLASS 3
LOCATION: LAT. 51 02 00 LONG. 119 31 00 NTS:
CLAIMS: Ad 1
OPERATOR: Noranda Ex.
AUTHOR: Laird, B.
COMMODITIES: Lead,Copper,Zinc,Silver,Gold
DESCRIPTION: Geology in the area of study consists mainly of a shallow westerly dipping sequence of intercalated sediments and volcanics

of the Late Devonian-Early Mississippian Eagle Bay Formation. Minor galena, chalcopyrite and sphalerite mineralization is found in a 17 metre wide zone of foliated, silicified and chloritized rhyodacite to rhyolite volcanics and minor argillite. A 1 metre wide quartz vein intrudes this package of rocks.
WORK DONE: GEOL 1:500
TREN 288.0 m;1 trench
ROCK 36;Cu,Pb,Zn,Ag,Au
REFERENCES: A.R. 13514
M.I. 082M 215-AD 1

**** Axl 3 ****

MINING DIV: Kamloops ASSESSMENT REPORT 16598 INFO CLASS 2
LOCATION: LAT. 51 02 35 LONG. 119 37 48 NTS:
CLAIMS: Axl 3
OPERATOR: Clifton Res.
AUTHOR: Spencer, B.E.
COMMODITIES: Lead,Zinc,Silver
DESCRIPTION: The property is underlain by intermediate-felsic volcanics of the Devonian-Mississippian Eagle Bay Formation. The rocks strike northeast and dip 30 degrees to the northwest. Strataform massive and disseminated pyrite, pyrrhotite, sphalerite, chalcopyrite and galena occur in felsic volcanics.
REFERENCES: A.R. 06546,06549,07019,11521,11933,12724,13142,13192,13542,14716, 15609
M.I. 082M 212-AXL 3

**** Axl,Wad-Second ****

MINING DIV: *** ASSESSMENT REPORT 15609 INFO CLASS 3
LOCATION: LAT. 51 02 54 LONG. 119 36 30 NTS:
CLAIMS: Jan 3 Fr.,Axl 3,Adam 1
OPERATOR: Adams Silver Res.
AUTHOR: Spencer, B.E.
COMMODITIES: Lead,Zinc,Silver,Copper
DESCRIPTION: The claims are underlain by a northeast trending belt of intermediate to felsic volcanics and sediments of the Devonian-Mississippian Eagle Bay Formation. Pyrite, pyrrhotite, chalcopyrite, sphalerite and galena mineralization occur in felsic volcanics and at a volcanic-volcaniclastic facies change. Drilling has outlined a 500 metre strike length of low grade massive sulphide style mineralization.
WORK DONE: SAMP 11;Au,Ag,Cu,Pb,Zn
DIAD 567.5 m;7 holes,BQ
REFERENCES: A.R. 02616,03321,13192,13511,14716
M.I. 082M 211-WAD-SECOND;082M 243-AXL

**** Big Ben 2,Lucky Coon,Elsie ****

MINING DIV: Kamloops ASSESSMENT REPORT 16024 INFO CLASS 3
LOCATION: LAT. 51 04 24 LONG. 119 37 12 NTS:
CLAIMS: Adam 4,Bee-2A,Lots 5227-5232
OPERATOR: Esso Min. Can.
AUTHOR: Holbeck, P.; Thiersch, P.

COMMODITIES: Lead,Zinc,Copper,Silver,Gold,Arsenic,Cadmium
DESCRIPTION: Stratiform massive sulphide mineralization occurs along a 2.5 kilometre strike length at a volcanic-sediment contact. The rocks are part of the Devonian-Mississippian Eagle Bay Formation and have been folded to form a northwest plunging synform which dips some 35 degrees to the northwest.
WORK DONE: SAMP 26;multielement
GEOL 1:5000
SOIL 127;Ag,Pb,Zn,As
TOPO 1:5000
REFERENCES: A.R. 01629,01936A,01936B,02331,10665,11022,11521,11601
M.I. 082M 011-BIG BEN 2;082M 012-LUCKY COON;082M 213-ELSIE

**** Chris,Ceasar ****

MINING DIV: *** ASSESSMENT REPORT 15429 INFO CLASS 3
LOCATION: LAT. 51 07 00 LONG. 119 43 18 NTS:
CLAIMS: Caesar 1-2,Chris 1-2,Eric 1,JR 1,Set 1-3
OPERATOR: Omni Res.
AUTHOR: Butterworth, B.; Freeze, J.
DESCRIPTION: The claims are predominantly underlain by a metamorphosed assemblage of Devonian-Mississippian sedimentary and intermediate-mafic volcanic and volcaniclastic rocks of the Eagle Bay Formation.

Geophysical survey results identified several strong PEM conductors.
WORK DONE: EMGR 2.5 km;HLEM
GEOL 1:20 000
SOIL 330;multielement
SILT 50;multielement
ROCK 25;multielement
REFERENCES: A.R. 12376

**** Frogs ****

MINING DIV: Kamloops ASSESSMENT REPORT 15678 INFO CLASS 3
LOCATION: LAT. 51 07 00 LONG. 119 37 00 NTS:
CLAIMS: Frogs 3
OPERATOR: Guay, H.
AUTHOR: Perkins, D.
DESCRIPTION: The claims are underlain by Devonian-Mississippian Eagle Bay Formation rocks. At least three phases of folding and faulting are present. Silver-lead-zinc stratiform mineralization has been found in this Formation.
WORK DONE: DIAD 122.8 m;1 hole,NQ
REFERENCES:

**** Hut ****

MINING DIV: *** ASSESSMENT REPORT 15431 INFO CLASS 3
LOCATION: LAT. 51 10 30 LONG. 119 39 30 NTS:
CLAIMS: Hut 1-6
OPERATOR: Berglynn Res.
AUTHOR: Butterworth, B.; Freeze, J.

DESCRIPTION: Lower Cambrian and/or Hadrynian quartzite, micaceous quartzite, grit and phyllite of the Spapilem Creek-Deadfall Creek Succession are in thrust contact with intermediate to mafic volcanic and volcaniclastic rocks of the Devonian-Mississippian Eagle Bay Formation.
Geophysical survey results identified two PEM conductors.
WORK DONE: GEOL 1:20 000
SOIL 120;multielement
SILT 50;multielement
EMGR 2.8 km;HLEM
REFERENCES:

**** Owl ****

MINING DIV: Kamloops ASSESSMENT REPORT 16509 INFO CLASS 3
LOCATION: LAT. 51 03 18 LONG. 119 40 42 NTS:
CLAIMS: Owl 1-4
OPERATOR: Big Ben Res.
AUTHOR: Adamson, R.
DESCRIPTION: The property is underlain by Devonian-Mississippian meta-sedimentary and metavolcanic rocks of the Eagle Bay Formation. Foliation attitudes in chlorite schist, the principal lithology, are east-northeast with moderate northerly dips. No sulphide mineralization was observed.
WORK DONE: SOIL 465;multielement
REFERENCES:

**** Rose ****

MINING DIV: *** ASSESSMENT REPORT 15670 INFO CLASS 4
LOCATION: LAT. 51 07 42 LONG. 119 41 00 NTS:
CLAIMS: Del 2,Del 4
OPERATOR: G & D Diamond Drilling
AUTHOR: Sorbara, J.
COMMODITIES: Zinc
DESCRIPTION: Quartz veins occur in limestone of the Devonian-Mississippian Eagle Bay Formation.
WORK DONE: DIAD 33.8 m;4 holes,BQ
REFERENCES: A.R. 10782,14046
M.I. 082M 057-ROSE

**** Bar ****

MINING DIV: Kamloops ASSESSMENT REPORT 15681 INFO CLASS 3
LOCATION: LAT. 51 10 54 LONG. 119 56 54 NTS:
CLAIMS: Bar 4-9,Bar 11,Bar 13
OPERATOR: Falconbridge Copper
AUTHOR: Evans, G.
DESCRIPTION: The claims are underlain by deformed mafic-felsic volcanics and associated sedimentary rocks of the Devonian-Mississippian Eagle Bay Formation.
The drill holes intersected a section of submarine mafic flows and pyroclastics interbedded with argillites and cherts. Two HLEM conductors were drilled and found to be graphitic argillites.
WORK DONE: DIAD 507.6 m;3 holes,NQ

EMGR 64.2 km;HLEM
SAMP 81;Cu,Zn,Pb,Ag,Au
REFERENCES: A.R. 13067

**** Bay ****

MINING DIV: *** ASSESSMENT REPORT 16209 INFO CLASS 2
LOCATION: LAT. 51 06 18 LONG. 119 46 00 NTS:
CLAIMS: Bay 1-2,Bay 11-16,Bay 5-7
OPERATOR: Kidd Creek Mines
AUTHOR: Hassard, F.
DESCRIPTION: The Bay property is underlain by mafic and felsic metavolcanics of the Devonian-Mississippian Eagle Bay Formation. Lithologies strike northwesterly and the felsic and mafic assemblages are separated by a thrust fault.
WORK DONE: LINE 67.0 km
SOIL 2992;multielement
TOPO 1:5000
REFERENCES:

**** Bay ****

MINING DIV: Kamloops ASSESSMENT REPORT 16564 INFO CLASS 3
LOCATION: LAT. 51 06 12 LONG. 119 46 00 NTS:
CLAIMS: Bay 1-2,Bay 13-14,Bay 5-7
OPERATOR: Kidd Creek Mines
AUTHOR: Hendrickson, G.A.
DESCRIPTION: The Bay property is underlain by mafic and felsic metavolcanics of the Devonian-Mississippian Eagle Bay Formation. Lithologies strike northwesterly and the felsic and mafic assemblages are separated by a thrust fault.
WORK DONE: EMGR 70.0 km;VLF,HLEM
MAGG 70.0 km
REFERENCES: A.R. 16209

**** Cana ****

MINING DIV: *** ASSESSMENT REPORT 15473 INFO CLASS 3
LOCATION: LAT. 51 10 42 LONG. 119 51 06 NTS:
CLAIMS: Cana 2-13,Cana 18-21
OPERATOR: Esso Min.
AUTHOR: Doborzynski, Z.; Marr, J.
DESCRIPTION: There are no outcrops on the property. It is inferred to be underlain by Devonian-Mississippian Eagle Bay Formation sedimentary and volcanic rocks and a capping of Tertiary basalt and extensive surficial deposits.
WORK DONE: EMGR 8.9 km;HLEM
SOIL 271;Ag,Cu,Pb,Zn
REFERENCES:

**** Gill ****

MINING DIV: Kamloops ASSESSMENT REPORT 15480 INFO CLASS 3
LOCATION: LAT. 51 11 54 LONG. 119 51 12 NTS:
CLAIMS: Gill 1

OPERATOR: Esso Res. Can.
AUTHOR: Marr, J.
DESCRIPTION: The claim area is underlain by Tertiary basalt and glacial till.
WORK DONE: LINE 6.5 km
SOIL 131;Ag,Cu,Pb,Zn
REFERENCES:

**** JM ****

MINING DIV: *** ASSESSMENT REPORT 16044 INFO CLASS 4
LOCATION: LAT. 51 08 24 LONG. 119 46 42 NTS:
CLAIMS: JM 1-5,JM 6 Fr.
OPERATOR: Esso Res. Can.
AUTHOR: Marr, J.; Reed, M.
DESCRIPTION: The claims are underlain by mafic pyroclastics and flows of the Devono-Mississippian Eagle Bay Formation, and associated Tshinakin limestone. Minor veins and areas of alteration occur on the property.
WORK DONE: GEOL 1:2500
SOIL 97;Pb,Zn,Ag,Cu
REFERENCES:

**** Kamad ****

MINING DIV: Kamloops ASSESSMENT REPORT 16230 INFO CLASS 3
LOCATION: LAT. 51 08 24 LONG. 119 48 12 NTS:
CLAIMS: Kamad 7
OPERATOR: Esso Res. Can.
AUTHOR: Marr, J.
DESCRIPTION: A poorly exposed mafic volcanic-sedimentary contact zone with minor to significant pyrite occurs in a series of cherts, sericitic-cherts and sericitic phyllites. The sequence trends northwest and dips at moderate angles to the northeast.
WORK DONE: SAMP 60;multielement
DIAD 799.6 m;5 holes,NQ
REFERENCES:

**** Kenar ****

MINING DIV: *** ASSESSMENT REPORT 15613 INFO CLASS 4
LOCATION: LAT. 51 05 00 LONG. 119 57 00 NTS:
CLAIMS: Kenar 1-3
OPERATOR: Kenar Res.
AUTHOR: Kregosky, R.
DESCRIPTION: The Kenar claims are located within the Eagle Bay Formation of Upper Devonian age. These metasedimentary rocks consist of black phyllites, chloritic and sericite-quartz phyllites, quartzites and limestones. Bedding and foliation trend southeasterly with dips to the northeast. An overturned fold axis plunge at 10-20 degrees in a northwesterly direction.
WORK DONE: GEOL 1:1000
ROCK 10;Ag,Cu,Pb,Zn
REFERENCES: A.R. 12700

**** Lith ****

MINING DIV: Kamloops ASSESSMENT REPORT 16662 INFO CLASS 3
LOCATION: LAT. 51 04 11 LONG. 119 57 32 NTS:
CLAIMS: Lith 1-2
OPERATOR: National Res. Ex.
AUTHOR: Wynne, F.
DESCRIPTION: The claims are underlain by a homoclinal, north dipping sequence of interlayered felsic volcanics and impure, limy sediments near the southern edge of the Devonian-Missippian Eagle Bay Formation. A narrow, easterly trending band of mafic greenstone outcrops on the southern edge of the property and forms the cliffs on Fadear Mountain.
WORK DONE: MAGG 17.5 km
EMGR 17.5 km;HLEM
GRAV 0.3 km
LINE 17.5 km
TREN 150.0 m;4 trenches
REFERENCES:

**** Ok ****

MINING DIV: *** ASSESSMENT REPORT 15402 INFO CLASS 3
LOCATION: LAT. 51 08 00 LONG. 119 52 24 NTS:
CLAIMS: OK 1
OPERATOR: Algo Res.
AUTHOR: Furneaux, B.
DESCRIPTION: The claims appear to be underlain by felsic-intermediate metavolcanics of the Devonian-Mississippian Eagle Bay Formation. Drill testing of a ground electromagnetic conductor yielded massive graphitic phyllite within pyritic, silicified intermediate meta-volcanics.
WORK DONE: DIAD 364.2 m;4 holes,NQ
SAMP 8;Au,Ag
REFERENCES: A.R. 06679

**** Pine ****

MINING DIV: Kamloops ASSESSMENT REPORT 15908 INFO CLASS 3
LOCATION: LAT. 51 02 00 LONG. 119 46 00 NTS:
CLAIMS: SBS 1-6
OPERATOR: Minnova
AUTHOR: Pirie, I.
COMMODITIES: Copper,Lead,Zinc,Gold,Silver,Barium
DESCRIPTION: The property lies within the Paleozoic Eagle Bay Formation. It is underlain by northwest striking mafic-felsic schists which dip at 30-50 degrees to the northeast. Moderate amounts of chlorite and sericite alteration are present and trace amounts of galena and malachite have been noted.
WORK DONE: GEOL 1:10 000
ROCK 146;multielement
REFERENCES: A.R. 06890
M.I. 082M 120-PINE

**** S.B.L. ****

MINING DIV: *** ASSESSMENT REPORT 15460 INFO CLASS 4
LOCATION: LAT. 51 10 42 LONG. 119 48 00 NTS:
CLAIMS: SBL 1
OPERATOR: Island Min. & Ex.
AUTHOR: Butterworth, B.; Freeze, J.
DESCRIPTION: The claims are predominantly underlain by a metamorphosed assemblage of Devonian-Mississippian sedimentary and intermediate-mafic volcanic and volcaniclastic rocks of the Eagle Bay Formation.
WORK DONE: ROCK 4;Cu,Zn,Ag,As,Ba,Au
EMGR 2.5 km;HLEM
SOIL 41;Cu,Zn,Ag,As,Ba,Au
GEOL 1:12 500
REFERENCES: A.R. 13185

**** Twin Mountain ****

MINING DIV: Kamloops ASSESSMENT REPORT 15568 INFO CLASS 3
LOCATION: LAT. 51 08 00 LONG. 119 47 30 NTS:
CLAIMS: Twin 1-3
OPERATOR: Lincoln Res.
AUTHOR: Bianchflower, J.; Doborzynski, Z.
COMMODITIES: Lead,Zinc,Silver,Copper,Gold,Barium
DESCRIPTION: The claims are underlain by mafic volcanic flows and pyroclastics, and sedimentary units of the Devonian-Mississippian Eagle Bay Formation. These rocks trend northwesterly and dip 44-60 degrees northeastward. Strike-slip faults are common and are parallel with and perpendicular to the schistosity and bedding. All rocks have undergone regional lower greenschist facies metamorphism.
WORK DONE: TREN 300.0 m;11 trenches
ROCK 8;multielement
LINE 29.5 km
SAMP 55;multielement
EMGR 17.8 km;HLEM
SOIL 361;multielement
GEOL 1:5000
REFERENCES: A.R. 01783,02093,08942,09882,11990,13614
M.I. 082M 020-TWIN MOUNTAIN

**** Wiki ****

MINING DIV: *** ASSESSMENT REPORT 15485 INFO CLASS 3
LOCATION: LAT. 51 13 12 LONG. 119 52 54 NTS:
CLAIMS: Wiki 3
OPERATOR: Esso Res. Can.
AUTHOR: Doborzynski, Z.; Marr, J.
DESCRIPTION: The contact of Devonian-Mississippian Eagle Bay Formation volcanic and sedimentary rocks is inferred to be present on the claims but it is not exposed; only Tertiary basalt and extensive surficial deposits are evident.
WORK DONE: EMGR 5.3 km;HLEM

TREN 150.0 m;3 trenches
SOIL 357;Ag,Cu,Pb,Zn
REFERENCES: A.R. 14613

**** Win ****

MINING DIV: Kamloops ASSESSMENT REPORT 15433 INFO CLASS 3
LOCATION: LAT. 51 04 00 LONG. 119 49 54 NTS:
CLAIMS: Win 3,Win 6
OPERATOR: Ashton, J.
AUTHOR: Doborzynski, Z.
DESCRIPTION: The claims are underlain by schists, phyllites and greenstones derived from sedimentary and volcanic rocks of the Devonian-Mississippian Eagle Bay Formation. They are tightly folded along northeast trending axes. Slaty cleavage is superimposed along and across bedding planes. At least one north-south fault is identified. Known mineralization is confined to disseminated pyrite in greenstone and schist. Geophysical survey results identified four HLEM conductors.
WORK DONE: EMGR 14.4 km;HLEM
REFERENCES: A.R. 13147,14409

**** Win ****

MINING DIV: *** ASSESSMENT REPORT 16421 INFO CLASS 3
LOCATION: LAT. 51 04 18 LONG. 119 49 36 NTS:
CLAIMS: Win 3
OPERATOR: Ashton, J.
AUTHOR: Blanchflower, J.
DESCRIPTION: The property is underlain by volcanic, volcaniclastic and sedimentary rocks belonging to the Devonian-Mississippian Eagle Bay Formation. These rocks strike northwesterly and dip moderately northeastward. Fracture and shear structures parallel the foliation or crosscut the lithologies. White fracture-filling quartz veins host local pyrite mineralization with minor chalcopyrite, galena and sphalerite. Diagenetic pyrite disseminations are pervasive.
WORK DONE: SAMP 51;Au,Ag,Cu,Pb,Zn
DIAD 796.8 m;4 holes,NQ
REFERENCES:

**** Anna ****

MINING DIV: Kamloops ASSESSMENT REPORT 15508 INFO CLASS 3
LOCATION: LAT. 51 15 48 LONG. 120 01 06 NTS:
CLAIMS: Anna 1-2,Anna 7-8
OPERATOR: Falconbridge Copper
AUTHOR: Evans, G.
DESCRIPTION: Devonian-Permian Fennell Formation volcanics and sedimentary rocks are intruded by late stage mafic diorites. The western portion of the claims is dominated by mafic submarine volcanics with cherts, while the eastern portion is underlain by an intrusive felsic centre with interbedded sediments and extrusive felsic volcanics.
WORK DONE: ROCK 137;multielement
GEOL 1:2500

REFERENCES: A.R. 14243

**** Cad ****

MINING DIV: *** ASSESSMENT REPORT 16331 INFO CLASS 3
LOCATION: LAT. 51 18 06 LONG. 119 51 42 NTS:
CLAIMS: Cad,NBR 8
OPERATOR: Graham, J.C.
AUTHOR: Blanchflower, J.
COMMODITIES: Zinc,Lead,Silver
DESCRIPTION: The property is underlain by a shallow dipping, thinly-bedded sequence of marine sediments belonging to the Devonian-Mississippian Eagle Bay Formation. All rocks have undergone lower greenschist facies regional metamorphism. Minor pyrite and rare chalcopyrite, galena and sphalerite mineralization is associated with white, fracture controlled quartz veins, parallel to the bedding and schistosity of the host rocks.
WORK DONE: DIAD 394.1 m;3 holes,NQ
SAMP 21;Cu,Pb,Zn,Ag,Au
REFERENCES: A.R. 13168,14397
M.I. 082M 222-CAD

**** Fortuna 1 ****

MINING DIV: Kamloops ASSESSMENT REPORT 16108 INFO CLASS 4
LOCATION: LAT. 51 21 00 LONG. 119 56 24 NTS:
CLAIMS: Kidzicks
OPERATOR: Noranda Ex.
AUTHOR: Laird, B.
COMMODITIES: Lead,Silver
DESCRIPTION: The property is underlain by Devonian-Mississippian andesite tuffs of the Eagle Bay Formation which trend northwest with shallow southwest dips.
WORK DONE: ROCK 5;multielement
SOIL 79;multielement
GEOL 1:5000
REFERENCES: M.I. 082M 072-FORTUNA 1

**** Harper ****

MINING DIV: *** ASSESSMENT REPORT 15802 INFO CLASS 3
LOCATION: LAT. 51 20 36 LONG. 119 52 00 NTS:
CLAIMS: NB 1-2
OPERATOR: Westech Res.
AUTHOR: Dawson, J.
COMMODITIES: Copper,Zinc,Lead,Silver,Gold
DESCRIPTION: Weakly metamorphosed intermediate volcanics and sediments of the Devonian-Mississippian Eagle Bay Formation are intruded by granitic rocks of the Cretaceous Baldy Batholith. Conformable sulphide bands consisting of pyrite, pyrrhotite and lesser chalcopyrite are found at two separate localities and have been investigated by drilling, trenching and tunnelling. Recent sampling indicates low grade gold values associated with one of the areas of old showings.
WORK DONE: GEOL 1:500
EMGR 24.0 km;VLF

MAGG 24.0 km
SOIL 771;Au,Ag
REFERENCES: A.R. 02627,03716,11095,12442,12567
M.I. 082M 060-HARPER

**** Kajun,Adon V ****

MINING DIV: Kamloops ASSESSMENT REPORT 15483 INFO CLASS 3
LOCATION: LAT. 51 15 24 LONG. 119 48 06 NTS:
CLAIMS: Adon V,Sobs
OPERATOR: Titan Res.
AUTHOR: Caufield, D.; Ikona, C.
COMMODITIES: Silver,Lead,Zinc,Copper,Gold
DESCRIPTION: The claims are underlain by volcanic and associated sedimentary units of the Devonian-Mississippian Eagle Bay Formation. Two significant types of mineralization have been found to date: structurally controlled base metal sulphides replacing limestone or limy sediments and stratabound pyrrhotite-pyrite-chalcopyrite hosted in a quartz-sericite schist unit.
WORK DONE: LINE 9.0 km
SOIL 42;Pb,Zn,Cu,Ag,Au,As
ROCK 49;Pb,Zn,Cu,Ag,Au
SAMP 18;Cu,Pb,Zn,Ag,Au
DIAD 118.9 m;3 holes,NQ
EMGR 24.4 km;HLEM,VLF
MAGG 15.0 km
REFERENCES: A.R. 04579,04685,14392
M.I. 082M 058-KAJUN;082M 223-ADON V

**** Sc ****

MINING DIV: *** ASSESSMENT REPORT 15856 INFO CLASS 3
LOCATION: LAT. 51 17 42 LONG. 120 00 00 NTS:
CLAIMS: SC 2-3
OPERATOR: Falconbridge Copper
AUTHOR: Evans, G.
COMMODITIES: Silver,Gold
DESCRIPTION: The claims are underlain by Devonian-Permian Fennell Formation felsic volcanics and marine sediments that strike 340 degrees. Felsic volcanic centres host quartz-pyrite stockwork which carry precious metal values.
WORK DONE: DIAD 518.9 m;4 holes,NQ
LINE 11.0 km
SAMP 175;multielement
REFERENCES: M.I. 092P 160-SC

**** White Rock (L.4023) ****

MINING DIV: Kamloops ASSESSMENT REPORT 16190 INFO CLASS 4
LOCATION: LAT. 51 17 54 LONG. 119 54 00 NTS:
CLAIMS: White Rock (L.4023),White Rock 1
OPERATOR: National Res. Ex.
AUTHOR: Kyba, B.
COMMODITIES: Lead,Silver,Zinc,Copper,Gold
DESCRIPTION: A large area of sheeted and stockwork quartz veins cut meta-

sediments of the Devonian-Mississippian Eagle Bay Formation. The veins contain pods of tetrahedrite, galena and sphalerite.
WORK DONE: ROCK 16;multielement
GEOL 1:2400
REFERENCES: A.R. 00069,00070,03333,06202,06802,06879,11125,14388
M.I. 082M 066-WHITE ROCK

**** Keystone 1 ****

MINING DIV: Revelstoke ASSESSMENT REPORT 16089 INFO CLASS 3
LOCATION: LAT. 51 26 48 LONG. 118 26 54 NTS:
CLAIMS: Key 1,Key 3
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.; Wild, C.
COMMODITIES: Zinc,Copper
DESCRIPTION: The claims are underlain by micaceous quartzites and phyllites of the quartzite schist and metavolcanic-phyllite divisions tentatively correlated with the Cambrian-Devonian Lardeau Group. Recumbent isoclinal folds, upright open folds and rapid facies changes are present.
WORK DONE: MAGG 12.5 km
EMGR 11.2 km;HLEM
LINE 12.5 km
REFERENCES: A.R. 09721,14351
M.I. 082M 088-KEYSTONE

**** Next 1,Bend ****

MINING DIV: *** ASSESSMENT REPORT 15484 INFO CLASS 3
LOCATION: LAT. 51 38 18 LONG. 118 30 00 NTS:
CLAIMS: Gr 3-4,Pat 26,Pat 28,Pat 30,Pat 35-49,Pat 100,Pat 1100,Pat 1200
OPERATOR: Noranda Ex.
AUTHOR: Gibson, G.
COMMODITIES: Copper,Zinc,Talc
DESCRIPTION: The claims are underlain by Paleozoic northerly dipping, dark banded graphitic schist, chlorite schist, talc schist, marble, quartz-mica schist and quartzite.
WORK DONE: GEOL 1:25 000
REFERENCES: A.R. 06176,06327,06371,06490,11578
M.I. 082M 149-BEND;082M 204-NEXT 1

**** Carbide ****

MINING DIV: Revelstoke ASSESSMENT REPORT 15991 INFO CLASS 4
LOCATION: LAT. 51 32 00 LONG. 118 38 12 NTS:
CLAIMS: Carbide
OPERATOR: Leask, J.
AUTHOR: Leask, G.
COMMODITIES: Zinc,Lead,Silver
DESCRIPTION: Sulphide replacement "Manto" mineralization occurs in white, fetid carbonate of the Mantling Gneiss Group. Mineralization consists of sphalerite, galena, pyrite with minor chalcopyrite and tetrahedrite.
WORK DONE: GEOL 1:10 000
REFERENCES: A.R. 06229,12092

M.I. 082M 150-CARBIDE

**** Oro Viejo ****

MINING DIV: *** ASSESSMENT REPORT 16604 INFO CLASS 3
LOCATION: LAT. 51 39 39 LONG. 118 36 03 NTS:
CLAIMS: Oro Viejo 1-4
OPERATOR: Komarechka, R.
AUTHOR: Komarechka, R.
COMMODITIES: Dolomite,Talc
DESCRIPTION: The claims are underlain by Proterozoic Horsethief Creek Group Cambrian-Devonian Lardeau Group and Cambrian Hamill Group rocks.
WORK DONE: GEOL 1:12500
ROCK 27;whole rock
REFERENCES: M.I. 082M 254-ORO VIEJO

**** Chuck 1 ****

MINING DIV: Kamloops ASSESSMENT REPORT 16377 INFO CLASS 3
LOCATION: LAT. 51 32 40 LONG. 119 37 00 NTS:
CLAIMS: Chuck 1
OPERATOR: Granges Ex.
AUTHOR: Watson, I.
DESCRIPTION: The property is underlain by quartzites and mica schists of the Eagle Bay Formation along the south limb of an east-west syncline. The beds are apparently overturned. Outcrops are rare on the property - sericite schist and limestone, and schistose quartz-veined wackes.
WORK DONE: SOIL 120;Au,Ag,As
REFERENCES:

**** Harper Creek ****

MINING DIV: *** ASSESSMENT REPORT 16226 INFO CLASS 4
LOCATION: LAT. 51 31 54 LONG. 119 49 12 NTS:
CLAIMS: Hail 2,Hail 4,Hail 7-10
OPERATOR: Aurun Mines
AUTHOR: Lammle, C.A.R.
COMMODITIES: Copper,Molybdenum,Titanium,Lead,Zinc
DESCRIPTION: Stratabound volcanogenic pyrite and chalcopyrite mineralization occurs with possible gold values.
WORK DONE: SAMP 57;Cu,Ag,Au
REFERENCES: A.R. 01035,01612
M.I. 082M 009-HARPER CREEK

**** Tinkirk ****

MINING DIV: Kamloops ASSESSMENT REPORT 15817 INFO CLASS 3
LOCATION: LAT. 51 36 24 LONG. 119 47 00 NTS:
CLAIMS: Noble 3-5
OPERATOR: Placer Dev.
AUTHOR: Pinsent, R.
COMMODITIES: Silver,Lead,Gold,Copper
DESCRIPTION: The claims are underlain by Devonian-Mississippian Eagle Bay Formation deformed metasedimentary and metavolcanic strata. It

includes a thick unit of pyritic quartz sericite schist that contains intercalated lenses of massive sulphide. Some of these lenses contain appreciable amounts of lead, zinc and silver.
WORK DONE: EMGR 2.8 km;VLF
SILT 40;multielement
SOIL 89;multielement
ROCK 16;multielement
MAGG 2.8 km
GEOL 1:1000
REFERENCES: A.R. 14728
M.I. 082M 032-TINKIRK

**** Ck-New ****

MINING DIV: *** ASSESSMENT REPORT 16030 INFO CLASS 2
LOCATION: LAT. 51 54 24 LONG. 119 34 12 NTS:
CLAIMS: CK 84,CK 86
OPERATOR: Verdstone Gold
AUTHOR: Blanchflower, J.
COMMODITIES: Zinc,Lead,Copper,Silver
DESCRIPTION: The claims are underlain by a strongly foliated and lineated assemblage of metasedimentary gneiss, schist and marble of the Shuswap Metamorphic Complex. Numerous dykes and sills of pegmatite intrude the metasedimentary rocks. The strata trends northerly and dips eastward. Stratiform sphalerite, galena, pyrrhotite and/or pyrite occur within a continuous sulphide-bearing horizon which has been traced for 20 kilometres. There are twelve known showings of zinc, lead and silver mineralization.
WORK DONE: DIAD 1372.8 m;13 holes,BQ
SAMP 49;Au,Ag,Cu,Pb,Zn
RECL Drill sites
LSUR 1:5000
REFERENCES: A.R. 05189,05192,05471,05613,05631,06756,06909,07213,07299,07423, 07644,08317,09011,16030
M.I. 082M 224-CK-NEW

**** Gotcha ****

MINING DIV: Kamloops ASSESSMENT REPORT 15696 INFO CLASS 4
LOCATION: LAT. 51 50 12 LONG. 119 41 30 NTS:
CLAIMS: ML 16
OPERATOR: Trouder Res.
AUTHOR: Falconer, J.
COMMODITIES: Tungsten
DESCRIPTION: The claims are underlain by metasedimentary rocks of the Proterozoic Snowshoe Formation which are intruded by mid-Cretaceous quartz monzonite and early Tertiary alaskite. Tungsten mineralization is localized within siliceous garnet skarn.
WORK DONE: GEOL 1:588
REFERENCES: A.R. 04270,07607,07884
M.I. 082M 123-GOTCHA

**** Mica ****

MINING DIV: Revelstoke ASSESSMENT REPORT 16530 INFO CLASS 3

LOCATION: LAT. 51 51 12 LONG. 118 31 00 NTS:
CLAIMS: Mica 39,Mica 47,Mica 53-54
OPERATOR: E & B Ex.
AUTHOR: Tindall, M.
DESCRIPTION: Pelitic metasediments of Lower Paleozoic age are host to a stratiform lead-zinc massive sulphide occurrence on the Rift and Mica 12 claims.
WORK DONE: ROCK 1;multielement
SILT 5;multielement
SOIL 170;multielement
REFERENCES:

**** Iron Cap (Allco Silver) ****

MINING DIV: *** ASSESSMENT REPORT 15559 INFO CLASS 3
LOCATION: LAT. 51 13 36 LONG. 117 58 48 NTS:
CLAIMS: Limestone Dyke 1-8,Limestone Dyke 19,Limestone Fraction,Midas 1-7
OPERATOR: Gunsteel Res.
AUTHOR: Allen, D.; Gravel, J.
COMMODITIES: Silver,Lead,Zinc,Tin
DESCRIPTION: Massive galena-sphalerite-chalcopyrite-tetrahedrite veins and pods occur in and along a fault contact between Cambrian Badshot Formation limestone and Cambrian-Devonian Lardeau Group argillites.
WORK DONE: SILT 16;multielement
LINE 32.0 km
SOIL 541;multielement
ROCK 43;multielement
GEOL 1:5000
EMGR 12.0 km;VLF,HLEM
REFERENCES: A.R. 12041,13288,14403
M.I. 082N 016-IRON CAP (ALLCO SILVER)

**** Sheep,Grizzly ****

MINING DIV: Golden ASSESSMENT REPORT 16459 INFO CLASS 4
LOCATION: LAT. 51 41 18 LONG. 117 20 30 NTS:
CLAIMS: Dispute,Grizzly,Sheep
OPERATOR: Empey, E.
AUTHOR: Dasler, P.G.
DESCRIPTION: The claims are underlain by thin-bedded grey and grey-brown limestone and argillaceous limestone which has been correlated with the Middle Cambrian Chancellor Formation.
WORK DONE: SAMP 1;Au,Ag,Pb,Cu
REFERENCES: A.R. 9745,10954,11908

**** Jack ****

MINING DIV: *** ASSESSMENT REPORT 16195 INFO CLASS 3
LOCATION: LAT. 51 54 00 LONG. 117 07 24 NTS:
CLAIMS: Jack 1
OPERATOR: Dia Met Min.
AUTHOR: Fipke, C.; Freeze, J.

COMMODITIES: Diamond,Gemstones
DESCRIPTION: Diatreme(s) are emplaced in three phases of an isoclinally folded and faulted east dipping limb of a major northwest striking anticline that is overthrust along the northwest trending Mons Creek Fault on an Upper Devonian reefal carbonate sequence. Host rocks are predominantly the Middle Ordovician Skoki Formation. A diamond and diamond indicator mineral bearing crater infill sequence occurs.
WORK DONE: SAMP 14;multielement
MNGR 14
PETR 4;thin sections
DIAD 770.8 m;2 holes,HQ
REFERENCES: M.I. 082N 088-JACK

**** Bend 1 Canyon Zone ****

MINING DIV: Golden ASSESSMENT REPORT 16544 INFO CLASS 3
LOCATION: LAT. 52 03 00 LONG. 118 13 24 NTS:
CLAIMS: Bend 2-4
OPERATOR: Cominco
AUTHOR: Mawer, A.
COMMODITIES: Zinc,Lead,Silver
DESCRIPTION: The claims are underlain by a mixed assemblage of Lower-Middle Cambrian sediments consisting of quartzite, limestone and calcareous garnet-staurolite schists. The units strike north-westerly, dip steeply west and are isoclinally folded with 10 degree northerly plunges.
WORK DONE: GEOL 1:5000,1:2500
ROAD 1.4 km
ROCK 20;multielement
REFERENCES: A.R. 02473,02560,02614,02991,02992,09994,11565,12155,15251
M.I. 083D 001-BEND 1 CANYON ZONE

**** Punchbowl ****

MINING DIV: *** ASSESSMENT REPORT 16242 INFO CLASS 4
LOCATION: LAT. 52 23 06 LONG. 118 10 18 NTS:
CLAIMS: Bowl 1-2,Punch 1-7
OPERATOR: Gamsan Res.
AUTHOR: Foster, S.; Godfrey, J.
COMMODITIES: Gold,Lead
DESCRIPTION: Cambrian Gog Group meta-arenites with interbedded metapelite lenses strike northwest and dip moderately east. Mineralization is hosted by quartz veins which occupy dilatent bedding planes and includes abundant pyrite, sparse galena, sphalerite(?) and native gold.
WORK DONE: GEOL 1:50 000
SILT 16;Au
ROCK 43;Au,Ag
PETR 2 thin sections
REFERENCES: M.I. 083D 038-PUNCH BOWL

**** Cariboo ****

MINING DIV: Cariboo ASSESSMENT REPORT 15917 INFO CLASS 4
LOCATION: LAT. 52 39 06 LONG. 119 08 42 NTS:
CLAIMS: Cariboo 1-2
OPERATOR: Trio Gold
AUTHOR: Hewgill, W.
DESCRIPTION: The Cariboo property is underlain by metamorphosed sedimentary rocks of the Malton Gneiss of possible Precambrian age which are folded along a northwest trending axis with dips to the south. Several phases of folding are believed to have occurred and this generalization may be simply the last phase.
WORK DONE: ROCK 10:Au,Ag,Cu
SOIL 68:Au,Ag,Cu
SILT 9:Au,Ag,Cu
REFERENCES:

**** Dove,Ingrid ****

MINING DIV: Kamloops ASSESSMENT REPORT 15984 INFO CLASS 3
LOCATION: LAT. 52 37 18 LONG. 119 07 30 NTS:
CLAIMS: Ingrid 1-4
OPERATOR: Redbird Gold
AUTHOR: Roed, M.
DESCRIPTION: Gold and copper mineralization occur in fracture zones in highly metamorphosed rocks of the Malton Gneiss complex.
WORK DONE: LINE 11.0 km
SOIL 322;Au,Ag,Cu
REFERENCES: A.R. 07597,12010

**** Expo ****

MINING DIV: *** ASSESSMENT REPORT 15916 INFO CLASS 4
LOCATION: LAT. 52 36 00 LONG. 119 05 30 NTS:
CLAIMS: Expo 1-2
OPERATOR: Trio Gold
AUTHOR: Hewgill, W.
DESCRIPTION: The Expo claims are underlain by metamorphosed sedimentary rocks of the Malton Gneiss of possible Precambrian age. The area appears to be folded along a northwest trending axis with dips to the south. Several phases of folding have resulted in complex geology.
WORK DONE: SOIL 62:Au,Ag,Cu
SILT 16;Au,Ag,Cu
REFERENCES:

Victoria 092B

**** Patriarche ****

MINING DIV: Victoria ASSESSMENT REPORT 16166 INFO CLASS 4
LOCATION: LAT. 48 30 06 LONG. 123 33 24 NTS:
CLAIMS: Tunnel Hill I-VIII

OPERATOR: Redwood Res.
AUTHOR: McLeod, J.
COMMODITIES: Lead
DESCRIPTION: The claims are underlain by intercalated sediments and volcanics thought to be Triassic-Cretaceous in age and intrusive rocks which are considered to range in age from Paleozoic to younger. Weak chlorite-sericite alteration has been observed in places. Mineralization noted was pyrrhotite, pyrite, magnetite and minor chalcopyrite.
WORK DONE: ROCK 6;multielement
GEOL 1:12 500
REFERENCES: A.R. 15088
M.I. 092B 103-PATRIARCHE

**** Bonanza ****

MINING DIV: *** ASSESSMENT REPORT 16232 INFO CLASS 4
LOCATION: LAT. 48 34 06 LONG. 123 44 48 NTS:
CLAIMS: Bonanza,Bonanza 2
OPERATOR: Boitard, C.
AUTHOR: Sookochoff, L.
DESCRIPTION: Foliated Paleozoic Work Gneiss consists of hornblende, saussuritized plagioclase and minor quartz and magnetite.
Anomalous gold values in soil are generally associated with shear zones.
WORK DONE: SOIL 127;multielement
REFERENCES:

**** Bear ****

MINING DIV: Victoria ASSESSMENT REPORT 15954 INFO CLASS 4
LOCATION: LAT. 48 36 00 LONG. 123 58 00 NTS:
CLAIMS: Bear
OPERATOR: Milwarde-Yates, D.
AUTHOR: Milwarde-Yates, D.
DESCRIPTION: The Bear claim straddles the San Juan Fault and is west of the Survey Mountain Fault. Basaltic-rhyolitic tuffs, breccia and flows of the Bonanza Group of Lower to Middle Jurassic age and serpentinite in association with the San Juan Fault underlie the property.
WORK DONE: SPOT 3.0 km
REFERENCES:

**** Blaze,Peg,Bear Creek ****

MINING DIV: *** ASSESSMENT REPORT 15509 INFO CLASS 3
LOCATION: LAT. 48 30 36 LONG. 123 54 30 NTS:
CLAIMS: Blaze 3-4,Bpex 2,Bpex 5-6,Bpex 9,Bpex 12,P.C. 1,Jordan Gold 1-3 Jordan Gold 5,Luster 1-2
OPERATOR: Beau Pre Ex.
AUTHOR: Peatfield, G.
COMMODITIES: Gold,Silver,Lead,Beryl,Feldspar,Diatomite
DESCRIPTION: Metasedimentary rocks of the (Jurassic-Cretaceous?) Leech River Complex host narrow quartz veins with locally spectacular gold mineralization. South of the Leech River shear zone, the

property is underlain by Eocene Metchosin basaltic volcanic rocks.
WORK DONE: SILT 27;multielement
HMIN 27;multielement
SOIL 107;multielement
REFERENCES: A.R. 06298,06598,06844,09050,10110,12642
M.I. 092B 108-BLAZE;092B 111-PEG;092B 115-BEAR CREEK

**** Holt West,Holt East ****

MINING DIV: Victoria ASSESSMENT REPORT 16059 INFO CLASS 1
LOCATION: LAT. 48 42 48 LONG. 123 51 12 NTS:
CLAIMS: Holt 1-15
OPERATOR: Nexus Res.
AUTHOR: Gunning, M.; Sketchley, D.
COMMODITIES: Silver,Gold,Copper,Zinc
DESCRIPTION: The claims are underlain by Paleozoic Sicker Group volcanic and sedimentary rocks with lesser Upper Triassic Vancouver Group and Upper Cretaceous Nanaimo Group rocks. The Sicker Group is exposed in a northwesterly trending syncline. Stratigraphy is continuous across the entire claim group. An argillite, chert and tuff unit contains up to 20 per cent pyrite. Gold, silver, arsenic and barium anomalies are common.
WORK DONE: SOIL 3068;multielement
SILT 134;multielement
TOPO 1:10 000
SAMP 39;multielement
GEOL 1:10 000,1:2500
TREN 750.0 m;2 trenches
PETR 11;thin sections
ROCK 445;multielement
REFERENCES: M.I. 092B 134-HOLT EAST;092B 135-HOLT WEST

**** Leech ****

MINING DIV: *** ASSESSMENT REPORT 16402 INFO CLASS 4
LOCATION: LAT. 48 33 30 LONG. 123 52 00 NTS:
CLAIMS: Leech 1-3
OPERATOR: Valentine Gold
AUTHOR: Peart, P.
DESCRIPTION: Jurassic Leech River schists form a major antiform trending 130 degrees, plunging 30 degrees. Gold mineralization is not associated with pyrite, arsenopyrite or other mineralization.
WORK DONE: ROCK 71;Au
SILT 12;Au
GEOL 1:10 000
REFERENCES: A.R. 14691

**** VG ****

MINING DIV: Victoria ASSESSMENT REPORT 16165 INFO CLASS 3
LOCATION: LAT. 48 33 36 LONG. 123 56 54 NTS:
CLAIMS: VG 1-3,Val
OPERATOR: Expeditor Res. Group
AUTHOR: Arnold, R.
DESCRIPTION: The claims are underlain by metamorphosed pelitic rocks,

sandstones, minor cherts and volcanics. Gold mineralization is localized in late fracture controlled quartz veins in both the hanging wall and footwall portions of amphibolites.
WORK DONE: SOIL 114;multielement
ROCK 37;multielement
GEOL 1:5000
SILT 8;multielement
REFERENCES:

**** West,Au ****

MINING DIV: *** ASSESSMENT REPORT 16409 INFO CLASS 4
LOCATION: LAT. 48 33 06 LONG. 123 54 00 NTS:
CLAIMS: Au 2-3,West 1-3
OPERATOR: Valentine Gold
AUTHOR: Peart, P.
DESCRIPTION: The claims are underlain by the Leech River Complex.
WORK DONE: SILT 16;multielement
REFERENCES:

**** Cornucopia,Yreka ****

MINING DIV: Victoria ASSESSMENT REPORT 16319 INFO CLASS 2
LOCATION: LAT. 48 50 24 LONG. 123 39 00 NTS:
CLAIMS: PF
OPERATOR: Kidd Creek Mines
AUTHOR: Money, D.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: The claims are underlain by mafic to andesitic volcanic flows and tuffs with minor felsic flows and felsic tuffs of the Upper Devonian Myra Formation. The Myra Formation rocks are crosscut by Saltspring Intrusive dykes and displaced by mafic sills. The rocks have been subjected to lower greenschist metamorphism. The strike is at about 110 degrees. The mafic rocks host up to 20 per cent pyrite and trace chalcopyrite locally with up to 3718 ppm copper over 1.0 metres encountered in the drill holes.
WORK DONE: ROCK 75;whole rock,rare earth
DIAD 1083.0 m;3 holes,NQ
SAMP 318;multielement
REFERENCES: A.R. 02397
M.I. 092B 038-CORNUCOPIA;092B 039-YREKA

**** Cornucopia,Yreka ****

MINING DIV: *** ASSESSMENT REPORT 16029 INFO CLASS 3
LOCATION: LAT. 48 50 18 LONG. 123 38 00 NTS:
CLAIMS: Beatrice I-IV,Crof 1,John Travers,John Travers I-IV,PF,P.F. III
P.F. V,Peggy I-IV
OPERATOR: Falconbridge
AUTHOR: Booth, K.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: The claims are underlain by mafic volcaniclastics with minor felsic flows and ash tuffs of the Upper Devonian Myra Formation which is part of the Paleozoic Sicker Group. These rocks are intruded by the Paleozoic Saltspring Intrusion and Jurassic gabbro. Schistosity

is moderately developed and has a strike ranging from 110-130 degrees and dips steeply to the north and south. One analysis of a quartz vein yielded 0.35 per cent copper. Two pyritic zones occur on the property. The zones contain up to 7 per cent pyrite and up to 0.09 per cent copper. The rocks on this property have been affected by regional low-grade greenschist metamorphism.

WORK DONE: SOIL 349;Cu,Pb,Zn,Ag
LINE 8.0 km
ROCK 203;multielement
GEOL 1:5000,1:2500

REFERENCES: A.R. 02397
M.I. 092B 038-CORNUCOPIA;092B 039-YREKA

**** Plum ****

MINING DIV: Victoria ASSESSMENT REPORT 16163 INFO CLASS 4
LOCATION: LAT. 48 53 00 LONG. 123 45 30 NTS:
CLAIMS: Plum
OPERATOR: Falconbridge Copper
AUTHOR: Gray, M.
DESCRIPTION: Moderate to steeply dipping, east-west striking Upper Devonian Myra Formation mafic to intermediate volcanics are unconformably (?) overlain by Upper Cretaceous Nanaimo Group siltstones and sandstone. Alteration consists of weak chlorite related to regional metamorphism.
WORK DONE: ROCK 9;multielement
GEOL 1:5000
REFERENCES:

**** Rocky ****

MINING DIV: *** ASSESSMENT REPORT 15556 INFO CLASS 3
LOCATION: LAT. 48 51 42 LONG. 123 44 48 NTS:
CLAIMS: Sicker 1,Rocky 1-2
OPERATOR: Falconbridge Copper
AUTHOR: Burge, C.
DESCRIPTION: The claims are underlain by felsic and mafic volcaniclastic and flow rocks belonging to the Upper Devonian Myra Formation of the Paleozoic Sicker Group. Triassic diorite dykes crosscut the stratigraphy. The conformable units form a geanticlinal structure which plunges gently to the west. East trending and northeast trending faults of varying displacements divide the area into numerous fault blocks.
WORK DONE: IPOL 23.3 km
LINE 23.3 km
REFERENCES: A.R. 11841,13907

**** Bet ****

MINING DIV: Victoria ASSESSMENT REPORT 16330 INFO CLASS 3
LOCATION: LAT. 48 49 42 LONG. 123 47 06 NTS:
CLAIMS: Bet 1-8
OPERATOR: Int. Field Services
AUTHOR: Hainsworth, W.
DESCRIPTION: The claims are underlain by the Upper Devonian Myra Formation which is intruded by Tertiary felsic rocks.

WORK DONE: SOIL 269;Ag,Au,Pb,Zn
REFERENCES:

**** Bick ****

MINING DIV: *** ASSESSMENT REPORT 16201 INFO CLASS 3
LOCATION: LAT. 48 47 12 LONG. 123 58 00 NTS:
CLAIMS: Bick 1-5
OPERATOR: BP Min.
AUTHOR: Wong, R.
DESCRIPTION: The claims cover an area postulated to be underlain by a thrust repetition of the Paleozoic Sicker Group.
Drilling indicates that the Cretaceous cover is too thick to permit effective surface exploration to be conducted.
WORK DONE: ROCK 3;multielement
ROTD 317.0 m;1 hole
SILT 19;multielement
GEOL 1:10 000
SOIL 140;multielement
REFERENCES:

**** Bob ****

MINING DIV: Victoria ASSESSMENT REPORT 16164 INFO CLASS 4
LOCATION: LAT. 48 49 54 LONG. 123 48 48 NTS:
CLAIMS: Bob
OPERATOR: Consort Energy
AUTHOR: Hayes, T.
DESCRIPTION: The claim is mainly underlain by Upper Cretaceous Nanaimo Group carbonaceous shale and conglomerate.
WORK DONE: ROCK 2;multielement
PROS 1:10 000
SILT 7;multielement
REFERENCES:

**** Brenton ****

MINING DIV: *** ASSESSMENT REPORT 16452 INFO CLASS 4
LOCATION: LAT. 48 55 18 LONG. 123 51 18 NTS:
CLAIMS: Brenton
OPERATOR: Vancouver Venture
AUTHOR: Wahl, H.J.
DESCRIPTION: The Brenton claim is underlain by Paleozoic Sicker Group sedimentary rocks. A northeast trending fault was inferred to occupy the drainage of Silver Creek
REFERENCES:

**** Bud ****

MINING DIV: Victoria ASSESSMENT REPORT 16351 INFO CLASS 4
LOCATION: LAT. 48 50 30 LONG. 123 53 48 NTS:
CLAIMS: Bud 3-6
OPERATOR: Decker, J.
AUTHOR: Decker, J.
DESCRIPTION: The claims are underlain by Upper Cretaceous Nanaimo Group

conglomerate.
WORK DONE: PROS 1:14 287
REFERENCES:

**** Chip ****

MINING DIV: *** ASSESSMENT REPORT 15504 INFO CLASS 3
LOCATION: LAT. 48 54 18 LONG. 123 57 30 NTS:
CLAIMS: Chip 1-5,Chip 7-8,Chip 11 Fr.,Chip 13 Fr.
OPERATOR: Kidd Creek Mines
AUTHOR: Hendrickson, G.A.
DESCRIPTION: The claims are underlain by Upper Devonian Myra Formation felsic to intermediate volcanics and the Pennsylvanian "Sediment-Sill Unit". Young gabbro intrusions cut the succession. Pyrite stringers and locally banded sulphides including pyrite with minor chalcopyrite and sphalerite occur in felsic volcanics. At the Anita showing a 13.7 metre shaft was driven on a massive pyrrhotite lens in the early 1900's. Local felsic volcanics in the area display strong alteration.
WORK DONE: MAGG 72.0 km
IPOL 72.0 km
EMGR 72.0 km;VLF
REFERENCES: A.R. 11345

**** Cow ****

MINING DIV: Victoria ASSESSMENT REPORT 16053 INFO CLASS 3
LOCATION: LAT. 48 52 42 LONG. 123 58 00 NTS:
CLAIMS: Cow 7,Cow 9-11
OPERATOR: Int. Cherokee Dev.
AUTHOR: Allen, G.
DESCRIPTION: The claims are underlain by Cameron River Formation sedimentary rocks of the Paleozoic Sicker Group. Gold occurs in east-west trending narrow shears along the flanks of a gabbroic intrusive and in a jasper-bearing ferruginous chert estimated to be 10 metres wide. A few small rhodonite occurrences are conformable with northwest trending sedimentary rocks.
WORK DONE: IPOL 3.1 km
SOIL 828;multielement
SILT 4;multielement
TOPO 1:10 000
MAGG 17.9 km
EMGR 25.8 km;VLF
DIAD 213.0 m;2 holes,BQ
GEOL 1:10 000,1:2500
BIOG 92;multielement
LINE 22.6 km
SAMP 81;multielement
ROCK 68;multielement
REFERENCES:

**** Cow ****

MINING DIV: *** ASSESSMENT REPORT 16237 INFO CLASS 3
LOCATION: LAT. 48 50 48 LONG. 123 58 12 NTS:

CLAIMS: Cow 5-6,Cow 8,Namiko,Namiko 1 Fr.,Namiko 2 Fr.
OPERATOR: Int. Cherokee Dev.
AUTHOR: Allen, G.
DESCRIPTION: The property is underlain by northwest trending pyroclastics and sediments of the Paleozoic Sicker Group. These rocks have been intruded by a large elongate body of Lower-Middle Jurassic Island Intrusions quartz diorite.
WORK DONE: ROCK 30;multielement
GEOL 1:10 000
SILT 37;multielement
TOPO 1:10 000
REFERENCES:

**** Fly ****

MINING DIV: Victoria ASSESSMENT REPORT 15442 INFO CLASS 1
LOCATION: LAT. 48 55 24 LONG. 123 48 30 NTS:
CLAIMS: JRM 3,JRM 7-8
OPERATOR: BHP-Utah Mines
AUTHOR: Holland, G.
COMMODITIES: Iron
DESCRIPTION: The claims are underlain by mid-Paleozoic Sicker Group volcanics and sediments.
Minor pyrite is present in a jasper-magnetite exhalative horizon. The drill program tested the jasper-magnetite horizon but no economic sulphide mineralization was intersected.
WORK DONE: SAMP 290;multielement
DIAD 3180.5 m;8 holes,NQ
REFERENCES: A.R. 12048,12315,12788,14008,14669
M.I. 092B 076-FLY

**** Lady C,Lady A,Anita ****

MINING DIV: *** ASSESSMENT REPORT 15881 INFO CLASS 2
LOCATION: LAT. 48 55 30 LONG. 123 57 00 NTS:
CLAIMS: Ermelina,Ermelina 1-11,Lady 1-2,Optimus,Prime
OPERATOR: Lode Res.
AUTHOR: Laanela, H.
COMMODITIES: Copper,Silver,Iron
DESCRIPTION: The claims are underlain by Paleozoic Sicker Group rocks consisting of the Sedimentary Sill Unit and the northwest striking underlying Myra Formation, which are intruded by Jurassic diorites (Ladysmith Stock) to the north. The Myra Formation contains 2 taconite showings in "ironstone" horizon, but no known precious and/ or base metal occurrences. However, the "ironstone" is indicative of a favourable geological environment.
WORK DONE: EMGR 34.0 km;VLF
SOIL 871;multielement
LINE 40.6 km
ROCK 52;multielement
GEOL 1:5000
MAGG 34.0 km
REFERENCES: A.R. 12525,15136
M.I. 092B 029-LADY A;092B 033-LADY C;092B 037-ANITA

**** Murial ****

MINING DIV: Victoria ASSESSMENT REPORT 16217 INFO CLASS 4
LOCATION: LAT. 48 51 06 LONG. 123 52 30 NTS:
CLAIMS: Murial 1
OPERATOR: Decker, J.
AUTHOR:
DESCRIPTION: The claim is underlain by conglomerate of the Upper Cretaceous Nanaimo Group.
WORK DONE: PROS 1:15 790
REFERENCES:

**** Never Sweat ****

MINING DIV: *** ASSESSMENT REPORT 16200 INFO CLASS 3
LOCATION: LAT. 48 51 48 LONG. 123 56 36 NTS:
CLAIMS: Never Sweat
OPERATOR: Int. Cherokee Dev.
AUTHOR: Allen, G.
COMMODITIES: Rhodonite,Manganese
DESCRIPTION: The property is underlain by northwest trending fine-grained pyroclastics and sediments of the Paleozoic Sicker Group. These rocks have been intruded by Triassic gabbro and Jurassic quartz diorite. Upper Cretaceous Nanaimo Group sediments unconformably overlie the older rocks. Rhodonite and manganese occur as small lenses in cherty sediments of the Sicker Group.
WORK DONE: GEOL 1:10 000,1:2500
ROCK 25;multielement
LINE 11.2 km
SILT 7;multielement
SOIL 451;multielement
EMGR 17.9 km;VLF
REFERENCES: A.R. 15389
M.I. 092B 137-MYRA;092B 138-NEVER SWEAT

**** Orn ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16289 INFO CLASS 4
LOCATION: LAT. 48 55 18 LONG. 123 53 12 NTS:
CLAIMS: Orn 1-4
OPERATOR: Hayes, E.
AUTHOR: Neale, T.
COMMODITIES: Copper
DESCRIPTION: The property is underlain by Paleozoic Sicker Group rocks in the south, including the Upper Devonian Myra Formation and Pennsylvanian Sediment-Sill Unit. In the north is Lower-Middle Jurassic Island Intrusions diorite. A magnetite +/- hornblende rich border phase of the intrusions contains quartz veins up to 25 centimetres wide mineralized with pyrite, chalcopyrite, and magnetite.
WORK DONE: GEOL 1:10 000
SILT 2;multielement
ROCK 63;multielement
REFERENCES: M.I. 092B 112-ORN

**** Pogo ****

MINING DIV: Victoria ASSESSMENT REPORT 16097 INFO CLASS 2
LOCATION: LAT. 48 53 48 LONG. 124 00 36 NTS:
CLAIMS: Cow 12-16
OPERATOR: Int. Cherokee Dev.
AUTHOR: Allen, G.
COMMODITIES: Copper,Lead,Zinc
DESCRIPTION: The property is underlain by McLaughlin Ridge and Cameron River Formations (formerly mapped as Upper Devonian Myra Formation and/or Pennsylvanian Sediment-Sill Unit) of the Paleozoic Sicker Group. Lithology in the area includes coarse-grained pyroclastics, chert, argillite, siltstone, sandstone and conglomerate intruded by gabbroic and quartz diorite bodies. Gold, chalcopyrite, galena, sphalerite and arsenopyrite occur in east-west trending narrow shears along the flanks of a gabbroic intrusive.
WORK DONE: SILT 32;multielement
GEOL 1:10 000,1:2500
EMGR 10.3 km;VLF
ROCK 228;multielement
MAGG 19.1 km
SAMP 75;multielement
TOPO 1:10 000,1:2500
SOIL 1099;multielement
LINE 29.7 km
TREN 80.0 m;2 trenches
DIAD 99.5 m;2 holes,BQ
REFERENCES: A.R. 00566,14462
M.I. 092C 074-POGO

**** Poly ****

MINING DIV: *** ASSESSMENT REPORT 15823 INFO CLASS 4
LOCATION: LAT. 48 51 36 LONG. 123 55 00 NTS:
CLAIMS: Poly
OPERATOR: Specogna, E.
AUTHOR:
DESCRIPTION: The claims are underlain by rocks of the Pennsylvanian Sediment-Sill Unit, Upper Devonian Myra Formation and Middle Devonian Nitinat Formation.
WORK DONE: DIAD 20.7 m;4 holes,EX
TREN 3.0 m;1 trench
REFERENCES: A.R. 14919

**** Ridgestake ****

MINING DIV: Victoria ASSESSMENT REPORT 16453 INFO CLASS 4
LOCATION: LAT. 48 57 12 LONG. 123 58 24 NTS:
CLAIMS: Ridgestake,Ridgestake I
OPERATOR: Vancouver Venture
AUTHOR: Wahl, H.J.
DESCRIPTION: The claims are underlain by Paleozoic Sicker Group volcanic and sedimentary rocks. Preliminary prospecting and reconnaissance work

has shown frequent pyritic float with copper staining and other sulphide mineralization.
REFERENCES:

**** Ryan ****

MINING DIV: *** ASSESSMENT REPORT 16350 INFO CLASS 4
LOCATION: LAT. 48 51 12 LONG. 123 55 30 NTS:
CLAIMS: Ryan
OPERATOR: Decker, J.
AUTHOR:
DESCRIPTION: The claim is underlain by Upper Cretaceous Nanaimo Group conglomerate.
WORK DONE: PROS 1:16 129
REFERENCES:

Cape Flattery 092C

**** Red Dog ****

MINING DIV: Victoria ASSESSMENT REPORT 16184 INFO CLASS 3
LOCATION: LAT. 48 40 12 LONG. 124 08 42 NTS:
CLAIMS: F.R.S. 1,Helga 1
OPERATOR: Beau Pre Ex.
AUTHOR: Garratt, G.
COMMODITIES: Copper,Silver,Gold
DESCRIPTION: The area is underlain by Upper Triassic Karmutsen Formation basalts and andesites and Upper Triassic massive grey Quatsino Formation limestone. These rocks are intruded to the east and north by Jurassic Island Intrusion granodiorite-diorite and to the south by Upper Paleozoic and/or Triassic and Jurassic rocks of the Westcoast Complex. Hornfels zones appear to develop proximal to dioritic intrusions. Small podiform skarns with chalcopyrite, magnetite and lesser sphalerite develop locally.
WORK DONE: ROCK 7;multielement
SOIL 373;multielement
GEOL 1:10 000
LINE 9.3 km
REFERENCES: A.R. 06380,06502,12743,14565,15295
M.I. 092C 012-RED DOG

**** Kinsley ****

MINING DIV: *** ASSESSMENT REPORT 16507 INFO CLASS 3
LOCATION: LAT. 48 33 24 LONG. 124 22 30 NTS:
CLAIMS: Murton,Ren
OPERATOR: Pan Island Res.
AUTHOR: Arnold, R.; Karchmar, K.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by metamorphosed, folded and faulted Triassic-Cretaceous Leech River Complex sedimentary rocks which have been intruded by east-west trending felsic assemblages of greenschist facies. This sequence is dominated by slate, phyllite and quartzitic intercalations of greywacke which hosts sulphide mineralization.

Faulting, fracturing, quartz veins and dykes are abundant.
WORK DONE: GEOL 1:5000
MAGG 13.8 km
EMGR 13.8 km;VLF
ROCK 73;Ag,As,Cu,Pb,Sb,Zn
LINE 14.7 km
REFERENCES: A.R. 11322
M.I. 092C 058-KINSLEY

**** Owl,Tert ****

MINING DIV: Alberni ASSESSMENT REPORT 15575 INFO CLASS 3
LOCATION: LAT. 49 00 36 LONG. 125 31 00 NTS:
CLAIMS: Owl 1,Tert 1-2
OPERATOR: Island Star Res.
AUTHOR: Henneberry, R.
DESCRIPTION: The claims are underlain by sediments of the Upper Triassic Quatsino and Parson Bay Formations and volcanics of the Lower Jurassic Bonanza Group and Tertiary Lost Shoe Formation. These rocks are intruded by Eocene Catface quartz diorite. Mineralization, which is confined to shear zones within the intrusive and country rocks consists of auriferous pyrite, arsenopyrite and base metal sulphides. Epithermal alteration forms a halo at the larger shear zones.
WORK DONE: SOIL 171;multielement
GEOL 1:10 000
ROCK 81;multielement
REFERENCES: A.R 14772

**** CR ****

MINING DIV: Victoria ASSESSMENT REPORT 16162 INFO CLASS 4
LOCATION: LAT. 48 48 12 LONG. 124 29 48 NTS:
CLAIMS: Hank
OPERATOR: Ajax Res.
AUTHOR: Bartier, P.
COMMODITIES: Copper
DESCRIPTION: The property is underlain by the Upper Triassic Karmutsen Formation composed mainly of volcanics with minor interbeds of limestone/marble and argillite. The Karmutsen Formation has been intruded by a diorite of the Jurassic Island Intrusions. There is a 200 metre long skarn zone, with copper, lead, silver and zinc values hosted by the Karmutsen Formation rocks near the diorite contact.
WORK DONE: SILT 6;Au,Ag,Cu,Pb,Zn,As
GEOL 1:5000
MAGG 0.6 km
ROCK 2;Au,Ag,Cu,Pb,Zn,As
REFERENCES: A.R 11232,12618
M.I. 092C 125-CR

**** Heather ****

MINING DIV: *** ASSESSMENT REPORT 16357 INFO CLASS 3
LOCATION: LAT. 48 58 30 LONG. 124 29 48 NTS:
CLAIMS: Carol S,Tanya S

OPERATOR: Minnova
AUTHOR: Wells, G.
COMMODITIES: Copper,Gold
DESCRIPTION: The Heather property is primarily underlain by northwesterly trending Paleozoic Sicker Group volcanic rocks. A northwesterly trending quartz-pyrite shear with gold values up to 8.6 grams per tonne is hosted in andesitic tuffs of the Upper Devonian Myra Formation. Other mineralization on the property includes the auriferous McDougall quartz veins which are hosted in the Middle Devonian Nitinat Formation.
WORK DONE: DIAD 547.0 m;5 holes,NQ
SAMP 324;multielement
REFERENCES: A.R. 11303,12445,13516,15206
M.I. 092C 127-HEATHER

**** Silvercross ****

MINING DIV: Alberni ASSESSMENT REPORT 15958 INFO CLASS 4
LOCATION: LAT. 48 57 30 LONG. 124 33 30 NTS:
CLAIMS: Silvercross
OPERATOR: Payton Ventures
AUTHOR: Hill, A.; Laanela, H.
COMMODITIES: Copper,Silver
DESCRIPTION: The claim is underlain by Jurassic Bonanza Group volcanics (mainly basaltic). A small pit in basalt exposed a 1.5 metre wide mineralized zone, with disseminated to massive bornite and malachite in a vein system of epidote-calcite-quartz. Several samples assayed up to 96 grams of silver per tonne and "more than" 10 per cent copper. The area is largely unexplored.
WORK DONE: GEOL 1:1000
SAMP 9;Cu,Ag
SOIL 27;multielement
PETR 3 thin sections
REFERENCES: M.I. 092C 130-SILVERCROSS

**** Candy,Rocky,Wardroper,Meade Creek ****

MINING DIV: Victoria ASSESSMENT REPORT 16210 INFO CLASS 1
LOCATION: LAT. 48 55 18 LONG. 124 13 48 NTS:
CLAIMS: Cott 1-2,Cott 4-5,Footloose 1,Footloose 4-5,Ridge 1-3,Striker 1-6 Thriller 1-6,Zip 1-3
OPERATOR: BHP-Utah Mines
AUTHOR: Cowley, P.; Ord, R.
COMMODITIES: Copper,Manganese,Rhodonite,Gemstones
DESCRIPTION: A Late Paleozoic-Mesozoic sequence of volcanic, sedimentary and granitic rocks is exposed on the property. A dominant northwest trend is evident in structures and rock fabric and distribution. The Sicker Group rocks have experienced greenstone metamorphism. Mineralization on the property is limited to intrusive-related copper-molybdenum-gold-zinc veins and shear zones, rhodonite/jasper/magnetite pods anomalous in molybdenum-gold-copper and syndepositional pyrite in argillites anomalous in zinc-silver-molybdenum-arsenic.
WORK DONE: MAGG 51.8 km
GEOL 1:5000,1:2500

EMGR 120.1 km;VLF,HLEM,PEM
SILT 398;multielement
MALM 4900.0 m
TREN 6.0 m;1 trench
SOIL 1257;multielement
IPOL 10.1 km
ROCK 316;multielement
REFERENCES: M.I. 092C 076-CANDY;092C 113-ROCKY;092C 114-WARDROPER; 092C 115-MEADE CREEK

**** Cow ****

MINING DIV: *** ASSESSMENT REPORT 16122 INFO CLASS 3
LOCATION: LAT. 48 51 12 LONG. 124 05 48 NTS:
CLAIMS: Cow 1-4
OPERATOR: Int. Cherokee Dev.
AUTHOR: Allen, G.; Thomae, S.
DESCRIPTION: The claims are underlain by west-northwest striking mafic flows and volcaniclastic rocks of the Middle Devonian Nitinat Formation of the Paleozoic Sicker Group. A northwesterly elongate body of Jurassic Island Intrusions quartz diorite and granodiorite intrudes the Nitinat Formation. Placer gold occurs in Meade Creek and local disseminated pyrite and minor chalcopyrite has been observed on the property.
WORK DONE: GEOL 1:10 000
ROCK 31;multielement
SILT 63;multielement
REFERENCES:

**** Imp ****

MINING DIV: Victoria ASSESSMENT REPORT 16478 INFO CLASS 4
LOCATION: LAT. 48 56 48 LONG. 124 00 18 NTS:
CLAIMS: Imp k
OPERATOR: Imperial Metals
AUTHOR: Baknes, M.; Gorc, D.
DESCRIPTION: The claim is underlain by Paleozoic Sicker Group sediments and volcanics (greywackes, cherts, rhyolites) and gabbroic sills and dykes.
WORK DONE: ROCK 16;multielement
GEOL 1:5000
SOIL 51;multielement
REFERENCES:

**** J.R. ****

MINING DIV: *** ASSESSMENT REPORT 16541 INFO CLASS 3
LOCATION: LAT. 48 55 00 LONG. 124 08 06 NTS:
CLAIMS: JR
OPERATOR: Vancouver Venture
AUTHOR: Wahl, H.J.
DESCRIPTION: The J.R. claim is underlain by Paleozoic Sicker Group volcanic and sedimentary rocks.
WORK DONE: SOIL 107;Cu,Pb,Zn,Ag,Au
LINE 3.0 km

ROCK 8:Cu,Pb,Zn,Ag,Au
ROAD 4.5 km
GEOL 1:2500
REFERENCES:

**** Mike ****

MINING DIV: Victoria ASSESSMENT REPORT 15578 INFO CLASS 3
LOCATION: LAT. 48 55 06 LONG. 124 06 36 NTS:
CLAIMS: Mike 1-4
OPERATOR: Int. Cherokee Dev.
AUTHOR: Allen, G.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: The claims are underlain by Paleozoic Sicker Group sedimentary rocks which have been folded about a northwest trending axis and intruded by Triassic gabbros and Jurassic Island Intrusion quartz diorites. Gold and copper mineralization occurs in 5-20 centimetre east-trending quartz veins along the flanks of a gabbroic dyke.
WORK DONE: MAGG 4.3 km
SOIL 162:multielement
EMGR 4.3 km;VLF
GEOL 1:10 000,1:2500
DIAD 353.0 m;4 holes,BQ
TREN 35.0 m;3 trenches
ROCK 163:multielement
SILT 24:multielement
SAMP 285:Au,Ag,Cu,As
REFERENCES: M.I. 092C 129-MIKE

**** Sognidoro ****

MINING DIV: *** ASSESSMENT REPORT 15883 INFO CLASS 4
LOCATION: LAT. 48 57 12 LONG. 124 04 18 NTS:
CLAIMS: Sognidoro
OPERATOR: Canamin Res.
AUTHOR: Specogna, M.
DESCRIPTION: On the eastern portion of the claim an adit has been driven about 100 metres into schist-jasper rocks. Reported mineralization includes gold in quartz veins, gold in magnetite, and a fuchsite zone containing a copper-silver-lead-zinc-gold anomaly.
WORK DONE: EMGR 0.9 km;VLF
PROS 1:1000
MAGG 0.9 km
REFERENCES:

**** Amore ****

MINING DIV: Victoria ASSESSMENT REPORT 16227 INFO CLASS 3
LOCATION: LAT. 48 57 42 LONG. 124 16 48 NTS:
CLAIMS: Amore,Amore 2,Amore B,Natalie-L
OPERATOR: Canamin Res.
AUTHOR: Hawkins, T.; Thomae, B.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by a northwest striking sequence of interbedded agglomeratic tuffs, banded cherty tuffs and argillites

of the Upper Devonian Myra Formation of the Paleozoic Sicker Group. Upper Triassic Karmutsen Formation basalts overlie the Myra Formation on the east side of the property, and Lower-Middle Jurassic Island intrusions diorite intrudes both units on the south and west portions of the property. Sulphide mineralization occurs in association with quartz veins in lenses and is disseminated within quartz veins which crosscut the Myra Formation. Gold and silver mineralization occurs locally associated with the sulphides.
WORK DONE: SILT 3:multielement
ROCK 47:multielement
GEOL 1:5000
SOIL 120:multielement
REFERENCES: A.R. 06963,07187,07880,07908,08782,09861,10324,10970,11302, 12002,14116,14316,15258
M.I. 092C 117-AMORE

**** Gold Dyke ****

MINING DIV: *** ASSESSMENT REPORT 15821 INFO CLASS 3
LOCATION: LAT 48 52 00 LONG. 124 22 18 NTS:
CLAIMS: Gold Dyke 1
OPERATOR: Orbex Ind.
AUTHOR: Payne, C.
COMMODITIES: Lead,Zinc,Gold
DESCRIPTION: Lower Jurassic Bonanza Group andesitic and dacitic volcanic rocks are cut by a quartz-carbonate filled shear zone. The shear zone contains disseminated pyrite, pyrrhotite, galena, sphalerite and trace arsenopyrite.
WORK DONE: DIAD 426.8 m;5 holes,BQ
LINE 5.4 km
SOIL 189:multielement
SAMP 309:multielement
REFERENCES:

**** Joss ****

MINING DIV: Victoria ASSESSMENT REPORT 15890 INFO CLASS 3
LOCATION: LAT. 48 56 30 LONG. 124 26 20 NTS:
CLAIMS: Joss 1-5
OPERATOR: BHP-Utah Mines
AUTHOR: Cowley, P.; Robinson, C.
DESCRIPTION: A Mid-Paleozoic-Mesozoic succession of volcanic sedimentary and granitic rock is exposed on the property. A northwest trending package of alternating andesitic lapilli tuff, basaltic agglomerate and flow and cherty ash tuff outcrops on the Joss claims of the Striker property. The succession exhibits greenschist metamorphism overprinted by variable schistosity. No significant mineralization has yet been found on the claims.
WORK DONE: ROCK 3:multielement
GEOL 1:5000
SILT 27:multielement
SOIL 5:multielement
REFERENCES:

**** Shaw Creek ****

MINING DIV: *** ASSESSMENT REPORT 15887 INFO CLASS 3
LOCATION: LAT. 49 00 00 LONG. 124 25 00 NTS:
CLAIMS: Flight 1,Flight 4-5
OPERATOR: BHP-Utah Mines
AUTHOR: Cowley, P.; Ord, R.
COMMODITIES: Rhodonite
DESCRIPTION: The property overlies Sicker Group rocks which are favourable for polymetallic volcanogenic massive sulphides of the Westmin type. Mapping has divided Nitinat and Myra lithologies. Despite the degree of northeast and west-northwest structures, bedding attitudes remain consistent with a northwest dip of 10-45 degrees. No significant mineralization was encountered. An extensive jasper +/- magnetite unit is present in the northern part of the property.
WORK DONE: MAGG 1.6 km
ROCK 38;multielement
GEOL 1:5000
SOIL 1;multielement
SILT 18;multielement
EMGR 1.6 km;VLF
REFERENCES: A.R. 14821
M.I. 092F 186-SHAW CREEK

Nootka Sound 092E

**** Independence (Harlow) ****

MINING DIV: Alberni ASSESSMENT REPORT 16673 INFO CLASS 3
LOCATION: LAT. 49 57 54 LONG. 126 40 05 NTS:
CLAIMS: Independence
OPERATOR: North American Ventures
AUTHOR: Stevenson, J.; McClintock, J.
COMMODITIES: Gold,Copper,Zinc
DESCRIPTION: The property straddles the northerly trending, moderately dipping contact between the underlying Upper Triassic Karmutsen and overlying Quatsino Formations. Mineralization occurs in westerly trending, steeply dipping shear zones cutting andesitic flows near their contact with overlying limestone of the Quatsino Formation.

WORK DONE: MAGG 4.4 km
EMGR 3.3 km;VLF
SOIL 290;multielement
LINE 15.4 km
REFERENCES: M.I. 092E 004-INDEPENDENCE (HARLOW)

**** Tahsis Inlet ****

MINING DIV: *** ASSESSMENT REPORT 16426 INFO CLASS 4
LOCATION: LAT. 49 52 36 LONG. 126 38 24 NTS:
CLAIMS: Perry 1-6
OPERATOR: Stetson Res. Management

AUTHOR: Freeze, J.
COMMODITIES: Limestone,Marble
DESCRIPTION: The claims are underlain by Upper Triassic Karmutsen Formation basaltic volcanics, Upper Triassic Quatsino Formation limestone, Lower Jurassic Bonanza Group basaltic to rhyodacitic volcanics and Tertiary Catface Intrusions.
WORK DONE: SILT 18;multielement
ROCK 41;Au
PROS 1:50 000
REFERENCES: A.R. 09230,10157,12058,13681
M.I. 092E 059-TAHSIS INLET

**** Vig ****

MINING DIV: Alberni ASSESSMENT REPORT 16355 INFO CLASS 3
LOCATION: LAT. 49 48 06 LONG. 126 31 12 NTS:
CLAIMS: Vig 3,Vig 5
OPERATOR: Great Keppel Res.
AUTHOR: Awmack, H.
COMMODITIES: Gold,Copper,Silver
DESCRIPTION: An Eocene dioritic stock intrudes northwesterly trending Upper Triassic Karmutsen Formation volcanics and Quatsino Formation limestone and felsic volcaniclastics of the Lower Jurassic Bonanza Group. A west-northwesterly zone of auriferous pyrite-quartz-chlorite lenses is hosted by a gabbroic phase of the Head Bay Stock. The zone, which dips moderately to the south, is exposed for 38 metres along strike. Individual lenses grade up to 201 grams per tonne gold, and the zone averages 4.4 grams per tonne gold across 1.5 metres.
WORK DONE: SILT 36;Au,Ag,Cu,Pb,Zn,As
TOPO 1:5000
SOIL 800;multielement
ROCK 182;multielement
GEOL 1:5000
MAGG 6.0 km
TREN 15.0 m;3 trenches
REFERENCES: A.R. 13806
M.I. 092E 063-VIG

**** Jackie ****

MINING DIV: *** ASSESSMENT REPORT 16557 INFO CLASS 3
LOCATION: LAT. 50 00 30 LONG. 126 09 54 NTS:
CLAIMS: Jackie,Jackie 2
OPERATOR: Canamin Res.
AUTHOR: Hawkins, T.; Thomae, B.
COMMODITIES: Lead,Zinc,Copper,Silver,Gold
DESCRIPTION: The central and western portion of the property is underlain by a northerly striking succession of interbedded argillite, chert, calcareous sediments and tuffaceous intervals of the Pennsylvanian "Sediment-Sill" Unit. The overlying Upper Triassic Karmutsen Formation comprises mafic volcanic rocks. Both are intruded by Lower-Middle Jurassic Island intrusions. Two showings comprising copper-lead-zinc-silver and minor gold mineralization occur within the "Sediment-Sill" Unit along a common(?) structural trend.

WORK DONE: GEOL 1:5000
SILT 4;multielement
ROCK 22;multielement
REFERENCES: A.R. 14319,15223
M.I. 092L 219-JACKIE

**** Aok ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15855 INFO CLASS 4
LOCATION: LAT. 49 11 00 LONG. 124 12 00 NTS:
CLAIMS: AOK
OPERATOR: Gosse, R.
AUTHOR:
DESCRIPTION: Argillaceous shale belonging to the Myra Formation and basalt and chert of the Karmutsen Formation are juxtaposed by a major northwest structural break that is comprised of a quartz-carbonate filled fault breccia. Indications of epigenetic precious metal mineralization (14.3 and 10.3 grams per tonne silver) are found in narrow east-northeast trending shears within the basalt.
WORK DONE: SAMP 10;Au,Ag
PROS 1:10 000
REFERENCES: A.R. 07641,10372,11916

**** Bonnell Creek ****

MINING DIV: *** ASSESSMENT REPORT 16041 INFO CLASS 4
LOCATION: LAT. 49 15 00 LONG. 124 13 00 NTS:
CLAIMS: Georgina 1-4,Georgina 7
OPERATOR: MineQuest Ex. Assoc.
AUTHOR: Gourlay, A.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by Upper Devonian Myra Formation black shale, felsic volcanics, maroon and grey schist and andesite. These rocks are unconformably overlain by fossiliferous sandstone and conglomerate of the Upper Cretaceous Nanaimo Group. Geochemically anomalous gold and copper values occur in pyritic, siliceous felsic volcanic rocks.
WORK DONE: ROCK 26;multielement
GEOL 1:10 000
SILT 34;multielement
REFERENCES: A.R. 14762
M.I. 092F 379-BONNELL CREEK

**** Lily ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15810 INFO CLASS 3
LOCATION: LAT. 49 12 30 LONG. 124 12 30 NTS:
CLAIMS: Songbird 1-2
OPERATOR: Carben Energy
AUTHOR: Ash, W.
COMMODITIES: Gold,Silver,Copper,Lead
DESCRIPTION: The "Lily" showing consists of localized silicification and

quartz veining in a fractured (fault) zone adjacent and parallel to the contact between a chert-argillite sequence and massive andesite of the Myra Formation.
WORK DONE: TREN 350.0 m;10 trenches
GEOL 1:5000,1:375
SAMP 30;Au,Ag
REFERENCES: A.R. 07641,11926
M.I. 092F 254-LILY

**** MacMillan ****

MINING DIV: *** ASSESSMENT REPORT 15805 INFO CLASS 4
LOCATION: LAT. 49 06 00 LONG. 124 04 00 NTS:
CLAIMS: T.E.L. 1-4
OPERATOR: Chevron Can. Res.
AUTHOR: McAllister, S.
COMMODITIES: Copper
DESCRIPTION: A silicified and highly carbonatized as well as hematized breccia zone is present in Triassic Karmutsen Formation basalts near the unconformable contact with overlying Cretaceous Nanaimo Group clastic sediments. The breccia zone is approximately 102 metres by 18 metres in size and the following minerals have been reported: chalcopyrite, bornite, tetrahedrite and chalcocite.
WORK DONE: SOIL 12;multielement
REFERENCES: A.R. 12151,13451,14496
M.I. 092F 164-MACMILLAN

**** T.E.L. ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16591 INFO CLASS 3
LOCATION: LAT. 49 06 35 LONG. 124 05 28 NTS:
CLAIMS: Jack,T.E.L. 1-4
OPERATOR: Chevron Can. Res.
AUTHOR: McAllister, S.
COMMODITIES: Copper
DESCRIPTION: A silicified, highly carbonatized and hematized breccia zone occurs within Upper Triassic Karmutsen Formation basalts near the unconformable contact with overlying Upper Cretaceous Nanaimo Group clastic sediments. The breccia zone is approximately 102 by 18 metres in size. The following minerals have been reported in the breccia: chalcopyrite, bornite, tetrahedrite and chalcocite.
WORK DONE: ROCK 6;multielement
GEOL 1:5000
SOIL 41;multielement
REFERENCES: A.R. 12151,13451,14496,15805
M.I. 092F 164-T.E.L.

**** Nanaimo River ****

MINING DIV: *** ASSESSMENT REPORT 15452 INFO CLASS 3
LOCATION: LAT. 49 05 06 LONG. 124 23 42 NTS:
CLAIMS: Sicker 1-2
OPERATOR: Ladysmith Min.
AUTHOR: Hawkins, T.; Thomae, B.
COMMODITIES: Limestone

DESCRIPTION: The claims are underlain in part by a westward younging and perhaps westerly dipping succession which includes from east to west: basaltic and diabasic flows of the Pennsylvanian Sediment-Sill Unit of the Paleozoic Sicker Group; Pennsylvanian Buttle Lake Formation bedded chert, crinoidal marble, black meta-tuffaceous or argillaceous chert; and basaltic flows of the Upper Triassic Karmutsen Formation. This succession is truncated to the west by a major body of Middle Jurassic Island Intrusions granodiorite. Anomalous copper and gold is associated with pyritic fracture zones which crosscut the Buttle Lake Formation.
WORK DONE: ROCK 14;multielement
SOIL 108;multielement
GEOL 1:10 000
REFERENCES: M.I. O92F 408-NANAIMO RIVER

**** Rush,Nan ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16592 INFO CLASS 3
LOCATION: LAT. 49 04 02 LONG. 124 22 41 NTS:
CLAIMS: Rush 1-3,Sicker 1-2
OPERATOR: Roap Res.
AUTHOR: Hardy, J.; Holtby, M.H.
COMMODITIES: Copper
DESCRIPTION: The claims are mainly underlain by northwest trending, west-dipping Paleozoic Sicker Group volcanics and sediments. These are overlain by or in fault contact with Upper Triassic Karmutsen Formation basalts on the east and intruded by Lower-Middle Jurassic Island Intrusions to the west. Pyrite occurs in carbonate-sericite alteration zones with quartz veins. Possible skarn mineralization occurs near the contact of Pennsylvanian Buttle Lake Formation limestone and the intrusives.
WORK DONE: SILT 47;Cu,Zn,Au,As
ROCK 140;Cu,Zn,Ag,Au,As
HMIN 55;Au,As,Cu,Zn
SOIL 845;Cu,Zn,Ag,Au
GEOL 1:10 000
REFERENCES: M.I. O92F 446-RUSH;O92F 447-NAN

**** Skarn,Villarta ****

MINING DIV: *** ASSESSMENT REPORT 15939 INFO CLASS 2
LOCATION: LAT. 49 05 24 LONG. 124 28 30 NTS:
CLAIMS: Villalta D
OPERATOR: Canamin Res.
AUTHOR: Lisle, T.; Quin, S.
COMMODITIES: Copper,Tungsten,Gold,Zinc
DESCRIPTION: Upper Devonian Myra Formation rocks of the Sicker Group are exposed at lower elevations in the southern area of the property, capped by Upper Cretaceous Nanaimo Group sediments, Middle Devonian Nitinat Formation volcanics and Upper Triassic Karmutsen Formation volcanics. Locally the Pennsylvanian Buttle Lake Formation limestone is exposed above the Myra Formation. On the Villalta D claim a hematite iron formation lies at the unconformity between Buttle Lake Formation limestone and the Nanaimo Group.
WORK DONE: SAMP 445;multielement

DIAD 1042.1 m;47 holes,HQ,NQ
REFERENCES: A.R. 06585,07792,07953,08458,08487
M.I. O92F 182-SKARN;O92F 384-VILLARTA

**** April ****

MINING DIV: Alberni ASSESSMENT REPORT 15953 INFO CLASS 4
LOCATION: LAT. 49 06 00 LONG. 124 39 00 NTS:
CLAIMS: April
OPERATOR: Nexus Res.
AUTHOR: Getsinger, J.
DESCRIPTION: The April claim is underlain by Triassic Karmutsen Formation basaltic rocks with lesser amounts of Paleozoic Buttle Lake Formation limestone in the northeast corner. Rock, soil, and silt sampling results indicate multielement anomalies in the southwest corner. Litho-geochemical results of up to 350 ppb gold, 5.8 ppm silver, 4 294 ppm copper, 39 ppm lead, 210 ppm nickel, 630 ppm cobalt, 347 ppm arsenic, 30.26 per cent iron, and 3 714 ppm barium were obtained. High chromium values are in soils and silts.
WORK DONE: SOIL 28;Au
GEOL 1:5000
SILT 8;Au
ROCK 11;Au
REFERENCES: A.R. 12696,15288

**** Bain ****

MINING DIV: *** ASSESSMENT REPORT 16631 INFO CLASS 4
LOCATION: LAT. 49 11 07 LONG. 124 42 09 NTS:
CLAIMS: Bain 3-4
OPERATOR: Ashworth Ex.
AUTHOR: Leriche, P.
DESCRIPTION: Paleozoic Sicker Group rocks (flows, tuff, breccia, argillite) are in fault contact with Upper Triassic Karmutsen Formation basalt.
WORK DONE: SOIL 16;multielement
SILT 2;multielement
ROCK 14;multielement
PROS 1:10 000
REFERENCES:

**** Bain ****

MINING DIV: Alberni ASSESSMENT REPORT 15449 INFO CLASS 4
LOCATION: LAT. 49 11 06 LONG. 124 44 00 NTS:
CLAIMS: Bain 1-4
OPERATOR: Ashworth, C.
AUTHOR: Scroggins, E.
DESCRIPTION: The claims are underlain by Upper Devonian Myra Formation rhyodacitic volcanics, thinly bedded argillite/siltstone, and chert and by basaltic units of the Upper Triassic Karmutsen Formation.
WORK DONE: ROCK 11;Cu,Pb,Zn,Ag,Au,Pt
GEOL 1:31 680
REFERENCES:

**** Columbia ****

MINING DIV: Victoria ASSESSMENT REPORT 16167 INFO CLASS 3
LOCATION: LAT. 49 01 30 LONG. 124 34 18 NTS:
CLAIMS: Columbia I-VI,Platinum
OPERATOR: Payton Ventures
AUTHOR: Laanela, H.
COMMODITIES: Copper
DESCRIPTION: The claims are largely underlain by Nitinat Formation volcanics with Upper Devonian Myra Formation and Pennsylvanian Buttle Lake Formation rocks. A well defined north-northwest trending shear zone containing quartz veins, carbonates and sulphides dissects the property. A number of geochemical anomalies (base and precious metals) occur with several rock samples assaying up to 1.2 per cent copper and 5.5 grams per tonne silver.
WORK DONE: GEOL 1:5000
SOIL 221;multielement
ROCK 21;multielement
LINE 13.6 km
REFERENCES: M.I. 092F 331-COLUMBIA

**** Cop Creek ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16020 INFO CLASS 3
LOCATION: LAT. 49 11 42 LONG. 124 36 36 NTS:
CLAIMS: Arrowsmith 2-3
OPERATOR: Angus, S.
AUTHOR: MacLeod, J.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by Upper Cretaceous Nanaimo Group sediments, Upper Triassic Vancouver Group volcanics and Paleozoic Sicker Group sediments and volcanics. These rocks trend north-northwest and dip to the east and are intruded by Tertiary granite.
WORK DONE: SOIL 373;multielement
ROCK 7;Au,Ag
LINE 12.1 km
REFERENCES: M.I. 092F 233-COP CREEK

**** Golden Slipper ****

MINING DIV: Alberni ASSESSMENT REPORT 16083 INFO CLASS 4
LOCATION: LAT. 49 00 42 LONG. 124 38 54 NTS:
CLAIMS: Aft,Rodeo
OPERATOR: Crew Min.
AUTHOR: Getsinger, J.; Kang, H.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: The Rodeo claim is underlain by Jurassic Island Intrusion diorite-quartz diorite and Lower Jurassic Bonanza Group and Upper Triassic Karmutsen Formation basalts. Abundant quartz veins cutting Island Intrusions and Bonanza Group rocks contain anomalous values in gold, silver, copper, zinc, molybdenum and bismuth. The Aft claim is underlain by Island Intrusion diorite. A silt sample contained an anomalous gold value.

WORK DONE: GEOL 1:10 000
ROCK 24;multielement
SILT 9;multielement
REFERENCES: A.R. 13671,14930
M.I. 092F 149-GOLDEN SLIPPER

**** Jenny ****

MINING DIV: *** ASSESSMENT REPORT 16144 INFO CLASS 2
LOCATION: LAT. 49 09 00 LONG. 124 39 30 NTS:
CLAIMS: Jenny
OPERATOR: Nexus Res.
AUTHOR: Lyons, E.
COMMODITIES: Gold,Copper,Silver,Zinc,Lead
DESCRIPTION: The claims are underlain by basalts and dacites of the Paleozoic Sicker Group (Upper Devonian Myra Formation) and minor limestones of the Pennsylvanian Buttle Lake Formation. Mineralization occurs as pyrite +/- chalcopyrite stringers in altered volcanics.
WORK DONE: DIAD 2059.1 m;9 holes,BQ
SAMP 384;multielement
REFERENCES: A.R. 08289,L10176,13759,14876
M.I. 092F 078-REGINA

**** Lofstrom ****

MINING DIV: Alberni ASSESSMENT REPORT 16119 INFO CLASS 4
LOCATION: LAT. 49 01 24 LONG. 124 43 00 NTS:
CLAIMS: Tap 1
OPERATOR: Toro Res.
AUTHOR: Yacoub, F.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by andesite of the Upper Triassic Karmutsen Formation. Mineralization consists of disseminated pyrite, chalcopyrite and malachite in two major fracture zones.
WORK DONE: SOIL 33;multielement
ROCK 13;multielement
GEOL 1:5000
SILT 10;multielement
REFERENCES: A.R. 12735,14520,14987
M.I. 092F 380-LOFSTROM

**** PT ****

MINING DIV: *** ASSESSMENT REPORT 16522 INFO CLASS 4
LOCATION: LAT. 49 04 30 LONG. 124 42 42 NTS:
CLAIMS: PT 5
OPERATOR: Amstar Venture
AUTHOR: Dodd, E.
DESCRIPTION: Upper Triassic Karmutsen Formation volcanics are moderately to strongly altered and transitional to chlorite schists and greenstones. These rocks contain visible sulphides and malachite. Medium grained, grey, granitoid intrusive rocks generally outcrop on the western area of the claim.
WORK DONE: PROS 1:5000
ROCK 5;Cu,Ag,Au,Pd,Pt

REFERENCES:

**** Spring ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15590 INFO CLASS 3
LOCATION: LAT. 49 09 00 LONG. 124 32 48 NTS:
CLAIMS: Spring 2-3
OPERATOR: Angus, S.
AUTHOR:
DESCRIPTION: The claims are underlain by Upper Paleozoic Sicker Group and Upper Triassic Vancouver Group rocks with lesser amounts of Upper Cretaceous Nanaimo Group sedimentary rocks.
WORK DONE: ROCK 6;Au,Ag,Cu,Pb,Zn
SILT 8;Au,Ag,Cu,Pb,Zn
SOIL 143;Au,Ag,Cu,Pb,Zn
LINE 3.4 km
REFERENCES:

**** Starboard ****

MINING DIV: Victoria ASSESSMENT REPORT 15694 INFO CLASS 3
LOCATION: LAT. 49 03 30 LONG. 124 37 36 NTS:
CLAIMS: Starboard
OPERATOR: Lode Res.
AUTHOR: Hill, A.
DESCRIPTION: The claims are underlain by Paleozoic Sicker Group volcanics and sedimentary rocks, Upper Triassic Vancouver Group volcanics and sedimentary rocks, Lower Jurassic Bonanza Group volcanics and Jurassic Island Intrusions.
Soil geochemistry identified anomalous multielement values.
WORK DONE: SOIL 123;Cu,Pb,Zn,Au,Ag
ROCK 6;Cu,Pb,Zn,Au,Ag
LINE 6.4 km
GEOL 1:2000
REFERENCES: A.R. 13672,14470

**** Tan ****

MINING DIV: *** ASSESSMENT REPORT 16072 INFO CLASS 4
LOCATION: LAT. 49 05 30 LONG. 124 34 36 NTS:
CLAIMS: Tan
OPERATOR: Nexus Res.
AUTHOR: Getsinger, J.
DESCRIPTION: The claim is underlain by Middle Devonian Nitinat Formation basaltic rocks. A quartz-sulphide filled shear zone is anomalous in gold, silver, molybdenum and arsenic. The shear is at least 1.8 metres wide and has been traced for about 70 metres.
WORK DONE: ROCK 15;multielement
TREN 3.0 m;1 trench
SAMP 6;multielement
PETR 6;thin sections
GEOL 1:5000
SILT 1;multielement
REFERENCES: A.R. 12150,13670,14431

**** Toby ****

MINING DIV: Alberni ASSESSMENT REPORT 15957 INFO CLASS 3
LOCATION: LAT. 49 03 00 LONG. 124 40 00 NTS:
CLAIMS: Toby 1-2
OPERATOR: Imperial Metals
AUTHOR: DeLancey, P.
COMMODITIES: Gold,Silver,Copper,Iron
DESCRIPTION: Upper Triassic Karmutsen Formation basaltic volcanics and Jurassic Island Intrusions (Muller and Carson, 1968), underlie the claims. These rocks are cut by faults and associated ankerite shear zones. Local copper skarn mineralization and gold bearing quartz veins have been located along silicified contacts and along faults.
WORK DONE: SOIL 765;multielement
ROCK 17;multielement
SILT 11;multielement
LINE 19.0 km
REFERENCES: M.I. 092F 329-TOBY 1;092F 330-TOBY 2

**** Victoria ****

MINING DIV: *** ASSESSMENT REPORT 15909 INFO CLASS 2
LOCATION: LAT. 49 11 00 LONG. 124 39 30 NTS:
CLAIMS: Linda 2
OPERATOR: Nexus Res.
AUTHOR: Lyons, E.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: The claim group is underlain by Sicker Group basalts (Myra Formation) of Mid to Late Paleozoic age. Mineralization occurs in quartz-carbonate veins associated with altered schist zones associated with the Mineral-Yellow Creek Fault complex.
WORK DONE: DIAD 1687.9 m;12 holes,BQ
SAMP 686;multielement
REFERENCES: A.R. 04915,06153,11278
M.I. 092F 079-VICTORIA

**** Angie ****

MINING DIV: Alberni ASSESSMENT REPORT 15970 INFO CLASS 3
LOCATION: LAT. 49 11 12 LONG. 124 54 48 NTS:
CLAIMS: Angie 5-6
OPERATOR: Rancor Res.
AUTHOR: Poloni, J.
DESCRIPTION: Shear zones with sulphides occur in Lower Jurassic Bonanza Group and Upper Triassic Karmutsen Formation volcanics.
WORK DONE: ROCK 15;Au,Ag,Cu
SOIL 370;Au,Ag,Cu
REFERENCES:

**** Kola ****

MINING DIV: *** ASSESSMENT REPORT 15658 INFO CLASS 2
LOCATION: LAT. 49 11 01 LONG. 124 57 00 NTS:

CLAIMS: Kola 2
OPERATOR: Amstar Venture
AUTHOR: Sookochoff, L.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by Upper Triassic Karmutsen Formation andesite flows. Northerly striking shear zones contain local massive sulphides consisting of chalcopyrite and are exposed along a trenched road cut for 300 metres. Carbonate and silica alteration also occur within the shear zone.
The diamond drill program indicates the sulphide zone is limited to 10 metres strike length and extends to at least 40 metres to depth.
WORK DONE: SAMP 221;Cu,Ag,Au
DIAD 1307.9 m;22 holes,BQ,NQ
REFERENCES: A.R. 09313,10288,12052,13949
M.I. O92F 103-KOLA

**** Skarn ****

MINING DIV: Alberni ASSESSMENT REPORT 15780 INFO CLASS 3
LOCATION: LAT. 49 12 00 LONG. 124 55 00 NTS:
CLAIMS: Skarn
OPERATOR: Alta Management
AUTHOR: Royer, G.
DESCRIPTION: Quartz diorite and granite of the Island Intrusions are most abundant on the eastern area of the claim. Where shearing is evident, this rock is moderately altered with epidote and chlorite. Volcanic rocks of the Upper Triassic Karmutsen Formation are the most common within the claim. The rocks are affected by north and westerly directed shear and fault zones. Masses of pyrite, chalcopyrite, and some bornite were the most commonly noted minerals.
WORK DONE: GEOL 1:2500
REFERENCES:

**** Alpeer 3,Alpeer ****

MINING DIV: *** ASSESSMENT REPORT 16252 INFO CLASS 4
LOCATION: LAT. 49 10 54 LONG. 125 19 00 NTS:
CLAIMS: Alpeer,Alpeer 3
OPERATOR: Acquest Ent.
AUTHOR: Soux, C.; Troup, A.
COMMODITIES: Gold,Copper
DESCRIPTION: Pyritic Upper Triassic Karmutsen Formation volcanics carry gold values.
WORK DONE: ROCK 29;multielement
MNGR 1;polished section
REFERENCES: M.I. O92F 433--ALPEER;O92F 434-ALPEER 3

**** American Wonder ****

MINING DIV: Alberni ASSESSMENT REPORT 15570 INFO CLASS 3
LOCATION: LAT. 49 01 48 LONG. 125 30 30 NTS:
CLAIMS: Dom,Empire,Epic,Pym 2-3,Tert 3-5
OPERATOR: Aintree Res.
AUTHOR: Henneberry, R.

COMMODITIES: Iron,Copper
DESCRIPTION: Tertiary quartz diorite intrudes Upper Triassic Quatsino and Parsons Bay Formation sediments and Lower Jurassic Bonanza Group volcanics. Gold values occur in shear zones within the Tertiary intrusive and to a lesser extent in the other units. Shear zone alteration consists of sericite, clays and limonite with local chlorite and silicification.
WORK DONE: GEOL 1:10 000
LINE 2.9 km
SOIL 207;multielement
REFERENCES: M.I. O92F O43-AMERICAN WONDER

**** Bessie B (Jessie B) ****

MINING DIV: *** ASSESSMENT REPORT 16145 INFO CLASS 4
LOCATION: LAT. 49 10 00 LONG. 125 25 18 NTS:
CLAIMS: Esther
OPERATOR: Lampman, J.
AUTHOR: Groves, W.; Pearson, N.
COMMODITIES: Gold
DESCRIPTION: Upper Triassic Vancouver Group metavolcanics are cut by a fault in Esther Creek.
WORK DONE: SILT 10;Au,Ag,Zn,As,Pb,Cu
REFERENCES: A.R. 11940,12047
M.I. O92F O5O-BESSIE B (JESSIE B)

**** Blue Bird ****

MINING DIV: Alberni ASSESSMENT REPORT 15949 INFO CLASS 4
LOCATION: LAT. 49 12 00 LONG. 125 25 00 NTS:
CLAIMS: Blaster
OPERATOR: Gourley, K.
AUTHOR: Gourley, K.
COMMODITIES: Gold,Silver
DESCRIPTION: The property is underlain by Upper Triassic and older Karmutsen Formation pillow-basalt and pillow breccia, massive basalt flows, minor tuff and volcanic breccia. Jasperoid tuff, breccia and conglomerate occur at the base of an east-west fault (Canoe Creek). Parallel lenticular quartz veins occur in the fault and north and south of the fault. The 1986 sampling indicated sulphides and up to 5 000 ppb gold in quartz lenses.
WORK DONE: PROS 1:5000
ROCK 9;Au
TREN 7.5 m;3 trenches
REFERENCES: M.I. O92F O51-BLUE BIRD

**** Empire ****

MINING DIV: *** ASSESSMENT REPORT 15643 INFO CLASS 3
LOCATION: LAT. 49 01 00 LONG. 125 29 00 NTS:
CLAIMS: Empire
OPERATOR: Aintree Res.
AUTHOR: Henneberry, R.
DESCRIPTION: Tertiary quartz diorite intrudes andesitic volcanics of the Bonanza Group. Mineralized shear zones cut the Tertiary intrusive

and the Bonanza volcanics. Anomalous silver values are associated with the shear zones. The "Main showing" carries gold values to 2000 ppb.
WORK DONE: LINE 3.8 km
SOIL 148;multielement
REFERENCES: A.R. 09646,15637

**** Epic ****

MINING DIV: Alberni ASSESSMENT REPORT 15637 INFO CLASS 4
LOCATION: LAT. 49 02 30 LONG. 125 28 00 NTS:
CLAIMS: Epic
OPERATOR: Aintree Res.
AUTHOR: Henneberry, R.
DESCRIPTION: Tertiary quartz diorite intrudes Quatsino Formation limestone. Auriferous shear zones transecting the limestone carry anomalous gold and silver values.
WORK DONE: SOIL 99;multielement
REFERENCES: A.R. 09646,15643

**** Guppy,NBD,Westering 2 ****

MINING DIV: *** ASSESSMENT REPORT 16473 INFO CLASS 3
LOCATION: LAT. 49 08 48 LONG. 125 25 48 NTS:
CLAIMS: Goldrim 2,Westering,Westering 1
OPERATOR: Kerr Addison Mines
AUTHOR: Potter, R.
COMMODITIES: Iron,Copper,Gold
DESCRIPTION: Zones of steeply dipping auriferous quartz veinlets occur within Upper Triassic Karmutsen Formation andesites and dacites.
WORK DONE: GEOL 1:5000,1:1000
SOIL 275;Au
ROCK 105;Au
TOPO 1:5000
LINE 10.0 km
REFERENCES: M.I. 092F 392-NBD;092F 448-GUPPY;092F 448-WESTERING 2

**** JoJo,Tommy K,Rose Marie ****

MINING DIV: Alberni ASSESSMENT REPORT 16474 INFO CLASS 2
LOCATION: LAT. 49 10 06 LONG. 125 23 48 NTS:
CLAIMS: Golden Gate,Ken,Tommy,Waterfall
OPERATOR: Kerr Addison Mines
AUTHOR: Potter, R.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: A zone of sheeted auriferous quartz veinlets occurs within Upper Triassic Karmutsen Formation andesites and Tertiary(?) feldspar porphyry dykes. The steeply dipping zone attains widths of up to 150 metres over a strike length of 1400 metres.
WORK DONE: SAMP 956;Au
ROAD 1.5 km
TOPO 1:5000
GEOL 1:5000,1:1000
DIAD 1656.0 m;8 holes,NQ
LINE 14.0 km

ROCK 25;Au
REFERENCES: A.R. 09606,12767,14279
M.I. 092F 033-TOMMY K (KENNEDY LAKE);092F 032-ROSE MARIE;
092F 047-JOJO

**** Leora ****

MINING DIV: *** ASSESSMENT REPORT 15956 INFO CLASS 3
LOCATION: LAT. 49 07 30 LONG. 125 24 00 NTS:
CLAIMS: Lost Canyon,Viva 1-2
OPERATOR: Discovery Gold Ex.
AUTHOR: Keyser, H.
COMMODITIES: Gold,Silver
DESCRIPTION: The property is underlain by Triassic Karmutsen Formation andesitic to basaltic flows. Vein-type gold mineralization occurs irregularly along a continuous east-west striking fault zone. The best values encountered are 27.6 grams per tonne gold over a width of 1.2 metres. Arsenic, silver, zinc, tungsten, copper, lead, and cadmium are enriched in the gold bearing zone.
WORK DONE: TREN 60.0 m;4 trenches
SILT 6;multielement
LINE 1.0 km
UNDV Dewatering
GEOL 1:10 000,1:1000,1:250
SAMP 139;Au,Ag
REFERENCES: A.R. 05711,07665,12557,15842
M.I. 092F 031-LEORA

**** Leora (Sylvanite) ****

MINING DIV: Alberni ASSESSMENT REPORT 15842 INFO CLASS 3
LOCATION: LAT. 49 08 12 LONG. 125 24 30 NTS:
CLAIMS: Donald
OPERATOR: Kinneard, G.
AUTHOR: Olfert, E.G.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by Upper Triassic Karmutsen Formation volcanics and minor sediments.
WORK DONE: DIAD 211.2 m;5 holes,BQ,NQ
SAMP 48;Au,Ag
REFERENCES: A.R. 05711,07665,12557
M.I. 092F 031-LEORA (SYLVANITE)

**** Red Rover (Toquart) ****

MINING DIV: *** ASSESSMENT REPORT 15685 INFO CLASS 3
LOCATION: LAT. 49 03 42 LONG. 125 18 24 NTS:
CLAIMS: Wick,KL,KM,KN,KO,KP,KQ,KR,KS,KT,KU,Lucky Fr.,Lucky 2 Fr.,Lucky 81-82 Oyster 1,Wick
OPERATOR: Falconbridge
AUTHOR: Lehtinen, J.; Rebic, Z.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by metavolcanic rocks of the Upper Triassic Karmutsen Formation and by Quatsino Formation limestone and Lower Jurassic Bonanza Group volcanics. Numerous Jurassic intrusions

outcrop on the property. Fresher-looking intrusions may possibly be of Tertiary age. Spotty skarns occur at limestone contacts and narrow quartz veins occur in shear zones.

WORK DONE: SILT 8;multielement
EMGR 4.0 km;VLF
DIAD 332.0 m;7 holes,BQ
MAGG 4.0 km
SOIL 485;multielement
SAMP 210;multielement
GEOL 1:10 000
ROCK 437;multielement

REFERENCES: A.R. 10626,11545,12318
M.I. O92F O34-RED ROVER (TOQUART)

**** Shack,Bear,Gold Queen,Olympic (Titanic) ****

MINING DIV: Alberni ASSESSMENT REPORT 15935 INFO CLASS 3
LOCATION: LAT. 49 10 00 LONG. 125 25 00 NTS:
CLAIMS: Captain Hook,Titanic
OPERATOR: Nationwide Gold Mines
AUTHOR: Henneberry, R.
COMMODITIES: Gold
DESCRIPTION: Rocks of Karmutsen and Quatsino Formations are intruded by Island and Sooke Intrusions. Gold mineralization is localized in quartz veins within regional shear zone/faults. Gold is associated with pyrite, chalcopyrite, pyrrhotite and sphalerite. Alteration halos of chlorite and silicification are associated with the shear zones.

WORK DONE: GEOL 1:1000,1:500
EMGR 8.0 km;VLF
SOIL 535;Au,Ag,As,Cu,Zn,Fe
SILT 28;Au,Ag,As,Cu,Zn,Fe
TOPO 1:5000
LINE 39.0 km

REFERENCES: M.I. O92F O44-BEAR;O92F O45-SHACK;O92F O46-GOLD QUEEN; O92F O52-OLYMPIC (TITANIC)

**** American Wonder,Gen. James M,Iron Duke ****

MINING DIV: *** ASSESSMENT REPORT 16354 INFO CLASS 4
LOCATION: LAT. 49 14 30 LONG. 125 38 00 NTS:
CLAIMS: General James M.,Lady Francis,Success,Superb
OPERATOR: West-Mar Res.
AUTHOR: Wood, D.
COMMODITIES: Copper,Iron
DESCRIPTION: Copper and magnetite occur within garnet-epidote skarn at the contact between Sicker Group calcareous sediments and Late Jurassic granodioritic rocks of the Island Intrusions.

WORK DONE: ROCK 6;multielement
HMIN 3;Au
PROS 1:5000

REFERENCES: A.R. 14337
M.I. O92F O43-AMERICAN WONDER;O92F 152-GEN. JAMES M.;O92F 153-IRON DUKE

**** Clara ****

MINING DIV: Alberni ASSESSMENT REPORT 16220 INFO CLASS 4
LOCATION: LAT. 49 12 12 LONG. 125 35 30 NTS:
CLAIMS: Clara
OPERATOR: Buckland, P.
AUTHOR:
DESCRIPTION: Exposed geology consists of pyritic gneissic rocks with dyke-like amphibolite.
WORK DONE: PROS 1:14 019
REFERENCES:

**** Crash ****

MINING DIV: *** ASSESSMENT REPORT 16219 INFO CLASS 4
LOCATION: LAT. 49 14 00 LONG. 125 34 18 NTS:
CLAIMS: Crash
OPERATOR: Buckland, P.
AUTHOR: Buckland, P.
DESCRIPTION: The claim appears to be underlain by greenstones, intrusive rocks and limestone.
WORK DONE: PROS 1:12 500
REFERENCES:

**** Northern Crown ****

MINING DIV: Alberni ASSESSMENT REPORT 16182 INFO CLASS 4
LOCATION: LAT. 49 11 12 LONG. 125 31 36 NTS:
CLAIMS: Jem 1-2
OPERATOR: Guppy, W.
AUTHOR: Guppy, W.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: Chalcopyrite-pyrrhotite skarn mineralization is found at or near the contact of Pennsylvanian Buttle Lake Formation limestone with Paleozoic Sicker Group and/or Upper Triassic Karmutsen Formation volcanics.
WORK DONE: PROS 1:5000
REFERENCES: M.I. O92F 173-NORTHERN CROWN

**** Tofino Nickle ****

MINING DIV: *** ASSESSMENT REPORT 15447 INFO CLASS 4
LOCATION: LAT. 49 13 12 LONG. 125 37 42 NTS:
CLAIMS: Lorne,Nickel 1,Nickel 3,Super 1,Super 3
OPERATOR: Cominco
AUTHOR: Lecouteur, P.
COMMODITIES: Silver,Copper,Nickel
DESCRIPTION: Quartzo-feldspathic gneiss and metabasalt, probably derived from the Mid-Paleozoic Sicker Group are intruded by foliated quartz diorite belonging to the Jurassic Island Intrusions. There are many amphibolitized mafic sills in the gneiss, and at the main showing an ultramafic sill up to 1.5 metres thick contains disseminated to massive copper-nickel sulphide mineralization extending over

approximately 30 metres.
WORK DONE: ROCK 22;Pt,Pd,Cu,Ni,Sb,As
LINE 3.1 km
GEOL 1:5000,1:1316
REFERENCES: A.R. 13121,14182,15155
M.I. 092F 029-TOFINO NICKLE

**** Free Gold,Maple Leaf ****

MINING DIV: Alberni ASSESSMENT REPORT 15551 INFO CLASS 4
LOCATION: LAT. 49 16 24 LONG. 125 44 00 NTS:
CLAIMS: Baycrest,Baycrest 2-3,Expo 1-2
OPERATOR: Guppy, W.
AUTHOR:
COMMODITIES: Gold,Copper
DESCRIPTION: The claims appear to be underlain by Paleozoic Sicker Group volcanics, limestone lenses and diorite.
WORK DONE: ROAD 0.4 km
PROS 1:10 000
REFERENCES: A.R. 00115
M.I. 092F 039-MAPLE LEAF;092F 205-FREE GOLD

**** Stan ****

MINING DIV: *** ASSESSMENT REPORT 16496 INFO CLASS 4
LOCATION: LAT. 49 28 18 LONG. 125 32 48 NTS:
CLAIMS: Stan 12-13,Stan 15-16,Stan 18,Stan 4
OPERATOR: Cream Silver Mines
AUTHOR: Gonzalez, R.
DESCRIPTION: The claims cover the southern part of the Buttle Lake structural uplift in which Paleozoic Sicker Group rocks are bounded on the east and west by Upper Triassic Karmutsen Formation volcanics and granitic rocks of the Lower-Middle Jurassic Island Intrusions respectively. Several styles of mineralization have been noted in place and float.
WORK DONE: GEOL 1:2500
ROCK 6;multielement
HMIN 3;multielement
SOIL 1;multielement
REFERENCES:

**** Thunderbird,Mid-Pad,Junction ****

MINING DIV: Alberni ASSESSMENT REPORT 16450 INFO CLASS 2
LOCATION: LAT. 49 22 24 LONG. 125 36 36 NTS:
CLAIMS: Opus 1-2,Ureka 1-13
OPERATOR: Pacific Sentinel Gold
AUTHOR: Shearer, J.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by the Upper Triassic Karmutsen Formation in fault and intrusive contact with granodiorite of the Lower-Middle Jurassic Island Intrusions. Major fault and shear directions are 112 degrees. Four showings of pyrite-chalcopyrite with trace sphalerite and galena have been found. Selected samples assay as high as 29.1 grams per tonne gold, but most average much lower. The Junction showing is a cataclastic zone along Ursus Creek.

WORK DONE: GEOL 1:2500
MAGG 13.0 km
EMGR 7.0 km;VLF
SOIL 1230;Au
SILT 91;Au
ROCK 156;multielement
LINE 13.0 km
TREN 62.0 m;5 trenches
REFERENCES: A.R. 09378,12623
M.I. 092F 067-THUNDERBIRD;092F 449-MID PAD;092F 450-JUNCTION

**** Bay Creek ****

MINING DIV: *** ASSESSMENT REPORT 15563 INFO CLASS 2
LOCATION: LAT. 49 16 54 LONG. 125 51 00 NTS:
CLAIMS: Cypress 1-3,Headland,Maypay,Maypay 2,Quait Fr.,Whitecliff
OPERATOR: BHP-Utah Mines
AUTHOR: Duncan, D.; Richards, J.
COMMODITIES: Copper
DESCRIPTION: Early Paleozoic Sicker Group volcanics occur in several differentiated sequences of mafic to felsic composition. The units dip steeply northeasterly with some overturning due to thickening. Trace sulphides are common with several showings of stratabound sulphides having been discovered in felsic volcaniclastics.
WORK DONE: LSUR 1:5000
GEOL 1:2500
LINE 50.1 km
REFERENCES: A.R. 14003
M.I. 092F 343-BAY CREEK

**** Bedingfield ****

MINING DIV: Alberni ASSESSMENT REPORT 16297 INFO CLASS 4
LOCATION: LAT. 49 23 00 LONG. 125 57 30 NTS:
CLAIMS: Bedingfield 9-12
OPERATOR: Cominco
AUTHOR: Blackwell, J.
DESCRIPTION: The property comprises an overturned suite of pyroclastic rocks belonging to the Mid-Paleozoic Sicker Group. These volcanics are unconformably overlain by the Pennsylvanian Sediment-Sill Unit and Buttle Lake Formation limestone. Upper Triassic Karmutsen Formation basalts locally cap the Buttle Lake Formation.
WORK DONE: EMGR 6.0 km;HLEM
GEOL 1:10 000
REFERENCES:

**** Bedingfield ****

MINING DIV: *** ASSESSMENT REPORT 16667 INFO CLASS 4
LOCATION: LAT. 49 19 02 LONG. 125 55 51 NTS:
CLAIMS: Bedingfield 18
OPERATOR: Cominco
AUTHOR: Jackison, I.
DESCRIPTION: The property comprises an overturned suite of pyroclastic rocks belonging to the mid-Paleozoic Sicker Group. These volcanics

are unconformably overlain by the Pennsylvanian sediment-sill unit and Buttle Lake Formation limestone. Upper Triassic Karmutsen Formation basalts locally cap the Buttle Lake Formation limestone.
WORK DONE: EMGR 3.0 km;HLEM
REFERENCES:

**** Cove ****

MINING DIV: Alberni ASSESSMENT REPORT 15470 INFO CLASS 4
LOCATION: LAT. 49 17 48 LONG. 125 57 36 NTS:
CLAIMS: Cove 2,Cove 4
OPERATOR: Janes, R.
AUTHOR: Muller, J.; Botel, W.
DESCRIPTION: The claims are underlain by the Pennsylvanian Sediment-Sill Unit of the Paleozoic Sicker Group. Mineralization consists of local pyrite, chalcopyrite, magnetite and pyrrhotite with minor silver and gold values.
WORK DONE: GEOL 1:10 000
REFERENCES:

**** Lazy K ****

MINING DIV: *** ASSESSMENT REPORT 16224 INFO CLASS 3
LOCATION: LAT. 49 24 00 LONG. 125 53 00 NTS:
CLAIMS: Beach,Creek,Lazy K 1-4
OPERATOR: Consort Energy
AUTHOR: Neale, T.
COMMODITIES: Gold,Lead,Copper
DESCRIPTION: The property is mainly underlain by mafic to intermediate volcanics of uncertain age, with lesser Paleozoic Sicker Group(?) sediments in the southeast corner. Lower-Middle Jurassic Island Intrusions(?) granodiorite and Tertiary(?) diorite also occur. An area of quartz +/- carbonate veining in altered volcanics and associated feldspar porphyry dykes returned up to 2.02 grams per tonne gold with up to 8 413 ppm copper, 5 661 ppm lead, 4 224 ppm zinc and 7.2 ppm silver.
WORK DONE: SOIL 38;multielement
ROCK 161;multielement
SILT 43;multielement
GEOL 1:5000
REFERENCES:

**** G.C. ****

MINING DIV: Alberni ASSESSMENT REPORT 15498 INFO CLASS 4
LOCATION: LAT. 49 20 12 LONG. 125 12 48 NTS:
CLAIMS: GC 2
OPERATOR: Allen, L.
AUTHOR: Bilquist, R.
DESCRIPTION: Calcite and quartz stringers occur in fractured Upper Triassic Karmutsen Formation volcanics.
WORK DONE: PROS 1:5000
ROAD 4.0 km
REFERENCES: A.R. 15354

**** HM ****

MINING DIV: *** ASSESSMENT REPORT 16632 INFO CLASS 3
LOCATION: LAT. 49 18 59 LONG. 125 07 05 NTS:
CLAIMS: Ark,Ark 2-3,Rex
OPERATOR: Stetson Res. Management
AUTHOR: Henneberry, T.
COMMODITIES: Antimony,Mercury,Gold
DESCRIPTION: The Ark property is underlain by andesitic volcanics of the Upper Triassic Karmutsen Formation. The Ark vein represents the upper levels of a suspected epithermal system and carries strong antimony and mercury mineralization together with anomalous gold values.
WORK DONE: SOIL 200;multielement
SILT 18;multielement
ROCK 43;multielement
DIAD 276.5 m;3 holes,BQ
SAMP 12;Ag,Sb,Au,Hg
TREN 35.0 m;3 trenches
REFERENCES: A.R. 03651,15147
M.I. O92F 230-HM

**** Paterson Lake,Round Lake,Stamp River,Road Zon

MINING DIV: Alberni ASSESSMENT REPORT 16239 INFO CLASS 3
LOCATION: LAT. 49 20 48 LONG. 125 01 00 NTS:
CLAIMS: Paterson,Paterson 1,Paterson Lake 3-6
OPERATOR: Della Terra Res.
AUTHOR: Lambert, E.; Stephen, J.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: The claims are underlain by Upper Triassic Karmutsen Formation volcanics. Mineralization has been found in silicified volcanics, shear zones, quartz breccias and veins and in apparent flow tops. A hornblende-biotite granodiorite body intrudes the northwest portion of the property. Low gold and silver values occur with copper mineralization.
WORK DONE: GEOL 1:10 000
MAGG 29.8 km
EMGR 29.8 km;VLF
IPOL 10.5 km
LINE 34.9 km
REFERENCES: A.R. 16101
M.I. O92F 340-PATERSON LAKE;O92F 415-ROUND LAKE;O92F 430-STAMP RIVER;O92F 432-ROAD ZONE

**** Stamp River,Round Lake,Paterson ****

MINING DIV: *** ASSESSMENT REPORT 16101 INFO CLASS 4
LOCATION: LAT. 49 21 12 LONG. 125 00 18 NTS:
CLAIMS: Paterson,Paterson 1,Paterson Lake 3-4
OPERATOR: Della Terra Res.
AUTHOR: Stephen, J.
COMMODITIES: Copper,Gold,Silver

DESCRIPTION: Upper Triassic Karmutsen Formation volcanics have been subdivided into massive fragmental and pillow units. Mineralization has been found in silicified volcanics, shear zones, quartz breccias and veins and in apparent flow tops in the Karmutsen Formation volcanics. Several hornblende porphyry diorite dykes occur with a hornblende-biotite granodiorite occuring in the northwest corner of the property.
WORK DONE: ROCK 70;Cu,Ag,Au
LINE 33.8 km
SILT 6;Cu,Ag,Au
GEOL 1:10 000
REFERENCES: M.I. 092F 334-PATERSON;092F 335-ROUND LAKE;092F 336-STAMP RIVER

**** Central ****

MINING DIV: Alberni ASSESSMENT REPORT 16046 INFO CLASS 4
LOCATION: LAT. 49 20 12 LONG. 125 19 12 NTS:
CLAIMS: Central 1-2
OPERATOR: Murjoh Res.
AUTHOR: Chung, P.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by a Jurassic quartz diorite and an Upper Triassic andesite belonging to the Karmutsen Formation. Pyrite, galena, sphalerite, chalcopyrite and gold are present in quartz veins along an east-west shear zone in the intrusive.
WORK DONE: ROCK 9;multielement
GEOL 1:10 000
LINE 7.0 km
REFERENCES:

**** Morning (Columbia) ****

MINING DIV: *** ASSESSMENT REPORT 15910 INFO CLASS 4
LOCATION: LAT. 49 17 54 LONG. 125 16 06 NTS:
CLAIMS: Morning,Morning 1
OPERATOR: Goldsmith, L.
AUTHOR: Kallock, P.; Goldsmith, L.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: Upper Triassic Karmutsen Formation volcanics host northeasterly trending quartz veins and veinlets which contain gold mineralization.
WORK DONE: ROCK 4;Au
GEOL 1:2000
SOIL 17;Au
REFERENCES: A.R. 05368,05858,07260
M.I. 092F 119-MORNING (COLUMBIA)

**** Snow ****

MINING DIV: Alberni ASSESSMENT REPORT 16208 INFO CLASS 3
LOCATION: LAT. 49 18 30 LONG. 125 25 00 NTS:
CLAIMS: Snow 1-2,White 1-2
OPERATOR: Casau Res.
AUTHOR: Sayer, C.; Stephen, J.
COMMODITIES: Gold,Silver,Copper,Lead,Zinc

DESCRIPTION: Upper Triassic Karmutsen Formation volcanics and Jurassic Island Intrusions occur in fault slices and rafts. Predominant east-west faults cut the rocks but many north-south faults exist as well. Fault zones are the loci of quartz-carbonate veins which host pyrite, chalcopyrite, galena and gold mineralization. Veining ranges from 1-90 centimetres wide and is associated with argillic and epidote alteration.
WORK DONE: LINE 17.0 km
GEOL 1:2000
EMGR 16.7 km;VLF
MAGG 16.7 km
ROCK 33;multielement
SOIL 290;multielement
PETR 1;thin section
REFERENCES: M.I. 092F 323-SNOW

**** Cameron Lake,Gary Lake,Lacy Lake,Main,East Tr

MINING DIV: *** ASSESSMENT REPORT 16138 INFO CLASS 2
LOCATION: LAT. 49 17 30 LONG. 124 44 00 NTS:
CLAIMS: Esary 1,Lacy 1-4,Stokes 1-4
OPERATOR: Lode Res.
AUTHOR: Laanela, H.
COMMODITIES: Iron,Manganese,Copper,Gold,Silver
DESCRIPTION: The claims are underlain by Paleozoic Sicker Group volcanics and sedimentary rocks which predominantly trend northwest. The stratigraphy is quite complex due to many fault blocks and rapid lateral facies changes. Alteration is subtle and not far reaching. Several mineralized zones were located including sulphide pods and iron-manganese showings.
WORK DONE: GEOL 1:5000,1:2500
ROCK 75;multielement
EMGR 35.7 km;VLF
MAGG 35.7 km
SOIL 1625;multielement
REFERENCES: M.I. 092F 244-GARY LAKE;092F 245-LACY LAKE;092F 246-CAMERON LAKE;092F 451-MAIN;092F 452-EAST TRACK;092F 453-OLD CU-AG

**** Horne ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16118 INFO CLASS 4
LOCATION: LAT. 49 17 42 LONG. 124 40 48 NTS:
CLAIMS: Horne 1-4
OPERATOR: Nexus Res.
AUTHOR: Cope, G.; Hawkins, T.
DESCRIPTION: The property is underlain by Paleozoic Sicker Group rocks including the Upper Devonian Myra Formation and Middle Devonian Nitinat Formation. A major north-northwest trending regional fault structure crosses the property. Zones of heavy quartz-carbonate alteration associated with the fault have returned anomalous values in gold, arsenic, silver and zinc from rock sampling.
WORK DONE: ROCK 25;multielement
GEOL 1:10 000
SILT 4;multielement

REFERENCES: A.R. 14941

**** Little Qualicum Falls ****

MINING DIV: *** ASSESSMENT REPORT 16559 INFO CLASS 4
LOCATION: LAT. 49 18 24 LONG. 124 35 18 NTS:
CLAIMS: Cam 1-4,GR 2,Heather
OPERATOR: Rosebrugh, G.
AUTHOR: Buskell, B.
COMMODITIES: Copper,Silver
DESCRIPTION: The claims are underlain by volcanic and intrusive rocks.
WORK DONE: PROS 1:25 000
REFERENCES: M.I. 092F 377-LITTLE QUALICUM FALLS

**** Mero ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15557 INFO CLASS 4
LOCATION: LAT. 49 16 18 LONG. 124 40 48 NTS:
CLAIMS: Mero 1-3
OPERATOR: Nexus Res.
AUTHOR: Getsinger, J.
DESCRIPTION: The claims are underlain by Paleozoic Sicker Group rocks including the Myra Formation and Nitinat Formation. A major north-northwest trending regional fault structure crosses the property. Zones of heavy quartz-carbonate alteration associated with the fault have returned anomalous values in arsenic, gold, silver and zinc from rock sampling.
WORK DONE: ROCK 47;multielement
SILT 2;multielement
GEOL 1:10 000
ROCK 8;multielement
REFERENCES:

**** Silver Bell ****

MINING DIV: *** ASSESSMENT REPORT 16197 INFO CLASS 4
LOCATION: LAT. 49 20 36 LONG. 124 43 18 NTS:
CLAIMS: Cave 1,Horne 6
OPERATOR: Nexus Res.
AUTHOR: Cope, R.; Hawkins, T.
COMMODITIES: Antimony
DESCRIPTION: The property is underlain by Paleozoic Sicker Group rocks including the Myra and Nitinat Formations. A major north-northwest trending regional fault structure crosses the property. Quartz veins within zones of heavy quartz-carbonate alteration associated with the fault are reported to have returned anomalous values in gold and antimony.
WORK DONE: ROCK 6;multielement
SILT 2;multielement
GEOL 1:10 000
REFERENCES: M.I. 092F 243-SILVER BELL

**** Roaring ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16141 INFO CLASS 4

LOCATION: LAT. 49 25 30 LONG. 124 52 30 NTS:
CLAIMS: Roaring 1-2
OPERATOR: Bilquist, R.
AUTHOR:
DESCRIPTION: Calc-silicate altered Upper Triassic Karmutsen Formation volcanics and intrusive feldspar porphyry diorite host stibnite, cinnabar, sphalerite and chalcopyrite mineralization.
WORK DONE: ROCK 16;multielement
PROS 1:5000
REFERENCES:

**** Venus,St. Joseph (Hill 60) ****

MINING DIV: *** ASSESSMENT REPORT 16086 INFO CLASS 3
LOCATION: LAT. 49 30 30 LONG. 124 20 06 NTS:
CLAIMS: Aladdin,Harold,Harold 2,M 17,M 20
OPERATOR: H.Q. Min.
AUTHOR: Gunning, M.; Hawkins, T.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: The property is underlain primarily by dark grey, amygdaloidal and agglomeratic basalt of the Upper Triassic Karmutsen Formation with a narrow, intrusive body of medium-grained quartz diorite. Regional bedding strikes northwest and a distinct structural grain strikes northeast. Vertical shear zones contain massive sulphides and anomalous gold, silver and copper values.
WORK DONE: ROCK 124;multielement
SILT 2;multielement
EMGR 10.1 km;VLF
TOPO 1:10 000
MAGG 10.1 km
GEOL 1:2500
SOIL 413;multielement
REFERENCES: A.R. 00950,01241,01716,01807
M.I. 092F 131-VENUS;092F 132-ST. JOSEPH (HILL 60)

**** Cisco ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16013 INFO CLASS 4
LOCATION: LAT. 49 34 00 LONG. 124 12 00 NTS:
CLAIMS: Bobs 1-6,Bobs Fr.,Cisco,Ed 1-3,Jen 2-4,May,May 2 Fr.,May 3-6 May 9-10
OPERATOR: Newman, J.
AUTHOR: Newman, J.
DESCRIPTION: The claims appear to be underlain by Upper Triassic Karmutsen Formation basalt and basalt agglomerate. An extensive quartz-iron carbonate alteration zone occurs on the property.
WORK DONE: ROCK 20;multielement
ROAD 1.3 km
SOIL 48;multielement
TREN 8.0 m;1 trench
PROS 1:5000
PITS 4
REFERENCES:

**** King Midas ****

MINING DIV: Vancouver ASSESSMENT REPORT 16366 INFO CLASS 4
LOCATION: LAT. 49 40 00 LONG. 124 00 00 NTS:
CLAIMS: V 1,V 2
OPERATOR: Keystone Ex.
AUTHOR: Cukor, D.
COMMODITIES: Silver,Copper,Gold
DESCRIPTION: A skarn contact zone occurs between Jarvis Group (volcanics, calcareous sediments, chert, argillite) and Upper Cretaceous Coast Intrusions. Mineralization consists of native copper and chalcopyrite.
WORK DONE: EMGR 0.6 km;VLF
REFERENCES: A.R. 05444,07001,07742,12104
M.I. 092F 115-KING MIDAS

**** Newt ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16019 INFO CLASS 4
LOCATION: LAT. 49 30 24 LONG. 124 09 00 NTS:
CLAIMS: Newt
OPERATOR: Esso Res. Can.
AUTHOR: Melnyk, W.
DESCRIPTION: The claim is underlain by Upper Triassic Karmutsen Formation volcanics and Paleozoic Sicker Group rocks. The Karmutsen Formation consists of unaltered pillowed flows, massive flows of andesitic to basaltic composition and black cherty argillite. The Paleozoic Sicker Group rocks include tuffs, agglomerates, crystalline limestone, conglomerates and flows. The entire assemblage strikes north and dips westerly.
WORK DONE: LINE 2.6 km
GEOL 1:10 000,1:2000
EMGR 2.0 km;HLEM
SOIL 27;multielement
REFERENCES:

**** Copper Queen,Little Billie,Cornell,Sentinel *

MINING DIV: *** ASSESSMENT REPORT 16104 INFO CLASS 3
LOCATION: LAT. 49 45 06 LONG. 124 32 54 NTS:
CLAIMS: Brownie 2 Fr.,ML 15,Lot 40,Lot 201,Lots 515-528,Lot 530
OPERATOR: Vananda Gold
AUTHOR: Peatfield, G.
COMMODITIES: Copper,Gold,Silver,Lead,Zinc,Iron
DESCRIPTION: Upper Triassic limestones and volcanics correlated with the Quatsino and Karmutsen Formations have been intruded by Jurassic (?) diorite and quartz diorite plugs and stocks. Near these intrusive rocks, mostly in the limestones, are substantial masses of skarn with magnetite-chalcopyrite and chalcopyrite-bornite-gold occurrences, many of which have been mined.
WORK DONE: LINE 45.0 km
GEOL 1:2500
SOIL 491;multielement

REFERENCES: A.R. 05077,08004,09300
M.I. 092F 105-LITTLE BILLIE;092F 112-CORNELL;092F 113-SENTINEL;092F 269-SECURITY;092F 271-COPPER QUEEN

**** Ideal ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16412 INFO CLASS 4
LOCATION: LAT. 49 45 00 LONG. 125 12 18 NTS:
CLAIMS: Ideal 1-9
OPERATOR: Westmin Res.
AUTHOR: Benvenuto, G.
DESCRIPTION: The property is underlain by Upper Triassic basalt of the Karmutsen Formation, Upper Cretaceous sandstone of the Nanaimo Group and Tertiary quartz diorite intrusives. These rock units are cut by epithermal veins and alteration zones of various attitudes characterized by assemblages including quartz, carbonate, pyrite, chalcopyrite galena, arsenopyrite, stibnite and realgar.
WORK DONE: FOTO 1:37 290
ROCK 61;multielement
REFERENCES:

**** Jo Anne,Domineer,Domineer 22,Murex,Elnora,Lak

MINING DIV: *** ASSESSMENT REPORT 16542 INFO CLASS 3
LOCATION: LAT. 49 46 06 LONG. 125 22 00 NTS:
CLAIMS: Cardinal 1,Joe Anne 5-6,Joe Anne I-IV,P 3,PC 1-2,Rina 1-3
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.
COMMODITIES: Gold,Silver,Copper,Molybdenum,Lead,Zinc
DESCRIPTION: The majority of the area north of Forbidden Plateau and most of the claim area is underlain by Upper Triassic Karmutsen Formation mafic submarine volcanics. Thin wedges of overlying Upper Triassic Quatsino Formation limestone and Lower Jurassic Bonanza Group intermediate volcanics are seen along the Oyster River. Unconformably overlying the Karmutsen Formation is the Upper Cretaceous Nanaimo Group Haslam and Comox Formations which consist of fine to coarse sediments. They have been intruded by Tertiary quartz diorite-monzonite which in places have split the Haslam and Comox in a sill, dyke or lopolith fashion, and brecciated the surrounding rock.
WORK DONE: MAGA 713.0 km
EMAB 713.0 km;HLEM
REFERENCES: M.I. 092F 116-DOMINEER 22;092F 117-DOMINEER (MUREX CREEK); 092F 206-MUREX;092F 309-ELNORA;092F 329-JO ANNE;092F 330-LAKEVIEW;092F 365-MWC

**** Bacon Lake ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16321 INFO CLASS 4
LOCATION: LAT. 49 58 00 LONG. 125 37 00 NTS:
CLAIMS: Bacon
OPERATOR: Tessolini, R.
AUTHOR: Brownlee, D.
COMMODITIES: Iron,Cobalt,Gold,Copper,Zinc
DESCRIPTION: Upper Triassic limestone and shale (Quatsino Formation) are

overlain by Triassic and/or Jurassic tuff, andesitic volcanic breccia and lava which are intruded by Jurassic and/or Cretaceous granodiorite. Magnetite-rich skarns have developed in limestone with associated cobalt and gold values.

WORK DONE: PROS 1:20 000
ROCK 4;Cu,Au,Ag,Fe,Co

REFERENCES: M.I. 092F 256-BACON LAKE

**** Harmony ****

MINING DIV: *** ASSESSMENT REPORT 16406 INFO CLASS 4
LOCATION: LAT. 49 49 00 LONG. 125 14 00 NTS:
CLAIMS: Harmony 1-5
OPERATOR: Paquet, J.
AUTHOR: Paquet, J.
DESCRIPTION: The claims are underlain by the Upper Triassic Karmutsen Formation.
WORK DONE: PROS 1:20 000
ROCK 82;multielement
REFERENCES:

**** Chute Creek ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16192 INFO CLASS 3
LOCATION: LAT. 49 51 48 LONG. 125 24 36 NTS:
CLAIMS: Spar 1,Spar 7
OPERATOR: Nuspar Res.
AUTHOR: Fischl, P.
COMMODITIES: Coal
DESCRIPTION: The claims are underlain by clastic sediments (shales, sandstones and conglomerates) of the Upper Cretaceous Comox Formation. The area has been block faulted by a series of steeply dipping faults. The bedding dips to the north, northeast and east, with dips varying from 0 to 15 degrees.
WORK DONE: DIAD 191.7 m;2 holes,EX
REFERENCES: A.R. 15669
M.I. 092F 316-CHUTE CREEK

**** Chute Creek ****

MINING DIV: *** ASSESSMENT REPORT 15669 INFO CLASS 3
LOCATION: LAT. 49 52 24 LONG. 125 25 54 NTS:
CLAIMS: Spar 1-2,Spar 6
OPERATOR: Nuspar Res.
AUTHOR: Grove, E.W.
COMMODITIES: Coal
DESCRIPTION: The claims are underlain by Upper Cretaceous Nanaimo Group sediments which are cut by mineralized shear faults.
WORK DONE: ROAD 6.0 km;rehab.
DIAD 170.0 m;4 holes,EX
REFERENCES: M.I. 092F 316-CHUTE CREEK

**** Domineer 22 ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15825 INFO CLASS 3

LOCATION: LAT. 49 45 36 LONG. 125 18 00 NTS:
CLAIMS: MWC 232
OPERATOR: Better Res.
AUTHOR: Bristow, J.
COMMODITIES: Copper,Molybdenum,Gold,Silver
DESCRIPTION: The Mt. Washington area is comprised up Upper Triassic Karmutsen Formation volcanics overlain by sediments of the Upper Cretaceous Comox Formation. Breccia pipes of various sizes, shapes and possible ages pierce both Formations and are diversely mineralized. Gently west dipping continuous structures accompanied by alteration and silicification host gold, silver and arsenic mineralization.
WORK DONE: DIAD 741.7 m;14 holes,NQ
SAMP 313;Au,Ag
REFERENCES: A.R. 01145,01691,05146,05267,05604,05979,06407,06930,09445
M.I. 092F 116-DOMINEER 22

**** Iron River ****

MINING DIV: *** ASSESSMENT REPORT 15877 INFO CLASS 3
LOCATION: LAT. 49 55 00 LONG. 125 26 00 NTS:
CLAIMS: IR 2,IR 4
OPERATOR: Firstfund Capital
AUTHOR: Dasler, P.G.
COMMODITIES: Iron,Copper,Gold
DESCRIPTION: Magnetite mineralization totalling 5.1 million tonnes with associated low grade copper mineralization occurs in a skarn deposit. Some precious metal values are reported in the skarnified rocks. The skarn was formed in Karmutsen basalts by intrusion of Middle Jurassic quartz diorite.
WORK DONE: PETR 5 samples
ROAD 5.0 km
DIAD 476.1 m;4 holes,NQ
SAMP 195;Cu,Ag,Au
GEOL 1:600
REFERENCES: A.R. 05300,13574
M.I. 092F 076-IRON RIVER

**** Lakeview ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15857 INFO CLASS 3
LOCATION: LAT. 49 45 30 LONG. 125 18 18 NTS:
CLAIMS: DJV 5,MWC 212,MWC 222
OPERATOR: Better Res.
AUTHOR: Bristow, J.
COMMODITIES: Gold,Silver
DESCRIPTION: The Mt. Washington area is comprised of Upper Triassic Karmutsen Formation volcanics overlain by sediments of the Upper Cretaceous Comox Formation. Breccia pipes of various sizes, shapes and possible ages pierce both Formations and are diversely mineralized. Gently west dipping continuous structures accompanied by alteration and silicification form the host for gold, silver and arsenic mineralization.
WORK DONE: DIAD 577.6 m;9 holes,NQ
SAMP 146;Au,Ag,As

ROAD 0.3 km
REFERENCES: A.R. 01145,01691,05146,05267,05604,05979,05980,06407,06930
M.I. 092F 330-LAKEVIEW

**** Lakeview ****

MINING DIV: *** ASSESSMENT REPORT 15526 INFO CLASS 3
LOCATION: LAT. 49 46 54 LONG. 125 18 18 NTS:
CLAIMS: MWC 224-226,MWC 228,Stout
OPERATOR: Better Res.
AUTHOR: Bristow, J.
COMMODITIES: Gold,Silver
DESCRIPTION: The claim area is underlain by Upper Triassic Karmutsen Formation Volcanics which are overlain by sediments of the Upper Cretaceous Comox Formation. Breccia pipes of various sizes, shapes and possible ages pierce both Formations and are diversely mineralized. Gently west-dipping, unusually continuous structures accompanied by alteration and silicification form the host for the gold, silver and arsenic mineralization.
WORK DONE: LINE 10.5 km
SOIL 353;Au,As
REFERENCES: A.R. 05604,06407,06930,11946
M.I. 092F 330-LAKEVIEW

**** Lakeview ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15776 INFO CLASS 3
LOCATION: LAT. 49 46 30 LONG. 125 18 00 NTS:
CLAIMS: DJV 1,MWC 202-204,MWC 206
OPERATOR: Better Res.
AUTHOR: Bristow, J.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: The Mt. Washington area is comprised of Triassic Karmutsen volcanics which are overlain by sedimentary rocks of the Cretaceous Comox Formation. Breccia pipes of various sizes, shapes and possible ages pierce both Formations and are diversely mineralized. Gently west-dipping unusually continuous structures accompanied by alteration and silicification are hosts to gold, silver and arsenic mineralization.
WORK DONE: SOIL 216;Au,As
LINE 7.7 km
REFERENCES: A.R. 05604,06407,06930
M.I. 092F 330-LAKEVIEW

**** Moon ****

MINING DIV: *** ASSESSMENT REPORT 15424 INFO CLASS 4
LOCATION: LAT. 49 49 42 LONG. 125 26 48 NTS:
CLAIMS: Moon II
OPERATOR: Neill, R.
AUTHOR:
DESCRIPTION: The claims are underlain by Upper Triassic Vancouver Group basalt, black limestone and shale which are intruded by granitic rocks to the west. The eastern portion is underlain by conglomerate and sandstone.

Drill holes intersected sedimentary rocks.
WORK DONE: DIAD 55.0 m;2 holes,EX
REFERENCES: A.R. 13935

**** Moon ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16686 INFO CLASS 4
LOCATION: LAT. 49 49 38 LONG. 125 26 52 NTS:
CLAIMS: Moon 2
OPERATOR: Carruthers, E.
AUTHOR: Neill, R.
DESCRIPTION: The property is underlain by Upper Triassic rocks of the Vancouver Group consisting of black limestone, basalt and porphyry. The eastern side of the claims are underlain by conglomerate and sandstone.
WORK DONE: DIAD 96.6 m;1 hole,EX
REFERENCES: A.R. 13935,15424

**** Murex ****

MINING DIV: *** ASSESSMENT REPORT 15826 INFO CLASS 3
LOCATION: LAT. 49 45 18 LONG. 125 15 18 NTS:
CLAIMS: MWC 151
OPERATOR: Better Res.
AUTHOR: Bristow, J.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: The Mt. Washington area is comprised of Upper Triassic Karmutsen Formation volcanics overlain by sediments of the Upper Cretaceous Comox Formation. Breccia pipes of various sizes and possible ages pierce both Formations and are diversely mineralized. Gently west dipping continuous structures accompanied by alteration and silicification form the host for gold, silver and arsenic mineralization.
WORK DONE: ROAD 0.4 km
SAMP 274;Au,Ag
DIAD 521.9 m;9 holes,NQ
REFERENCES: A.R. 01120,01145,01691,06930,09445
M.I. 092F 206-MUREX

**** Rina ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15690 INFO CLASS 3
LOCATION: LAT. 49 49 00 LONG. 125 21 42 NTS:
CLAIMS: Rina 3
OPERATOR: Noranda Ex.
AUTHOR: Wilson, R.
DESCRIPTION: The claim is underlain by Upper Triassic Karmutsen Formation basaltic flows, pillows, tuff and breccia. The southwest corner of the claim may be underlain by Upper Cretaceous Nanaimo Group Comox Formation coarse conglomerate. Zones of brecciated basalt with limonitic alteration and silica infilling occur near the centre of the grid.
WORK DONE: SOIL 617;multielement
REFERENCES: A.R. 13601

**** Royal Arch,John Bull,Florence ****

MINING DIV: Vancouver ASSESSMENT REPORT 16179 INFO CLASS 4
LOCATION: LAT. 49 56 42 LONG. 124 41 36 NTS:
CLAIMS: Lund 2-3
OPERATOR: Rhyolite Res.
AUTHOR: Bissett, J.
COMMODITIES: Gold,Silver,Copper,Zinc
DESCRIPTION: Silver-zinc-copper mineralization occurs in small roof pendants of limestone surrounded by granodiorite of the Upper Cretaceous Coast Plutonic Complex. At the Florence zone, skarn mineralization occurs within a sheared and brecciated inlier of limestone which appears to be caught up within an almost vertical fault zone that strikes 320 degrees and is generally 30.5 to 61 metres wide.
WORK DONE: PROS 1:1200
REFERENCES: A.R. 04961,05439,06258,08003,10321,13808
M.I. 092F 146-JOHN BULL;092F 147-FLORENCE (MALASPINA);
092F 148-ROYAL ARCH

**** Lang Bay (Ge) ****

MINING DIV: *** ASSESSMENT REPORT 15836 INFO CLASS 4
LOCATION: LAT. 49 48 00 LONG. 124 23 30 NTS:
CLAIMS: Kelly 4
OPERATOR: Fargo Res.
AUTHOR: Hilchey, G.
COMMODITIES: Germanium,Gallium,Kaolinite,Silica,Sand
DESCRIPTION: Germanium and gallium are found in coal-bearing carbonaceous shale horizons. The horizon is from 1 to 5 metres thick, is enclosed in arkose and dips at 15 degrees to the west. Two or three shale horizons overlying the carbonaceous horizon consist mainly of kaolin and are 2 metres thick.
WORK DONE: MNGR 2;XRD
SAMP 62;Ge,Ga
META 3
SEIS 0.9 km
REFERENCES: A.R. 10384,11263,14303,14872
M.I. 092F 137-LANG BAY (GE)

Vancouver 092G

**** Lilbrat ****

MINING DIV: New Westminster ASSESSMENT REPORT 15791 INFO CLASS 4
LOCATION: LAT. 49 00 30 LONG. 122 02 00 NTS:
CLAIMS: Lil Brat 1-4
OPERATOR: Savege, J.
AUTHOR:
DESCRIPTION: The claims are underlain by Cultus Formation argillite, grit and conglomerate and/or Carboniferous argillite, slate and intercalated volcanics.
WORK DONE: ROAD 2.0 km

SAMP 1 bulk sample
PROS 1:5000
REFERENCES:

**** Spanar ****

MINING DIV: *** ASSESSMENT REPORT 16404 INFO CLASS 4
LOCATION: LAT. 49 18 24 LONG. 122 22 48 NTS:
CLAIMS: Sun 2-4
OPERATOR: Mitterer, R.
AUTHOR: Pezzot, E.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by medium grained quartz diorite.
WORK DONE: IPOL 1.0 km
REFERENCES: A.R. 06325;15497
M.I. 092GSE019-SPANAR

**** Sun ****

MINING DIV: New Westminster ASSESSMENT REPORT 15497 INFO CLASS 4
LOCATION: LAT. 49 18 24 LONG. 122 22 42 NTS:
CLAIMS: AU 3,AU 5,Sun 1-4,Sun 6,Star 1,Star 5,Star 7
OPERATOR: Mitterer, R.
AUTHOR: Zastavnikovich, S.
DESCRIPTION: The claims are mainly underlain by Upper Cretaceous Coast Plutonic Complex medium-grained quartz diorites and finer-grained hornblende diorite. The area has been subjected to extensive faulting and shearing. Quartz veining and fracture-filled silicification is present.
WORK DONE: SOIL 12;multielement
MAGG 1.0 km
SILT 7;multielement
ROCK 16;multielement
EMGR 2.1 km;VLF
REFERENCES: A.R. 06325

**** Baldwin (Slide Cr) ****

MINING DIV: Vancouver ASSESSMENT REPORT 16494 INFO CLASS 2
LOCATION: LAT. 49 39 54 LONG. 123 01 30 NTS:
CLAIMS: Baldwin,Baldwin 3
OPERATOR: Kidd Creek Mines
AUTHOR: Gibbins, S.; McTaggart, G.
COMMODITIES: Copper,Silver,Lead,Zinc
DESCRIPTION: Stringers, lenses and disseminated chalcopyrite, galena, and sphalerite occur in intermediate to felsic pyroclastic volcanics of the Lower Cretaceous Gambier Group. A zone of strong silica and sericite alteration trends northwest and dips 75 degrees to the west.
WORK DONE: GEOL 1:1000
SAMP 330;multielement
ROCK 139;multielement
DIAD 2796.0 m;9 holes,NQ
PETR 12 thin sections
REFERENCES: A.R. 00494,00496,00626,02373,02632,04885,07021,07026,10293,10724, 11642,11788,16495

M.I. 092GNW043-BALDWIN (SLIDE CR)

**** McKinnon Group ****

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MINING DIV:    ***                ASSESSMENT REPORT 16495    INFO CLASS 3
LOCATION:     LAT.  49 41 24  LONG.  123 04 12     NTS:
CLAIMS:        Mulligan 1
OPERATOR:      Kidd Creek Mines
AUTHOR:        Gibbins, S.; McTaggart, G.
COMMODITIES:   Copper,Silver
DESCRIPTION:      The property is underlain by a northwest trending series of
              intermediate and felsic pyroclastic rocks and heterolithic
              fragmentals of the Upper Jurassic-Cretaceous Gambier Group.  The
              volcanic succession is a tilted sequence striking 120 degrees with
              an average dip of 60 degrees.  Pyrite mineralization is associated
              with north trending subvertical shears.
WORK DONE:      GEOL   1:1000
                ROCK   113;multielement
REFERENCES:   A.R. 00494,00496,00626,02373,02632,04885,07021,07026,10293,10724,
              11642,11788,16494
              M.I. 092GNW043-MCKINNON GROUP
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**** Copper Bay ****

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MINING DIV:    Vancouver          ASSESSMENT REPORT 15792    INFO CLASS 3
LOCATION:     LAT.  49 30 54  LONG.  123 22 00     NTS:
CLAIMS:        MB 1,MB 10-11,MB 18
OPERATOR:      Candorada Mines
AUTHOR:        Durfeld, R.
COMMODITIES:   Copper
DESCRIPTION:      The claims are underlain by the Lower Cretaceous Gambier Group
              consisting of northwesterly trending argillites, volcanic wackes and
              massive andesites.  Locally the rocks are cut by dioritic rocks of
              the Upper Cretaceous Coast Range Batholith and by a heterogeneous
              assemblage of quartz porphyry, breccia and sub-porphyritic granitic
              rocks.
WORK DONE:      LINE   7.0 km
                SILT   31;multielement
                SOIL   83;multielement
                GEOL   1:5000
                ROCK   12;multielement
REFERENCES:   A.R. 03087,03724,03908,07126,07730,07741,08633,14356
              M.I. 092GNW025-COPPER BAY
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**** Bacon ****

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MINING DIV:    ***                ASSESSMENT REPORT 15577    INFO CLASS 4
LOCATION:     LAT.  49 44 00  LONG.  123 55 00     NTS:
CLAIMS:        Wally III,Bacon III
OPERATOR:      Chalice Min.
AUTHOR:        Allen, D.; Brownlee, D.
DESCRIPTION:      The claims are underlain by diorite and granodiorite of the
              Upper Cretaceous Coast Plutonic Complex which contains roof pendants
              of volcanic and volcaniclastic rocks.  Andesite, diorite and
              quartz feldspar porphyry dykes are locally abundant.  Copper,
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              molybdenum and gold mineralization occurs in a quartz vein up to 1.4
              metres wide on the Wally III claim.
WORK DONE:      MAGG   5.3 km
                SOIL   76;multielement
                GEOL   1:100
                ROCK   1;multielement
                SILT   3;multielement
                LINE   5.5 km
REFERENCES:   A.R. 11333
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**** Peninsula Lime,MC ****

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MINING DIV:    Vancouver          ASSESSMENT REPORT 15593    INFO CLASS 3
LOCATION:     LAT.  49 36 06  LONG.  123 53 12     NTS:
CLAIMS:        Plain
OPERATOR:      Candol Dev.
AUTHOR:        Ditson, C.
COMMODITIES:   Limestone,Dolomite,Copper,Silver,Iron
DESCRIPTION:      Jervis Group calcitic and dolomitic marbles of undetermined age
              are present as elongate roof pendants overlying Upper Cretaceous Coast
              Range diorite and quartz diorite.  Dolomite forms elongate pods
              within calcitic marble that can exceed 500 metres in length.  Marbles
              strike northerly and nearly vertically eastward.
WORK DONE:      DIAD   583.1 m;6 holes,NQ
                SAMP   86;Mg,Ca
                PETR   14 thin sections
                ROAD   0.8 km
REFERENCES:   A.R. 04803
              M.I. 092GNW031-PENINSULA LIME;092GNW035-MC
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**** Rim,Euphrates ****

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MINING DIV:    ***                ASSESSMENT REPORT 15407    INFO CLASS 4
LOCATION:     LAT.  49 59 54  LONG.  123 31 36     NTS:
CLAIMS:        Pot,Rim,Win 2-3,Slate
OPERATOR:      Husar, A.
AUTHOR:        Mazacek, P.
DESCRIPTION:      Drilling intersected greenish-grey, coarse-grained quartz
              diorite and black slate.  Although sulphides are abundant, silver,
              gold and platinum content is low.
WORK DONE:      DIAD   107.4 m;3 holes,IEW
REFERENCES:
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**** Bimbo ****

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MINING DIV:    Vancouver          ASSESSMENT REPORT 16627    INFO CLASS 4
LOCATION:     LAT.  49 56 49  LONG.  123 27 20     NTS:
CLAIMS:        Bimbo
OPERATOR:      Tenquille Res.
AUTHOR:        Robins, J.
DESCRIPTION:      Cretaceous mafic metavolcanics of the Gambier Group are intruded
              by Upper Cretaceous felsic Coast Range Intrusions.
WORK DONE:      SOIL   82;Ag,As,Cu,Pb,Sb,Zn,Au
REFERENCES:
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**** Elephant ****

MINING DIV: *** ASSESSMENT REPORT 16430 INFO CLASS 4
LOCATION: LAT. 49 58 42 LONG. 123 28 48 NTS:
CLAIMS: Elephant
OPERATOR: Mazacek, P.
AUTHOR: Mazacek, P.
DESCRIPTION: The claim is underlain by hornblende diorite.
WORK DONE: PROS 1:10 000
ROCK 6;multielement
SILT 2;multielement
SOIL 2;multielement
REFERENCES:

**** Gee-Whiz ****

MINING DIV: Vancouver ASSESSMENT REPORT 16486 INFO CLASS 4
LOCATION: LAT. 49 56 24 LONG. 123 27 20 NTS:
CLAIMS: Gee-Whiz
OPERATOR: Tenquille Res.
AUTHOR: Robins, J.
DESCRIPTION: Cretaceous mafic metavolcanics of the Gambier Group are intruded by Upper Cretaceous felsic plutons of the Coast Range Intrusions.
WORK DONE: SOIL 80;Ag,As,Cu,Pb,Sb,Zn,Au
REFERENCES:

**** Phantom ****

MINING DIV: *** ASSESSMENT REPORT 16131 INFO CLASS 3
LOCATION: LAT. 49 52 00 LONG. 123 29 30 NTS:
CLAIMS: Phantom 2
OPERATOR: Clowhom Min. & Ex.
AUTHOR: O'Neill, D.
DESCRIPTION: Metamorphosed chloritic portions of andesite contain garnet. Mineralization in quartz-filled fractures consists of pyrite, chalcopyrite, pyrrhotite and arsenopyrite.
WORK DONE: SAMP 4;multielement
DIAD 264.2 m;2 holes,NQ
REFERENCES: A.R. 11171

**** Tusk ****

MINING DIV: Vancouver ASSESSMENT REPORT 16313 INFO CLASS 4
LOCATION: LAT. 49 57 54 LONG. 123 29 24 NTS:
CLAIMS: Tusk
OPERATOR: Babkirk, W.
AUTHOR: Babkirk, W.
DESCRIPTION: The claims are underlain by rhyolite and quartz diorite.
WORK DONE: DIAD 52.4 m;1 hole,AQ
REFERENCES:

**** Lamb,Locke ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15982 INFO CLASS 3
LOCATION: LAT. 49 14 42 LONG. 120 07 48 NTS:
CLAIMS: Gold Key,Lamb 2,Locke 1-3
OPERATOR: Adrian Res.
AUTHOR: Falconer, J.; Pawliuk, D.
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group metasediments and metavolcanics which are intruded by Jurassic sills and a Late Jurassic or Early Cretaceous granite. Bedding generally trends northerly. Local, patchy epidote alteration and small amounts of disseminated pyrite, pyrrhotite, and/or chalcopyrite occur on the property.
WORK DONE: ROCK 30;multielement
GEOL 1:5000
EMGR 100.3 km;VLF
MAGG 94.5 km
LINE 113.1 km
SOIL 541;multielement
REFERENCES: A.R. 12531

**** Ox ****

MINING DIV: Similkameen ASSESSMENT REPORT 15692 INFO CLASS 3
LOCATION: LAT. 49 15 48 LONG. 120 32 42 NTS:
CLAIMS: Orb 2,Orb 4
OPERATOR: Emerald Star Min. Ex.
AUTHOR: Thompson, W.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group pyritic, graphitic and carbonate-rich andesitic tuffs.
WORK DONE: SAMP 2;Au,Ag
DIAD 152.4 m;3 holes,NQ
REFERENCES: A.R. 0124601822,10068,10663
M.I. 092HSE109-OX

**** Red Star,Spenho,Knob Hill ****

MINING DIV: *** ASSESSMENT REPORT 16465 INFO CLASS 3
LOCATION: LAT. 49 09 21 LONG. 120 36 43 NTS:
CLAIMS: Wine,Redstar,Wine,Anaconda,Sailor Jack,Hinge 1-8
OPERATOR: Bukara Res.
AUTHOR: Di Spirito, F.; Grond, H.

DESCRIPTION: CONFIDENTIAL STATUS

(Will be published in Exploration in British Columbia, 1988

**** Mountain Goat ****

MINING DIV: New Westminster ASSESSMENT REPORT 16183 INFO CLASS 4
LOCATION: LAT. 49 04 00 LONG. 121 36 42 NTS:
CLAIMS: Chuck 1-2
OPERATOR: Pierce Mtn. Res.
AUTHOR: George, J.
COMMODITIES: Gold,Copper
DESCRIPTION: Located along the border of the Chilliwack Batholith, granodiorite intrudes metasediments, gabbro and serpentinite. Gold is associated with chalcopyrite, pyrrhotite and arsenopyrite in quartz veins which are structurally controlled by high angle thrust faults.
WORK DONE: GEOL 1:10 000
SILT 14;Cu,As,Au
ROCK 22;multielement
REFERENCES: M.I. 092HSW063-MOUNTAIN GOAT (PIERCE MOUNTAIN)

**** Astros ****

MINING DIV: *** ASSESSMENT REPORT 16649 INFO CLASS 4
LOCATION: LAT. 49 31 01 LONG. 121 29 23 NTS:
CLAIMS: Angels,Astros,Mets,Red Sox
OPERATOR: Lacana Min.
AUTHOR: Leishman, D.
DESCRIPTION: Upper Paleozoic ultramafic rocks (hornblendites) with associated sulphide mineralization carry low values in gold, platinum and palladium.
WORK DONE: GEOL 1:10 000
HMIN 37;multielement
REFERENCES:

**** Choate,Pride of Emory,Star of Emory 3 ****

MINING DIV: New Westminster ASSESSMENT REPORT 16553 INFO CLASS 3
LOCATION: LAT. 49 28 06 LONG. 121 31 24 NTS:
CLAIMS: Apex,Blue Bird,Climax,Dolly,Ida,Leonardo,Nickel Core Fr.,Piomeer Polly,Pride of Emory 1-2,Progress,Red Rose,Ruby,TD 10,TD 8
OPERATOR: Mascot Gold Mines
AUTHOR: Tindall, M.
COMMODITIES: Nickel,Copper,Chromium,Platinum,Cobalt,Gold,Silver,Palladium
DESCRIPTION: Massive and disseminated nickel and copper sulphides occur in an ultramafic complex.
WORK DONE: HMIN 6;multielement
SAMP 62;Pt,Pd,Au
RECL 1 ha

ROCK 63;multielement
REFERENCES: A.R. 05285
M.I. 092HSW004-PRIDE OF EMORY;092HSW093-STAR OF EMORY 3;
092HSW125-CHOATE

**** PT ****

MINING DIV: *** ASSESSMENT REPORT 16295 INFO CLASS 4
LOCATION: LAT. 49 30 54 LONG. 121 41 18 NTS:
CLAIMS: PT 29-31
OPERATOR: Adola Min.
AUTHOR: Sadlier-Brown, T.
DESCRIPTION: The area is underlain by mafic volcanic and metasedimentary rocks of the Permian-Pennsylvanian Chilliwack Group which are locally intruded by a system of elongate ultramafic bodies of probable Cretaceous age and by younger (Upper Cretaceous) granodiorites.
WORK DONE: HMIN 8;multielement
REFERENCES:

**** PT ****

MINING DIV: New Westminster ASSESSMENT REPORT 16294 INFO CLASS 4
LOCATION: LAT. 49 28 30 LONG. 121 35 48 NTS:
CLAIMS: PT 1-2
OPERATOR: Adola Min.
AUTHOR: Sadlier-Brown, T.
DESCRIPTION: The area is underlain by mafic volcanic and metasedimentary rocks of the Permian-Pennsylvanian Chilliwack Group which are locally intruded by a system of elongate ultramafic bodies of probable Cretaceous age and by younger (Upper Cretaceous) granodiorites.
WORK DONE: HMIN 14;multielement
REFERENCES:

**** RN,GEO ****

MINING DIV: *** ASSESSMENT REPORT 15904 INFO CLASS 2
LOCATION: LAT. 49 20 06 LONG. 121 44 30 NTS:
CLAIMS: FF,Hot 1-2,Hot 4-8,MB 1,RN
OPERATOR: Kerr Addison Mines
AUTHOR: Bruland, T.; Clendenan, A.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Lower Pennsylvanian-Lower Permian pelites in the north and south and Middle Jurassic Mysterious Creek Formation argillites. The Mysterious Creek Formation argillites have been intruded by Miocene quartz diorite stocks related to the Hicks Lake Batholith to the east. Six of the stocks have been drilled and were found to contain quartz veins and quartz vein stockworks, some of which carry gold.
WORK DONE: LINE 42.7 km
DIAD 2361.8 m;24 holes,NDB
HMIN 29;Au,Pt,Pd
SAMP 2534;Au
SOIL 1781;Au
GEOL 1:5000,1:1000
REFERENCES: A.R. 14710

M.I. 092HSW092-GED;092HSW092-RN

**** Cloud ****

MINING DIV: New Westminster ASSESSMENT REPORT 15889 INFO CLASS 4
LOCATION: LAT. 49 23 30 LONG. 121 52 30 NTS:
CLAIMS: Cloud 3
OPERATOR: Ruanco Ent.
AUTHOR: Richards, G.
DESCRIPTION: Jurassic Harrison Lake Formation rocks contains a massive sulphide environment with highly anomalous values in copper, lead, zinc, silver and gold in soils.
WORK DONE: SOIL 56;Cu,Pb,Zn,Ag,Au
ROCK 2;Cu,Pb,Zn,Ag,Au
GEOL 1:5000
REFERENCES:

**** Jogo ****

MINING DIV: *** ASSESSMENT REPORT 15689 INFO CLASS 4
LOCATION: LAT. 49 19 36 LONG. 121 49 48 NTS:
CLAIMS: Jogo 1
OPERATOR: Owen Res.
AUTHOR: Nicholson, J.
DESCRIPTION: The claim is underlain by Upper Jurassic Harrison Lake Formation metasediments.
WORK DONE: LINE 7.0 km
EMGR 7.0 km;HLEM
REFERENCES: A.R. 14173

**** Keiko ****

MINING DIV: New Westminster ASSESSMENT REPORT 15579 INFO CLASS 3
LOCATION: LAT. 49 21 00 LONG. 121 50 30 NTS:
CLAIMS: Keiko 3,Keiko 6
OPERATOR: Trafalgar Res.
AUTHOR: Westerman, C.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper
DESCRIPTION: Upper Jurassic volcanic rocks of the Harrison Lake Formation host three quartz veins of probable Tertiary age. The veins contain anomalous gold values with silver values ranging to 614 grams per tonne.
WORK DONE: GEOL 1:5000
SOIL 498;multielement
LINE 17.5 km
ROCK 67;multielement
REFERENCES: A.R. 08573,13031,15094
M.I. 092HSW140-KEIKO

**** Kuro ****

MINING DIV: *** ASSESSMENT REPORT 15462 INFO CLASS 4
LOCATION: LAT. 49 21 36 LONG. 121 51 00 NTS:
CLAIMS: Kuro 2,Kuro 4
OPERATOR: Trifco Min.

AUTHOR: Trifaux, R.
DESCRIPTION: The claims are underlain by Jurassic-Cretaceous argillite, slate, arkose, greywacke and tuff with minor conglomerate, limestone and chlorite schists.
WORK DONE: PROS 1:5000
ROCK 9;Ag,As,Cu,Mo,Pb,Au
SOIL 15;Ag,As,Cu,Mo,Pb,Au
REFERENCES:

**** Kuro,Pete ****

MINING DIV: New Westminster ASSESSMENT REPORT 16434 INFO CLASS 4
LOCATION: LAT. 49 21 12 LONG. 121 51 36 NTS:
CLAIMS: Kuro 1-5,Pete 1-2
OPERATOR: Trifco Min.
AUTHOR: Trifaux, R.
DESCRIPTION: The claims are underlain by Jurassic and/or Cretaceous argillite, slate, diorite and basalt tuff with minor agglomerate, limestone and chlorite schist.
WORK DONE: ROCK 16;Au,Ag,As
PROS 1:12 500
REFERENCES:

**** SF ****

MINING DIV: *** ASSESSMENT REPORT 16338 INFO CLASS 3
LOCATION: LAT. 49 25 12 LONG. 121 52 06 NTS:
CLAIMS: Bigfoot 4-5,Emma 1,Little Bigfoot 1-4,Woolybooger
OPERATOR: Stacia Ventures
AUTHOR: Hulme, N.; St. Pierre, M.
COMMODITIES: Copper,Zinc
DESCRIPTION: Rhyolitic to dacitic flows and pyroclastic rocks of the Upper Jurassic Harrison Lake Formation trends northwesterly with moderate southerly dips. Intense alteration, silicic and sulphatic, has occurred over large areas. Several major northwesterly trending faults cross the property. High zinc and copper values are present in soils.
WORK DONE: ROCK 36;multielement
LINE 36.9 km
MAGG 34.2 km
EMGR 33.8 km;HLEM
GEOL 1:5000
SOIL 453;multielement
REFERENCES: A.R. 02545,02721,03236,04858,05340,05610,05738,05779,05868,05894, 06201
M.I. 092HSW087-SF

**** Vent,Seneca ****

MINING DIV: New Westminster ASSESSMENT REPORT 15459 INFO CLASS 1
LOCATION: LAT. 49 19 48 LONG. 121 57 48 NTS:
CLAIMS: Dorothy 1-10,Dorothy 12-14,I Am 50
OPERATOR: BP Res.
AUTHOR: Pegg, R.
COMMODITIES: Copper,Zinc,Silver,Gold,Lead,Barium

DESCRIPTION: The claims are underlain by the Upper Jurassic Harrison Lake Formation which is dominated by pyroclastic rocks and flows of intermediate to felsic composition. The 'Kuroko-type' Seneca massive sulphide deposit lies 1.75 kilometres southwest of the Vent showings which consist of pyrite-chalcopyrite-sphalerite-galena fracture and matrix fillings and fragment rimming epithermal mineralization hosted by a feldspar porphyry breccia. Block faulting is common and extensive zones of silicification and pyritization are found locally.
WORK DONE: ROAD 0.3 km
RECL
LINE 11.0 km
TOPO 1:5000
ROCK 372;multielement
GEOL 1:5000
DIAD 2671.9 m;28 holes,NQ
IPOL 13.3 km
SAMP 164;Cu,Pb,Zn,Ag,Au
REFERENCES: A.R. 02833,02998,04470,04977,05001,05233,05476,05627,06058,06135 06328,06638,06904,07015,07053,07746,08385,14668
M.I. 092HSW013-SENECA;092HSW069-VENT;092HSW083;092HSW139

****** JP ******

MINING DIV: *** ASSESSMENT REPORT 16612 INFO CLASS 4
LOCATION: LAT. 49 24 14 LONG. 121 11 50 NTS:
CLAIMS: JP,JP I-III
OPERATOR: Penner, J.
AUTHOR: Stevenson, J.
DESCRIPTION: Lower and Middle Jurassic Ladner Group rocks underlie the central and eastern half of the claims. Ultramafics underlie the western half. Sulphides (pyrite) were found in narrow shears hosted in serpentinized pyroxenite.
REFERENCES:

****** KCM,Punch Bowl ******

MINING DIV: New Westminster ASSESSMENT REPORT 16279 INFO CLASS 3
LOCATION: LAT. 49 16 54 LONG. 121 00 12 NTS:
CLAIMS: K.C.M. West,Punch East,Punch West
OPERATOR: Goldsmith, L.
AUTHOR: Kallock, P.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper,Argillite
DESCRIPTION: The claims are underlain by well indurated sandstone and fine pebble congolmerate of the Upper Jurassic(?) Dewdney Creek Group. Younger diorite and granodiorite dykes and plugs intrude these sediments and have localized sulphide bearing quartz veins in west and northwest trending fault structures. Values up to 7200 ppm lead, >100 ppm silver and 215 ppb gold have been returned from rock samples.
WORK DONE: SOIL 286;Au,As
ROCK 12;Cu,Pb,Zn,Ag,As,Au
GEOL 1:2500,1:1000
REFERENCES: M.I. 092HSW142-KCM;092HSE083-PUNCH BOWL

****** Master Ace,New Jay ******

MINING DIV: *** ASSESSMENT REPORT 16342 INFO CLASS 3
LOCATION: LAT. 49 16 48 LONG. 121 07 48 NTS:
CLAIMS: Master Ace I-II
OPERATOR: Newjay Res.
AUTHOR: Cardinal, D.
COMMODITIES: Gold,Silver,Copper,Argillite,Bismuth,Nickel
DESCRIPTION: An indeterminate aged ultramafic-serpentinite belt is hosted in the Paleozoic Hozameen Group which predominantly consists of cherts and cherty argillites. A major shear structure occurring at the contact of chert and ultramafic hosts quartz veins associated with talcose schist which carries gold and silver values.
WORK DONE: ROCK 38;Au,Ag,Cu,As,Pt
LINE 10.0 km
SOIL 213;multielement
EMGR 10.0 km;VLF
GEOL 1:4000
REFERENCES: A.R. 15086
M.I. 092HSW043-MASTER ACE;092HSW143-NEWJAY

****** Aufeas ******

MINING DIV: New Westminster ASSESSMENT REPORT 15872 INFO CLASS 3
LOCATION: LAT. 49 20 36 LONG. 121 29 06 NTS:
CLAIMS: Mac 4,Mac 6
OPERATOR: Silver Cloud Mines
AUTHOR: Allen, D.
COMMODITIES: Gold,Silver,Copper,Arsenic
DESCRIPTION: Gold, along with arsenopyrite, chalcopyrite and pyrite occurs in quartz veins in shear zones cutting quartz diorite of the Upper Cretaceous Spuzzum Batholith.
Drilling intersected quartz veins where gold assays range from 5.1 to 22.6 grams per tonne over a width of 1.0 metres or more.
WORK DONE: SOIL 90;Au,Ag,As
SILT 5;Au,Ag,As
DIAD 638.9 m;8 holes,AQ
SAMP 140;Au
UNDD 274.8 m;4 holes;BQ
ROCK 27;Au,Ag,As
REFERENCES: A.R. 11656
M.I. 092HSW036-AUFEAS

****** Randeb ******

MINING DIV: *** ASSESSMENT REPORT 16326 INFO CLASS 3
LOCATION: LAT. 49 28 00 LONG. 121 23 00 NTS:
CLAIMS: Randeb I-V
OPERATOR: Rojoll Ex.
AUTHOR: Englund, R.; Hunter, A.
DESCRIPTION: Gneiss of the Paleozoic Custer Gneiss, Late Cretaceous-Early Tertiary quartz diorite plugs and metasediments and metavolcanics of the Lower Paleozoic Hozameen Group form the geology. The strike

varies from 150-180 degrees and the dip varies from 20-60 degrees east. Mineralization consists of conformable nickel-copper rich metavolcanics in the paragneiss and was probably emplaced in the Tertiary.

WORK DONE: GEOL 1:5000,1:1000
ROCK 22;Ag,Au,Cu,Zi,Ni,Co
SILT 66;Ag,Au,Cu,Zi,Ni,Co
HMIN 3;Au,Pt
MAGG 17.1 km
ROAD 16.0 km
LINE 17.9 km
SOIL 449;multielement

REFERENCES: A.R. 10997,14562,14857

**** Tax,Toy ****

MINING DIV: New Westminster ASSESSMENT REPORT 16245 INFO CLASS 4
LOCATION: LAT. 49 28 54 LONG. 121 15 24 NTS:
CLAIMS: G.W.H. 2,Toy 7
OPERATOR: Border Res.
AUTHOR: Hall, P.
COMMODITIES: Nickel,Cobalt,Gold,Copper
DESCRIPTION: The Coquihalla serpentinite belt outcrops along ravines and in cliff faces. A dunite cap usually overlies the serpentinite with nickel mineralization widely dispersed throughout it in a microscopic needle format. Quartz sulphide veins occur in places along the contacts.

WORK DONE: SOIL 5;Au
ROCK 4;Au

REFERENCES: A.R. 05486,09506,10420,12228
M.I. O92HSW135-TAX;O92HSW136-TOY

**** Lam,Wilmac 12 ****

MINING DIV: Similkameen ASSESSMENT REPORT 15537 INFO CLASS 3
LOCATION: LAT. 49 22 54 LONG. 120 40 36 NTS:
CLAIMS: Anika,Anika 2,Anika 3
OPERATOR: Blackberry Gold Res.
AUTHOR: Borovic, I.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by rocks of the Upper Triassic Nicola Group, Upper Cretaceous Otter Intrusions and Triassic-Jurassic Tulameen Ultramafic Complex.

WORK DONE: MAGG 10.0 km
EMGR 10.0 km;VLF
RADG 10.0 km

REFERENCES: A.R. 01852
M.I. O92HSE042-WILMAC 12;O92HSE135-LAM

**** St. Louis Fr.,Marquis of Lorne,Motherlode,Joh

MINING DIV: *** ASSESSMENT REPORT 15854 INFO CLASS 2
LOCATION: LAT. 49 17 06 LONG. 120 31 06 NTS:
CLAIMS: Alder 1,Burr Oak 1,Dogwood 1,Edna,Enterprise,Live Oak 1,Pen Mar Poplar 1,Seattle,Skagit No. 3 Fr.,Snoqualmie,Spruce No. 1,Summit Fr.

Tacoma,Willow 1
OPERATOR: Targa Res.
AUTHOR: Di Spirito, F.; McCrossan, E.
COMMODITIES: Copper
DESCRIPTION: The property covers the southern contact area of the Copper Mountain syenite-diorite stock and Upper Triassic Nicola Group intermediate volcanics and minor sediments. Mineralization consists of chalcopyrite in northwesterly trending shears.

WORK DONE: SOIL 871;multielement
LINE 84.5 km
EMGR 80.0 km;VLF
ROCK 68;multielement
GEOL 1:5000
MAGG 80.0 km

REFERENCES: A.R. 01840,02846,02847,05480,05768,11617
M.I. O92HSE029-MARQUIS OF LORNE;O92HSE030-MOTHERLODE;O92HSE031-JOHNSTON;O92HSE044-ST.LOUIS FR.;O92HSE045-SNAKE NO 1 FR.;O92HSE092-SKAGIT 3 FR.;O92HSE114-RECO;O92HSE121-ENTERPRISE

**** Stevenson Creek ****

MINING DIV: Similkameen ASSESSMENT REPORT 16128 INFO CLASS 3
LOCATION: LAT. 49 24 18 LONG. 120 34 48 NTS:
CLAIMS: P.L. 18977-19000
OPERATOR: Key Diversified Min.
AUTHOR: Allen, A.
DESCRIPTION: The placer lease area is underlain by Upper Triassic Nicola Group argillite and andesite schist with Miocene shale, sandstone and coal seams. To the northwest at higher elevations, massive peridotite, pyroxenite and gabbro occur.

WORK DONE: MAGG 66.0 km

REFERENCES:

**** Asp ****

MINING DIV: *** ASSESSMENT REPORT 16661 INFO CLASS 3
LOCATION: LAT. 49 29 35 LONG. 120 51 18 NTS:
CLAIMS: Lode 1-4
OPERATOR: Stewart, D.
AUTHOR: Allen, D.
COMMODITIES: Copper
DESCRIPTION: The property is underlain in part by the Tulameen Ultramafic Complex.

WORK DONE: MAGG 5.6 km
SOIL 229;multielement
LINE 14.0 km

REFERENCES: A.R. 02526
M.I. O92HSE095-ASP

**** Lodestone Mountain ****

MINING DIV: Similkameen ASSESSMENT REPORT 15458 INFO CLASS 3
LOCATION: LAT. 49 27 48 LONG. 120 50 06 NTS:
CLAIMS: JA 1 Fr.,Lodestone 1-3
OPERATOR: Imperial Metals

AUTHOR: Wright, R.
COMMODITIES: Iron
DESCRIPTION: The claims are underlain by a Late Triassic ultramafic-gabbro complex, consisting of dunite, peridotite, pyroxenite and gabbro which intrudes metasediments and metavolcanics of the Upper Triassic Nicola Group and are unconformably overlain by Tertiary Princeton Group rocks.
WORK DONE: GEOL 1:20 000,1:10 000
ROCK 37;multielement
HMIN 11;Au,Pt,Pd
REFERENCES: A.R. 12423
M.I. 092HSE034-LODESTONE MOUNTAIN

**** Lodestone Mountain ****

MINING DIV: *** ASSESSMENT REPORT 16579 INFO CLASS 2
LOCATION: LAT. 49 28 00 LONG. 120 49 00 NTS:
CLAIMS: JA 1 Fr.,Lodestone 1-3
OPERATOR: Dolmage Campbell
AUTHOR: Chamberlain, J.
COMMODITIES: Iron,Vanadium,Titanium
DESCRIPTION: Ultramafic rocks contain gold and platinum values. Platinum is associated with chromite concentrations. A large platinum-gold soil anomaly occurs in an overburden portion of the claims.
WORK DONE: LINE 63.2 km
SOIL 1221;Au,Pt,Pd,Rh
REFERENCES: A.R. 12423,15458
M.I. 092HSE034-LODESTONE MOUNTAIN

**** RC,ASP ****

MINING DIV: Similkameen ASSESSMENT REPORT 15434 INFO CLASS 4
LOCATION: LAT. 49 38 24 LONG. 120 51 12 NTS:
CLAIMS: Lode I-II,Lode IV
OPERATOR: A & M Ex.
AUTHOR: Allen, D.
COMMODITIES: Copper,Iron
DESCRIPTION: The claims are underlain in part by the Tulameen ultramafic gabbroic complex and Upper Triassic Nicola Group metavolcanics and metasediments. Soil geochemistry identified anomalous multielement values.
WORK DONE: MAGG 1.5 km
SILT 2;multielement
EMGR 1.5 km;VLF
ROCK 3;multielement
SOIL 77;multielement
REFERENCES: A.R. 01566,02526,11888
M.I. 092HSE095-ASP;092HSE141-RC

**** Agau ****

MINING DIV: *** ASSESSMENT REPORT 16275 INFO CLASS 4
LOCATION: LAT. 49 18 48 LONG. 120 08 30 NTS:
CLAIMS: Agau 1-6
OPERATOR: Fox Res.

AUTHOR: Freeze, J.; White, G.E.
DESCRIPTION: Upper Triassic Nicola Group volcanics and sediments are divided by Jurassic gabbro and Upper Cretaceous Coast Intrusions.
WORK DONE: GEOL 1:2500
EMGR 7.9 km;HLEM
REFERENCES: A.R. 11688,15441

**** Agau,Blitz ****

MINING DIV: Similkameen ASSESSMENT REPORT 15441 INFO CLASS 2
LOCATION: LAT. 49 18 30 LONG. 120 08 36 NTS:
CLAIMS: Agau 1-8,Bamar 1-4,Blitz 1-4,Sam 1-4
OPERATOR: Fox Res.
AUTHOR: Freeze, J.
DESCRIPTION: Sedimentary and volcanic rocks of the Upper Triassic Nicola Group are intruded by gabbro and granodiorite. Soil geochemistry identified anomalous multielement values.
WORK DONE: SOIL 1119;multielement
GEOL 1:2500
REFERENCES: A.R. 11688

**** Boss ****

MINING DIV: *** ASSESSMENT REPORT 15971 INFO CLASS 3
LOCATION: LAT. 49 18 18 LONG. 120 13 12 NTS:
CLAIMS: Boss 2
OPERATOR: Newfields Min.
AUTHOR: Tupper, D.
DESCRIPTION: The claim area is entirely obscured by Quaternary glacial outwash deposits. It is believed to be largely underlain by Upper Triassic Nicola Group volcanic and sedimentary rocks to the west, and Jurassic granitic intrusives to the east. No mineralization has been detected to date.
WORK DONE: BIOG 126;multielement
REFERENCES: A.R. 11038

**** Brown,Camsell ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15978 INFO CLASS 3
LOCATION: LAT. 49 18 42 LONG. 120 05 18 NTS:
CLAIMS: Brown 1-4,Jesse 1,Rice 1-4,Camsell 1,Camsell 3-4
OPERATOR: Seadrift Int. Ex.
AUTHOR: Timmins, W.
DESCRIPTION: The claims are mainly underlain by Upper Triassic Nicola Group rocks and lesser Upper Cretaceous Coast Intrusives and Triassic Independence, Shoemaker and Old Tom Formation rocks. Plugs and dykes of gabbro occur in the Nicola Group, bands of metamorphosed limestone and calcareous argillites also occur.
WORK DONE: SILT 185;multielement
EMGR 69.1 km;VLF
MAGG 69.1 km
LINE 69.1 km
REFERENCES:

**** Crow ****

MINING DIV: Similkameen ASSESSMENT REPORT 15440 INFO CLASS 3
LOCATION: LAT. 49 22 54 LONG. 120 08 18 NTS:
CLAIMS: Crow 1-4
OPERATOR: Foxie Ventures
AUTHOR: Sanford, W.
DESCRIPTION: Upper Triassic Nicola Group volcanic and sedimentary rocks are intruded by Jurassic Pennask Batholitn granodiorite. Soil geochemistry identified moderately anomalous gold values.
WORK DONE: GEOL 1:2500
SOIL 152;multielement
LINE 21.3 km
REFERENCES: A.R. 11873

**** Hed,Goldmine,Gold Hill ****

MINING DIV: *** ASSESSMENT REPORT 16427 INFO CLASS 3
LOCATION: LAT. 49 21 48 LONG. 120 08 42 NTS:
CLAIMS: Gold Hill,Gold Mine
OPERATOR: Philex Gold & Energy
AUTHOR: Jones, H.
COMMODITIES: Gold,Zinc,Lead,Silver,Copper
DESCRIPTION: Interbedded argillite and tuff, with minor chert and limestone of the Upper Triassic Nicola Group are intruded by diorite and andesite dykes, sills, and small stocks. Within the sediments are one or more pyritic carbonate breccia zones and one large zone of "slump breccia" (Copperfield conglomerate). Minor disseminated pyrite and pyrrhotite occur throughout. The Carbonate breccia zones are heavily mineralized with pyrite and locally contain significant gold values.
WORK DONE: GEOL 1:2500
SOIL 123;multielement
REFERENCES: A.R. 06060,10882
M.I. O92HSE054-GOLD HILL;O92HSE138-HED, GOLDMINE

**** Hedley North,Winter's Gold,Stag Fr.,Sweden,Re

MINING DIV: Osoyoos ASSESSMENT REPORT 16400 INFO CLASS 3
LOCATION: LAT. 49 20 30 LONG. 120 02 00 NTS:
CLAIMS: Hedley North,Hedley South,Norfolk Fr.,Powell,Queenston Fr.,Redtop Stag Fr.,Star Fr.,Sweden Fr.,Tower Fr.,Victor Fr.,Winters Gold Winters Gold 2
OPERATOR: Avenue Res.
AUTHOR: Ikona, C.; Todoruk, S.
COMMODITIES: Gold,Silver,Copper,Lead,Zinc
DESCRIPTION: The claims are underlain by sedimentary and volcaniclastic rocks of the Upper Triassic Nicola Group which have been intruded by sills, dykes and plutons of mid-Jurassic to Tertiary age. Mineralization consists of massive sulphides containing gold in vein structures, and skarn in limestone boulder conglomerate containing lead, copper, zinc and minor amounts of precious metals.
WORK DONE: GEOL 1:5000,1:200

SOIL 356;Au,Me
ROCK 199;Au,Me
TOPO 1:5000
TREN 100.0 m;10 trenches
REFERENCES: M.I. O92HSE084-WINTER'S GOLD;O92HSE085-STAG FR;O92HSE086-SWEDEN; O92HSE087-RED TOP;O92HSE156-HEDLEY NORTH

**** Ice ****

MINING DIV: Similkameen ASSESSMENT REPORT 15974 INFO CLASS 4
LOCATION: LAT. 49 21 48 LONG. 120 13 00 NTS:
CLAIMS: Mills 2,Mills 4
OPERATOR: Seadrift Int. Ex.
AUTHOR: Timmins, W.
COMMODITIES: Copper,Zinc
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group volcanics and sediments with Upper Cretaceous Otter Intrusions occurring in the southwestern corner. The northwestern corner is underlain by Tertiary volcanics.
WORK DONE: SILT 81;multielement
REFERENCES: A.R. 03559
M.I. O92HSE108-ICE

**** JM ****

MINING DIV: Osoyoos ASSESSMENT REPORT 15869 INFO CLASS 3
LOCATION: LAT. 49 27 54 LONG. 120 08 36 NTS:
CLAIMS: Gold Breeze,Gold Cloud,Gold Haze,Golden Mist,Hannah
OPERATOR: Golden Dawn Ex.
AUTHOR: Sanford, M.
COMMODITIES: Molybdenum,Copper
DESCRIPTION: The claims are underlain by andesitic tuffs of the Upper Triassic Nicola Group which are intruded by Middle Jurassic Okanogan Batholith rocks. Geophysical and geochemical surveys identified anomalous results.
WORK DONE: SOIL 229;multielement
MAGG 29.5 km
ROAD 27.2 km
LINE 205.0 km
GEOL 1:5000
EMGR 29.5 km;VLF
IPOL 15.5 km
REFERENCES: A.R. 01225,01615,01617,04421
M.I. O92HSE113-JM

**** Jan,Mary ****

MINING DIV: Similkameen ASSESSMENT REPORT 15864 INFO CLASS 3
LOCATION: LAT. 49 23 12 LONG. 120 07 36 NTS:
CLAIMS: Franklin 1-2,Jan,Mary 1,Omega 1,Tuf 1-3
OPERATOR: Kirby Energy Ventures
AUTHOR: Sanford, M.
DESCRIPTION: The claim area is underlain by highly deformed Upper Triassic Nicola Group sedimentary and volcaniclastic rocks. Anomalous results were obtained from the geophysical and geochemical surveys.

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WORK DONE:      SOIL  462;multielement
                IPOL  10.5 km
                EMGR  10.5 km;VLF
                LINE  41.6 km
                MAGG  10.5 km
                ROCK  16;multielement
                GEOL  1:2500
REFERENCES:
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**** LM ****

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MINING DIV:     ***                ASSESSMENT REPORT 16147    INFO CLASS 3
LOCATION:      LAT.  49 15 36  LONG.  120 15 00     NTS:
CLAIMS:         LM
OPERATOR:       Hidden Valley Mines
AUTHOR:         Crooker, G.
DESCRIPTION:        The claim is underlain by Upper Triassic Nicola Group volcanic
               and/or sedimentary rocks.
WORK DONE:      EMGR  15.7 km;VLF
                LINE  16.7 km
REFERENCES:
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**** Maple Leaf ****

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MINING DIV:     Osoyoos            ASSESSMENT REPORT 15601    INFO CLASS 3
LOCATION:      LAT.  49 21 42  LONG.  120 07 18     NTS:
CLAIMS:         Pine Knot
OPERATOR:       Noranda Ex.
AUTHOR:         Sanford, M.
COMMODITIES:    Gold
DESCRIPTION:        The claims appear to be underlain by Upper Triassic Nicola Group
               sediments.  The drill hole tested the contact area where Lower
               Jurassic Hedley diorite intrudes Nicola Group sediments.  The contact
               zone contains several small quartz-sulphide veins carrying gold
               values.
WORK DONE:      SAMP  100;Au
                DIAD  360.9 m;1 hole,NQ
REFERENCES:    A.R. 08057,14813
               M.I. 092HSE046-MAPLE LEAF
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**** Mission,Flint ****

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MINING DIV:     ***                ASSESSMENT REPORT 15630    INFO CLASS 3
LOCATION:      LAT.  49 19 30  LONG.  120 06 30     NTS:
CLAIMS:         Alpha,Flint,Ion,Gamma
OPERATOR:       Agio Res.
AUTHOR:         Peto, P.
COMMODITIES:    Silver,Gold
DESCRIPTION:        A north-trending shear zone 3 to 5 metres wide cuts granodiorite
               of the Cahill Pluton, from which numerous narrow east-trending
               fractures carry arsenopyrite, pyrite and sphalerite and silver
               values.  The granodiorite shows extensive phyllic alteration.
               Mineralization occurs near the contact with the Hedley Formation
               rocks.
WORK DONE:      EMGR  32.0 km;VLF
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                SOIL  78;Au
                GEOL  1:2500
                LINE  34.2 km
REFERENCES:    A.R. 03904,09222
               M.I. 092HSE052-MISSION
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**** Nickel Plate ****

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MINING DIV:     Osoyoos            ASSESSMENT REPORT 15610    INFO CLASS 3
LOCATION:      LAT.  49 22 30  LONG.  120 02 00     NTS:
CLAIMS:         Wellington,Bulldog,Terrier
OPERATOR:       Mascot Gold Mines
AUTHOR:         Simpson, R.
COMMODITIES:    Gold,Silver,Copper
DESCRIPTION:        Near the top of Nickel Plate Mountain, interbedded siltstones
               and impure limestones of the Upper Triassic Nicola Group have been
               altered to sulphide bearing skarn.  Gold occurs as minute blebs
               associated with hedleyite (bismuth telluride) within and around
               grains of arsenopyrite and gersdorffite.  Electrum also occurs
               associated with later stage intergrowths of pyrrhotite, chalcopyrite
               and sphalerite.
WORK DONE:      PERD  727.0 m;8 holes
                SAMP  221;Au
REFERENCES:    A.R. 13577
               M.I. 092HSE038-NICKEL PLATE
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**** Patsy No. 2,Patsy No. 1 ****

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MINING DIV:     Similkameen        ASSESSMENT REPORT 16554    INFO CLASS 3
LOCATION:      LAT.  49 22 12  LONG.  120 09 30     NTS:
CLAIMS:         Ivanhoe,Patsy 1
OPERATOR:       Kirk, T.
AUTHOR:         Kregosky, R.
COMMODITIES:    Gold,Silver,Zinc
DESCRIPTION:        The property is underlain by Upper Triassic Nicola Group cherty
               argillites with minor limestone and quartzites.  These have been
               intruded by diorite.  Gold associated with arsenopyrite
               mineralization occurs in thin quartz veins and shear zones in the
               argillites.  General attitude is northeasterly with steep easterly
               dips.
WORK DONE:      GEOL  1:1000
                ROCK  5;Au
                SOIL  168;As
REFERENCES:    A.R. 11901,13197
               M.I. 092HSE047-PATSY NO. 1;092HSE048-PATSY NO. 2
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**** Tiggy,Erie ****

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MINING DIV:     Osoyoos            ASSESSMENT REPORT 16234    INFO CLASS 4
LOCATION:      LAT.  49 16 00  LONG.  120 05 30     NTS:
CLAIMS:         Tiggy 1-2
OPERATOR:       Banbury Gold Mines
AUTHOR:         Sanford, M.
DESCRIPTION:        The claims are underlain by mineralized, altered Upper
               Triassic Nicola Group sediments and volcaniclastics.  Pyrrhotite
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              and pyrite are the main sulphides.
WORK DONE:      LINE  18.4 km
                GEOL  1:2000
REFERENCES:
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**** Bud ****

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MINING DIV:     Similkameen       ASSESSMENT REPORT 16256     INFO CLASS 3
LOCATION:      LAT.  49 25 30  LONG.  120 26 48     NTS:
CLAIMS:         Bud 526
OPERATOR:       G & V Ex.
AUTHOR:         McLeod, J.
COMMODITIES:    Copper,Silver,Gold
DESCRIPTION:         Upper Triassic eugosynclinal volcanic and minor sedimentary
              rocks are intruded and enveloped by plutonic rocks of varying,
              younger ages.  The general area has undergone faulting.

                     Alteration comprises minor skarns, quartz-carbonate (ankerite?),
              epidote and secondary(?) magnetite, biotite and potassium-feldspar.
              Mineralization consists of pyrite, chalcopyrite, malachite, bornite,
              chalcocite and bismuthinite.
WORK DONE:      GEOL  1:2500
                DIAD  212.2 m;3 holes,AQ
                SAMP  39;multielement
REFERENCES:   M.I. 092HSE123-BUD
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**** Skarn 4 ****

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MINING DIV:     ***               ASSESSMENT REPORT 15907     INFO CLASS 3
LOCATION:      LAT.  49 15 30  LONG.  120 17 00     NTS:
CLAIMS:         Skarn 4
OPERATOR:       Hawk Res.
AUTHOR:         Mark, D.
DESCRIPTION:         The property is mostly underlain by sediments and volcanics of
              the Nicola Group (Upper Triassic).  Coast Intrusive granites (Middle
              Jurassic-Upper Cretaceous) occur along the western border.  The
              structure is unknown and there is no known mineralization.
WORK DONE:      EMGR  21.9 km;VLF
REFERENCES:   A.R. 14976
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**** Elk (Sleeper) ****

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MINING DIV:     Similkameen       ASSESSMENT REPORT 16135     INFO CLASS 4
LOCATION:      LAT.  49 33 42  LONG.  120 27 12     NTS:
CLAIMS:         Rats,Rats 1
OPERATOR:       Nyman, L.
AUTHOR:         St. Louis, R.
COMMODITIES:    Copper
DESCRIPTION:         The claims are underlain by volcanic rocks of the Upper
              Triassic Nicola Group and Upper Cretaceous Coast Intrusions composed
              mainly of granodiorite and monzonite, with minor granite.  To the
              southwest the Tertiary Princeton Group basalts and sedimentary rocks
              occur.
WORK DONE:      GEOL  1:10 000,1:2500
REFERENCES:   M.I. 092HNE176-ELK (SLEEPER)
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**** Lucky Strike (Bonacci, FH) ****

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MINING DIV:     ***               ASSESSMENT REPORT 16265     INFO CLASS 3
LOCATION:      LAT.  49 32 42  LONG.  120 26 00     NTS:
CLAIMS:         Lucky,Lucky 2
OPERATOR:       Mingold Res.
AUTHOR:         Taylor, K.
COMMODITIES:    Gold,Copper
DESCRIPTION:         Dacites and andesites of the Upper Triassic Nicola Group have
              been altered and intruded by Middle Jurassic Osprey Lake granodiorite.
              Porphyry-type copper mineralization has been developed with
              accompanying low values in gold.  Size and attitude of the mineralized
              zone are presently unknown.
WORK DONE:      SOIL  233;multielement
                ROCK  95;multielement
REFERENCES:   A.R. 00318,06292,07476,08600
              M.I. 092HNE024-LUCKY STRIKE (BONACCI;FH)
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**** Paco,June ****

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MINING DIV:     Similkameen       ASSESSMENT REPORT 15863     INFO CLASS 3
LOCATION:      LAT.  49 44 42  LONG.  120 20 00     NTS:
CLAIMS:         Hawk,June 1,June 2,Pat 1-4,Sir,Skye 1-3
OPERATOR:       Westron Venture
AUTHOR:         Livgard, E.
COMMODITIES:    Silver,Lead,Copper,Zinc,Gold
DESCRIPTION:         The claims are underlain by granite related to the Upper
              Cretaceous-Early Tertiary Otter Intrusions.  Widespread silver
              mineralization is associated with breccia zones and silicified
              fracture zones peripheral to a large porphyry mineralizing system,
              and associated with propylitic and argillic alteration.  Geophysical
              survey results identified several VLF-electromagnetic conductors.
WORK DONE:      TREN  199.0 m;12 trenches
                MAGG  44.2 km
                EMGR  44.2 km;VLF
                LINE  47.7 km
REFERENCES:   A.R. 01800,02005,02389,02798,03282,04347,04969,07547,07992,08926
              M.I. 092HNE098-PACO;092HNE178-JUNE
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**** Rum ****

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MINING DIV:     ***               ASSESSMENT REPORT 16206     INFO CLASS 3
LOCATION:      LAT.  49 44 12  LONG.  120 32 00     NTS:
CLAIMS:         Coke 1-8
OPERATOR:       Peto, P.
AUTHOR:         Yarrow, E.
COMMODITIES:    Copper,Gold
DESCRIPTION:         The claims are underlain by Upper Triassic microdiorite and
              Nicola Group volcanics and sediments.  Chalcopyrite-bornite occur in
              fractures and veinlets.
WORK DONE:      SOIL  325;Cu,Au
REFERENCES:   A.R. 517,530,985,3365,6036,8352,14304,15007
              M.I. 092HNE099-RUM
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**** Sadim 3-4 ****

MINING DIV: Similkameen ASSESSMENT REPORT 15969 INFO CLASS 3
LOCATION: LAT. 49 43 00 LONG. 120 32 30 NTS:
CLAIMS: Sadim 3-4
OPERATOR: Laramide Res.
AUTHOR: Watson, I.
COMMODITIES: Gold,Silver,Lead,Copper
DESCRIPTION: Upper Triassic Nicola Group alkaline and calc-alkaline basalts and derived monolithic and polylithic breccias, tuffs and minor sediments occur within northerly trending fault bounded belts. The volcano-sedimentary rocks are intruded and propylitized by comagnetic dioritic rocks. Fracture controlled copper mineralization occurs in alteration zones. Gold has been found locally in quartz-vein stockworks within fractured altered volcanics.
WORK DONE: SAMP 270;Au,Ag,Pb,Cu
TREN 775.0 m;14 trenches
DIAD 292.0 m;6 holes,NQ
ROCK 361;Au,Ag,Pb,Cu
GEOL 1:2500,1:200
REFERENCES: M.I. 092HNE095-SADIM 3-4

**** Bonanza ****

MINING DIV: *** ASSESSMENT REPORT 15803 INFO CLASS 4
LOCATION: LAT. 49 32 30 LONG. 120 54 00 NTS:
CLAIMS: Mur
OPERATOR: Newmont Ex.
AUTHOR: Bohme, D.
COMMODITIES: Copper
DESCRIPTION: The property is underlain by three principal lithologies: the Coast Intrusion Eagle granodiorite of Jurassic to Cretaceous age, the Nicola Group metasediments and metavolcanics of Triassic age, and the Tulameen Ultramafic Complex of Late Triassic age. Platinum is associated with chromite pods and lenses which show no systematic distribution within the dunite mass of the Tulameen Complex. Serpentinization is common.
WORK DONE: MAGG 9.2 km
REFERENCES: A.R. 02345,07944
M.I. 092HNE012-BONANZA

**** Bonanza,Grasshopper Mountain ****

MINING DIV: Similkameen ASSESSMENT REPORT 15516 INFO CLASS 3
LOCATION: LAT. 49 32 30 LONG. 120 53 48 NTS:
CLAIMS: Grasshopper 1-2
OPERATOR: Newmont Ex.
AUTHOR: Bohme, D.
COMMODITIES: Chromium,Platinum,Copper
DESCRIPTION: The claims are underlain by intrusive rocks of the Middle Jurassic Tulameen Ultramafic Complex with minor mixed metavolcanic rocks of the Upper Triassic Nicola Group. The dominant lithology is a dunite core surrounded by shells of pyroxenite and gabbro.

Platinum is associated with chromite pods and lenses which show no systematic distribution in the dunite mass. Serpentinization is common.
WORK DONE: ROCK 250;multielement
LINE 32.0 km
MAGG 25.0 km
SILT 4;multielement
GEOL 1:2000
REFERENCES: A.R. 02345,07944,10063,14448
M.I. 092HNE011-GRASSHOPPER MOUNTAIN:092HNE012-BONANZA

**** Brandy ****

MINING DIV: *** ASSESSMENT REPORT 16014 INFO CLASS 3
LOCATION: LAT. 49 34 48 LONG 120 51 30 NTS:
CLAIMS: Brandy,Essa,La 1-2
OPERATOR: Black Knight Res.
AUTHOR: Christenson, L.
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group greenstones and Otter Intrusions. Discontinuous lenses of argillite, representing sedimentary interbeds within the Nicola Group were also noted. A small body of hydrothermally altered ultramafic, probably part of the Tulameen Complex, was found in the southeast claim area.
WORK DONE: SOIL 207;multielement
SILT 21;multielement
EMGR 19.6 km;VLF
LINE 19.6 km
GEOL 1:10 000,1:2500
ROCK 30;multielement
MAGG 19.6 km
REFERENCES:

**** Chicago,St. George (Law's),St. Lawrence (Law'

MINING DIV: Similkameen ASSESSMENT REPORT 15419 INFO CLASS 4
LOCATION: LAT. 49 34 00 LONG. 120 53 54 NTS:
CLAIMS: Chicago,Grand Trunk,Michelle,Morning Sun,Murphy,Rambler,Shelley St. George,St. Helen,St. Lawrence,Stonie Creek
OPERATOR: Bordeaux Res.
AUTHOR: Englund, R.
COMMODITIES: Copper,Zinc,Gold,Silver
DESCRIPTION: The claims are underlain by northwest striking Upper Triassic Nicola Group metavolcanics and metasediments intruded by Jurassic Eagle granodiorite.
Mineralization consists of massive to disseminated pyrite, pyrrhotite, sphalerite with associated chalcopyrite, malachite and galena and occurs in the metasediments and metavolcanics. Soil geochemistry identified an irregular zone of anomalous gold-silver-copper-zinc values.
WORK DONE: ROCK 9;multielement
SILT 12;multielement
SOIL 52;multielement
GEOL 1:5000
REFERENCES: A.R. 02345,14717
M.I. 092HNE016-CHICAGO;092HNE064-ST.GEORGE;092HNE065-ST.LAWRENCE

**** Cousin Jack ****

MINING DIV: *** ASSESSMENT REPORT 15993 INFO CLASS 3
LOCATION: LAT. 49 36 36 LONG. 120 47 48 NTS:
CLAIMS: Boulder 1,Cousin Jack,Ymir
OPERATOR: Calais Res.
AUTHOR: MacFarlane, H.
COMMODITIES: Lead,Zinc,Gold,Silver
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group complexly bedded southwest dipping volcanics. The rocks have undergone low grade metamorphism. High gold and silver values associated with lead and silver values occur in siliceous andesite zones with minor carbonate.
WORK DONE: SAMP 116;Au,Ag,Pb,Zn,Cu
DIAD 662.3 m;12 holes,NQ
REFERENCES: A.R. 00944,03397,03398
M.I. 092HNE018-COUSIN JACK

**** Den ****

MINING DIV: Similkameen ASSESSMENT REPORT 16015 INFO CLASS 3
LOCATION: LAT. 49 35 18 LONG. 120 52 42 NTS:
CLAIMS: Den,Den 1
OPERATOR: Fortress Res.
AUTHOR: Christenson, L.
DESCRIPTION: The claims are underlain by Upper Triassic Nicola metavolcanics and minor interbedded sediments. Two units intrude the Nicola Group within the claim block: a pyroxenite of the Tulameen Ultramafic Complex and a felsic volcanic which likely relates to the Eagle granodiorite.
WORK DONE: GEOL 1:2500
EMGR 9.4 km;VLF
ROCK 26;multielement
LINE 9.4 km
SOIL 133;multielement
SILT 28;multielement
MAGG 9.4 km
REFERENCES:

**** Glory ****

MINING DIV: *** ASSESSMENT REPORT 16016 INFO CLASS 3
LOCATION: LAT. 49 33 00 LONG. 120 49 42 NTS:
CLAIMS: Glory,Love,Key
OPERATOR: Paradise Res.
AUTHOR: Christenson, L.
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group volcanics and sediments and red granites of the Early Tertiary Otter Intrusions. Surficial alteration is generally limited. Small quartz stringers and a hydrothermally altered area contain pyrite and chalcopyrite.
WORK DONE: LINE 17.0 km
GEOL 1:2500
SOIL 172;multielement

SILT 5;multielement
EMGR 17.0 km;VLF
MAGG 17.0 km
ROCK 23;multielement
REFERENCES:

**** H&H ****

MINING DIV: Similkameen ASSESSMENT REPORT 16323 INFO CLASS 3
LOCATION: LAT. 49 31 30 LONG. 120 52 30 NTS:
CLAIMS: Eastside 1709,Eastside 2700-2701,H & H 128,H & H 265
Westside 1747-1749
OPERATOR: North American Platinum
AUTHOR: Gravel, J.
DESCRIPTION: The H & H claim group overlies the northeastern margin of the Tulameen Ultramafic Complex - a zoned "Alaskan type" ultramafic body. A dunite core forms Olivine Mountain in the southwest corner of the claim group. Alternating bands of olivine and hornblende-clinopyroxenite and syenodiorite and gabbro trending northwest underlie most of the claim group. Nicola Group rocks are found in the northeast corner of the property.
WORK DONE: LSUR 15.0 km
ROCK 14;multielement
SOIL 434;multielement
REFERENCES:

**** Indy ****

MINING DIV: *** ASSESSMENT REPORT 16487 INFO CLASS 4
LOCATION: LAT. 49 38 00 LONG. 120 57 36 NTS:
CLAIMS: Indy
OPERATOR: Crooker, G.
AUTHOR:
DESCRIPTION: Eagle granodiorite of Upper Triassic-Lower Cretaceous age intrudes Upper Triassic Nicola Group volcanics. Copper, gold and molybdenum mineralization occur within a complex network of intrusives, breccias and quartz veins along the contact zone. Widespread sulphide mineralization is present.
WORK DONE: LINE 3.9 km
SOIL 67;multielement
REFERENCES:

**** J&L ****

MINING DIV: Similkameen ASSESSMENT REPORT 15976 INFO CLASS 4
LOCATION: LAT. 49 32 00 LONG. 120 54 24 NTS:
CLAIMS: J & L 1,J & L 2 Fr.,J & L 3 Fr.
OPERATOR: Imperial Metals
AUTHOR: Wright, R.
DESCRIPTION: The claims are underlain by the Triassic zoned Tulameen Ultramafic Complex which intrudes Upper Triassic Nicola Group volcanics and sediments. Principal rock types on the property are dunite/peridotite, pyroxenite and metavolcanics which include scattered chromite and asbestos occurrences.
WORK DONE: HMIN 1;multielement

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                ROCK  8:multielement
                GEOL  1:5000
REFERENCES:

**** Lawless ****

MINING DIV:     ***              ASSESSMENT REPORT 16505     INFO CLASS 4
LOCATION:      LAT.  49 37 06  LONG.  120 53 24    NTS:
CLAIMS:         Placer Lease 19162
OPERATOR:       Nightingale, A.
AUTHOR:         Lorimer, M.
DESCRIPTION:        The area is underlain by Triassic Tulameen Ultramafic Complex
               rocks and Jurassic intrusives.
WORK DONE:      MAGG  3.0 km
REFERENCES:

**** Mary Jenson ****

MINING DIV:     Similkameen      ASSESSMENT REPORT 16125     INFO CLASS 3
LOCATION:      LAT.  49 30 48  LONG.  120 52 00    NTS:
CLAIMS:         H&H,H&H 5
OPERATOR:       D.K. Platinum
AUTHOR:         Fox, P.; Goodall, G.
COMMODITIES:    Copper,Platinum
DESCRIPTION:        The property is situated on the dunite core of the Tulameen
               Ultramafic Complex of Late Triassic age.  The complex forms a
               steeply dipping, concentrically zoned sequence of ultramafic rock
               units ranging from dunite to pyroxenite and gabbro.  Platinum is
               found in the dunite core of the complex associated with chromite-rich
               segregations and serpentinized zones.
WORK DONE:      ROCK  22:multielement
                SOIL  170:multielement
                LINE  8.0 km
REFERENCES:    M.I. 092HNE008-MARY JENSON

**** Rabbitt ****

MINING DIV:     ***              ASSESSMENT REPORT 15850     INFO CLASS 2
LOCATION:      LAT.  49 33 12  LONG.  120 52 06    NTS:
CLAIMS:         Ace,Au Fr.,Bonanza Gold,Bonanza Queen-Nevada,Gail Gold,Gold Creek
                Gold Mount,Grasshopper 1-2,Weldonna
OPERATOR:       Twin Eagle Res.
AUTHOR:         Christenson, L.
COMMODITIES:    Gold,Silver,Copper,Lead,Zinc
DESCRIPTION:        Upper Triassic volcanics and sedimentary rocks of the Nicola
               Group underlie the claims.  The Late Triassic Tulameen Ultramafic
               Complex underlies the southwest claim area and the Lower Cretaceous
               Eagle granodiorites are found just west of the property.  The Nicola
               Group has been folded, intruded and faulted.  Numerous quartz veins
               carry precious and base metal values.
WORK DONE:      META   1 bulk sample
                LINE  28.5 km
                ROCK  108:multielement
                MAGG  28.5 km
                SAMP  204:multielement
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                GEOL  1:470,1:200
                ROAD  1.5 km
                DIAD  957.7 m;17 holes,BDGM
                EMGR  28.5 km;VLF
                TREN  140.0 m;5 trenches
                SOIL  595:multielement
REFERENCES:    A.R. 07944,10063
               M.I. 092HNE014-RABBITT

**** Sulphide ****

MINING DIV:     Similkameen      ASSESSMENT REPORT 16276     INFO CLASS 3
LOCATION:      LAT.  49 37 00  LONG.  120 50 30    NTS:
CLAIMS:         Sulphide
OPERATOR:       Sookochoff, L.
AUTHOR:         Sookochoff, L.
DESCRIPTION:        The claim is underlain by Upper Triassic Nicola Group vari-
               coloured basalt, argillite, tuff, limestone and chlorite-sericite
               schist.
WORK DONE:      SOIL  153;multielement
REFERENCES:

**** Tina,Cathy ****

MINING DIV:     ***              ASSESSMENT REPORT 16691     INFO CLASS 3
LOCATION:      LAT   49 31 06  LONG.  120 53 08    NTS:
CLAIMS:         Cameron,J 1-6,J 9 Fr.,Keathy,L 1-8,L 12-17,L 21-24 Fr.,L 25-26 Fr.
                L 27-30,L 8-11 Fr.,L 9-11
OPERATOR:       Chapman, R.
AUTHOR:         Fipke, C.
COMMODITIES:    Chromium,Platinum,Asbestos,Copper,Palladium,Gold
DESCRIPTION:        The area is underlain by a Mesozoic Alaska-type ultramafic
               intrusion in which peridotite-pyroxinite rocks are concentrically
               zoned about a dunite core.  Platinium mineralization has been
               identified in exsolution blebs in chromite and occurs as significant
               placer deposits situated within and downstream from the ultramafic
               complex.
WORK DONE:      SOIL  75;Pt,Pd,Au,Cr
                ROCK  78;Au,Pt,Pd,Cr
                HMIN  19;Au,Pt,Pd,Cr
REFERENCES:    A.R. 01945,02274,11666,12121
               M.I. 092HNE035-TINA;092HNE038-CATHY

**** White Gold,Red Gold ****

MINING DIV:     Similkameen      ASSESSMENT REPORT 15928     INFO CLASS 4
LOCATION:      LAT.  49 30 30  LONG.  120 56 31    NTS:
CLAIMS:         Blue Gold,Golden Bell 1-4,Golden Dew,Red Gold,White Gold
OPERATOR:       Blast Res.
AUTHOR:         Champigny, N.; Gravel, J.
DESCRIPTION:        The claims cover the contact zone between Eagle granodiorite to
               the west and Nicola metasedimentary rocks to the east.  Rock samples
               taken from outcrops of hornblende pyroxenite, peridotite, pyritic
               volcanics and quartz veins do not contain significant amounts of gold,
               silver, copper, platinum or palladium.  However, soil and sediment
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samples taken along Champion and McGee Creeks contain modest enrichment of gold (up to 58 ppb), platinum (55 ppb), and palladium (263 ppb).
WORK DONE: SOIL 30;multielement
SILT 34;multielement
ROCK 10;multielement
REFERENCES:

**** JM ****

MINING DIV: Nicola ASSESSMENT REPORT 16436 INFO CLASS 4
LOCATION: LAT. 49 43 54 LONG. 121 03 54 NTS:
CLAIMS: Juliet
OPERATOR: Crooker, G.
AUTHOR:
COMMODITIES: Molybdenum,Gold,Silver
DESCRIPTION: Quartz veins and a quartz stockwork breccia occur within Upper Triassic-Lower Cretaceous Eagle granodiorite breccia. Pyrite with lesser chalcopyrite and molybdenite occur within the quartz veins and quartz stockwork breccia. Values in gold and silver occur within the structures.
WORK DONE: SOIL 28;multielement
LINE 0.7 km
ROCK 14;multielement
REFERENCES: A.R. 00696,02610,03123,03595,04173,04174,04371,04516,06658,06758,07135,07771,08863,09648
M.I. 092HNW025-JM (SEC,ROVER)

**** Dig Here ****

MINING DIV: New Westminster ASSESSMENT REPORT 16650 INFO CLASS 3
LOCATION: LAT. 49 33 19 LONG. 121 28 04 NTS:
CLAIMS: Dig Here,Dig Here 2,Frog,Greg,Helen
OPERATOR: Lacana Min.
AUTHOR: Leishman, D.
DESCRIPTION: Upper Paleozoic ultramafic rocks (hornblendites) with sulphide mineralization are found within the claims. Narrow shear zones with precious metal values have recently been discovered.
WORK DONE: GEOL 1:20 000,1:10 000
SOIL 157;multielement
ROCK 10;multielement
HMIN 19;multielement
LINE 24.8 km
REFERENCES:

**** Cog,Talc ****

MINING DIV: *** ASSESSMENT REPORT 15587 INFO CLASS 3
LOCATION: LAT. 49 30 18 LONG. 121 41 12 NTS:
CLAIMS: American 1-4,Cog,Mafic 1-4,Talc
OPERATOR: Technigen Platinum
AUTHOR: Page, J.
DESCRIPTION: The claims cover several mafic and ultramafic intrusives and Pennsylvanian-Permian Chilliwack Group metasediments. These intrusions surround the Giant Mascot Nickel Mine.

WORK DONE: ROCK 26;multielement
SOIL 52;multielement
SILT 95;multielement
HMIN 9;multielement
REFERENCES:

**** PT ****

MINING DIV: New Westminster ASSESSMENT REPORT 16296 INFO CLASS 4
LOCATION: LAT. 49 31 18 LONG. 121 36 12 NTS:
CLAIMS: PT 10-12,PT 15
OPERATOR: Adola Min.
AUTHOR: Sadlier-Brown, T.
DESCRIPTION: The area is underlain by mafic volcanic and metasedimentary rocks of the Permian-Pennsylvanian Chilliwack Group which are locally intruded by a system of elongate ultramafic bodies of probable Cretaceous age and by younger (Upper Cretaceous) granodiorite.
WORK DONE: HMIN 21;multielement
REFERENCES:

**** Au ****

MINING DIV: Nicola ASSESSMENT REPORT 16008 INFO CLASS 3
LOCATION: LAT. 49 57 00 LONG. 120 31 00 NTS:
CLAIMS: Au 1-2,Flim
OPERATOR: Algo Res.
AUTHOR: Freeze, J.; White, G.E.
COMMODITIES: Gold
DESCRIPTION: Upper Triassic Nicola Group volcanics and sediments are intruded by the Pennask Batholith. Gold is associated with quartz and calcite in volcanics and sediments.
WORK DONE: IPOL 18.0 km
MAGG 18.0 km
GEOL 1:2500
LINE 20.0 km
REFERENCES: A.R. 05766,07293,07399
M.I. 092HNE171-AU

**** Strike,Lorna,MDA,Log 1 ****

MINING DIV: *** ASSESSMENT REPORT 16439 INFO CLASS 3
LOCATION: LAT. 49 47 00 LONG. 120 32 42 NTS:
CLAIMS: Log 1-4
OPERATOR: Cominco
AUTHOR: Elliott, I.
COMMODITIES: Copper,Silver
DESCRIPTION: Diorite-monzonite intrusions are enclosed in Upper Triassic Nicola Group volcanics on the east-dipping limb of the north trending Missezula syncline. Weak copper mineralization was noted in the intrusives in trenches and diamond drill holes.
WORK DONE: SOIL 616;Au,As
REFERENCES: A.R. 00977,00978,03107,04167,04227,04709,05331,05601,05824,07543,08309
M.I. 092HNE115-STRIKE,LORNA;092HNE118-MDA;092HNE152-LOG 1

**** A1 ****

MINING DIV: Nicola ASSESSMENT REPORT 15852 INFO CLASS 3
LOCATION: LAT. 50 07 24 LONG. 120 33 12 NTS:
CLAIMS: G&G 1,Tor
OPERATOR: Iota Ex.
AUTHOR: Miller, D.; Moraal, D.
COMMODITIES: Copper
DESCRIPTION: Copper and gold mineralization is associated with microdiorite intrusions which cut Upper Triassic Nicola Group volcanic rocks. The microdiorite pinches out to the north but widens to the south. Near the current drill holes the microdiorite strikes northerly, dips steeply easterly, and is about 125 metres thick.
WORK DONE: MAGG 8.0 km
EMGR 8.0 km;VLF
DIAD 244.5 m;2 holes,NQ
SAMP 170;Au
REFERENCES: A.R. 08494,12256
M.I. 092ISE120-AL

**** G&G ****

MINING DIV: *** ASSESSMENT REPORT 15572 INFO CLASS 4
LOCATION: LAT. 50 07 30 LONG. 120 32 54 NTS:
CLAIMS: G&G 1
OPERATOR: Elliott, G.
AUTHOR: Elliott, G.
DESCRIPTION: The claim is underlain by volcanic rocks of the Upper Triassic Nicola Group consisting of reddish-green andesite and basaltic flows. These rocks exhibit carbonate, quartz, epidote and chlorite alteration.
WORK DONE: SAMP 28;multielement
PROS 1:5555
REFERENCES:

**** Sunnyboy (Cliff) ****

MINING DIV: Nicola ASSESSMENT REPORT 15966 INFO CLASS 3
LOCATION: LAT. 50 08 00 LONG. 120 31 30 NTS:
CLAIMS: Iota 1,Spitefire 2,Sunnyboy 1-3,Sunnyboy 7-8
OPERATOR: Iota Ex.
AUTHOR: Moraal, D.
COMMODITIES: Copper,Silver,Gold
DESCRIPTION: Varicoloured Triassic porphyritic andesites have been intruded by Jurassic intrusives causing widespread alteration and gold mineralization in quartz veins. Massive sulphides occur with diorite intrusions.
WORK DONE: ROCK 9;Au,Ag,Cu
ROAD 0.2 km
TREN 445.0 m;8 trenches
SOIL 424;multielement
LINE 16.3 km
REFERENCES: A.R. 02750,05091,05092,07662

M.I. 092ISE117-SUNNYBOY (CLIFF)

**** Diane ****

MINING DIV: *** ASSESSMENT REPORT 16058 INFO CLASS 3
LOCATION: LAT. 50 02 30 LONG. 120 47 30 NTS:
CLAIMS: Diane 1-5
OPERATOR: Int. Maple Leaf Petr.
AUTHOR: Cavey, G.
COMMODITIES: Gold,Copper,Zinc
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group volcanic rocks consisting of an easterly facing sequence of calc-alkaline flows, pyroclastics and sediments.
WORK DONE: EMAB 174.0 km;VLF,HLEM
LINE 43.0 km
TREN 257.0 m;15 trenches
ROCK 52;Cu,Pb,Zn,Ag,Au
SOIL 342;Cu,Zn,Ag,Au
ROAD 3.4 km
SAMP 246;Cu,Zn,Au,Ag,Pb
GEOL 1:5000
PETR 28;thin sections
MAGA 174.0 km
REFERENCES: A.R. 12799,13114
M.I. 092ISE209-DIANE

**** Gus ****

MINING DIV: Nicola ASSESSMENT REPORT 16492 INFO CLASS 3
LOCATION: LAT. 50 12 36 LONG. 120 59 42 NTS:
CLAIMS: Gus
OPERATOR: Better Res.
AUTHOR: Bristow, J.
DESCRIPTION: The property is underlain by a complex suite of steeply dipping Upper Triassic Nicola Group rocks composed of basaltic-andesitic fragmental flows, felspathic greywacke, hornfels, rhyolitic volcanics and several calcareous bands. These are in contact with a multistage Upper Triassic intrusion (Guichon Batholith).
WORK DONE: DIAD 227.1 m;3 holes,BQ
REFERENCES:

**** Kwoiek ****

MINING DIV: Kamloops ASSESSMENT REPORT 15866 INFO CLASS 4
LOCATION: LAT. 50 07 24 LONG. 121 43 30 NTS:
CLAIMS: Kwoiek 3
OPERATOR: Hainsworth, W.
AUTHOR:
DESCRIPTION: The claim is underlain by Triassic phyllite schists or dark amphibolite. Geophysical survey results identified three VLF-electromagnetic conductors.
WORK DONE: EMGR 6.1 km;VLF
LINE 8.6 km
REFERENCES: A.R. 10873,11699,13599,14604

**** Kwoiek ****

MINING DIV: *** ASSESSMENT REPORT 16485 INFO CLASS 4
LOCATION: LAT. 50 07 08 LONG. 121 43 12 NTS:
CLAIMS: Kwoiek 3
OPERATOR: Chandi Res.
AUTHOR: Hainsworth, W.
DESCRIPTION: The claim is underlain by granodiorite and altered Triassic sediments consisting of phyllites with minor amounts of quartzite, limestone and greenstone. Some ultramafics are peripherally located to the metamorphosed rocks.
WORK DONE: MAGG 6.1 km
REFERENCES:

**** Green,Glacier ****

MINING DIV: Kamloops ASSESSMENT REPORT 16545 INFO CLASS 4
LOCATION: LAT. 50 09 24 LONG. 121 49 36 NTS:
CLAIMS: Rawhide 2
OPERATOR: Cardinal, D.
AUTHOR: Cardinal, D.
COMMODITIES: Asbestos,Gold,Silver,Jade,Asbestos
DESCRIPTION: The property is underlain by predominantly phyllites and argillites with minor greenstone schists of Triassic(?) age. The metasediments are in fault contact with a serpentinized ultramafic body. Bedrock foliation and fault structures trend northwesterly.
WORK DONE: ROCK 1;multielement
GEOL 1:4000
REFERENCES: A.R. 04718,06527,06854,07455,08267,09542,10680,14715,15311
M.I. 092ISW051-GREEN;092ISW053-GLACIER

**** Bin Noranda (Rio),Nox ****

MINING DIV: *** ASSESSMENT REPORT 15518 INFO CLASS 3
LOCATION: LAT. 50 22 00 LONG. 121 02 30 NTS:
CLAIMS: SV 21-26
OPERATOR: Teck
AUTHOR: Cartwright, P.; Cormier, M.
COMMODITIES: Copper
DESCRIPTION: Bethlehem and Bethsaida Phases of the Guichon Creek Batholith underly the property and have been offset by the southern extension of the Lornex Fault. Sparse malachite and chalcopyrite mineralization has been located previously in Bethsaida rocks on the eastern claims.
WORK DONE: IPOL 52.5 km
REFERENCES: A.R. 00780,00997,01973,02058,02629,03116
M.I. 092ISW023-BIN NORANDA (RIO)

**** A,AC ****

MINING DIV: Nicola ASSESSMENT REPORT 15506 INFO CLASS 3
LOCATION: LAT. 50 16 00 LONG. 120 40 00 NTS:
CLAIMS: Ac

OPERATOR: Trans-Arctic Ex.
AUTHOR: Mark, D.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: The claim is underlain by sedimentary and volcanic rocks of the Upper Triassic Nicola Group. Sulphides occur as disseminations and replacements in quartz-carbonate altered zones.
WORK DONE: EMGR 10.5 km;VLF
REFERENCES: A.R. 04503
M.I. 092ISE133-AC;092ISE134-A

**** JHC ****

MINING DIV: Kamloops ASSESSMENT REPORT 16189 INFO CLASS 4
LOCATION: LAT. 50 26 30 LONG. 120 41 36 NTS:
CLAIMS: Oly 4,Oly 6
OPERATOR: Rockel, E.
AUTHOR:
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group sediments and volcanics. Peripheral rocks are intrusives with Cretaceous and younger sediments and volcanics. Some intrusive stocks and plugs can be found within the Nicola Group rocks.
WORK DONE: ROCK 2;multielement
SOIL 17;multielement
REFERENCES: A.R. 00266,07268,08337
M.I. 092ISE147-JHC

**** Sophia ****

MINING DIV: Nicola ASSESSMENT REPORT 16625 INFO CLASS 4
LOCATION: LAT. 50 18 14 LONG. 120 43 30 NTS:
CLAIMS: Sophia
OPERATOR: Boitard, C.
AUTHOR: La Rue, J.
COMMODITIES: Lead,Zinc,Copper
DESCRIPTION: The claim area is underlain by Upper Triassic Nicola Group volcanics and tuffs intercalated with minor limestone, argillite and conglomerate. The northerly trending Nicola Group rocks are bounded to the east and west by granite.
WORK DONE: IPOL 5.1 km
REFERENCES: A.R. 06441,07031,07488
M.I. 092ISE197-SOPHIA

**** Fiddler (Aug) ****

MINING DIV: *** ASSESSMENT REPORT 16481 INFO CLASS 4
LOCATION: LAT. 50 25 00 LONG. 120 50 54 NTS:
CLAIMS: Tom 1
OPERATOR: Curnow, R.
AUTHOR: Bristow, J.
COMMODITIES: Copper,Molybdenum
DESCRIPTION: The general geology of the region shows it to be underlain by the Lower Jurassic Guichon Batholith. This is a multistage felsic intrusive. The intrusive is composed mainly of granites and granodiorites with porphyritic, pegmatitic, gabbroic and gneissic

mafic phases. The showings visited appear to be located near the boundary between the Guichon Batholith and granitized and hornfelsed metasedimentary rocks.
WORK DONE: SAMP 3;Cu,Au,Ag
DIAD 53.9 m;1 hole,NQ
REFERENCES: A.R. 00122,00140,00180,00255,01881,08641
M.I. 092ISE072-FIDDLER (AUG)

**** Nap ****

MINING DIV: Kamloops ASSESSMENT REPORT 16345 INFO CLASS 3
LOCATION: LAT. 50 25 00 LONG. 120 17 36 NTS:
CLAIMS: Stump
OPERATOR: Leishman, D.
AUTHOR:
COMMODITIES: Copper
DESCRIPTION: A pyritic, altered unit of Upper Triassic Nicola Group volcanics (silicified, sericitized) is centred along a strong east-west shear. A coincident copper-zinc soil anomaly has been discovered to have erratic gold values.
WORK DONE: SOIL 247;Au
ROCK 34;Au
REFERENCES: A.R. 04500,06308
M.I. 092ISE169-NAP

**** Redbird ****

MINING DIV: *** ASSESSMENT REPORT 16075 INFO CLASS 3
LOCATION: LAT. 50 23 06 LONG. 120 21 42 NTS:
CLAIMS: Cin,Microgold
OPERATOR: Asamera
AUTHOR: Dupre, D.
COMMODITIES: Gold,Molybdenum,Silver,Flourite
DESCRIPTION: The claims are predominantly underlain by andesitic flow breccias belonging to the Upper Triassic Nicola Group. South of Kullagh Lake, three large silicified zones may represent the silica caps of epithermal systems. These zones are geochemically enriched in gold. The drilling encountered several thin siliceous zones similar to those mapped on surface but no economic mineralization was encountered. The best assay was 700 ppb gold over 2.9 metres.
WORK DONE: SAMP 77;multielement
DIAD 917.7 m;3 holes,NQ
REFERENCES: A.R. 11397
M.I. 092ISE179-REDBIRD

**** Chance ****

MINING DIV: Kamloops ASSESSMENT REPORT 16187 INFO CLASS 4
LOCATION: LAT. 50 35 00 LONG. 120 22 12 NTS:
CLAIMS: Hump
OPERATOR: Murphy, J.
AUTHOR: Murphy, J.
COMMODITIES: Copper,Lead,Gold
DESCRIPTION: Two gold-bearing structures occur in limy tuff and agglomerate of Upper Triassic Nicola Group volcanics in proximity to a small

hornblende diorite intrusive related to the Iron Mask Batholith. Zone 1 is a quartz-carbonate vein with disseminated sulphides and low gold values. The vein is up to a metre wide with an indicated strike length of 150 metres. Zone 2 carries high grade copper-gold.
WORK DONE: ROCK 9;Au,Ag,Cu
GEOL 1:1000
LINE 2.5 km
SOIL 27;Au,Ag,Cu
REFERENCES: A.R. 03714,03762,08043,09198,10037,14310
M.I. 092INE101-CHANCE

**** Edith ****

MINING DIV: *** ASSESSMENT REPORT 16136 INFO CLASS 3
LOCATION: LAT. 50 35 12 LONG. 120 24 00 NTS:
CLAIMS: Edith 100
OPERATOR: Teck
AUTHOR: Bergey, W.
DESCRIPTION: The surveyed area is underlain by intermediate volcanic rocks of the Upper Triassic Nicola Group. Crystal and crystal-lithic tuff composed of sand-sized particles predominate. These rocks are interbedded with lapilli tuff and breccia and with thin lava flows. Quartz-feldspar dykes intrude the volcanic sequence.
WORK DONE: SOIL 310;Au,Cu
REFERENCES:

**** Edith ****

MINING DIV: Kamloops ASSESSMENT REPORT 15446 INFO CLASS 4
LOCATION: LAT. 50 35 06 LONG. 120 22 48 NTS:
CLAIMS: Edith 100
OPERATOR: Teck
AUTHOR: Bergey, W.
DESCRIPTION: The claim is underlain by northwest-trending andesitic pyroclastic rocks of the Upper Triassic Nicola Group, and a small diorite stock.
Soil geochemistry returned low gold values.
WORK DONE: GEOL 1:1000
SOIL 61;Au,Cu
REFERENCES: A.R. 03714,03762,14985

**** Evening Star ****

MINING DIV: *** ASSESSMENT REPORT 16334 INFO CLASS 3
LOCATION: LAT. 50 38 00 LONG. 120 25 00 NTS:
CLAIMS: Evening Star,Rocket 11,Rocket 2,Rocket 4,Rocket 8
OPERATOR: Abermin
AUTHOR: McArthur, G.; Smee, B.
COMMODITIES: Copper,Gold,Silver,Molybdenum
DESCRIPTION: Upper Triassic-Lower Jurassic Iron Mask Batholith is host to copper and minor precious metal mineralization, localized in a northwest-trending, structurally-controlled roof pendant of volcanics and older phases of the Iron Mask Intrusions.
WORK DONE: GEOL 1:4800
LINE 2.5 km

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             EMGR  2.5 km;VLF
             ROCK  15;Cu,Pb,Zn,Ag,Au
             SAMP  221;Cu,Pb,Zn,Ag,Au
             PERD  367.0 m;7 holes
REFERENCES: A.R. 04013,04317,05933,06864
             M.I. 092INE007-EVENING STAR
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**** Lorna,DM ****

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MINING DIV:    Kamloops           ASSESSMENT REPORT 15608    INFO CLASS 3
LOCATION:     LAT.  50 40 00  LONG.  120 28 30     NTS:
CLAIMS:        Cid 1
OPERATOR:      Comet Ind.
AUTHOR:        Vollo, N.
COMMODITIES:   Copper,Gold
DESCRIPTION:       Alkalic porphyry deposits in monzonite and diorite of Triassic
              age include the Crescent, Audra and DM zones which strike
              northeasterly and dip steeply southeast.  Mineralization consists of
              chalcopyrite and bornite.
WORK DONE:     SAMP  50;Cu,Au,Ag
               DIAD  209.0 m;2 holes,BQ
REFERENCES: A.R. 00655,00727,00891,01011,03554,05180,06538,12096
             M.I. 092INE026-LORNA;092INE30-DM
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**** Mara ****

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MINING DIV:    ***                ASSESSMENT REPORT 16410    INFO CLASS 2
LOCATION:     LAT.  50 45 00  LONG.  120 25 00     NTS:
CLAIMS:        Bas I-II,Kam,Kim 1-2,Mara I-IV
OPERATOR:      QPX Min.
AUTHOR:        Gourlay, A.
DESCRIPTION:       Eocene Kamloops Group tuffs, sediments and volcanic flows are
              capped by basalt flows.
WORK DONE:     FOTO  1:50 000
               MAGG  132.0 km
               EMGR  126.0 km;VLF
REFERENCES: A.R. 12615,13959
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**** Afton-Pothook ****

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MINING DIV:    Kamloops           ASSESSMENT REPORT 15775    INFO CLASS 1
LOCATION:     LAT.  50 39 18  LONG.  120 30 12     NTS:
CLAIMS:        Production Lease (L.1C29)
OPERATOR:      Afton Operating
AUTHOR:        Bond, L.
COMMODITIES:   Copper,Gold
DESCRIPTION:       All rock units encountered within the Pothook area are varieties
              of the Triassic Iron Mask Intrusions or contemporaneous Nicola
              volcanics.  The Pothook deposit, 2 093 000 tonnes at 0.39 per cent
              copper, 0.58 grams per tonne gold, occurs in fine-grained pyroxene
              diorite exhibiting typical potassic and propylitic alteration.
              Copper minerals are bornite, chalcopyrite, chalcocite and native
              copper.
WORK DONE:     DIAD  2462.5 m;21 holes,NQ
               SAMP  673;Cu,Au,Ag
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REFERENCES: A.R. 00060,00141,00192,00727,00879,00891,01011,01677,03554,05180
             05271,05998,06209,06245,06268,08079
             M.I. 092INE023-AFTON-POTHOOK
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**** DC-2 ****

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MINING DIV:    ***                ASSESSMENT REPORT 16320    INFO CLASS 4
LOCATION:     LAT.  50 42 00  LONG.  120 40 00     NTS:
CLAIMS:        DC 2
OPERATOR:      Mercator Res.
AUTHOR:        Juhas, A.
DESCRIPTION:       The property is largely underlain by basalt flows and flow
              breccias of the Triassic Nicola Group, cut by vertical, east-west
              trending, pyritic quartz-feldspar porphyry dykes of presumed Triassic
              age.  A zone of quartz-carbonate-fuschite alteration trending
              northwesterly also cuts the basalt.  All lithologies are overlain by
              Quaternary glacial deposits consisting of sheeted till, kames and
              eskers.  Prospective gold mineralization is associated with the dykes
              and zones of quartz-carbonate alteration.
WORK DONE:     GEOL  1:5376
REFERENCES:
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**** Dc-3 ****

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MINING DIV:    Kamloops           ASSESSMENT REPORT 15959    INFO CLASS 3
LOCATION:     LAT.  50 43 00  LONG.  120 39 00     NTS:
CLAIMS:        DC 1,DC 3-6
OPERATOR:      Mercator Res.
AUTHOR:        Juhas, A.
DESCRIPTION:       The property is largely underlain by argillite, siltstones and
              basaltic volcanic rocks of the Nicola Group, intruded by felsic
              porphyry dykes of Cretaceous or Tertiary age, all of which is
              overlain by flat lying Quaternary glacial deposits.  The Nicola Group
              rocks strike northwesterly with steep westerly dips.  The dykes are
              nearly vertical and strike northwesterly and northeasterly.
              Prospective gold mineralization is associated with quartz-carbonate
              veinlets in and near the dykes.
WORK DONE:     GEOL  1:5376
REFERENCES:
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**** Dominic ****

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MINING DIV:    ***                ASSESSMENT REPORT 16558    INFO CLASS 4
LOCATION:     LAT.  50 35 00  LONG.  120 43 42     NTS:
CLAIMS:        Dominic North,Dominic South
OPERATOR:      Boitard, C.
AUTHOR:        Larue, J.
DESCRIPTION:       The claim group is underlain by Upper Triassic Nicola Group
              greenstones, volcanics and minor sedimentary rocks.
WORK DONE:     LINE  5.0 km
               IPOL  10.0 km
REFERENCES: A.R. 06550,07155,08780,12958,14110,15235
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**** Golden Ring,Mustang ****

MINING DIV: Kamloops ASSESSMENT REPORT 16099 INFO CLASS 3
LOCATION: LAT. 50 42 24 LONG. 120 42 42 NTS:
CLAIMS: British 3,Golden Ring 1,Mustang 2,Mustang 7
OPERATOR: Vault Ex.
AUTHOR: Callaghan, B.
DESCRIPTION: A monoclinal sequence of Upper Triassic Nicola Group volcaniclastic sediments strikes northwest across the property and dips steeply northeast. Carbonate-silica alteration is associated with late vertical faulting cutting the Nicola Group. These zones locally contain anomalous mercury, arsenic and antimony values. High level Tertiary intrusives are believed to be responsible for the alteration.
WORK DONE: SAMP 155;multielement
ROAD 0.7 km
PERD 709.6 m;9 holes
REFERENCES: A.R. 13677

**** Chief ****

MINING DIV: *** ASSESSMENT REPORT 16641 INFO CLASS 3
LOCATION: LAT. 50 44 53 LONG. 121 00 20 NTS:
CLAIMS: Fehr V,Jim I,Thom I
OPERATOR: QPX Min.
AUTHOR: Gourlay, A.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group intermediate volcanic rocks and sediments, Jurassic Ashcroft Formation conglomerate and Eocene Kamloops Group lacustrine sedimentary rocks and basalts. A Tertiary rhyolite plug is emplaced along a fracture zone, probably a splay off the Deadman Fault.
WORK DONE: MAGG 20.0 km
EMGR 20.0 km;VLF
IPOL 10.0 km
SOIL 359;Au,Ag,As,Sb,Bi,Mo,Se
PERD 644.9 m;7 holes
SAMP 250;multielement
LINE 20.0 km
REFERENCES: M.I. 092INW055-CHIEF

**** Jim,Fehr ****

MINING DIV: Kamloops ASSESSMENT REPORT 16133 INFO CLASS 4
LOCATION: LAT. 50 42 30 LONG. 120 59 12 NTS:
CLAIMS: Fehr V,Jim 1
OPERATOR: GoldQuest Min.
AUTHOR: Gourlay, A.
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group intermediate volcanic rocks and sediments, Jurassic Ashcroft Formation conglomerate and Eocene Kamloops Group lacustrine sedimentary rocks and basalts. A Tertiary rhyolite plug is emplaced

along a fracture zone, probably a splay off the Deadman Fault zone.
WORK DONE: LINE 6.8 km
EMGR 6.8 km;VLF
MAGG 6.8 km
REFERENCES: A.R. 14776,15635

**** Jim,Thom ****

MINING DIV: *** ASSESSMENT REPORT 15635 INFO CLASS 4
LOCATION: LAT. 50 43 24 LONG. 120 59 12 NTS:
CLAIMS: Thom III,Jim 1
OPERATOR: GoldQuest I
AUTHOR: Gourlay, A.
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group intermediate volcanic rocks and sediments, Jurassic Ashcroft Formation conglomerate and Eocene Kamloops Group lacustrine sedimentary rocks and basalts.
A Tertiary rhyolite plug is emplaced along a fracture zone. The VLF-electromagnetic survey confirmed the presence of northwest trending fractures.
WORK DONE: EMGR 4.8 km;VLF
REFERENCES: A.R. 14776

**** CM,DN ****

MINING DIV: Kamloops ASSESSMENT REPORT 16428 INFO CLASS 3
LOCATION: LAT. 50 37 00 LONG. 121 16 18 NTS:
CLAIMS: CM
OPERATOR: United Liberty Res.
AUTHOR: Hunter, A.
COMMODITIES: Copper
DESCRIPTION: The claim is underlain by diorite and quartz diorite of the Guichon Creek Batholith and by limestones, mudstones, siltstones and greywackes of the Upper Triassic Nicola Group. The sediments have been intruded by the batholith and generally trend 315-360 degrees/ 25-50 degrees west. Two showings are located on the property where various copper sulphides (chalcopyrite, chalcocite, and covellite) are present in the mudstone and limestone of the Nicola Group.
WORK DONE: EMGR 10.0 km;VLF
MAGG 0.1 km
SOIL 2;Cu,Pb,Zn,Ag,As,Au
ROCK 2;Cu,Pb,Zn,Ag,As,Au
REFERENCES: M.I. 092INW062-CM;092INW062-DN

**** Genesis ****

MINING DIV: *** ASSESSMENT REPORT 16403 INFO CLASS 3
LOCATION: LAT. 50 49 24 LONG. 121 24 12 NTS:
CLAIMS: Genesis 11,Genesis 12-15,Genesis 3-6
OPERATOR: Samarkand Res.
AUTHOR: Shearing, R.
DESCRIPTION: The property is underlain mostly by felsic-mafic pyroclastics of the Nicola Group with minor Cache Creek mafic volcanics and sediments. Also a possible gold-hosting ultramafic pod occurs on the eastern boundary. Anomalous copper and silver pyritic zones occur in

altered rhyolite tuffs and flows. The general trend of the lithology is approximately 160 degrees.
WORK DONE: GEOL 1:5000
MAGG 57.0 km
EMGR 61.9 km;HLEM,VLF
LINE 39.3 km
REFERENCES: A.R. 03153,04068,08892,09177,09415

**** Top Hat ****

MINING DIV: Kamloops ASSESSMENT REPORT 16352 INFO CLASS 3
LOCATION: LAT. 50 37 12 LONG. 121 42 00 NTS:
CLAIMS: Tophat 1-4
OPERATOR: Kangeld Res.
AUTHOR: Gonzalez, R.; Lechow, W.
DESCRIPTION: CONFIDENTIAL STATUS

(Will be published in Exploration in British Columbia, 1988

**** Tow ****

MINING DIV: Lillooet ASSESSMENT REPORT 15835 INFO CLASS 3
LOCATION: LAT. 50 32 24 LONG. 121 53 12 NTS:
CLAIMS: Spray 1-2
OPERATOR: Southern Gold Res.
AUTHOR: Rebagliati, C.M.
COMMODITIES: Molybdenum,Gold
DESCRIPTION: Quartz veins cut a small quartz diorite pluton and hornfelsed sediments all of Cretaceous age.
WORK DONE: SAMP 118;Au
ROCK 20;Au
DIAD 264.6 m;5 holes,BQD
REFERENCES: A.R. 07211,07569,08347,09405,09427,14971,15073
M.I. 092INW090-TOW

**** Maiden Creek ****

MINING DIV: Kamloops ASSESSMENT REPORT 15986 INFO CLASS 2
LOCATION: LAT. 50 57 42 LONG. 121 31 30 NTS:
CLAIMS: Angie,Sabre 100,Sabre 300,Sabre 500
OPERATOR: Edgemont Res.
AUTHOR: Sanguinetti, M.
DESCRIPTION: The claims are underlain by sandstones and conglomerates of the Tertiary Coldwater beds of the Kamloops Group. The strata generally strikes northwest to west with shallow dips to the north.
WORK DONE: MAGG 35.5 km
ROCK 56;Au
SOIL 1469;Au
LINE 38.5 km

GEOL 1:2500
REFERENCES: A.R 04304,07063,08700

**** Cache Creek ****

MINING DIV: *** ASSESSMENT REPORT 16050 INFO CLASS 3
LOCATION: LAT. 50 48 00 LONG. 121 20 00 NTS:
CLAIMS: Mariner
OPERATOR: Cardinal Min.
AUTHOR: Johnson, M.
COMMODITIES: Chromium
DESCRIPTION: Paleozoic argillites, greenstone volcanics and a belt of limestone are intruded by serpentinized ultramafic rocks. These rocks have undergone repeated folding and faulting. Several pods of massive chromite with very low platinum and gold values occur on the property.
WORK DONE: GRAV 23.0 km
MAGG 34.0 km
LINE 57.0 km
REFERENCES: A.R. 00036
M.I. 092INW002-CACHE CREEK (OPENHEIM)

**** Census ****

MINING DIV: Kamloops ASSESSMENT REPORT 16213 INFO CLASS 4
LOCATION: LAT. 50 56 24 LONG. 121 24 18 NTS:
CLAIMS: Census,JMI I-III
OPERATOR: Ashworth, C.
AUTHOR: Yacoub, F.
DESCRIPTION: The claims are underlain by Pennsylvanian-Permian Cache Creek Group cherts, limestone, pillow basalts, gabbro and serpentinized ultramafic rocks. Ultramafic rocks in the area host significant amounts of chromium and platinum.
WORK DONE: ROCK 7;multielement
SILT 55;multielement
REFERENCES:

**** Flint ****

MINING DIV: *** ASSESSMENT REPORT 16025 INFO CLASS 3
LOCATION: LAT. 50 59 24 LONG. 121 23 48 NTS:
CLAIMS: Barbara,Flint,Flint 2-3,Scot 1-2,White Tree
OPERATOR: Granges Ex.
AUTHOR: Watson, I.
COMMODITIES: Chromium
DESCRIPTION: Pennsylvanian-Permian Cache Creek Group marine sediments and volcanics are bounded to the east by Tertiary Kamloops Group dacites and basalts, and to the west by the Fraser River Fault. The Cache Creek Group hosts alpine-type serpentinized ultramafics in a northerly trending belt. The Chrome Creek ultramafic intrusive is dominantly dunite, and contains irregularly distributed chromite in small lenses, sheets and disseminations. Minor platinum has been reported.
WORK DONE: LINE 12.7 km
HMIN 44;multielement
SOIL 376;multielement

ROCK 45:multielement
REFERENCES: A.R. 07859,10208
M.I. 092INW001-FLINT (SCOTTY CR., IRON KING)

**** Plat ****

MINING DIV: Kamloops ASSESSMENT REPORT 16525 INFO CLASS 3
LOCATION: LAT. 50 58 48 LONG. 121 21 24 NTS:
CLAIMS: Plat I-IV
OPERATOR: Ashworth Ex.
AUTHOR: Scroggins, E.; Yacoub, F.
DESCRIPTION: The Plat property is underlain by Permian-Pennsylvanian rocks of the Cache Creek Group consisting mainly of radiolarian chert and volcaniclastics and an altered andesite dyke of uncertain age. Serpentinization occurs in ultramafic float rocks. Visible chromite was also seen.
WORK DONE: SOIL 16:multielement
GEOL 1:10 000
ROCK 33:multielement
SILT 89:multielement
ROCK 33:multielement
REFERENCES:

**** Allies ****

MINING DIV: *** ASSESSMENT REPORT 15807 INFO CLASS 3
LOCATION: LAT. 50 52 30 LONG. 120 34 06 NTS:
CLAIMS: Allies 1
OPERATOR: Relay Creek Res.
AUTHOR: Dawson, J.
COMMODITIES: Gold,Copper,Lead,Zinc
DESCRIPTION: The claims are underlain by Miocene basalt within which a window of Triassic picrite and Upper Triassic Nicola Group greenstone is exposed. These older rocks are cut by felsic porphyritic dykes which are the loci for quartz stockwork carrying disseminated pyrite, minor chalcopyrite and trace galena; gold values are associated with the quartz stockwork mineralization.
WORK DONE: SAMP 68:Au
DIAD 619.2 m;5 holes,NQ
REFERENCES: A.R. 03674,04212,04546,05950,07085,11409,12412,13445,15270
M.I. 092INE044-ALLIES

**** Dog ****

MINING DIV: Kamloops ASSESSMENT REPORT 16359 INFO CLASS 4
LOCATION: LAT. 50 52 5 LONG. 120 33 06 NTS:
CLAIMS: Dog 3
OPERATOR: Trans-Arctic Ex.
AUTHOR: Mark, D.
DESCRIPTION: The property is underlain by Pennsylvanian-Permian Cache Creek Group rocks and Tertiary Kamloops Group volcanics.
WORK DONE: SOIL 40:Ag,Au
REFERENCES: A.R. 11409,13897,15192

**** Ches ****

MINING DIV: *** ASSESSMENT REPORT 15989 INFO CLASS 4
LOCATION: LAT. 50 58 24 LONG. 120 51 36 NTS:
CLAIMS: Elm 4,Elm 6
OPERATOR: Glitter Gold Mines
AUTHOR: Murphy, J.
COMMODITIES: Lead,Zinc,Molybdenum,Silver,Copper
DESCRIPTION: Mineralization consists of several molybdenite and pyrite bearing quartz veins in sheared conglomerate with parallel bands of aplite. The zone has an aggregate width of 15 metres and an exposed strike length of 80 metres. Veining is cut off to the east by a strong fault striking north-northwest.
WORK DONE: ROCK 8:Au,Ag,Mo,Pb,Zn
GEOL 1:1000
REFERENCES: A.R. 01124,01602,02033,07243,11269,12325,13624
M.I. 092INE035-CHES

**** Hardie Mountain,Lee,Carabine Creek ****

MINING DIV: Kamloops ASSESSMENT REPORT 16577 INFO CLASS 4
LOCATION: LAT. 50 50 57 LONG. 120 46 15 NTS:
CLAIMS: BYRL 1-4
OPERATOR: Ward, D.
AUTHOR: Ward, D.
COMMODITIES: Mercury,Gypsum
DESCRIPTION: A slice of variably altered and intruded Upper Triassic(?) calc-alkaline rocks about two kilometres wide trends northerly for at least three kilometres through the Byrl claims. Plutonic rocks of variable texture and composition, assumed to be Triassic-Jurassic, have intruded the Triassic volcanic rocks. Even though most of the intrusives are quartz deficient, two fine-grained felsic intrusives are present.
Both the felsic intrusives and older volcanic rocks have been locally sheared, brecciated and mineralized to varying degrees with cinnabar, chalcedonic quartz, calcite and gypsum in some cases. Chalcedonic quartz is more commonly associated with the felsic intrusives while calcite is more commonly associated with the volcanic rocks.
WORK DONE: SOIL 50:Cu,Ag,Ni,As,Pt,Pd
TREN 518.2 m;83 trenches
REFERENCES: A.R. 01789,01914,01989,02467,13216,13981,15164
M.I. 092INE037-HARDIE MOUNTAIN (MERC,COLUMBIA);092INE058-LEE (HARDIE HILL,MERCURY);092INE080-CARABINE CREEK

**** Jane,Plaza,Rosem,Sabiston Flats ****

MINING DIV: *** ASSESSMENT REPORT 16212 INFO CLASS 2
LOCATION: LAT. 50 48 54 LONG. 120 50 18 NTS:
CLAIMS: Jeff 1-6,Kam 18,Kam 21,Kam 3-4
OPERATOR: Emerald Star Ex.
AUTHOR: Price, B.
COMMODITIES: Mercury

DESCRIPTION: Upper Triassic Nicola Group volcanics and sediments are intruded by serpentinized ultramafics along regional northwest trending faults. Alteration zones consisting of carbonate and silica replacement are mineralized with cinnabar, copper minerals and barite.
WORK DONE: ROCK 23;multielement
SOIL 1109;multielement
REFERENCES: A.R. 04213
M.I. 092INE059-SABISTON FLATS (INDEPENDENT);092INE060-JANE, PLAZA, ROSEM

**** W.M.M. ****

MINING DIV: Vancouver ASSESSMENT REPORT 16497 INFO CLASS 4
LOCATION: LAT. 50 12 12 LONG. 122 58 42 NTS:
CLAIMS: WMM 3-5
OPERATOR: MacLeod, J.
AUTHOR: MacLeod, J.
DESCRIPTION: Rocks noted were andesite, basalt and hornfelsed sediments. Gold occurs in east trending silicified zones mineralizaed with pyrite.
WORK DONE: SOIL 33;multielement
REFERENCES:

**** Discovery ****

MINING DIV: *** ASSESSMENT REPORT 16443 INFO CLASS 4
LOCATION: LAT. 50 06 00 LONG. 123 06 18 NTS:
CLAIMS: Discovery I-II
OPERATOR: Demczuk, L.
AUTHOR: Demczuk, L.
COMMODITIES: Copper,Zinc,Silver,Gold
DESCRIPTION: The claims are underlain by Upper Cretaceous Coast Plutonic Complex quartz-diorite intrusions and a package of intermediate volcanic rocks metamorphosed to greenschist facies. Sulphide minerals occur in crosscutting veinlets, disseminations and as massive sulphides in sheared greenstone and layered quartz-carbonate beds.
WORK DONE: ROCK 29;multielement
REFERENCES:

**** Edna ****

MINING DIV: Vancouver ASSESSMENT REPORT 15499 INFO CLASS 3
LOCATION: LAT. 50 06 54 LONG. 123 08 48 NTS:
CLAIMS: Alex 1-2,Callaghan 1-2,Edna 1-5
OPERATOR: Kidd Creek Mines
AUTHOR: Mallalieu, D.
DESCRIPTION: The claims are underlain by a pendant of Lower Cretaceous volcaniclastic rocks belonging to the "Gambier Supergroup". The pendant occurs within the Upper Cretaceous Coast Plutonic Complex. The volcanic and sedimentary succession of Gambier rocks strikes about 156 degrees and dips steeply to the southwest. The rocks were

found to be strongly altered to unaltered. Alteration is mainly alkali and alkali metasomatism and is related to contact metamorphism by the Coast Plutonic Complex and regional greenschist metamorphism. No significant mineralization was observed on the property.
WORK DONE: ROCK 76;multielement
GEOL 1:10 000
REFERENCES: A.R. 01577

**** Warman ****

MINING DIV: *** ASSESSMENT REPORT 16527 INFO CLASS 3
LOCATION: LAT. 50 07 30 LONG. 123 05 30 NTS:
CLAIMS: Northair 1-6,Production Lease No. P1
OPERATOR: Kidd Creek Mines
AUTHOR: Von Fersen, N.
COMMODITIES: Gold,Copper,Silver,Lead,Zinc
DESCRIPTION: The claims are underlain by north-northwest striking, steeply east-dipping pyroclastic and volcaniclastic rocks of the Lower Cretaceous Gambier Group. Lapilli ash tuff, minor volcanic breccia, feldspar crystal tuff, volcanic sandstone-wacke and argillite are present. Previous production by Northair Mines from 3 ore zones totalled 362 877 tonnes of 12 grams per tonne gold, 61.7 grams per tonne silver, and 0.3 per cent copper, 3.2 per cent zinc and 2.4 per cent lead.
WORK DONE: MAGA 212.0 km
EMAB 212.0 km;VLF,HLEM
LINE 14.0 km
REFERENCES: A.R. 03273,04153,04541
M.I. 092J 012-WARMAN

**** Slate ****

MINING DIV: Vancouver ASSESSMENT REPORT 15406 INFO CLASS 4
LOCATION: LAT. 50 01 30 LONG. 123 34 30 NTS:
CLAIMS: Slate
OPERATOR: Husar, A.
AUTHOR: Mazacek, P.
DESCRIPTION: Drilling intersected greenish-grey, coarse-grained quartz diorite and black slate. Although sulphides are abundant, silver, gold and platinum content is low.
WORK DONE: DIAD 93.6 m;2 holes,IEW
REFERENCES:

**** Tax ****

MINING DIV: *** ASSESSMENT REPORT 16301 INFO CLASS 4
LOCATION: LAT. 50 04 18 LONG. 123 35 30 NTS:
CLAIMS: Tax 2
OPERATOR: Babkirk, W.
AUTHOR: Babkirk, W.
DESCRIPTION: The claim is underlain by pyritic quartz diorite and rhyolite.
WORK DONE: DIAD 30.8 m;1 hole,AQ
REFERENCES:

**** Lake,Eagle ****

MINING DIV: Lillooet ASSESSMENT REPORT 15838 INFO CLASS 3
LOCATION: LAT. 50 17 00 LONG. 122 36 30 NTS:
CLAIMS: Lill I,Lill II,Lill 4
OPERATOR: Green Lake Res.
AUTHOR: Day, W.C.; White, G.E.
COMMODITIES: Copper,Iron,Zinc
DESCRIPTION: The claims are underlain by Upper Triassic Cadwallader Group volcanics consisting of rhyolites and andesites. Mineralization is associated with skarns and shears in volcanic rocks.
WORK DONE: EMGR 35.0 km;VLF
LINE 35.0 km
SOIL 504;multielement
MAGG 35.0 km
REFERENCES: A.R. 09003,11529
M.I. 092JSE008-EAGLE(AX,ZIP);092JSE009-LAKE(RED JACKET,AX,ZIP)

**** Sylvan ****

MINING DIV: *** ASSESSMENT REPORT 15409 INFO CLASS 4
LOCATION: LAT. 50 29 00 LONG. 122 42 00 NTS:
CLAIMS: Sylvan
OPERATOR: Mueller, G.
AUTHOR: Mueller, G.; Taylor, D.
DESCRIPTION: The claim appears to be underlain by Permo-Triassic Bridge River Group metavolcanics which are intruded by Upper Cretaceous Coast Range granites. Lenses of skarn contain massive pyrite and pyrrhotite mineralization with up to 46.6 grams of gold per tonne.
WORK DONE: SAMP 3;Au
SOIL 1 composite;Au
REFERENCES:

**** Owl Creek C Zone,Owl Creek B Zone,J ****

MINING DIV: Lillooet ASSESSMENT REPORT 15597 INFO CLASS 3
LOCATION: LAT. 50 23 36 LONG. 122 47 42 NTS:
CLAIMS: Owl,Owl 3,Owl 5
OPERATOR: George Res.
AUTHOR: Allen, D.
COMMODITIES: Copper,Molybdenum,Iron
DESCRIPTION: The claims are underlain by metamorphosed volcaniclastics and clastic rocks of the Upper Triassic Cadwallader Group which are intruded by granodiorite of the Spetch Creek pluton and smaller bodies of diorite and quartz diorite. Copper and molybdenum mineralization along Owl Creek is related to the diorite intrusions and skarn type iron-gold-cobalt-zinc occurs in roof pendants in the granodiorite.
WORK DONE: EMGR 11.3 km;VLF
MAGG 11.3 km
GEOL 1:5000
ROCK 15;multielement
SOIL 128;multielement

REFERENCES: A.R. 00599,02106,02624,04958,05292,
M.I. 092JSE006-OWL CREEK B ZONE;092JSE007-OWL CREEK C ZONE;
M.I. 092JSE018-J

**** Pemo ****

MINING DIV: *** ASSESSMENT REPORT 16534 INFO CLASS 4
LOCATION: LAT. 50 19 3 LONG. 122 49 18 NTS:
CLAIMS: Pemo 1
OPERATOR: Cominco
AUTHOR: Blackwell, J.; Fitzmaurice, T.
DESCRIPTION: The property covers metavolcanic rocks and diorite. Disseminated and stringer pyrite mineralization occurs in a sericite schist boulder. A copper soil anomaly with peak values of 2390 ppm underlies an area of 230 by 50 metres. The anomaly is roughly coincident with a band of sericite schist projected from the south.
WORK DONE: GEOL 1:5000
SOIL 53;Au,Ag,Pb,Zn,Cu
ROCK 8;Au,Ag,Pb,Zn,Cu
REFERENCES:

**** Bonanza ****

MINING DIV: Lillooet ASSESSMENT REPORT 15860 INFO CLASS 3
LOCATION: LAT. 50 38 30 LONG. 122 04 00 NTS:
CLAIMS: A. Noel
OPERATOR: Harlin Res.
AUTHOR: Cardinal, D.
COMMODITIES: Gold,Silver
DESCRIPTION: The property is underlain by the Permo-Triassic Bridge River Group. Locally, the rocks predominantly consist of argillites and argillaceous-calcareous phyllites. The argillite units are intensely sheared with tight recumbent folds. Auriferous bearing quartz-shear zones are hosted in argillites.
WORK DONE: SAMP 76;Au
DIAD 221.0 m;6 holes,BQ
GEOL 1:200
REFERENCES: A.R. 14146
M.I. 092JNE084-BONANZA

**** Conbra ****

MINING DIV: *** ASSESSMENT REPORT 15695 INFO CLASS 4
LOCATION: LAT. 50 42 06 LONG. 122 42 00 NTS:
CLAIMS: Conbra
OPERATOR: Newman, P.
AUTHOR:
COMMODITIES: Gold,Copper
DESCRIPTION: The claim is underlain by Upper Triassic sedimentary and volcanic rocks of the Pioneer and Hurley Formations. North trending quartz veins contain pyrrhotite, pyrite and chalcopyrite mineralization.
WORK DONE: PROS 1:5000
ROCK ;Au
SILT 5;Au

SOIL 10;Au
REFERENCES: M.I. 092JNE072-CONBRA

**** Goldfield ****

MINING DIV: Lillooet ASSESSMENT REPORT 16680 INFO CLASS 4
LOCATION: LAT. 50 44 45 LONG. 122 42 00 NTS:
CLAIMS: Goldfield I-III
OPERATOR: Coral Energy
AUTHOR: Sampson, C.
DESCRIPTION: The claims are underlain by cherts, cherty argillites and greenstones of the Permo-Triassic Bridge River Group which have been intruded by Upper Cretaceous Bendor granodiorites that form the high ground on the eastern side of the claims. The granodiorite-Bridge River Group contact dips southwest and much of the claim group is probably underlain by granodiorite at shallow depths. Trenching exposed pyrite-bearing fractures.
WORK DONE: GEOL 1:200
SAMP 91;Ag,Au
TREN 200.0 m;10 trenches
REFERENCES:

**** Paymaster ****

MINING DIV: *** ASSESSMENT REPORT 16281 INFO CLASS 4
LOCATION: LAT. 50 44 18 LONG. 122 44 42 NTS:
CLAIMS: Ione,Paymaster 2-3,Paymaster 8
OPERATOR: Lana Gold
AUTHOR: Butler, S.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Upper Triassic volcanics and sediments of the Noel, Pioneer, and Hurley Formations and intrusive rocks of the Upper Triassic Bralorne and President Intrusions.
WORK DONE: GEOL 1:2000
SOIL 72;multielement
ROCK 9;multielement
REFERENCES: A.R. 11942,13909,14383,15057
M.I. 092JNE010-PAYMASTER

**** Royal,Standard,Chalco 5,Chalco 12 ****

MINING DIV: Lillooet ASSESSMENT REPORT 15871 INFO CLASS 1
LOCATION: LAT. 50 43 12 LONG. 122 38 24 NTS:
CLAIMS: Unicorn 6,Bralorne Ext.,Bulldog 7,Butte-X-Cal,Chalco 5-6
Goldstream I-II,June 1-8,Lion 1,Mac 1-8,Peak,Royal 1-11
Royal A-C Fr.,Standard 1-2,Tom 1-3,Trail 2,Unicorn 4
OPERATOR: Armeno Res.
AUTHOR: Allen, D.; Brownlee, D.
COMMODITIES: Gold,Copper,Lead,Zinc,Tungsten,Silver,Molybdenum
DESCRIPTION: The claims are underlain by sedimentary and volcanic rocks of the Permo-Triassic Bridge River Group and Upper Triassic Cadwallader Group and a variety of intrusive rocks including diorite of the Upper Cretaceous Bendor Intrusions, diorite-greenstone of the Upper Triassic Bralorne Intrusions and altered ultramafic rocks of the Upper Triassic President Intrusions. Gold mineralization occurs disseminated in

metaquartzite adjacent to serpentinite dykes.
WORK DONE: DIAD 2150.0 m;17 holes,NQ
MAGG 46.0 km
SOIL 152;multielement
LINE 43.0 km
SAMP 986;Au,As
ROAD 5.8 km
TOPO 1:5000
IPOL 16.0 km
GEOL 1:5000
ROCK 181;multielement
EMGR 14.0 km;VLF
REFERENCES: A.R. 00105,08001,08878
M.I. 092JNE014-ROYAL;092JNE015-STANDARD;092JNE043-CHALCO 5;
092JNE044-CHALCO 12

**** Standard (L. 1940),Red Hawk,Royal (L.5650) **

MINING DIV: *** ASSESSMENT REPORT 16595 INFO CLASS 3
LOCATION: LAT. 50 42 18 LONG. 122 38 36 NTS:
CLAIMS: Tom 1-8,Pat 1-8,Peak,Royal,Royal 1-11,Royal A Fr.,Royal B Fr.
Royal C Fr.,Standard 2,Goldstream I-II,Goldstream Ext. I
Goldstream Ext. 2,Pie 1-2
OPERATOR: Armeno Res.
AUTHOR: Carpenter, T.H.; Haynes, L.

DESCRIPTION: CONFIDENTIAL STATUS

(Will be published in <u>Exploration in British Columbia, 1988</u>

**** Lil ****

MINING DIV: Lillooet ASSESSMENT REPORT 15571 INFO CLASS 3
LOCATION: LAT. 50 45 48 LONG. 123 35 06 NTS:
CLAIMS: Lil 1-4
OPERATOR: Placer Dev.
AUTHOR: Gareau, M.
DESCRIPTION: Paleozoic gneisses juxtapositioned against Lower Cretaceous andesitic-dacitic volcanics are intruded by stocks or plugs of granodiorite, quartz diorite or diorite. North trending dykes and shears cut the units. Pyrite and base metal mineralization with

associated clay alteration and silicification form numerous small occurrences in fractures, shears and veins.
WORK DONE: SOIL 105;multielement
HMIN 2;Au,Cu,Pb,Zn,Ag,As
ROCK 35;Au,Cu,Pb,Zn,Ag,As
SILT 18;Au,Cu,Pb,Zn,Ag,As
REFERENCES: A.R. 09321,10579,13476

**** Bill Miner's Gold ****

MINING DIV: *** ASSESSMENT REPORT 16282 INFO CLASS 3
LOCATION: LAT. 50 53 18 LONG. 122 42 12 NTS:
CLAIMS: Bill Miner's Gold I-II,Lads Gold
OPERATOR: La Ronge Res.
AUTHOR: Butler, S.; Di Spirito, F.
COMMODITIES: Gold
DESCRIPTION: The major rock unit is Permian-Triassic Bridge River Group metabasalt, meta-argillite and chert with some small limestone lenses in the sediments. Dykes are related to the Upper Cretaceous Bendor or Upper Triassic Bralorne Intrusions and a stock of Bralorne Intrusion.
WORK DONE: GEOL 1:10 000,1:1000
SOIL 65;multielement
ROCK 13;multielement
REFERENCES: M.I. 092JNE139-BILL MINER'S GOLD

**** LJ ****

MINING DIV: Lillooet ASSESSMENT REPORT 16637 INFO CLASS 3
LOCATION: LAT. 50 51 48 LONG. 122 44 04 NTS:
CLAIMS: LJ
OPERATOR: Hoyle Res.
AUTHOR: Sampson, C.
COMMODITIES: Antimony,Gold,Silver
DESCRIPTION: The claims are underlain by cherts, cherty argillites and greenstones of the Permian-Triassic Bridge River Group. Two mineralized shear zones carrying stibnite, arsenopyrite and gold are exposed on the southwest corner of the property. Zone 1 strikes 330 degrees, dips 10 to 20 degrees southwest and has been exposed over 17 metres strike length. Zone 2 strikes 030 degrees, dips 50 to 60 degrees northwest and has been exposed over 12 metres strike length.
WORK DONE: GEOL 1:5000
SOIL 276;Ag,As,Cu,Pb,Sb,Zn,Au
ROCK 203;Au,Ag,Sb
ROAD 5.0 km
TREN 150.0 m;11 trenches
REFERENCES: A.R. 14161
M.I. 092JNE138-LJ

**** Mary Mac North Zone,Mary Mac South Zone ****

MINING DIV: *** ASSESSMENT REPORT 15777 INFO CLASS 3
LOCATION: LAT. 50 51 00 LONG. 122 41 00 NTS:
CLAIMS: HJ,HJ 3-6

OPERATOR: Pilgrim Holdings
AUTHOR: Wynne, F.
COMMODITIES: Gold,Antimony,Molybdenum
DESCRIPTION: The property is underlain by metasediments and metavolcanics of the Permo-Triassic Bridge River Group. A number of feldspar poyphyry and feldspar hornblende poyphyry dykes intrude the older rocks and a large ultramafic body occurs along the baseline. Gold-antimony mineralization occurs in three known linear quartz-stibnite zones associated with strong shearing and silica-feldspar alteration. One of these , the South Zone, is about 200 metres long and 1 metre wide.
WORK DONE: SAMP 28;Au
ROAD 1.0 km
ROCK 131;Ag,Sb,Au
LINE 29.7 km
MAGG 27.9 km
GEOL 1:5000
TREN 523.0 m;17 trenches
SOIL 594;Au
EMGR 27.9 km;VLF
REFERENCES: A.R. 08697,09080,09746,11647
M.I. 092JNE067-MARY MAC NORTH ZONE;092JNE096-MARY MAC SOUTH ZONE

**** Mary Mac-South Zone,Mary Mac-Main Zone ****

MINING DIV: Lillooet ASSESSMENT REPORT 16378 INFO CLASS 3
LOCATION: LAT. 50 51 36 LONG. 122 41 00 NTS:
CLAIMS: HJ 3,HJ 5
OPERATOR: Pilgrim Holdings
AUTHOR: Dewonck, B.
COMMODITIES: Antimony,Gold,Molybdenum
DESCRIPTION: The claims are underlain by highly deformed metasediments and metavolcanics of the Permian-Triassic Bridge River Group and several northwest trending feldspar porphyry dykes and at least two small ultramafic bodies.
WORK DONE: SAMP 392;Au,Ag,As
DIAD 997.6 m;11 holes,NQ
REFERENCES: M.I. 092JNE067-MARY MAC-MAIN ZONE;092JNE096-MARY MAC-SOUTH ZONE

**** Ray ****

MINING DIV: *** ASSESSMENT REPORT 16367 INFO CLASS 4
LOCATION: LAT. 50 49 30 LONG. 122 32 00 NTS:
CLAIMS: Ray I-II,Raymond 1-2,Raymond 4
OPERATOR: Vortex Res.
AUTHOR: Knox, J.; Leighton, D.G.
DESCRIPTION: The property is underlain by Bridge River Group greenstones, cherty argillites, limestone and dioritic intrusives. North-trending shear zones are hydrothermally altered.
WORK DONE: SOIL 93;multielement
LINE 9.0 km
REFERENCES:

**** Rock ****

MINING DIV: Lillooet ASSESSMENT REPORT 16638 INFO CLASS 3

LOCATION: LAT. 50 49 09 LONG. 122 45 22 NTS:
CLAIMS: *Truax Gold II*
OPERATOR: Coral Energy
AUTHOR: Sampson, C.
COMMODITIES: Antimony,Silver,Gold
DESCRIPTION: The property is underlain by granodiorites of the Upper Cretaceous Bendor Intrusions and Permian-Triassic Bridge River Group cherts and volcanics. Showings consisting of northwest striking shallow dipping (20-30 degrees northeast) shear zones from 10-20 centimetres wide were exposed by trenching. Spectacular green and yellow ochres are derived from arsenic, antimony and copper concentrations.
WORK DONE: GEOL 1:2500,1:250
SOIL 720;Ag,As,Cu,Pb,Zn,Au
ROCK 32;Ag,Au
TREN 300.0 m;20 trenches
REFERENCES: M.I. 092JNE060-ROCK

**** Silverside ****

MINING DIV: *** ASSESSMENT REPORT 16283 INFO CLASS 3
LOCATION: LAT. 50 48 12 LONG. 122 33 42 NTS:
CLAIMS: Silverside Ext.
OPERATOR: Levon Res.
AUTHOR: Friesen, P.S.
DESCRIPTION: Jurassic-Triassic sediments and volcanics are intruded by granodiorite. Stibnite is often associated with intrusive rocks *related to the Upper Cretaceous Bendor Intrusions.*
WORK DONE: SOIL 211;multielement
LINE 10.8 km
REFERENCES:

**** Ty ****

MINING DIV: Lillooet ASSESSMENT REPORT 15502 INFO CLASS 4
LOCATION: LAT. 50 55 48 LONG. 122 41 36 NTS:
CLAIMS: TY
OPERATOR: Boitard, C.
AUTHOR: La Rue, J.
DESCRIPTION: The claim is underlain by rock assemblages of the Permian-Triassic Bridge River Group. The group includes chert, argillite, phyllite, greenstone, minor limestone and schist.
WORK DONE: GEOL 1:5000
REFERENCES: A.R. 14368

**** Will ****

MINING DIV: *** ASSESSMENT REPORT 16300 INFO CLASS 3
LOCATION: LAT. 50 51 42 LONG. 122 38 00 NTS:
CLAIMS: Will 1-4
OPERATOR: No.28 Sail View Ventures
AUTHOR: Dewonck, B.
DESCRIPTION: The claims are underlain by highly deformed metasediments and *metavolcanics of the Permian-Triassic Bridge River Group which are* intruded by several types of dykes and sills, some of which are

related to nearby Upper Cretaceous Coast Plutonic granitic stocks. Serpentinized ultramafic bodies in the southwest portion of the claim block appear to have listwanite zones.
WORK DONE: ROCK 28;Au
SILT 67;multielement
SOIL 639;multielement
REFERENCES:

**** Au ****

MINING DIV: Lillooet ASSESSMENT REPORT 16546 INFO CLASS 3
LOCATION: LAT. 50 55 18 LONG. 122 49 00 NTS:
CLAIMS: *Au 1-3*
OPERATOR: Petroflame Int. Res.
AUTHOR: Karchmar, K.
DESCRIPTION: The property is underlain by greenstones and sediments of the Permian-Triassic Bridge River Group that have been intruded by serpentinite bodies, felsic dykes and porphyry stocks.
Quartz-carbonate veining containing mariposite and pyrite occurs.
WORK DONE: SILT 17;multielement
ROCK 53;multielement
GEOL 1:5000
SOIL 615;multielement
REFERENCES:

**** Burt,Ernie ****

MINING DIV: *** ASSESSMENT REPORT 15417 INFO CLASS 3
LOCATION: LAT. 50 48 24 LONG. 122 53 06 NTS:
CLAIMS: Burt 1,Ernie 1
OPERATOR: Coral Energy
AUTHOR: Cooke, B.; Sandberg, T.
DESCRIPTION: The claims are thought to be underlain by northwest-trending west-dipping cherts and basalts of the Permo-Triassic Bridge River Group and argillites and andesites of the Upper Triassic Hurley Formation.
Anomalous geochemical and geophysical results were obtained *from the surveys.*
WORK DONE: MAGG 32.5 km
EMGR 32.5 km;VLF
SOIL 848;multielement
LINE 32.5 km
REFERENCES:

**** Emma ****

MINING DIV: Lillooet ASSESSMENT REPORT 16457 INFO CLASS 4
LOCATION: LAT. 50 45 36 LONG. 122 49 30 NTS:
CLAIMS: Emma
OPERATOR: Napa Res.
AUTHOR: Hill, A.; Jones, H.
DESCRIPTION: The claim is underlain by black argillaceous sediments with lesser cherty argillite, volcaniclastic wacke, sandstone and conglomerate of the Noel(?) and Hurley(?) Formations of Upper

Triassic age. They exhibit a wide range of attitudes, suggesting considerable local folding. A number of narrow quartz veins, barren of sulphides, occur at scattered locations. One short adit on the northern edge of the claim exposes a 4 metre wide quartz vein stockwork in argillite. Minor pyrite on vein margins was noted.
WORK DONE: GEOL 1:10 000
SILT 9;Au,Ag,Cu,Zn,As,Sb
ROCK 11;Au,Ag,Cu,Zn,As,Sb
REFERENCES: A.R. 08876,10087

**** Eva ****

MINING DIV: *** ASSESSMENT REPORT 16306 INFO CLASS 4
LOCATION: LAT. 50 56 48 LONG. 122 53 18 NTS:
CLAIMS: Eva 20
OPERATOR: Canamerica Precious Metals
AUTHOR: Fox, M.
DESCRIPTION: Permian-Triassic Bridge River Group cherts, argillites and volcanic rocks are cut by an extensive ultramafic mass.
WORK DONE: LINE 16.5 km
GEOL 1:10 000
REFERENCES:

**** G.G. ****

MINING DIV: Lillooet ASSESSMENT REPORT 15418 INFO CLASS 3
LOCATION: LAT. 50 50 48 LONG. 122 56 12 NTS:
CLAIMS: G.G. Fr.,G.G. North,G.G. West 1,G.G. West,Veritas
OPERATOR: Chalice Min.
AUTHOR: Hodgson, S.
DESCRIPTION: The claims are underlain by Middle Triassic Bridge River Group sediments and volcanics which are intruded by diorite to syenodiorite and ultramafic rocks.
Biogeochemical survey results returned anomalous zinc and gold values.
WORK DONE: BIOG 120;multielement
TOPO 1:4000
REFERENCES:

**** High Tor ****

MINING DIV: *** ASSESSMENT REPORT 15673 INFO CLASS 2
LOCATION: LAT. 50 54 54 LONG. 122 55 24 NTS:
CLAIMS: Gold Pass 10-14,High Tor 1-12,High Tor 2-3 Fr.,High Tor 5 Fr. High Tor Fr.,Lytton,Red Bluff 1-2,Surrey
OPERATOR: Noxe Petr.
AUTHOR: Cuttle, J.
DESCRIPTION: The claims are underlain by Upper Triassic Cadwallader Group and Middle Triassic Bridge River Group volcanic and sedimentary rocks, which are intruded by intermediate to mafic Jurassic-Triassic Bralorne Intrusions.
WORK DONE: GEOL 1:5000
EMGR 7.5 km;VLF
ROCK 48;multielement
SOIL 1800;multielement

REFERENCES: A.R. 08911,09927,13109,14864

**** Holland ****

MINING DIV: Lillooet ASSESSMENT REPORT 16682 INFO CLASS 4
LOCATION: LAT. 50 46 25 LONG. 122 45 20 NTS:
CLAIMS: Nomad
OPERATOR: Golden Webb Res.
AUTHOR: Lericne, P.; Scroggins, E.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by Triassic Pioneer greenstones and Permian-Triassic Bridge River Group sediments. An auriferous quartz vein up to 1 metre wide strikes 120 degrees and dips vertically. This vein has been traced for 18 metres in two crosscuts. Values range up to 5.1 grams/tonne gold.
WORK DONE: GEOL 1:5000
SOIL 30;multielement
ROCK 4;multielement
REFERENCES: A.R. 14621,15415
M.I. 092JNE008-HOLLAND

**** Holland ****

MINING DIV: *** ASSESSMENT REPORT 15415 INFO CLASS 4
LOCATION: LAT. 50 46 06 LONG. 122 45 24 NTS:
CLAIMS: Nomad,Winnifred,Holland,Jones,Alice
OPERATOR: Unicorn Res.
AUTHOR: Scroggins, E.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by Middle Triassic Bridge River Group sediments and volcanics.
Mineralization in quartz veins which occur in the volcanics include pyrite, arsenopyrite and stibnite. Rock chip geochemistry returned anomalous gold values.
WORK DONE: PROS 1:5000
ROCK 16;multielement
REFERENCES: A.R. 14621
M.I. 092JNE008-HOLLAND

**** Little Gem ****

MINING DIV: Lillooet ASSESSMENT REPORT 15451 INFO CLASS 3
LOCATION: LAT. 50 53 48 LONG. 122 57 00 NTS:
CLAIMS: Little Gem 4
OPERATOR: Anvil Res.
AUTHOR: Lammle, R.
COMMODITIES: Cobalt,Gold,Uranium
DESCRIPTION: The claim is underlain by hornblende-biotite quartz diorite of the Upper Cretaceous Bendor Intrusions. Cobaltiferous and auriferous arsenopyrite and allanite mineralization occur in fault controlled veins.
WORK DONE: DIAD 373.8 m;2 holes,BQ
REFERENCES: A.R. 07704
M.I. 092JNE068-LITTLE GEM

**** Rose Gold ****

MINING DIV: *** ASSESSMENT REPORT 16519 INFO CLASS 4
LOCATION: LAT. 50 50 48 LONG. 122 55 12 NTS:
CLAIMS: Rose Gold
OPERATOR: Interex Res.
AUTHOR: Larue, J.
DESCRIPTION: The claim is underlain by felsic to intermediate volcanics, Upper Triassic Bralorne Intrusives and serpentinite.
WORK DONE: EMGR 7.2 km;VLF
SOIL 78;multielement
MAGG 5.6 km
ROAD 1.5 km
LINE 3.9 km
REFERENCES:

**** Victory ****

MINING DIV: Lillooet ASSESSMENT REPORT 16004 INFO CLASS 4
LOCATION: LAT. 50 51 00 LONG. 122 55 00 NTS:
CLAIMS: Victory
OPERATOR: Chalice Mln.
AUTHOR: Hodgson, S.
DESCRIPTION: Triassic sediments and volcanics have undergone three or more intrusion episodes.
WORK DONE: TOPO 1:4000
PROS 1:4000
SAMP 12;multielement
REFERENCES: A.R. 08234,11660,14892

**** King ****

MINING DIV: *** ASSESSMENT REPORT 16203 INFO CLASS 3
LOCATION: LAT. 50 46 06 LONG. 122 12 24 NTS:
CLAIMS: Matson 1-12,Matson 14-15
OPERATOR: Kelso Res.
AUTHOR: Fairley, J.; Krohman, D.
COMMODITIES: Lead,Zinc,Gold,Silver
DESCRIPTION: The claims are underlain by sedimentary and metasedimentary rocks of the Permian-Triassic Bridge River Group which are intruded by Upper Cretaceous Coast Range granodiorite. The mineralization is associated with shear zones in the Bridge River Group and consists of arsenopyrite, galena, sphalerite, pyrite and chalcopyrite. Chloritization and silicification are abundant.
WORK DONE: MNGR 1polished section
GEOL 1:5000,1:2500
MAGG 27.0 km
ROCK 133;multielement
SOIL 904;multielement
EMGR 27.0 km;VLF
LINE 30.9 km
PITS 5
REFERENCES: A.R. 12755,14326

M.I. 092JNE126-KING

**** Eagle,Red Eagle ****

MINING DIV: Lillooet ASSESSMENT REPORT 16280 INFO CLASS 4
LOCATION: LAT. 50 56 00 LONG. 122 16 48 NTS:
CLAIMS: Gold Eagle
OPERATOR: Mesa Res.
AUTHOR: Isaak, A.
COMMODITIES: Mercury
DESCRIPTION: The area is underlain by 3 main rock groups: (1) Permian-Triassic Bridge River Group (2) Lower Cretaceous Relay Mountain Group and (3) Jackass Mountain Group (Lower Cretaceous). The area lies within the Yalokom Fault zone, a series of northwest trending faults.
WORK DONE: ROCK 6;multielement
PROS 1:6250
LINE 2.0 km
REFERENCES: M.I. 092JNE062-EAGLE;092JNE078-RED EAGLE

**** Lisa.Dawn ****

MINING DIV: *** ASSESSMENT REPORT 16202 INFO CLASS 4
LOCATION: LAT. 50 51 42 LONG. 122 20 12 NTS:
CLAIMS: Lisa Dawn 1-3
OPERATOR: Hilton, F.
AUTHOR: Brewer, L.
DESCRIPTION: The claims are underlain by Tertiary quartz diorite porphyry intrusives and Permian-Triassic Bridge River Group sediments and volcanics.
WORK DONE: LINE 9.1 km
SOIL 51;multielement
REFERENCES:

**** Shulaps ****

MINING DIV: Lillooet ASSESSMENT REPORT 16445 INFO CLASS 3
LOCATION: LAT. 50 54 00 LONG. 122 28 42 NTS:
CLAIMS: Miss.Swiss
OPERATOR: Brewer, L.
AUTHOR: Brewer, L.
COMMODITIES: Gold,Silver
DESCRIPTION: An oxidized silver-gold-bearing quartz vein occurs in a quartz diorite. Slaty rocks of the Permian-Triassic Bridge River Group are also evident.
WORK DONE: SOIL 213;Au
SILT 18;Au
ROCK 6;Au
PROS 1:5000
REFERENCES: M.I. 092JNE088-SHULAPS

**** Spokane ****

MINING DIV: *** ASSESSMENT REPORT 15612 INFO CLASS 3
LOCATION: LAT. 50 52 42 LONG. 122 22 18 NTS:

CLAIMS: Columbia (L.1122),Shamrock (L.1123),Golden Stripe (L.1124) Mascot Fr.,Susan 1,Jah 1
OPERATOR: Enexco Int.
AUTHOR: Solkoski, L.
COMMODITIES: Gold,Silver,Bismuth,Copper,Tungsten
DESCRIPTION: The claims are underlain in part by the Upper Cretaceous Coast Plutonic Complex and volcanic and sedimentary rocks of the Permian-Triassic Bridge River Group. Mineralization of gold tellurides, chalcopyrite, pyrrhotite and pyrite occur in dyke-like and/or gash-type quartz veins.
Diamond drilling results suggest that the tenor and grade of mineralization may indicate a potential for economic gold-silver mineralization.
WORK DONE: TREN 80.0 m;2 trenches
ROCK 11;Au,Ag,Cu,Bi
ROAD 6.0 km
GEOL 1:1500
SAMP 41;multielement
DIAD 304.9 m;7 holes,NQ
REFERENCES: A.R. 11502,13182
M.I. 092JNE034-SPOKANE

**** Spokane ****

MINING DIV: Lillooet ASSESSMENT REPORT 15948 INFO CLASS 3
LOCATION: LAT. 50 51 30 LONG. 122 21 00 NTS:
CLAIMS: Columbia (L.1122),Goldenstripe (L.1124),Jah 1-9,Mascot (L.1125) Shamrock (L.1123),Susan 1-4,Susan 5,Susan 6,Susan 7 Fr.
OPERATOR: Enexco Int.
AUTHOR: Brewer, L.
COMMODITIES: Gold,Silver,Bismuth,Copper,Tungsten
DESCRIPTION: Quartz veins occur in fissures and at the contact of rocks of the Bridge River Group and Shulaps untramafic units. The quartz veins and skarn are hosts to gold-bearing sulphide mineralization.
WORK DONE: MAGA 426.3 km
EMAB 426.3 km;VLF
REFERENCES: A.R. 11502,13182,15612
M.I. 092JNE034-SPOKANE

**** Val Ore ****

MINING DIV: *** ASSESSMENT REPORT 15950 INFO CLASS 3
LOCATION: LAT. 50 54 00 LONG. 122 20 00 NTS:
CLAIMS: Ore,Val
OPERATOR: Bay Res.
AUTHOR: Bishop, S.
DESCRIPTION: The Val Ore property is situated on the eastern margin of the Coast Plutonic Complex and is underlain, in part by intrusives of this complex. Granodiorite and hornblende-feldspar porphyry intrude metasedimentary rocks of the Bridge River Group and ultramafic bodies of the Shulaps Ultramafite. Soil samples contain up to 135 ppb gold, 6 ppb platinum, and 1 850 ppm nickel.
WORK DONE: LINE 7.5 km
SOIL 373;multielement
REFERENCES:

**** YZ,Condor,Gold Exchange ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16143 INFO CLASS 4
LOCATION: LAT. 50 09 12 LONG. 125 13 18 NTS:
CLAIMS: Nat 1,Nat 26,Nat 5,Nat 7
OPERATOR: Campbell, C.
AUTHOR:
COMMODITIES: Copper,Molybdenum,Gold,Antimony,Mercury
DESCRIPTION: The claims are underlain by Upper Triassic Quatsino Formation limestone with granitic rocks of the Upper Cretaceous Coast Plutonic Complex to the east and Upper Triassic Karmutsen Formation volcanics to the west. Geochemical, geological and geophysical surveys resulted in the location of significant gold mineralization and an epithermal zone.
WORK DONE: SILT 2;multielement
ROCK 86;multielement
SPOT 6.7 km
SOIL 23;multielement
REFERENCES: M.I. 092K 099-CONDOR;092K 100-GOLD EXCHANGE;092K 101-YZ

**** Nat 4 ****

MINING DIV: *** ASSESSMENT REPORT 16142 INFO CLASS 3
LOCATION: LAT. 50 12 42 LONG. 125 16 18 NTS:
CLAIMS: Nat 3-4,Nat 10-12,Nat 17,Nat 18 Fr.,Nat 20 Fr.
OPERATOR: Campbell, C.
AUTHOR:
COMMODITIES: Copper,Gold,Silver,Tungsten,Zinc
DESCRIPTION: The claims are underlain by Upper Triassic Quatsino Formation limestone with granitic rocks of the Upper Cretaceous Coast Plutonic Complex to the west. Geochemical, geophysical and geological surveys resulted in the location of significant skarn type copper-gold mineralization on the Nat 4 mineral claim.
WORK DONE: ROCK 50;multielement
MAGG 11.5 km
GEOL 1:5000
SOIL 24;multielement
SPOT 12.0 km
LINE 12.0 km
REFERENCES: M.I. 092K 141-NAT 4

**** White Pine ****

MINING DIV: Vancouver ASSESSMENT REPORT 15589 INFO CLASS 3
LOCATION: LAT. 50 26 18 LONG. 125 21 30 NTS:
CLAIMS: Bick 3-4
OPERATOR: Verdstone Gold
AUTHOR: Blanchflower, J.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Paleozoic schists, greenstones, augite porphyry and gneiss of greenschist to amphibolite grade metamorphism, and fine to coarse-grained quartz dioritic to granodioritic intrusive rocks of the Upper Cretaceous Coast Plutonic

Complex. Gold and silver-bearing sulphide mineralization occurs in quartz veins, which are controlled by northeasterly to northwesterly trending fault and shear structures.
WORK DONE: EMGR 5.1 km;VLF
SOIL 114;multielement
LINE 5.9 km
REFERENCES: M.I. 092K 036-WHITE PINE

**** Lagoon (Colossus) ****

MINING DIV: *** ASSESSMENT REPORT 15919 INFO CLASS 3
LOCATION: LAT. 50 32 00 LONG. 125 12 00 NTS:
CLAIMS: Blue Bell (L.258),Colossus (L.256),Portage (L.259),Colossas
OPERATOR: Sancono Ventures
AUTHOR: Di Spirito, F.; St. Pierre, M.
COMMODITIES: Copper,Silver,Gold,Molybdenum
DESCRIPTION: The property is underlain by Upper Cretaceous Coast Range granodiorite which has been cut by northerly and northeasterly trending mafic dykes and quartz veins. The milky quartz veins, which are up to 5 metres wide, contain pyrite, chalcopyrite and molybdenite.
WORK DONE: SOIL 167;multielement
MAGA 112.0 km
EMGR 8.6 km;VLF
LINE 10.4 km
EMAB 112.0 km;VLF
MAGG 4.1 km
ROCK 75;multielement
GEOL 1:250
REFERENCES: A.R. 00317,09346
M.I. 092K 029-LAGOON (COLOSSUS)

**** Commonwealth ****

MINING DIV: Vancouver ASSESSMENT REPORT 15952 INFO CLASS 3
LOCATION: LAT. 50 32 00 LONG. 125 26 00 NTS:
CLAIMS: Cog
OPERATOR: Charlemagne Res.
AUTHOR: Hardy, J.; Holtby, M.H.
COMMODITIES: Gold,Silver
DESCRIPTION: The property is underlain by northwest trending blocks of Triassic and older mixed volcanics and sediments bounded by granodiorite of the Coast Plutonic Complex. Drilling penetrated quartz-veined granodiorite yielding up to 8.06 grams per tonne gold.
WORK DONE: SAMP 102;Au,Ag,Cu,Pb,Zn
DIAD 152.7 m;2 holes,BQ
REFERENCES: A.R. 12577
M.I. 092K 025-COMMONWEALTH

Alert Bay 092L

**** Fil ****

MINING DIV: Alberni ASSESSMENT REPORT 15903 INFO CLASS 3
LOCATION: LAT. 50 01 00 LONG. 127 06 00 NTS:

CLAIMS: Amai Gold
OPERATOR: Thomson Gold
AUTHOR: Wares, R.
COMMODITIES: Gold,Copper,Zinc
DESCRIPTION: Northerly trending shear zones that cut Jurassic granodiorite are loci of silicification and alteration. The shears contain sheeted quartz veins that carry visible gold over widths from 10 centimetres to 0.50 metres. The sheeted zones dip more than 75 degrees and exhibit continuity up to 150 metres laterally and 50 metres vertically.
WORK DONE: DIAD 549.8 m;6 holes,BDQ
SAMP 50;Ag,Au
REFERENCES: A.R. 07062,14369,15079
M.I. 092L 033-FIL

**** Scrutor Gold ****

MINING DIV: *** ASSESSMENT REPORT 15562 INFO CLASS 4
LOCATION: LAT. 50 09 00 LONG. 127 02 00 NTS:
CLAIMS: Scrutor Gold 2
OPERATOR: MineQuest Ex. Assoc.
AUTHOR: Gourlay, A.
DESCRIPTION: The claim is underlain by Lower Jurassic Bonanza Group intermediate volcanic rocks, massive andesite, feldspar porphyritic crystal tuff, rhyolite and argillaceous sedimentary rocks.
WORK DONE: GEOL 1:10 000
SILT 34;multielement
REFERENCES: A.R. 14618

**** Easy,On,BP,KYU ****

MINING DIV: Alberni ASSESSMENT REPORT 15521 INFO CLASS 2
LOCATION: LAT. 50 09 54 LONG. 127 23 18 NTS:
CLAIMS: Sin 1-3,Sin 6,Lor 3-5,Mar 2
OPERATOR: Taywin Res.
AUTHOR: Rebagliati, C.M.
COMMODITIES: Copper,Iron,Zinc,Gold,Silver
DESCRIPTION: Quartz veins, stringers and zones of silicification occur in faults near the Upper Triassic-Lower Jurassic Parson Bay Formation sedimentary contact with overlying Lower Jurassic Bonanza Group andesitic green to maroon volcanic and epiclastic rocks. Subvolcanic dacite and quartz diorite dykes intrude the Bonanza Group rocks. Extensive pyrophyllite occurs as local alteration.
WORK DONE: TREN 60.0 km;1 trench
GEOL 1:5000,1:200
ROCK 104;Au,Ag
LINE 26.1 km
SOIL 909;multielement
REFERENCES: A.R. 03008,11664,12745
M.I. 092L 174-KYU;092L 201-BP;092L 202-EASY;092L 203-ON

**** Teeta ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16552 INFO CLASS 4
LOCATION: LAT. 50 23 06 LONG. 127 29 42 NTS:

CLAIMS: Teeta 1
OPERATOR: Esso Res. Can.
AUTHOR: Melnyk, W.
DESCRIPTION: The claim is underlain by porphyritic volcanics, tuffaceous sediments and epiclastic volcanic conglomerates of the Lower Jurassic Bonanza Group. These rocks have been intruded by monzonite and hornblende diorite of the Lower-Middle Jurassic Island Intrusions. Locally the volcanic and intrusive rocks are weakly pyritic and sericitic.
WORK DONE: SILT 13;multielement
ROCK 8;multielement
SOIL 42;multielement
REFERENCES:

**** Leo Dor ****

MINING DIV: *** ASSESSMENT REPORT 16111 INFO CLASS 4
LOCATION: LAT. 50 23 42 LONG. 126 48 00 NTS:
CLAIMS: Leo Dor
OPERATOR: Madari, M.
AUTHOR: Rychter, A.
DESCRIPTION: The claim is underlain by Upper Triassic massive marble in places intersected by volcanic dykes 0.3 to 1.8 metres wide. No mineralization was observed.
WORK DONE: PROS 1:8333
REFERENCES: A.R. 14937

**** Pluto ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15884 INFO CLASS 3
LOCATION: LAT. 50 35 00 LONG. 127 23 00 NTS:
CLAIMS: Pluto
OPERATOR: BHP-Utah Mines
AUTHOR: Clarke, G.
DESCRIPTION: From south to north the underlying succession, dipping gently southward, from top to bottom is the Bonanza Group pyroclastic volcanics, Parson Bay calcareous siltstones, shales and limstone with shaley interbeds, Quatsino limestone and Karmutsen amygdaloidal basalt. Copper mineralization has not been detected in the immediate area.
WORK DONE: SAMP 15;Cu,Mo,Pb,Zn,Au,Ag
DIAD 304.8 m;1 hole,NQ
REFERENCES:

**** Rupert ****

MINING DIV: *** ASSESSMENT REPORT 16510 INFO CLASS 3
LOCATION: LAT. 50 35 48 LONG. 127 24 42 NTS:
CLAIMS: Val,Car 12,Dog 1-2,Expo 1 Fr.,Expo 30-32,Expo 51,Expo 53-56,Jim 10 Mary,Moon,R 2-5,Rupert 1-2,Rupert 9-15,Snafu,Spam 28 Fr.,Sun
OPERATOR: BHP-Utah Mines
AUTHOR: Fleming, J.
DESCRIPTION: The Upper Triassic and Lower Jurassic volcanic and sedimentary succession of the Vancouver and Bonanza Groups underlie the area. The Jurassic porphyritic granodioritic Rupert Stock underlies the

southern half of the survey area with the contact south of hole R-17 which intersected Parson Bay sediments. Two main anomaly groupings resulted from the survey with predominately base metal, multielement anomalies on the west side around hole R-17 and single element base metal and gold anomalies on the east side of the survey area. A nearby source of the anomalies associated with the Rupert Stock boundary is suggested.
WORK DONE: SOIL 143;multielement
REFERENCES: A.R. 05102,06056,11460

**** Bay ****

MINING DIV: Nanaimo ASSESSMENT REPORT 16687 INFO CLASS 3
LOCATION: LAT. 50 37 44 LONG. 127 31 10 NTS:
CLAIMS: Bay 65-70,Bay 84-88,Ben 1 Fr.,Ben Fr.,Bob 1-2,Cork Fr.,QL 1-2
OPERATOR: BHP-Utah Mines
AUTHOR: Clarke, G.; Fleming, J.
DESCRIPTION: CONFIDENTIAL STATUS

**** Bay 56 ****

MINING DIV: *** ASSESSMENT REPORT 16152 INFO CLASS 3
LOCATION: LAT. 50 37 42 LONG. 127 31 00 NTS:
CLAIMS: Bar Fr.
OPERATOR: BHP-Utah Mines
AUTHOR: Clarke, G.; Fleming, J.
DESCRIPTION: CONFIDENTIAL STATUS

**** Bay 70 ****

MINING DIV: Nanaimo ASSESSMENT REPORT 14777 INFO CLASS 3
LOCATION: LAT. 50 38 00 LONG. 127 31 00 NTS:
CLAIMS: Bar,Bar Fr.,Bay 50,Bee 1-2,Bim 1-4,Car 3,Cork Fr.,Fl Fr.,Ken 1-8

Key Fr.,Lake,Ruby,Slim Fr.,Spam 1 Fr.,Tar 2
OPERATOR: BHP-Utah Mines
AUTHOR: Fleming, J.
DESCRIPTION: CONFIDENTIAL STATUS

**** Prince's ****

MINING DIV: *** ASSESSMENT REPORT 16139 INFO CLASS 4
LOCATION: LAT. 50 37 18 LONG. 127 43 00 NTS:
CLAIMS: Stat 1-3,Wanda 24,Wanda 6
OPERATOR: Rochester Min.
AUTHOR: Dasler, P.G.
COMMODITIES: Iron
DESCRIPTION: *Jurassic-Cretaceous intrusives occur within Lower Jurassic* Bonanza Group volcanics.
WORK DONE: HMIN 11;Au,Ag
PROS 1:50 000
REFERENCES: A.R. 02190,03400,03958,04000,04754,05262,05345,11132,12302,13389
M.I. 092L 088-PRINCE'S

**** Stat-Wanda ****

MINING DIV: Nanaimo ASSESSMENT REPORT 15876 INFO CLASS 3
LOCATION: LAT. 50 37 00 *LONG.* 127 45 00 *NTS:*
CLAIMS: Stat 1-2,Wanda 16-17,Wanda 19-20,Wanda 22-23
OPERATOR: Pearson, B.
AUTHOR: Pearson, B.
DESCRIPTION: The claims are underlain by Jurassic volcanics of the Bonanza sequence, which range from andesitic to rhyolitic in composition. There are extensive zones of propylitic and advanced argillic alteration and silicification. Pyrite is ubiquitous, both as disseminations and as conformable and vein deposits. Several small intrusives are of much younger age.
WORK DONE: *SOIL 147;multielement*
ROCK 16;multielement
REFERENCES: A.R. 03402,04754

**** HPH 1,HPH 2,HPH 3 ****

MINING DIV: *** ASSESSMENT REPORT 16347 INFO CLASS 4
LOCATION: LAT. 50 41 30 LONG. 127 47 30 NTS:
CLAIMS: HPH 1-3
OPERATOR: Hisway Min.
AUTHOR: Wilson, E.; Zimmerman, R.
COMMODITIES: Silver,Lead,Zinc,Iron
DESCRIPTION: Massive galena and sphalerite occur as replacements in steeply southwest dipping limestones. A reserve of approximately 10 000 tonnes is proven.
WORK DONE: MAGG 0.4 km
EMGR 0.4 km;VLF
RADG 0.4 km
SAMP 9;Pb,Zn,Ag
REFERENCES: A.R. 00030,00870,02205,02796,03055,03609,03954,04180,04472,07566
M.I. 092L 069-HPH 1;092L 241-HPH 2;092L 242-HPH 3

Mount Waddington 092N

**** JRPM ****

MINING DIV: Clinton ASSESSMENT REPORT 15914 INFO CLASS 3
LOCATION: LAT. 51 19 00 LONG. 124 21 00 NTS:
CLAIMS: JRPM 1-3
OPERATOR: Noranda Ex.
AUTHOR: Helsen, J.
DESCRIPTION: The area consists of andesitic to basaltic breccias and tuffs (Kingsvale Group) of Cretaceous age, and underlying Triassic sediments and volcanics. Some pyrite mineralization was found as dissemination and in stockwork. Some andesite volcanic rocks contain *abundant secondary iron oxides. Anomalies, so far, occur in sediments* and pans only.
WORK DONE: SILT 10;Au,Ag,Cu,Pb,Zn
GEOL 1:50 000
ROCK 24;multielement
HMIN 9;Au,Ag,Cu,Pb,Zn
REFERENCES:

**** AT ****

MINING DIV: *** *ASSESSMENT REPORT 16688* *INFO CLASS 4*
LOCATION: LAT. 51 30 26 LONG. 124 43 04 NTS:
CLAIMS: AT 2
OPERATOR:
AUTHOR:
COMMODITIES: Copper,Nickel
DESCRIPTION: Near the contact of the Upper Cretaceous Coast Batholith and Triassic volcanics, several zones of magmatic segregation in the intrusive rocks contain copper-nickel-cobalt sulphide mineralization. Minor amounts of platinum are present. Copper bearing veins occur in the Triassic rocks.

WORK DONE: ROCK 18;multielement
PROS 1:5000
REFERENCES: M.I. 092N 048-AT

**** Big Bar ****

MINING DIV: Clinton ASSESSMENT REPORT 16049 INFO CLASS 4
LOCATION: LAT. 51 10 00 LONG. 122 07 54 NTS:
CLAIMS: Edge 1
OPERATOR: Hudson Bay Ex. & Dev.
AUTHOR: Strosnein, R.
COMMODITIES: Gold
DESCRIPTION: Upper Cretaceous Kingsvale Group volcanics are in fault contact with Tertiary intermediate to felsic volcanics. Mineralized quartz-carbonate veins occur in gossanous or argillically altered zones with values up to 1960 ppb gold and 8.2 ppm silver.
WORK DONE: ROCK 18;multielement
REFERENCES: A.R. 08142
M.I. 092O 091-BIG BAR

**** Chisholm (Sunbeam) ****

MINING DIV: *** ASSESSMENT REPORT 16303 INFO CLASS 4
LOCATION: LAT. 51 08 00 LONG. 122 14 54 NTS:
CLAIMS: Brent
OPERATOR: Chevron Min.
AUTHOR: Lisle, T.
DESCRIPTION: The claims are underlain by sandstone and argillite of the Cretaceous Jackass Mountain Group. Near the eastern margin the sediments are intruded by dykes and sills of quartz feldspar porphyry. Lenses and seams of stibnite occur along and near the contacts of a quartz feldspar porphyry sill.
WORK DONE: GEOL 1:10 000,1:500
SOIL 33;multielement
ROCK 11;multielement
ROAD 1.1 km
REFERENCES: M.I. 092O 056-CHISHOLM (SUNBEAM)

**** Second ****

MINING DIV: Clinton ASSESSMENT REPORT 16666 INFO CLASS 4
LOCATION: LAT. 51 02 34 LONG. 122 03 14 NTS:
CLAIMS: Second 1-2,Second 4-5,Ulcer
OPERATOR: Durfeld, R.
AUTHOR: McClintock, J.
DESCRIPTION: The property straddles a northerly trending splay of the Fraser River Fault that brings in contact clastic sedimentary rocks of the Cretaceous Jackass Mountain Group with basaltic to rhyolitic volcanic rocks of Eocene age. A small plug of Upper Cretaceous-Lower Tertiary granodiorite intrudes the Jackass Mountain Group. A 2.5 kilometre by 500 metre wide zone of intense silicification and argillization occurs in the Jackass Mountain Group rocks and granodiorite. This

zone parallels the main fault.
WORK DONE: GEOL 1:5000
SOIL 9;multielement
SILT 3;multielement
HMIN 3;multielement
REFERENCES:

**** Stirrup ****

MINING DIV: *** ASSESSMENT REPORT 16293 INFO CLASS 3
LOCATION: LAT. 51 06 00 LONG. 122 12 00 NTS:
CLAIMS: Stirrup
OPERATOR: Horne, E.
AUTHOR: Horne, E.
DESCRIPTION: Placer gold and gold values in soil and cyanogenic plants are known to occur in the general area. The source of the gold is still unknown. The area is underlain by rocks of the Jackass Mountain Group and some intrusive diorite and porphyry.
WORK DONE: SOIL 263;Au
LINE 8.5 km
REFERENCES: A.R. 12786,15176

**** Sven,Stir ****

MINING DIV: Clinton ASSESSMENT REPORT 16287 INFO CLASS 3
LOCATION: LAT. 51 06 48 LONG. 122 12 30 NTS:
CLAIMS: Stir,Sven
OPERATOR: Cazador Ex.
AUTHOR: Lammle, C.A.R.
DESCRIPTION: Jackass Mountain Group (Cretaceous) rocks are intruded by leucocratic quartz feldspar porphyry and several mafic dykes with associated argillic alteration. Possible gold mineralization may occur in faults and fractures.
WORK DONE: SOIL 330;Au,Hg,As,Pb
REFERENCES:

**** Ave ****

MINING DIV: Lillooet ASSESSMENT REPORT 16084 INFO CLASS 3
LOCATION: LAT. 51 03 06 LONG. 122 55 36 NTS:
CLAIMS: Ave 5
OPERATOR: Hillside Energy
AUTHOR: Croft, S.
DESCRIPTION: The Ave claims are underlain by a complex sequence of Mesozoic sedimentary and volcanic rocks situated between the Yalakom and Taseko Fault systems. The sequence is intruded by Eocene felsite and feldspar porphyry stocks and dykes. Epithermal mineralization accompanies shearing, contact metamorphism and intense alteration in the vicinity of a steeply dipping, northwesterly trending porphyry dyke system on the north bank of Tyaughton Creek.
WORK DONE: SAMP 56;Au
DIAD 182.9 m;1 hole,BQ
REFERENCES:

**** Eva ****

MINING DIV: *** ASSESSMENT REPORT 16091 INFO CLASS 4
LOCATION: LAT. 51 01 24 LONG. 122 45 42 NTS:
CLAIMS: Eva 12
OPERATOR: Hillside Energy
AUTHOR: Sadlier-Brown, T.
DESCRIPTION: The claim is underlain by the Taylor Creek Group, a Lower Cretaceous sequence of conglomerate, sandstone and shale. The area is characterized by a number of faults including an inferred arcuate fracture system which lies on and near the Eva 12 claim and which may influence deposition of epithermal style gold and other mineral-ization.
WORK DONE: SOIL 72;Au
MAGG 2.0 km
REFERENCES:

**** XYZ,8 ****

MINING DIV: Clinton ASSESSMENT REPORT 16467 INFO CLASS 3
LOCATION: LAT. 51 11 00 LONG. 122 57 00 NTS:
CLAIMS: Dash 1,Dash 3,Relay 3-5
OPERATOR: Esso Res. Can.
AUTHOR: Melnyk, W.
COMMODITIES: Gold,Copper,Molybdenum
DESCRIPTION: The Relay claims are underlain by Lower Cretaceous Taylor Creek volcanics and sediments surrounded by and in fault contact with Upper Cretaceous Kingsvale sediments. The Taylor Creek rocks are intruded by a large swarm of porphyry dykes and sills of Tertiary age. Low grade gold mineralization is hosted by feldspar porphyry dykes altered to quartz-carbonate-sericite and pyrite.
WORK DONE: GEOL 1:2500
IPOL 7.0 km
SOIL 658;multielement
REFERENCES: A.R. 03179,03829,03830,04597,08243
M.I. 092O 064-XYZ;092O 065-8

**** Big Creek ****

MINING DIV: *** ASSESSMENT REPORT 15486 INFO CLASS 3
LOCATION: LAT. 51 10 48 LONG. 123 09 36 NTS:
CLAIMS: Big Creek 1-2
OPERATOR: Esso Res. Can.
AUTHOR: Britton, R.; Marsden, H.
COMMODITIES: Zinc,Gold,Silver,Copper,Argillite
DESCRIPTION: Upper Cretaceous Kingsvale Group andesitic pyroclastics host a zone of pervasive quartz-sericite-pyrite and carbonate-sericite-quartz pyrite alteration 700 metres by 200 metres.
WORK DONE: SAMP 17;multielement
LINE 21.1 km
GEOL 1:10 000,1:5000
TREN 15.0 m;4 trenches
ROCK 17;multielement

MAGG 16.0 km
EMGR 16.0 km;VLF
SOIL 380;multielement
REFERENCES: M.I. 092O 097-BIG CREEK

**** Thunder ****

MINING DIV: Clinton ASSESSMENT REPORT 16340 INFO CLASS 4
LOCATION: LAT. 51 09 06 LONG. 123 03 30 NTS:
CLAIMS: Thunder 3-6
OPERATOR: British Lion Mines
AUTHOR: MacFarlane, H.
DESCRIPTION: The claims are underlain by the Lower Cretaceous Relay Mountain Group consisting of steeply northeast-dipping siltstone and shale. A quartz-monzonite pluton and dykes intrude the sediments. An extensive pyritic hornfelsed aureole is developed.
WORK DONE: HMIN 41;Au,Ag
REFERENCES: A.R. 09441,11575,12535

**** Battlement Creek ****

MINING DIV: *** ASSESSMENT REPORT 16309 INFO CLASS 3
LOCATION: LAT. 51 06 54 LONG. 123 18 48 NTS:
CLAIMS: An,An 3,Bluff 1-2,Bluff 9
OPERATOR: Esso Res. Can.
AUTHOR: Britten, R.; Melnyk, W.
DESCRIPTION: The Taseko Property is underlain by Upper Cretaceous Kingsvale Group andesite flows and pyroclastics intercalated with lesser amounts of sedimentary rocks including argillite and conglomerate. Widespread zones of intense silicification, advanced argillic and alunitic alteration occur on the property. Anomalous rock gold geochemistry occurs in some of the intensely altered zones.
WORK DONE: DIAD 434.9 m;2 holes,NQ
SAMP 154;multielement
ROAD 6.9 km
REFERENCES: A.R. 14902
M.I. 092O 005-BATTLEMENT CREEK

**** Hon ****

MINING DIV: Clinton ASSESSMENT REPORT 15979 INFO CLASS 3
LOCATION: LAT. 51 06 48 LONG. 123 28 30 NTS:
CLAIMS: Hon 1-2
OPERATOR: Esso Min. Can.
AUTHOR: Britten, R.; Melnyk, W.
DESCRIPTION: The claims are underlain by north-dipping Upper Cretaceous Kingsvale Group pyroclastic and porphyritic volcanic rocks of intermediate composition. Broad areas of intense silicification and advanced argillic alteration occur on the property and represent preferentially replaced porous pyroclastic volcanic units.
WORK DONE: MAGG 22.8 km
EMGR 22.8 km;VLF
SOIL 157;multielement
GEOL 1:5000
REFERENCES: A.R. 11676

**** Taseko ****

MINING DIV: *** ASSESSMENT REPORT 15676 INFO CLASS 3
LOCATION: LAT. 51 06 00 LONG. 123 24 00 NTS:
CLAIMS: Babbling Brook,Flapjack No.1-2,Perfect Day,Taseko 65-66,Taseko 75-89
OPERATOR: Esso Res. Can.
AUTHOR: Britten, R.; Melnyk, W.
DESCRIPTION: The property is underlain by north-dipping Cretaceous Kingsvale Group of pyroclastic and porphyritic volcanic rocks of intermediate composition. Broad areas of silicification and advanced argillic alteration occur on the property. Alteration assemblages consist of quartz, kaolinite-dickite, pyrophyllite, sericite, alunite and pyrite. The soil contains weakly anomalous, sporadically distributed values of gold, silver and arsenic.
WORK DONE: GEOL 1:5000
EMGR 31.0 km;VLF
MAGG 31.0 km
SOIL 429;multielement
REFERENCES:

**** Tay ****

MINING DIV: Clinton ASSESSMENT REPORT 15675 INFO CLASS 3
LOCATION: LAT. 51 06 00 LONG. 123 27 00 NTS:
CLAIMS: Bog Iron,Chilcotin 1,Chilcotin 3,Tay 1,Vulcan,P. North,Summit 2
OPERATOR: Esso Res. Can.
AUTHOR: Britten, R.; Melnyk, W.
DESCRIPTION: The property is underlain by north-dipping Cretaceous Kingsvale Group of pyroclastic and porphyritic volcanic rocks of intermediate composition. Broad areas of intense silicification and advanced argillic alteration occur on the property. Alteration assemblages consist of quartz, alunite, pyrophyllite, kaolinite-dickite, pyrite and sericite. The soil contains weakly anomalous values of gold, silver and arsenic. The Taseko River sediments contain up to 710 ppb gold.
WORK DONE: GEOL 1:5000
EMGR 21.1 km;VLF
MAGG 21.1 km
SOIL 376;multielement
REFERENCES:

**** Chilko ****

MINING DIV: *** ASSESSMENT REPORT 16080 INFO CLASS 4
LOCATION: LAT. 51 07 42 LONG. 123 54 12 NTS:
CLAIMS: Chilko 1,Chilko 4-5
OPERATOR: Gunsteel Res.
AUTHOR: Gravel, J.; Brownlee, D.
DESCRIPTION: The project area is underlain by a sequence of Middle Triassic to Upper Cretaceous volcanics and sediments. The sequence lies along the northeasterly margin of the Coast Plutonic Complex. A few north-northeast trending high angle faults are present.
WORK DONE: ROCK 64;Au,Hg

GEOL 1:5000
REFERENCES:

**** Chilko ****

MINING DIV: Clinton ASSESSMENT REPORT 16079 INFO CLASS 4
LOCATION: LAT. 51 11 42 LONG. 123 49 24 NTS:
CLAIMS: Chilko 9-10
OPERATOR: Gunsteel Res.
AUTHOR: Gravel, J.; Brownlee, D.
DESCRIPTION: The project area is underlain by a sequence of Middle Triassic to Upper Cretaceous volcanics and sediments. This sequence lies along the northeastern margin of the Coast Plutonic Complex. A few northeast trending high angle faults are present.
WORK DONE: ROCK 10;Au,Hg,As
PROS 1:5000
REFERENCES:

**** Vick ****

MINING DIV: *** ASSESSMENT REPORT 15831 INFO CLASS 4
LOCATION: LAT. 51 22 36 LONG. 123 38 42 NTS:
CLAIMS: Vic
OPERATOR: Stryker Res.
AUTHOR: Ball, J.
COMMODITIES: Gold,Copper,Silver
DESCRIPTION: The claim is underlain by a thick sequence of Cretaceous andesites, tuffs and massive flow breccias. Steeply dipping fractures are filled with quartz-sulphide vein material. Geochemical survey results are inconclusive.
WORK DONE: ROCK 6;multielement
HMIN 2;multielement
SOIL 23;multielement
REFERENCES: A.R. 12279,13492,13942,14615
M.I. 092O 027-VICK

**** Tarn ****

MINING DIV: Clinton ASSESSMENT REPORT 15921 INFO CLASS 4
LOCATION: LAT. 51 17 00 LONG. 123 52 42 NTS:
CLAIMS: Tarn 1-2
OPERATOR: Chase, W.
AUTHOR: Chase, B.
DESCRIPTION: The claims are situated between Taseko and Chilko Lakes where the underlying rocks are Upper Cretaceous Kingsvale Group vari-coloured andesitic, dacitic and basaltic pyroclastics, minor flows and volcanic sediments.
WORK DONE: SOIL 124;Au,Ag,Cu,Hg
PROS 1:10 000
REFERENCES:

**** Bobcat ****

MINING DIV: *** ASSESSMENT REPORT 16231 INFO CLASS 2
LOCATION: LAT. 51 18 00 LONG. 122 32 00 NTS:

CLAIMS: Bobcat I-III
OPERATOR: Lexington Res.
AUTHOR: Laanela, H.
DESCRIPTION: The claims are underlain by Cretaceous-Tertiary volcanics/volcaniclastics and related feeder dykes. A series of dacitic domes form a southwest trend of volcanic eruptive centres with associated mineralization.
WORK DONE: LINE 32.0 km
MAGG 26.0 km
EMGR 24.0 km;VLF
ROCK 78;Cu,Zn,Ag,Au
SOIL 688;multielement
GEOL 1:5000
REFERENCES:

**** EH ****

MINING DIV: Clinton ASSESSMENT REPORT 16685 INFO CLASS 2
LOCATION: LAT. 51 16 00 LONG. 122 31 41 NTS:
CLAIMS: EH 1,EH 3,EH 5
OPERATOR: Ballatar Ex.
AUTHOR: Seywerd, M.
DESCRIPTION: The claims are underlain by basaltic to rhyolitic flows, tuffs and breccias including both subaerial welded tuffs and subaqueous pillow fragments.
WORK DONE: GEOL 1:5000
MAGG 117.0 km
EMGR 117.0 km;VLF
SOIL 2500;Ag,Au,Hg
LINE 117.0 km
REFERENCES: A.R. 12883,14097,15324

**** Fairless Creek ****

MINING DIV: *** ASSESSMENT REPORT 15672 INFO CLASS 4
LOCATION: LAT. 51 20 00 LONG. 122 33 00 NTS:
CLAIMS: Placer Lease 16024
OPERATOR: Blackdome Min.
AUTHOR: Rennie, D.
COMMODITIES: Placer Gold,Silver
DESCRIPTION: The Leases are situated in an area underlain by Tertiary felsic to mafic volcanic rocks. Stream sediments consist of Quaternary glacial drift and till. No gold was found in any of the panned samples.
WORK DONE: HMIN 9;Au,visual
PROS 1:10 000
REFERENCES: M.I. 092O 032-FAIRLESS CREEK

**** Mint,Queen ****

MINING DIV: Clinton ASSESSMENT REPORT 16618 INFO CLASS 3
LOCATION: LAT. 51 22 42 LONG. 122 30 33 NTS:
CLAIMS: King 3-4,King VI,Pearl,Queen 4-5,Queen VI,Mint 1-4,Mink I-II,Ace 1-2 Borin 1,Reborin,Churn I,Churn 1-2
OPERATOR: Chevron Can. Res.
AUTHOR: McAllister, S.; McPherson, M.

DESCRIPTION: Eocene rhyolite, dacites and basalts are overlain in part by Miocene basalts.
WORK DONE: GEOL 1:10 000
SOIL 826;multielement
ROCK 116;multielement
HMIN 13;multielement
REFERENCES: A.R. 14945

**** Queen,King ****

MINING DIV: *** ASSESSMENT REPORT 16065 INFO CLASS 3
LOCATION: LAT. 51 22 42 LONG. 122 32 42 NTS:
CLAIMS: Ace 1,Borin 1,King 3-4,King VI,Queen 4-5,Queen VI,Reborin
OPERATOR: Chevron Can. Res.
AUTHOR: Campbell, K.; McAllister, S.
DESCRIPTION: Eocene rhyolites, dacites and basalts are covered by Miocene basalts.
WORK DONE: ROCK 40;Au,Ag,As,Sb
SOIL 150;Au,Ag,As,Hg,Sb
TOPO 24.0 km
HMIN 28;Au
REFERENCES: A.R. 12661

**** Lynx ****

MINING DIV: Clinton ASSESSMENT REPORT 16078 INFO CLASS 4
LOCATION: LAT. 51 18 36 LONG. 122 26 24 NTS:
CLAIMS: Lynx II
OPERATOR: Trans National Res.
AUTHOR: Grill, E.
DESCRIPTION: The area is underlain by gently dipping, north to northeast striking Cretaceous and Tertiary volcanic and volcaniclastic rocks. The rocks range in composition from rhyolite to basalt. Alteration and mineralization appears to be related to hot spring formations and is characterized by botryoidal chalcedonic quartz.
WORK DONE: GEOL 1:10 000
ROCK 4;multielement
REFERENCES:

**** Lynx ****

MINING DIV: *** ASSESSMENT REPORT 16023 INFO CLASS 4
LOCATION: LAT. 51 18 42 LONG. 122 24 24 NTS:
CLAIMS: Lynx IV
OPERATOR: Ashworth Ex.
AUTHOR: Grill, E.
DESCRIPTION: The claim is underlain by Cretaceous and Tertiary volcanic and volcaniclastic rocks and related feeder dykes. The rocks range in composition from rhyolite to andesite to capping basalts. Alteration and mineralization in certain areas appear to be related to hot spring formations and is characterized by botryoidal chalcedonic quartz.
WORK DONE: GEOL 1:10 000
ROCK 2;multielement
REFERENCES:

**** Nole,Pine ****

MINING DIV: Clinton ASSESSMENT REPORT 16274 INFO CLASS 3
LOCATION: LAT. 51 18 48 LONG. 122 18 42 NTS:
CLAIMS: Nole 1,Pine 1-2
OPERATOR: QPX Min.
AUTHOR: Lee, L.
DESCRIPTION: Eocene rhyolites and rhyolite pyroclastics are cut by a series of northeast trending faults and show local brecciation and weak silicification. No mineralization is associated with this alteration.
WORK DONE: ROCK 32;multielement
FOTO 1:50 000
SOIL 183;multielement
GEOL 1:10 000
REFERENCES: A.R. 12413,12453

**** Pearl,Mint ****

MINING DIV: *** ASSESSMENT REPORT 15646 INFO CLASS 4
LOCATION: LAT. 51 23 00 LONG. 122 29 00 NTS: ?
CLAIMS: Mink I-II,Mint 1-2,Pearl
OPERATOR: MineQuest Ex. Assoc.
AUTHOR: Longe, R.
DESCRIPTION: Eocene rhyolites, dacites and basalts are covered by Miocene basalts.
WORK DONE: ROCK 8;multielement
GEOL 1:20 000
REFERENCES: A.R. 12609,14945

**** Silver Bullet ****

MINING DIV: Clinton ASSESSMENT REPORT 16583 INFO CLASS 4
LOCATION: LAT. 51 18 48 LONG. 122 24 16 NTS:
CLAIMS: Camelsfoot,Lynx IV,Silver Bullet I-II
OPERATOR: Ashworth Ex.
AUTHOR: Yacoub, F.
DESCRIPTION: The property is underlain by volcanic flow rocks. Alteration in the form of moderate to intense argillitization and secondary silicification was observed.
WORK DONE: GEOL 1:10 000
SILT 39;multielement
ROCK 21;multielement
REFERENCES:

Bonaparte River 092P

**** Blu ****

MINING DIV: Kamloops ASSESSMENT REPORT 16663 INFO CLASS 3
LOCATION: LAT. 51 05 03 LONG. 120 02 12 NTS:
CLAIMS: Blu

OPERATOR: National Res. Ex.
AUTHOR: Wynne, F.
DESCRIPTION: The claim is underlain by impure calcareous sediments that locally grade to graphitic phyllites. The area has extensive overburden cover.
WORK DONE: MAGG 7.7 km
EMGR 7.7 km;HLEM
GRAV 0.7 km
LINE 7.7 km
TREN 120.0 m;4 trenches
REFERENCES:

**** Fortuna,Skookum,Plato ****

MINING DIV: *** ASSESSMENT REPORT 15438 INFO CLASS 4
LOCATION: LAT. 51 05 48 LONG. 120 01 24 NTS:
CLAIMS: Fortuna,Fortuna 1-3,Fortuna 4 Fr.,JM 1
OPERATOR: BP Res. Can.
AUTHOR: Farmer, R.
COMMODITIES: Gold,Silver,Lead,Copper,Platinum,Nickel
DESCRIPTION: The claims are underlain by Mississippian-Devonian Eagle Bay Formation rocks consisting of chloritoid schist, quartz-eye sericite schist, argillite, grit, conglomerate, quartzite, limestone and serpentinite. The units dip 50 degrees to the northeast. Several large, prominent hydrothermal alteration zones are present which contain massive pyrite-pyrrhotite mineralization varying from 10 centimetres to 2 metres thick. The sulphide zones are enhanced in copper, lead, zinc, silver, gold and arsenic values.
WORK DONE: GEOL 1:5000
SOIL 11;multielement
ROCK 82;multielement
REFERENCES: A.R. 08858,10008
M.I. 092P 044-FORTUNA;092P 045-SKOOKUM;092P 046-PLATO

**** Mount Armour ****

MINING DIV: Kamloops ASSESSMENT REPORT 16322 INFO CLASS 3
LOCATION: LAT. 51 10 00 LONG. 120 06 00 NTS:
CLAIMS: FC
OPERATOR: Falconbridge Copper
AUTHOR: Pirie, I.
COMMODITIES: Copper,Zinc
DESCRIPTION: The property is underlain by basalts, cherts, sediments and limestones of the Paleozoic Eagle Bay Formation. All units are strongly folded about northwest-southeast axes and plunge moderately to the northwest. Pyritic massive sulphides and sulphide stockworks are hosted by cherts, argillites and sericitic tuffs conformably with the surrounding strata.
WORK DONE: SAMP 94;Cu,Pb,Zn,Ag,Au
DIAD 410.3 m;5 holes,NQ
REFERENCES: A.R. 13129,15248
M.I. 092P 051-MOUNT ARMOUR

**** Rusty ****

MINING DIV: *** ASSESSMENT REPORT 16605 INFO CLASS 4
LOCATION: LAT. 51 07 52 LONG. 120 00 56 NTS:
CLAIMS: Rusty 1
OPERATOR: McGregor, L.
AUTHOR: Mankowske, M.; McGregor, L.
DESCRIPTION: The claim is underlain by Devonian-Mississippian Eagle Bay Formation rocks.
WORK DONE: PROS 1:20 000
TRAL 5.0 km
PITS 5
REFERENCES:

**** AJS (Rave),Bonaparte ****

MINING DIV: Kamloops ASSESSMENT REPORT 15651 INFO CLASS 3
LOCATION: LAT. 51 00 00 LONG. 120 25 00 NTS:
CLAIMS: Bob 21-24,Bob 33,Bob 35-37,Bob 39-48,Bob 101-112,Bob 115-120,Bob 151
Stu I-II
OPERATOR: Inter-Pacific Res.
AUTHOR: Gourlay, A.
COMMODITIES: Molybdenum,Copper,Gold
DESCRIPTION: A series of Mesozoic or Paleozoic pelitic and argillaceous strata has been cut and hornfelsed by a Mesozoic quartz diorite stock and dyke swarm. Both intrusive rocks and hornfels are cut by numerous quartz veins to 1 metre wide carrying pyrite, chalcopyrite, molybdenite and rarely geochemically anomalous gold.
WORK DONE: GEOL 1:25 000
SILT 201;multielement
ROCK 128;multielement
SOIL 66;multielement
REFERENCES: A.R. 04665,08500,13908,15166
M.I. O92P 050-AJS (RAVE);O92P 159-BONAPARTE

**** AJS (Rave),Bonaparte ****

MINING DIV: *** ASSESSMENT REPORT 16137 INFO CLASS 2
LOCATION: LAT. 51 01 30 LONG. 120 23 30 NTS:
CLAIMS: Bob 120,Bob 151-152,Bob 21-24,Bob 231-234,Bob 33,Bob 35-48,Nubob 1-2
Nubob Fr.,Rebob 1-3,Rebob Fr.,Stob 1-4,Stu I-II
OPERATOR: MineQuest Ex. Assoc.
AUTHOR: Dvorak, Z.
COMMODITIES: Molybdenum,Copper,Gold
DESCRIPTION: The claims cover an erosional window through Miocene Plateau basalts in which the oldest exposed bedrock consists of a series of metamorphosed Permian-Pennsylvanian Cache Creek Group pelitic and argillaceous sedimentary rocks. The contact between intrusives and sediments commonly contain pyrite and are usually highly silicified. All quartz veins known in the area appear to be associated with silicified zones.
WORK DONE: EMAB 1330.0 km;VLF,HLEM
MAGA 1330.0 km

REFERENCES: A.R. 04665,08500,15651,16045
M.I. O92P 050-AJS (RAVE);O92P 159-BONAPARTE

**** Bonaparte ****

MINING DIV: Kamloops ASSESSMENT REPORT 16045 INFO CLASS 3
LOCATION: LAT. 51 00 30 LONG. 120 26 36 NTS:
CLAIMS: Bob 23,Nubob 1
OPERATOR: Inter-Pacific Res.
AUTHOR: Gosse, R.
COMMODITIES: Gold
DESCRIPTION: A series of Mesozoic or Paleozoic pelitic and argillaceous strata has been cut and hornfelsed by a Mesozoic quartz diorite stock and dyke swarm. Both intrusive rocks and hornfels are cut by numerous quartz veins to 1 metre wide carrying pyrite, chalcopyrite, pyrrhotite, molybdenite and rarely bismuth telluride and free gold.
WORK DONE: ROAD 2.5 km
SAMP 311;multielement
LINE 14.4 km
TREN 360.0 m;21 trenches
ROCK 116;Au
DIAD 762.0 m;20 holes,NQ
MAGG 12.0 km
REFERENCES: A.R. 13908,15166,15651
M.I. O92P 159-BONAPARTE

**** Tul ****

MINING DIV: Clinton ASSESSMENT REPORT 16207 INFO CLASS 4
LOCATION: LAT. 51 09 48 LONG. 120 42 54 NTS:
CLAIMS: Tul 1-4
OPERATOR: Dickens, M.
AUTHOR:
DESCRIPTION: Upper Triassic Nicola Group volcanics host a quartz vein near an intrusive contact. The quartz vein carries values in gold, copper and tellurium.
WORK DONE: PROS 1:6250
REFERENCES:

**** EPI ****

MINING DIV: *** ASSESSMENT REPORT 16286 INFO CLASS 4
LOCATION: LAT. 51 08 36 LONG. 120 51 48 NTS:
CLAIMS: EPI 2-4
OPERATOR: Dickens, M.
AUTHOR: Dickens, M.
DESCRIPTION: Widespread anomalous arsenic, antimony, mercury and gold values occur along several northerly and northwesterly striking shear zones in silicified and altered Triassic volcanic rocks.
WORK DONE: PITS 12
PROS 1:25 000,1:2500
REFERENCES:

**** K.G.D. ****

MINING DIV: Clinton ASSESSMENT REPORT 15671 INFO CLASS 4
LOCATION: LAT. 51 08 00 LONG. 120 52 00 NTS:
CLAIMS: K.G.D.
OPERATOR: Dickens, M.
AUTHOR:
DESCRIPTION: The claims are underlain by Tertiary plateau basalts and drift. The claims were prospected in an effort to find exposures of Nicola rocks which on adjoining claims are altered and mineralized. No such exposures were located.
WORK DONE: PROS 1:31 680
REFERENCES: A.R. 13223

**** Precisely ****

MINING DIV: *** ASSESSMENT REPORT 15987 INFO CLASS 3
LOCATION: LAT. 51 07 12 LONG. 120 50 00 NTS:
CLAIMS: Precisely 1
OPERATOR: Placer Dev.
AUTHOR: Tennant, S.
DESCRIPTION: The claims are underlain by argillite and andesite of the Upper Triassic Nicola Group. The argillite, which is usually a breccia, is massive, black and very fine grained. The breccia consists of angular fragments of argillite in a quartz and calcite matrix. Andesite tuff is greenish-grey, massive and fine to medium grained.
WORK DONE: DIAD 526.1 m;4 holes,NQ
SAMP 174;multielement
REFERENCES: A.R. 13253,14101,15143

**** Savona Gold (Last Chance),Hamilton Creek,Vide

MINING DIV: Clinton ASSESSMENT REPORT 15536 INFO CLASS 3
LOCATION: LAT. 51 11 12 LONG. 120 54 54 NTS:
CLAIMS: Vidette 1-2
OPERATOR: Tugold Res.
AUTHOR: Christopher, P.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: The claims are underlain by an extensive sheet of Miocene or Pliocene plateau lavas which have been locally eroded to reveal a window of Upper Triassic Nicola Group volcanics. The Nicola Group is a roof pendant in the Mesozoic Thuya Batholith. Gold and silver mineralization occurs in northwest trending and north dipping quartz veins that cut the Nicola Group volcanics.
WORK DONE: MAGG 30.0 km
LINE 30.0 km
EMGR 30.0 km;VLF
REFERENCES: A.R. 04257,07164,08955,10103,10240,11273,11731,12670,13453
M.I. 092P 085-HAMILTON CREEK;092P 086-VIDETTE;092P 087-SAVONA GOLD

**** Sem,RL ****

MINING DIV: *** ASSESSMENT REPORT 16617 INFO CLASS 2
LOCATION: LAT. 51 08 43 LONG. 120 47 57 NTS:
CLAIMS: Precisely 1,Precisely 5,Precisely 7-9,Casa 1-2
OPERATOR: Placer Dev.
AUTHOR: Cannon, R.; Pentland, W.
COMMODITIES: Copper
DESCRIPTION: The Precisely property is located in a window of Miocene basalts and is underlain by Upper Triassic Nicola Group volcanics which are intruded by granodiorite and hornblende diorite. The volcanics are a bedded sequence of fine to medium grained andesitic to siliceous tuffs and augite porphyry flows. There is minor brecciated and silicified argillite.
Weak, propylitic alteration is widespread. Disseminated pyrite is common with rare veinlets and massive mineralization over a few centimetres.
WORK DONE: GEOL 1:5000
MAGG 84.4 km
EMGR 52.3 km;VLF
SOIL 2217;Au,Ag,As,Hg
ROCK 29;Au,Ag,As
REFERENCES: A.R. 15987
M.I. 092P 141-SEM;092P 141-RL

**** Da ****

MINING DIV: Kamloops ASSESSMENT REPORT 15784 INFO CLASS 3
LOCATION: LAT. 51 16 30 LONG. 120 11 30 NTS:
CLAIMS: DA 2
OPERATOR: Bull, F.
AUTHOR: Osijuk, D.
DESCRIPTION: The claim is underlain by Pennsylvanian-Permian Cache Creek Group metasediments and volcanics and Tertiary Skull Hill Formation mafic to intermediate volcanics. Drilling results returned low gold and silver values.
WORK DONE: DIAD 404.2 m;4 holes,BQ
SAMP 37;Au,Ag
REFERENCES:

**** LK ****

MINING DIV: *** ASSESSMENT REPORT 16596 INFO CLASS 3
LOCATION: LAT. 51 18 31 LONG. 120 07 20 NTS:
CLAIMS: CM 2-3
OPERATOR: BP Res. Can.
AUTHOR: Farmer, R.; Hoffman, S.
COMMODITIES: Copper,Silver,Zinc,Gold
DESCRIPTION: The claims are underlain by a north-northwest striking, generally vertically dipping sequence of mafic volcanics and sediments of the Devonian-Permian Fennell Formation. The sediments are host to two small massive sulphide occurrences consisting of pyrite, chalcopyrite and magnetite as exposed in old trenches. The

full extent of mineralization is not known as exposure is very poor.
WORK DONE: GEOL 1:2500
LINE 7.3 km
SOIL 563;multielement
SAMP 81;multielement
DIAD 242.9 m;2 holes,NQ
EMGR 6.6 km;HLEM
REFERENCES: A.R. 07555,15180
M.I. 092P 101-LK

**** Wren ****

MINING DIV: Kamloops ASSESSMENT REPORT 16524 INFO CLASS 3
LOCATION: LAT. 51 26 54 LONG. 120 03 12 NTS:
CLAIMS: Wren 2-3,Wren 5
OPERATOR: Big Ben Res.
AUTHOR: Adamson, R.
DESCRIPTION: Northerly striking, moderately dipping, mainly volcanic rocks with lesser sedimentary rocks and mafic to ultramafic intrusives of the Devonian-Permian Fennel Formation are in contact with the Cretaceous Baldy Batholith. Easterly striking fault and shear structures intersect the Fennel Formation rocks.
WORK DONE: SILT 12;Au
ROCK 10;multielement
SOIL 678;multielement
REFERENCES:

**** Cedar ****

MINING DIV: *** ASSESSMENT REPORT 16362 INFO CLASS 3
LOCATION: LAT. 51 28 40 LONG. 120 16 51 NTS:
CLAIMS: Cedar 1,Cedar 7-20,Cedar V
OPERATOR: Craven Res.
AUTHOR: Gewargis, W.
DESCRIPTION: The claims are underlain by the Devonian-Mississippian Eagle Bay Formation which is bounded on the west by Upper Triassic Nicola Group volcanics and on the east by Jurassic volcanics and sediments.
WORK DONE: EMGR 21.0 km;VLF
MAGG 21.0 km
REFERENCES: A.R. 13519,14477

**** Golden Loon ****

MINING DIV: Kamloops ASSESSMENT REPORT 15870 INFO CLASS 3
LOCATION: LAT. 51 26 00 LONG. 120 18 00 NTS:
CLAIMS: Golden Loon V-VI,Golden Loon VIII,Golden Loon IX
OPERATOR: Barnes Creek Min.
AUTHOR: Lodmell, R.; Lutjen, L.
DESCRIPTION: The Upper Triassic to Lower Jurassic Thuya Batholith of granodiorite composition is in contact with the Nicola Group augite basalt, shale, phyllite, and limestone. An intrusion of ultramafics along the contact consists of peridotite, serpentite and pentlandite.
WORK DONE: PROS 1:12 500
REFERENCES: A.R. 01051,04689,09061

**** Golden Loon ****

MINING DIV: *** ASSESSMENT REPORT 15937 INFO CLASS 3
LOCATION: LAT. 51 24 54 LONG. 120 15 00 NTS:
CLAIMS: Golden Loon I,Golden Loon VII
OPERATOR: Lutjen, L.
AUTHOR: Lodmell, R.; Lutjen, L.
DESCRIPTION: The Upper Triassic-Lower Jurassic Thuya Batholith granodiorite is in contact with Upper Triassic Nicola Group augite basalt, shale, phyllite and limestone. An ultramafic body occurs along the contact and consists of peridotite and serpentinite.
WORK DONE: EMGR 9.6 km;VLF
SOIL 312;Au,Ag,As
MAGG 9.6 km
LINE 9.6 km
REFERENCES: A.R. 14237,14920

**** BN ****

MINING DIV: Kamloops ASSESSMENT REPORT 16042 INFO CLASS 4
LOCATION: LAT. 51 35 42 LONG. 120 04 18 NTS:
CLAIMS: BN-1,BN-3
OPERATOR: Vollo, N.
AUTHOR: Vollo, N.
DESCRIPTION: Basalts and interbedded tuffites of the Devonian-Permian Fennell Formation strike northerly and dip easterly. Patches of transported gossan are present and contain anomalous values in copper and zinc.
WORK DONE: SILT 1;Cu,Zn,Pb,Ag
GEOL 1:10 000
SOIL 17;Cu,Zn,Pb,Ag
EMGR 1.0 km;VLF
REFERENCES: A.R. 15398

**** FL ****

MINING DIV: *** ASSESSMENT REPORT 16462 INFO CLASS 3
LOCATION: LAT. 51 34 54 LONG. 120 25 48 NTS:
CLAIMS: Ta Hoola 4
OPERATOR: Rat Res.
AUTHOR: Rebagliati, C.M.
COMMODITIES: Copper,Lead,Molybdenum,Silver
DESCRIPTION: Upper Triassic Nicola Group andesite flows and augite porphyry pyroclastics are brecciated and carbonate-sericite-chlorite altered and carry geochemically anomalous concentrations of gold, arsenic and molybdenum.
WORK DONE: DIAD 309.8 m;3 holes,NQ
SAMP 196;multielement
REFERENCES: A.R. 10287,10880,11413,15221
M.I. 092P 134-FL

**** Fort,PYCU,LV ****

MINING DIV: Kamloops ASSESSMENT REPORT 16134 INFO CLASS 4

LOCATION: LAT. 51 32 06 LONG. 120 23 12 NTS:
CLAIMS: Fort 9
OPERATOR: Vital Pacific Res.
AUTHOR: Westerman, C.
COMMODITIES: Copper,Gold
DESCRIPTION: Pyrrhotite bearing skarns of the Upper Triassic Nicola Group locally contain anomalous gold values.
WORK DONE: ROCK 19;multielement
REFERENCES: A.R. 04028,04262,04264,04835,06586,08880
M.I. 092P 136-PYCU;092P 136-LV;092P 136-FORT

**** Lake ****

MINING DIV: *** ASSESSMENT REPORT 15931 INFO CLASS 4
LOCATION: LAT. 51 32 00 LONG. 120 22 36 NTS:
CLAIMS: Lake 1-2,Lake 4
OPERATOR: Slominski, J.
AUTHOR: Slominski, J.
DESCRIPTION: Oxidized outcrops of magnetite contain sulphides in a belt of limestone. Gold values are associated with the sulphides.
WORK DONE: LINE 6.0 km
EMGR 6.0 km;VLF
REFERENCES:

**** Lakeview,PYCU,LV,Fort ****

MINING DIV: Kamloops ASSESSMENT REPORT 16223 INFO CLASS 3
LOCATION: LAT. 51 31 00 LONG. 120 24 30 NTS:
CLAIMS: Fort 7,Nuf 1,Tun 1-2,Vit 1-8
OPERATOR: Vital Pacific Res.
AUTHOR: Rockel, E.; Westerman, C.
COMMODITIES: Copper,Gold
DESCRIPTION: Jurassic volcanic and sedimentary rocks are variably silicified and pyritized. Gold occurs in pyritic calc-silicate units.
WORK DONE: LINE 11.5 km
GEOL 1:5000
ROCK 144;multielement
IPOL 11.4 km
SOIL 426;multielement
TREN 300.0 m;7 trenches
REFERENCES: A.R. 00905,00907,00910,02712,03349,03945,04260,04278,04684,06586, 08342,08880
M.I. 092P 010-LAKEVIEW (UNITED,TC);092P 136-PYCU;092P 136-LV; 092P 136-FORT

**** Robo ****

MINING DIV: *** ASSESSMENT REPORT 16205 INFO CLASS 4
LOCATION: LAT. 51 43 36 LONG. 120 18 00 NTS:
CLAIMS: Robo 2
OPERATOR: Heim, R.
AUTHOR: Heim, R.
DESCRIPTION: The claims are underlain by flat-lying or moderately dipping dark green, fine-grained andesites of the Devonian-Permian Fennell Formation. Float was found on the property consisting of

massive arsenopyrite with up to 6 420 ppb gold.
WORK DONE: SOIL 39;multielement
REFERENCES: A.R. 14931

**** So (Bog) ****

MINING DIV: Kamloops ASSESSMENT REPORT 16244 INFO CLASS 2
LOCATION: LAT. 51 37 00 LONG. 120 31 42 NTS:
CLAIMS: Bogg 1-4,Bogg 7-9
OPERATOR: Geotech Capital
AUTHOR: Archer, G.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by Upper Triassic Nicola Group volcanics and granitic to syenitic rocks (Upper Triassic or Lower Jurassic). Pyritic thin-bedded tuff is very common.

Syenites with monzonite are common in the southern portions of the claims.
WORK DONE: SOIL 2256;Ag,As,Au
LINE 57.9 km
REFERENCES: A.R. 00753,00754,00788,00952,01966,03900,04025,04702,04817,04836, 05137,05264,05481,05603,07302,08147,10609,11289,14948

**** Gold ****

MINING DIV: Clinton ASSESSMENT REPORT 15929 INFO CLASS 4
LOCATION: LAT. 51 50 24 LONG. 121 19 00 NTS:
CLAIMS: Gold 2,Gold X
OPERATOR: Banbury Gold Mines
AUTHOR: York, L.
DESCRIPTION: The claims are underlain by Tertiary plateau basalts.
WORK DONE: IPOL 3.8 km
EMGR 3.8 km;VLF
MAGG 3.8 km
REFERENCES: A.R. 14787

**** Miracle ****

MINING DIV: *** ASSESSMENT REPORT 16586 INFO CLASS 3
LOCATION: LAT. 51 57 05 LONG. 121 19 44 NTS:
CLAIMS: Miracle 2-3
OPERATOR: GWR Res.
AUTHOR: White, G.E.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: Porphyry copper-gold is associated with an alkalic stock intruding Upper Triassic-Lower Jurassic volcanic rocks.
WORK DONE: MAGG 27.0 km
SOIL 10;Au,Ag,Cu
GEOL 1:312
LINE 27.0 km
IPOL 11.0 km
ROCK 15;Au,Ag,Cu
EMGR 27.0 km;VLF
REFERENCES:

**** RK ****

MINING DIV: Clinton ASSESSMENT REPORT 16170 INFO CLASS 3
LOCATION: LAT. 51 53 24 LONG. 120 46 48 NTS:
CLAIMS: Christmas 1-8
OPERATOR: Ming Mines
AUTHOR: Thompson, D.
COMMODITIES: Copper,Gold
DESCRIPTION: Interbedded basalts, volcaniclastic sediments and rhyodacite tuffs are intruded by diorites. Pyrite and pyrrhotite mineralization with variable gold values are concentrated along fractures in country rock.
WORK DONE: LINE 22.4 km
ROCK 56;multielement
SOIL 460;multielement
IPOL 22.4 km
GEOL 1:5000
REFERENCES: A.R. 12138,14239,14452,15699
M.I. 092P 110-RK

**** RK ****

MINING DIV: *** ASSESSMENT REPORT 15699 INFO CLASS 3
LOCATION: LAT. 51 53 00 LONG. 120 46 00 NTS:
CLAIMS: Christmas 1-5,Christmas 8
OPERATOR: Ming Mines
AUTHOR: McNaughton, K.
COMMODITIES: Copper
DESCRIPTION: Interbedded basalts, volcanoclastic sediments and rhyodacite tuffs of the Upper Triassic to Lower Jurassic Nicola Group are intruded by diorite stock, sills and dykes. Soil samples contain up to 640 ppb gold.
WORK DONE: LINE 6.4 km
SOIL 257;multielement
REFERENCES: A.R. 12138,14239,14452
M.I. 092P 110-RK

**** Senicar ****

MINING DIV: Clinton ASSESSMENT REPORT 16199 INFO CLASS 3
LOCATION: LAT. 51 55 12 LONG. 120 48 36 NTS:
CLAIMS: Senicar 1-2
OPERATOR: Torrez Res.
AUTHOR: Saunders, C.
DESCRIPTION: The claims are underlain by mafic volcanics, volcaniclastic sediments and volcanic breccias which are intruded by diorite, gabbro and feldspar porphyry plugs.
Quartz-carbonate vein stockworks are present but poorly exposed. Minor chalcopyrite and arsenopyrite occur in chalcedonic quartz and carbonate veins in the volcanic breccia.
WORK DONE: LINE 39.6 km
EMGR 29.0 km;VLF
MAGG 29.0 km

GEOL 1:5000
SOIL 849;multielement
ROCK 30;multielement
REFERENCES: A.R. 12650,13230,14040,15450

**** Senicar ****

MINING DIV: *** ASSESSMENT REPORT 15450 INFO CLASS 4
LOCATION: LAT. 51 55 12 LONG. 120 48 36 NTS:
CLAIMS: Senicar 1
OPERATOR: Eastfield Res.
AUTHOR: Morton, J.
DESCRIPTION: The claims are underlain by mafic volcanics and related volcaniclastic rocks of the Upper Triassic Nicola Group which are intruded by diorite. A well-developed hornfels occurs in Nicola Group rocks adjacent to the diorite.
WORK DONE: ROCK 14;multielement
GEOL 1:2000
REFERENCES: A.R. 12650,13230,14040

Quesnel Lake 093A

**** Cz,Fly,Pine ****

MINING DIV: Cariboo ASSESSMENT REPORT 15925 INFO CLASS 2
LOCATION: LAT. 52 21 36 LONG. 121 16 42 NTS:
CLAIMS: Lem 1-3
OPERATOR: Orbex Ind.
AUTHOR: Payne, C.
COMMODITIES: Copper
DESCRIPTION: Felsic breccia, tuffs and mafic volcanics have been intruded by a zoned diorite-monzonite stock. An altered (propylitized) halo surrounding the stock contains weakly anomalous gold values.
WORK DONE: DIAD 1090.8 m;7 holes,NQ
SAMP 351;multielement
REFERENCES: A.R. 00883,02729,04679,05117,05260,10005,10509,15456
M.I. 093A 002-PINE;093A 061-FLY;093A 069-CZ

**** A1 ****

MINING DIV: *** ASSESSMENT REPORT 15453 INFO CLASS 3
LOCATION: LAT. 52 23 48 LONG. 121 21 06 NTS:
CLAIMS: Kwun 1-4
OPERATOR: Dome Ex. Can.
AUTHOR: Fox, P.
COMMODITIES: Gold,Copper
DESCRIPTION: The central part of the claims is underlain by a poorly exposed, concentrically zoned pluton of Upper Triassic age. East of the Birch Creek Fault, felsic tuff breccias flank the stock to the east, north and south. Massive basalt flows and pillow breccias enclose the stock west of the fault. Much of the eastern half of the claims north and south of Kwun Lake are underlain by basaltic wackes and pillow breccia. Units trend northerly and dip steeply west.
WORK DONE: LINE 17.2 km

IPOL 17.2 km
REFERENCES: A.R. 04860,05086,05151,05533,08261,14178
M.I. 093A 077-AL

**** Beekeeper ****

MINING DIV: Cariboo ASSESSMENT REPORT 16153 INFO CLASS 4
LOCATION: LAT. 52 23 42 LONG. 122 20 24 NTS:
CLAIMS: Beekeeper 1
OPERATOR: Eastfield Res.
AUTHOR: Morton, J.
COMMODITIES: Mercury
DESCRIPTION: Hydrothermally altered Upper Triassic Takla Group volcanics occur with variable concentrations of pyrite and cinnabar. The hydrothermal alteration is believed to be related to a buried intrusive complex.
WORK DONE: IPOL 6.5 km
MAGG 5.5 km
REFERENCES: A.R. 09750,12805,14599,15048
M.I. 093A 155-BEEKEEPER

**** Cz ****

MINING DIV: *** ASSESSMENT REPORT 15456 INFO CLASS 3
LOCATION: LAT. 52 22 00 LONG. 121 16 42 NTS:
CLAIMS: Lem 1-2
OPERATOR: Orbex Min.
AUTHOR: Payne, C.
COMMODITIES: Copper
DESCRIPTION: Anomalous gold values in soil occur surrounding the Lemon Lake diorite-monzonite stock.
WORK DONE: LINE 20.4 km
SOIL 443;multielement
REFERENCES: A.R. 10005,10509
M.I. 093A 069-CZ

**** Shik ****

MINING DIV: Cariboo ASSESSMENT REPORT 16093 INFO CLASS 4
LOCATION: LAT. 52 27 30 LONG. 121 27 00 NTS:
CLAIMS: Shik 1-2
OPERATOR: Sedona Res.
AUTHOR: Morton, J.
COMMODITIES: Copper,Gold
DESCRIPTION: Upper Triassic-Lower Jurassic mafic Takla Group volcanics have been intruded by diorite and syenite. Copper and gold mineralization is associated with propylitically altered basalts. Gold mineralization appears to have been remobilized with chalcopyrite into fractured pyrite crystals in altered sections.
WORK DONE: TREN 50.0 m;3 trenches
PETR 1;thin section
IPOL 6.5 km
ROCK 35;multielement
REFERENCES: A.R. 11297,11623,12584,13355,13804,14870,16093
M.I. 093A 152-SHIK

**** EN ****

MINING DIV: *** ASSESSMENT REPORT 15527 INFO CLASS 3
LOCATION: LAT. 52 19 06 LONG. 120 37 42 NTS:
CLAIMS: CS 55-56,EM 1-4,EM 11-12,Eureka 1-2,EN 1-6,EN 14,EN 28-29,EN 104-107 EN 109,EN 129,NS 1-2,SF 1-4
OPERATOR: Umex
AUTHOR: Duba, D.
COMMODITIES: Copper,Gold
DESCRIPTION: The claims lie on the eastern flank of the Quesnel Trough within a belt of Mesozoic volcano-sedimentary rocks referred to as the Quesnel Belt. Volcano-sedimentary strata are cut by an epizonal intrusive complex (of probable Cretaceous age) ranging in composition from quartz monzonite to amphibolite. Sulphide mineralization containing chalcopyrite is zonally associated with the felsic intrusives. Gold mineralization is related to minor shear zones.
WORK DONE: GEOL 1:5000
ROCK 98;multielement
REFERENCES: A.R. 02137,02662,03814,05215,09786,10723,11935,13365
M.I. 093A 011-EN

**** Frasergold ****

MINING DIV: Cariboo ASSESSMENT REPORT 15636 INFO CLASS 2
LOCATION: LAT. 52 19 00 LONG. 120 37 00 NTS:
CLAIMS: Kay 9-11,Mac,Mac 2,Mac 9 Fr.,Mac 10
OPERATOR: Eureka Res.
AUTHOR: Campbell, K.; Leishman, D.
COMMODITIES: Gold,Silver,Copper,Zinc,Lead
DESCRIPTION: Strata-controlled, gold-bearing quartz structures and veins in Triassic phyllite of Takla Formation have been traced over 4 kilometres, indicated by geochemistry over length of 10 kilometres. Widths are over 50 metres. Alteration products include carbonate, silica, sericite and chlorite.
WORK DONE: TOPO 1:2500
ROTD 450.0 m;4 holes
META 10 bulk samples
DIAD 2010.0 m;18 holes,HQ
ROAD 2.0 km
SAMP 1360;Au
REFERENCES: A.R. 08325,09751,11833,12880,14022
M.I. 093A 150-FRASERGOLD

**** Mac 10 ****

MINING DIV: *** ASSESSMENT REPORT 15778 INFO CLASS 3
LOCATION: LAT. 52 21 00 LONG. 120 40 00 NTS:
CLAIMS: Mac 10
OPERATOR: Eureka Res.
AUTHOR: Leishman, D.
DESCRIPTION: Triassic black phyllites with a gold enriched horizon characterized by quartz veins and sweats with coarse particles of visible gold have been found on the adjoining Frasergold property.

The projected strike of this horizon underlies the Mac 10 claim. Soil surveys have proved effective in detecting this horizon.
WORK DONE: SOIL 342;Au
REFERENCES:

**** Omega,Hawkley ****

MINING DIV: Cariboo ASSESSMENT REPORT 16547 INFO CLASS 3
LOCATION: LAT. 52 22 00 LONG. 120 35 30 NTS:
CLAIMS: Hawkley Gold,Omega Gold
OPERATOR: Carpenter Lake Res.
AUTHOR: Robins, J.
DESCRIPTION: The geology of the property is characterized by steeply dipping metasediments of the Proterozoic-Early Paleozoic Snowshoe Formation. The sediments are comprised of crenulated, grey phyllites overlain by an augen schist and a quartzo-feldspathic gneiss which is in turn overlain by a banded schist. Mineralization observed on the property consists mainly of pyritic disseminations in secondary quartz within the crenulated phyllite unit.
WORK DONE: GEOL 1:5000
LINE 36.0 km
SOIL 924;multielement
MAGG 28.1 km
EMGR 15.0 km;VLF
REFERENCES:

**** Bluto ****

MINING DIV: *** ASSESSMENT REPORT 16263 INFO CLASS 4
LOCATION: LAT. 52 15 48 LONG. 120 45 48 NTS:
CLAIMS: Bluto 2
OPERATOR: Inter Can. Dev.
AUTHOR: Brownlee, D.
DESCRIPTION: Upper Triassic black phyllites and argillites with minor calcareous siltstones are bounded on the west by a volcaniclastic unit and on the east by the Mississippian Slide Mountain Group. This assemblage forms the western limb of the Crooked Lake anticline.
WORK DONE: SOIL 90;multielement
MAGG 2.7 km
REFERENCES:

**** Elbow ****

MINING DIV: Cariboo ASSESSMENT REPORT 16584 INFO CLASS 4
LOCATION: LAT. 52 15 30 LONG. 120 45 30 NTS:
CLAIMS: Elbow 1-2
OPERATOR: Tillicum Gold Mines
AUTHOR: George, J.
DESCRIPTION: The property lies within the Quesnel Trough, a Mesozoic sequence of volcanic and sedimentary strata. The eastern boundary lies within Upper Triassic phyllites, argillites and minor greenstones. A major synclinal structure is flanked by anticlines through Crooked Lake and Mt. Perseus.
WORK DONE: SOIL 82;Au,As
REFERENCES:

**** Freman ****

MINING DIV: *** ASSESSMENT REPORT 16051 INFO CLASS 3
LOCATION: LAT. 52 17 06 LONG. 120 53 18 NTS:
CLAIMS: Freman 1-4,Freman 6
OPERATOR: Ward, D.
AUTHOR: Drummond, A.
DESCRIPTION: A sequence of Upper Triassic fine to coarse argillite to conglomerate trend 100/70 degrees north across the property and is considered to be the western overturned limb of a northwesterly trending anticline. Anomalous geochemical values of gold, arsenic, zinc, molybdenum were noted. Gold geochemical values range to 310 ppb.
WORK DONE: SOIL 253;multielement
LINE 13.5 km
REFERENCES:

**** Jamboree ****

MINING DIV: Cariboo ASSESSMENT REPORT 16233 INFO CLASS 3
LOCATION: LAT. 52 19 06 LONG. 120 52 42 NTS:
CLAIMS: Jamboree 1,Jamboree 3-4
OPERATOR: E & B Ex.
AUTHOR: Roste, G.
COMMODITIES: Gold,Copper
DESCRIPTION: Mesozoic volcanic flow rocks between volcaniclastic sediments dip to the northeast. The basal sedimentary unit has been intruded by a dioritic stock causing local hornfelsing. Moderate regional metamorphism has converted some of the sediments to phyllites. Gold is concentrated in east-west striking shear zones.
WORK DONE: MAGG 18.0 km
SOIL 639;multielement
LINE 18.0 km
ROCK 31;multielement
EMGR 18.0 km;VLF
REFERENCES: A.R. 11382
M.I. O93A 149-JAMBOREE

**** C ****

MINING DIV: *** ASSESSMENT REPORT 15420 INFO CLASS 4
LOCATION: LAT. 52 43 12 LONG. 121 22 18 NTS:
CLAIMS: C-3
OPERATOR: Casamiro Res.
AUTHOR: Schmidt, U.
DESCRIPTION: The claim is underlain by metamorphosed sedimentary and igneous rocks of the Paleozoic(?) Omineca Crystalline Belt.
Soil geochemistry identified anomalous multielement values.
WORK DONE: SOIL 74;multielement
GEOL 1:5000
SILT 7;multielement
REFERENCES: A.R. 13154

**** C 1,Conch 1 ****

MINING DIV: Cariboo ASSESSMENT REPORT 15804 INFO CLASS 3
LOCATION: LAT. 52 42 30 LONG. 121 25 00 NTS:
CLAIMS: C1,Conch 1
OPERATOR: Casamiro Res.
AUTHOR: Schmidt, U.
DESCRIPTION: The property is underlain by highly deformed metamorphosed sedimentary and intrusive rocks of the Omineca Crystalline Belt. No mineralization other than pyrite was found. Three geochemical soil anomalies were located.
WORK DONE: SOIL 105;multielement
GEOL 1:5000
SILT 1;multielement
REFERENCES:

**** CPW ****

MINING DIV: *** ASSESSMENT REPORT 15880 INFO CLASS 2
LOCATION: LAT. 52 35 36 LONG. 121 26 36 NTS:
CLAIMS: Don,Peso
OPERATOR: Mandusa Res.
AUTHOR: Nicholson, R.
COMMODITIES: Gold,Lead,Zinc
DESCRIPTION: Gold mineralization is associated with quartz and sulphides within a broad graphitic shear zone; and also with quartz veining in a succession of Upper Triassic dark sedimentary clastics, and phyllite. Alteration halos, similar to "ash fall tuffs", accompany some of the quartz veining within the sedimentary-volcanic sequence.
WORK DONE: PERD 833.0 m;15 holes
GEOL 1:2500
TREN 54.0 m
ROCK 326;multielement
SAMP 502;Au,Ag
LINE 12.0 km
TOPO 1:10 000,1:2500,1:1250
IPOL 7.7 km
SOIL 198;multielement
REFERENCES: A.R. 06935,08636
M.I. 093A 043-CPW

**** Moose ****

MINING DIV: Cariboo ASSESSMENT REPORT 16669 INFO CLASS 2
LOCATION: LAT. 51 38 01 LONG. 121 32 58 NTS:
CLAIMS: Rose 2-4,Ast 1,Aug 1,Cat,DJL,Dog,Dug,E 2,Easy 1,Easy 3-7,Gap,Hep Fr. Mark Fr.,Mike Fr.,Nob 1,Nor 1
OPERATOR: Dome Ex. Can.
AUTHOR: Fox, P.; Goodall, G.
COMMODITIES: Gold,Silver,Copper,Zinc
DESCRIPTION: The claims are underlain by Lower Mesozoic augite porphyry basalt and black argillite.
WORK DONE: PERD 1356.4 m;28 holes

SAMP 760;multielement
REFERENCES: A.R. 09168,10460,10987,11658
M.I. 093A 127-MOOSE

**** Bullion ****

MINING DIV: *** ASSESSMENT REPORT 16264 INFO CLASS 3
LOCATION: LAT. 52 38 12 LONG. 121 38 54 NTS:
CLAIMS: Bullion 3 Fr.
OPERATOR: Dome Ex. Can.
AUTHOR: Richardson, P.
DESCRIPTION: The claims are underlain by Early Mesozoic volcanic and sedimentary rocks that have been intruded by syenite and diorite. In nearby areas, the rocks have been altered to epidote and chlorite which are accompanied by pyrite, chalcopyrite and gold.
WORK DONE: DIAD 189.3 m;2 holes,NQ
SAMP 133;multielement
REFERENCES:

**** Cariboo,Most Likely ****

MINING DIV: Cariboo ASSESSMENT REPORT 16018 INFO CLASS 2
LOCATION: LAT. 52 41 00 LONG. 121 42 18 NTS:
CLAIMS: Cariboo 1-4,Most Likely 3-4,Short Stuff 2-3,Sun,Most Likely
OPERATOR: E & B Ex.
AUTHOR: McNaughton, K.
DESCRIPTION: A sequence of Upper Triassic-Lower Jurassic volcanic and sedimentary rocks have been intruded by felsic plutons.
WORK DONE: SOIL 1375;multielement
LINE 31.0 km
MAGG 41.8 km
EMGR 38.4 km;VLF
ROCK 26;multielement
PETR 15;samples
IPOL 11.8 km
REFERENCES:

**** Cariboo-Bell ****

MINING DIV: *** ASSESSMENT REPORT 16040 INFO CLASS 1
LOCATION: LAT. 52 33 00 LONG. 121 38 18 NTS:
CLAIMS: BJ,BJ 1-27,BJ 43,BJ 45,BJ 47,BJ 49-60,BJ 63,BJ 69-16,BJ 113-126 BJ 130,BJ 132,BJ 144,Polley 3-22,CB 6-7,Bootjack 1-2 Fr.
OPERATOR: E & B Ex.
AUTHOR: McNaughton, K.
COMMODITIES: Copper,Gold,Silver,Iron
DESCRIPTION: The deposit occurs in an alkalic intrusive complex in the Quesnel Trough. The complex was emplaced in six distinct phases which comprise syenite, monzonite porphyry and diorite. The host volcanic/ sedimentary rocks are of Lower Jurassic to Upper Triassic age. Copper-gold mineralization is hosted in crackle breccia zones with the grade varying with the intensity of brecciation.
WORK DONE: MAGG 179.5 km
SAMP 1532;multielement
EMGR 179.5 km;VLF

LINE 179.5 km
ROCK 102;multielement
IPOL 13.3 km
GEOL 1:5000
SOIL 4773;multielement
ROTD 2490.2 m;23 holes
REFERENCES: A.R. 00646-06326,06911,08016,10353,11115
M.I. 093A 008-CARIBOO-BELL

**** Prior ****

MINING DIV: Cariboo ASSESSMENT REPORT 15465 INFO CLASS 3
LOCATION: LAT. 52 35 54 LONG. 121 39 30 NTS:
CLAIMS: Prior 1
OPERATOR: A & M Ex.
AUTHOR: Gravel, J.
DESCRIPTION: The claim is underlain by volcanic rocks of the Upper Triassic Nicola Group.
WORK DONE: LINE 16.2 km
SOIL 165;multielement
REFERENCES:

**** Chaiz 3 ****

MINING DIV: *** ASSESSMENT REPORT 15888 INFO CLASS 4
LOCATION: LAT. 52 45 00 LONG. 121 54 00 NTS:
CLAIMS: Chaiz 3
OPERATOR: Rendezvous Gold Min.
AUTHOR: Allen, D.; MacQuarrie, D.
DESCRIPTION: The Chaiz 3 claim lies within the Quesnel Trough, a northwest trending belt of dominantly Lower Mesozoic volcanic and volcanically derived sedimentary rocks. Gold deposits are associated with complex alkalic intrusions that are coeval to the enclosing volcanics. Local discoveries (QR and Cariboo Bell) are based on geochemically and geophysically derived targets.
WORK DONE: IPOL 2.4 km
LINE 5.0 km
REFERENCES:

**** Gonzo ****

MINING DIV: Cariboo ASSESSMENT REPORT 15899 INFO CLASS 3
LOCATION: LAT. 52 42 00 LONG. 121 49 00 NTS:
CLAIMS: Gonzo
OPERATOR: A.P.M. Ex.
AUTHOR: Allen, D.; Gravel, J.
DESCRIPTION: The Gonzo claim lies within the Quesnel Trough, a northwest trending belt of dominantly Lower Mesozoic volcanic and volcanically derived sedimentary rocks. Gold deposits are associated with complex alkalic intrusions that are coeval to the enclosing volcanics. Local discoveries (QR and Cariboo Bell) are based on geochemically and geophysically derived targets. Gold in soil is uniformly low at the detection limit of 5 ppb.
WORK DONE: LINE 5.5 km
SOIL 49;multielement

EMGR 5.0 km;VLF
MAGG 5.0 km
REFERENCES:

**** Leb 1 ****

MINING DIV: *** ASSESSMENT REPORT 15898 INFO CLASS 3
LOCATION: LAT. 52 43 00 LONG. 121 49 00 NTS:
CLAIMS: Leb 1
OPERATOR: George Res.
AUTHOR: Allen, D.; Gravel, J.
DESCRIPTION: The Leb 1 claim lies within the Quesnel Trough, a northwest trending belt of dominantly Lower Mesozoic volcanic and volcanically derived sedimentary rocks. Gold deposits are associated with complex alkalic intrusions that are coeval to the enclosing volcanics. Local discoveries (QR and Cariboo Bell) are based on geochemically and geophysically derived targets. Soil samples contain up to 320 ppb gold.
WORK DONE: LINE 15.7 km
SOIL 189;multielement
IPOL 12.1 km
REFERENCES: A.R. 15054

**** Passe ****

MINING DIV: Cariboo ASSESSMENT REPORT 16588 INFO CLASS 4
LOCATION: LAT. 52 43 00 LONG. 121 59 00 NTS:
CLAIMS: Passe 1-4
OPERATOR: Stewart, D.
AUTHOR: Allen, D.; MacQuarrie, D.
DESCRIPTION: The Passe Claim Group lies within the Quesnel Trough, a northwest trending belt of dominantly Lower Mesozoic volcanic and volcanically derived sedimentary rocks.
WORK DONE: MAGG 2.6 km
EMGR 0.5 km;VLF
IPOL 2.1 km
LINE 7.4 km
ROAD 4.0 km
REFERENCES: A.R. 14107

**** QR ****

MINING DIV: *** ASSESSMENT REPORT 16343 INFO CLASS 3
LOCATION: LAT. 52 40 12 LONG. 121 47 48 NTS:
CLAIMS: QR 1
OPERATOR: Dome Ex. Can.
AUTHOR: Fox, P.
COMMODITIES: Gold,Copper
DESCRIPTION: The QR deposit is situated near the eastern edge of the Intermontane Belt in a northwesterly-trending volcanic-plutonic assemblage of Upper Triassic-Lower Jurassic rocks. The QR deposit comprises three separate zones lying in basaltic lavas, breccias and tuffs situated at the contact with a series of younger volcaniclastic sediments and within an alteration halo that surrounds a small diorite stock. Host rocks are propylitized basalt, breccia

and tuff composed of varying amounts of pyrite, calcite, epidote, chlorite, garnet and remnant volcanic fragments.
WORK DONE: DIAD 199.0 m;1 hole,BQ
SAMP 190;Au
REFERENCES: A.R. 06079,06417,06730,06967,08572,09538,10592,11486,12588,13754, 14860
M.I. 093A 121-QR

**** Lightning Creek ****

MINING DIV: Cariboo ASSESSMENT REPORT 16512 INFO CLASS 3
LOCATION: LAT. 53 00 36 LONG. 121 38 06 NTS:
CLAIMS: Placer Lease 8730,Placer Lease 9779,Placer Leases 10414-10415
Placer Leases 11582-11588,Placer Leases 12144-12147
Placer Leases 14262-14267,Placer Leases 14426-14427
OPERATOR: Lightning Creek Mines
AUTHOR: Podolski, G.
DESCRIPTION: The placer lease area is underlain by Paleozoic Snowshoe Formation rocks which are folded into the Lightning Creek anticlinorium.
WORK DONE: MAGA 535.0 km
EMAB 535.0 km;VLF,HLEM
REFERENCES:

**** Font ****

MINING DIV: *** ASSESSMENT REPORT 16010 INFO CLASS 3
LOCATION: LAT. 52 55 54 LONG. 121 48 24 NTS:
CLAIMS: Font 1,Font 4-5,Font 7-11
OPERATOR: Adrian Res.
AUTHOR: Falconer, J.
DESCRIPTION: The claims are underlain by sedimentary and volcanic rocks of the Late Jurassic-Early Triassic Snonekton Formation.
WORK DONE: SOIL 434;multielement
LINE 10.0 km
REFERENCES:

**** Isasa ****

MINING DIV: Cariboo ASSESSMENT REPORT 16178 INFO CLASS 4
LOCATION: LAT. 52 59 18 LONG. 121 57 48 NTS:
CLAIMS: Isasa
OPERATOR: Trifaux, R.
AUTHOR: Trifaux, R.
DESCRIPTION: The claim is underlain by Upper Triassic slaty argillite, schists and quartzite. Limestones occur in the northwest corner.
WORK DONE: SOIL 21;multielement
REFERENCES:

**** Kimo ****

MINING DIV: *** ASSESSMENT REPORT 15566 INFO CLASS 4
LOCATION: LAT. 52 59 00 LONG. 121 51 48 NTS:
CLAIMS: Kimo
OPERATOR: Trifaux, R.

AUTHOR:
DESCRIPTION: The claim is underlain by serpentinite, olive grey micaceous quartzite, phyllite, slate and black siltite.
WORK DONE: SOIL 19;multielement
ROCK 10;multielement
REFERENCES: A.R. 12266

**** Louise ****

MINING DIV: Cariboo ASSESSMENT REPORT 16424 INFO CLASS 4
LOCATION: LAT. 52 58 48 LONG. 121 51 42 NTS:
CLAIMS: Louise 1
OPERATOR: Trifco Min.
AUTHOR: Trifaux, R.
DESCRIPTION: The claims are underlain by west-northwest trending phyllite, argillite, slaty argillite and quartzite.
WORK DONE: TREN 100.0 m;1 trench
SAMP 11;multielement
REFERENCES: A.R. 13186,15425

**** Louise ****

MINING DIV: *** ASSESSMENT REPORT 15425 INFO CLASS 4
LOCATION: LAT. 52 58 48 LONG. 121 51 24 NTS:
CLAIMS: Louise 1
OPERATOR: Trifco Min.
AUTHOR: Trifaux, R.
DESCRIPTION: The claim is underlain by Upper Triassic phyllite, argillite, slaty argillite and quartzite.
Soil geochemistry identified elevated multielement values.
WORK DONE: PITS 5
SOIL 30;multielement
REFERENCES: A.R. 13186

**** Margo ****

MINING DIV: Cariboo ASSESSMENT REPORT 16589 INFO CLASS 4
LOCATION: LAT. 53 00 19 LONG. 121 50 21 NTS:
CLAIMS: Louise 2,Margo
OPERATOR: Trifco Min.
AUTHOR: Trifaux, R.
DESCRIPTION: The claims are underlain by phyllites, argillites, quartzites-grey micaceous quartzites, slate, limestones, metatuff and black siltite. The stratigraphy trend is west/northwest.
WORK DONE: ROCK 9;Ag,Cu,Mo,Pb,Zn,Au
DIAD 31.7 m;5 holes,BQ
SAMP 6;Mo,Cu,Pb,Zn,Ag,As,Wo,Au
REFERENCES: A.R. 13567,14582

**** Margo ****

MINING DIV: *** ASSESSMENT REPORT 15565 INFO CLASS 4
LOCATION: LAT. 53 00 00 LONG. 121 51 00 NTS:
CLAIMS: Margo
OPERATOR: Trifco Min.

AUTHOR: Trifaux, R.
DESCRIPTION: The claims are underlain by Devonian-Mississippian phyllites, quartzite and mica schist.
WORK DONE: ROCK 3;multielement
SOIL 40;multielement
REFERENCES: A.R. 13567,14582

**** Sovereign ****

MINING DIV: Cariboo ASSESSMENT REPORT 15522 INFO CLASS 4
LOCATION: LAT. 52 59 24 LONG. 121 53 36 NTS:
CLAIMS: Wim 2
OPERATOR: Trifaux, R.
AUTHOR:
COMMODITIES: Nickel,Talc
DESCRIPTION: The claims are underlain by Upper Triassic phyllite, argillite, quartzite and schist metamorphosed to greenschist facies. Extensive metamorphism of an ultramafic intrusion is the source of extensive talc occurrences.
WORK DONE: SAMP 11;multielement
PITS 16
DIAD 91.4 m;6 holes,EX
REFERENCES: A.R. 14808
M.I. 093A 089-SOVEREIGN

**** Wim-Cal ****

MINING DIV: *** ASSESSMENT REPORT 15544 INFO CLASS 4
LOCATION: LAT. 52 59 24 LONG. 121 53 36 NTS:
CLAIMS: Wim-Cal 1-5
OPERATOR: Trifaux, R.
AUTHOR:
DESCRIPTION: The claims are underlain by Jurassic-Triassic slaty argillite, schist and quartzite. Limestones occur in the northwest part of the claims.
WORK DONE: LINE 0.8 km
SOIL 20;multielement
REFERENCES:

**** Mt. Kimball ****

MINING DIV: Cariboo ASSESSMENT REPORT 15421 INFO CLASS 4
LOCATION: LAT. 52 56 06 LONG. 121 02 42 NTS:
CLAIMS: Hailey
OPERATOR: Porter, N.
AUTHOR: Reader, J.
COMMODITIES: Limestone
DESCRIPTION: The claim is underlain by a Precambrian-Cambrian package of sediments including phyllites and argillites of the Isaac Formation overlain by the massive Cunningham limestone which is overlain by metamorphosed detrital sediments of the Yankee Belle Formation.
Anomalous lead values were obtained in soil and rock chip samples.
WORK DONE: SOIL 14;Pb,Ag,Au
PROS 1:5000

ROCK 6;Pb,Ag,Au
REFERENCES: A.R. 07772
M.I. 093A 145-MT.KIMBALL

**** Bon ****

MINING DIV: *** ASSESSMENT REPORT 15422 INFO CLASS 4
LOCATION: LAT. 52 55 54 LONG. 121 21 54 NTS:
CLAIMS: Bon 1-2
OPERATOR: Durfeld, R.
AUTHOR: Durfeld, R.
DESCRIPTION: The claims are underlain by the Mississippian Downey Creek Succession consisting of a northwest trending section of brown siliceous phyllite with a limestone-marble core. Strong shearing is developed within this northwest trend and contains parallel quartz-carbonate-sulphide veining.
Soil geochemistry identified anomalous gold and silver values.
WORK DONE: SOIL 36;multielement
LINE 0.4 km
REFERENCES: A.R. 13085

**** Cariboo-Hudson ****

MINING DIV: Cariboo ASSESSMENT REPORT 15443 INFO CLASS 2
LOCATION: LAT. 52 53 00 LONG. 121 20 00 NTS:
CLAIMS: Black Martin 1-3,Jim,Mineral Lease M32,Sidewinder 1-3
OPERATOR: Imperial Metals
AUTHOR: Quin, S.
COMMODITIES: Gold,Silver,Tungsten,Lead,Zinc
DESCRIPTION: Paleozoic Snowshoe Formation of metasedimentary rocks hosts four principal types of mineralization on the property. There are mineralized quartz viens, replacement deposits of massive pyrite, massive lenses of galena and pyrrhotite, and leses of quartz-scheelite.
WORK DONE: SOIL 711;multielement
DIAD 1133.0 m;24 holes,NQ
SAMP 309;Cu,Pb,Zn,Ag,Au,As
TREN 1395.0 m;25 trenches
UNDV 50.0 m;portal rehab.
REFERENCES: A.R. 08281,11916,16262
M.I. 093A 071-CARIBOO-HUDSON

**** Cariboo-Hudson,Peter Gulch ****

MINING DIV: *** ASSESSMENT REPORT 16262 INFO CLASS 2
LOCATION: LAT. 52 53 12 LONG. 121 19 48 NTS:
CLAIMS: Black Martin 1-4,Cunningham 1-3,Cunningham Ext. 1-2,Cutter 1-2
First of July,Glen Echo,Hudson,Rad Fr.,Shasta,Shasta No. 2
OPERATOR: Imperial Metals
AUTHOR: DeLancey, P.
COMMODITIES: Gold,Silver,Tungsten,Lead,Zinc
DESCRIPTION: Interbedded quartzites, sericite schists, limestones and chlorite schists strike northwest and dip 70 to 80 degrees northeast. Several systems of quartz veins cut these rocks; some veins are gold bearing. Roughly parallel trending veins: Shasta, Hudson and 605 occupy

steeply dipping faults. Gold mineralization is associated with
sulphides, mostly pyrite, and is concentrated along steeply plunging
ore shoots, preliminary indications suggest that massive pyritic
"replacement" deposits may occur along a limestone horizon.
WORK DONE: SOIL 939;multielement
ROCK 108;multielement
DIAD 2327.0 m;22 holes,NQ
SAMP 188;multielement
REFERENCES: A.R. 08281,11916,15443
M.I. O93A O71-CARIBOO-HUDSON;O93A O93-PETER GULCH

**** Cheryl ****

MINING DIV: Cariboo ASSESSMENT REPORT 15623 INFO CLASS 4
LOCATION: LAT. 52 56 30 LONG. 121 26 30 NTS:
CLAIMS: Cheryl
OPERATOR: Steffan, W.
AUTHOR: Myers, W.
DESCRIPTION: The property is underlain by the Cariboo series or Yanks Peak
quartzite, phyllite and limestone. The northerly trending Antler
fault cuts through the center of the property. Strike of the
bedding is northwest. Anticlinal axis is southwest of the drill
hole. The core contained numerous quartz veins to over 30 centimetres
wide, but very little alteration or pyrite mineralization.
WORK DONE: DIAD 99.1 m;1 hole,AQ
REFERENCES:

**** J-1 ****

MINING DIV: *** ASSESSMENT REPORT 15847 INFO CLASS 3
LOCATION: LAT. 52 48 00 LONG. 121 28 00 NTS:
CLAIMS: J-1
OPERATOR: Cascadia Mines & Res.
AUTHOR: Archambault, M.
DESCRIPTION: The property is underlain by shelf clastics and carbonates of
the Barkerville terrane. They have been metamorphosed to greenschist
facies, and highly deformed. Gold mineralization in the Cariboo
occurs in two different settings: 1) replacement in carbonates
2) gold in quartz veins. The property has potential for both types.
WORK DONE: SAMP 22;Au,Ag
DIAD 533.7 m;5 holes,NQ
REFERENCES:

**** Stu ****

MINING DIV: Cariboo ASSESSMENT REPORT 16399 INFO CLASS 3
LOCATION: LAT. 52 48 00 LONG. 121 26 18 NTS:
CLAIMS: D.D. 2,Stu 1
OPERATOR: Cascadia Mines & Res.
AUTHOR: Timmins, W.
DESCRIPTION: The property is underlain by Lower Snowshoe Group siltstones,
phyllites and quartzites cut by quartz and quartz carbonate veins
and veinlets. Limonite and chlorite alteration is common.
WORK DONE: DIAD 685.5 m;7 holes,NQ
SAMP 135;Au,Ag,Cu,Zn

REFERENCES:

**** Sylvain-Langis ****

MINING DIV: *** ASSESSMENT REPORT 15862 INFO CLASS 3
LOCATION: LAT. 52 50 00 LONG. 121 17 00 NTS:
CLAIMS: HH 1-12,HH 14-21
OPERATOR: Harvey Creek Gold Placers
AUTHOR: Burton, A.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Barkerville terrane of Late
Proterozoic and Paleozoic ages with a subsection labelled "Paleozoic
Gold-Rich Strata". Placer gold and lode gold occur on the property.
Sediment samples contain anomalous values of silver, lead, zinc and
tungsten.
WORK DONE: TREN 1000.0 m;2 trenches
ROAD 4.0 km;rehab.
HMIN 28;Au,Ag,Pb,Zn,WO
REFERENCES: A.R. 11580
M.I. O93A 111-SYLVAIN-LANGIS

**** Zone ****

MINING DIV: Cariboo ASSESSMENT REPORT 15938 INFO CLASS 3
LOCATION: LAT. 52 58 00 LONG. 121 25 30 NTS:
CLAIMS: C 12,Luke,Matt,Oro
OPERATOR: Rise Res.
AUTHOR: Decarle, R.
COMMODITIES: Gold
DESCRIPTION: The property is underlain by the Snowshoe Formation and the Midas
Formation. The Snowshoe Formation consists of grey, brown and green
sericitic quartzite and pebble conglomerate. The Midas Formation is
comprised of black quartzose phyllite, slate, argillite and siltstone.
There is a north-south trending fault across the property.
WORK DONE: EMAB 173.0 km;VLF
MAGA 173.0 km
REFERENCES: M.I. O93A O55-ZONE

Quesnel O93B

**** Cole ****

MINING DIV: *** ASSESSMENT REPORT 15798 INFO CLASS 2
LOCATION: LAT. 52 28 18 LONG. 122 16 24 NTS:
CLAIMS: Cole 1,Tim 1
OPERATOR: Gibraltar Mines
AUTHOR: Bysouth, G.
COMMODITIES: Copper,Molybdenum
DESCRIPTION: Chalcopyrite, pyrite and sparse molybdenite occur in quartz veins
accompanied by various combinations of chlorite, sericite, epidote,
and carbonate. Host rock is an inner border phase of the Triassic
Granite Mountain pluton, which has undergone pervasive saussurite-
chlorite alteration. Four economic zones have been recognized and are
in various stages of development and production; these are the

Pollyanna, Granite Lake, Gibraltar East, and Gibraltar West zones. The general trend of deformation, alteration and mineralization is westerly and northwesterly.
WORK DONE: DIAD 1364.3 m;9 holes,NQ
REFERENCES: A.R. 07387,08120,08326,10283,10585
M.I. 093B 051-COLE

**** Gibraltar East ****

MINING DIV: Cariboo ASSESSMENT REPORT 15520 INFO CLASS 3
LOCATION: LAT. 52 30 54 LONG. 122 17 18 NTS:
CLAIMS: Zephyr 6,Zephyr 8,Zephyr 13
OPERATOR: Gibraltar Mines
AUTHOR: Thon, M.
COMMODITIES: Copper,Molybdenum,Silver
DESCRIPTION: Chalcopyrite, pyrite and sparse molybdenite occur in quartz veins accompanied by various combinations of chlorite, sericite, epidote, and carbonate. Host rock is an inner border phase of the Triassic Granite Mountain pluton, which has undergone pervasive saussurite and chlorite alteration. Four economic zones have been recognized and are in various stages of development and production; these are the Pollyanna, Granite Lake, Gibraltar East, and Gibraltar West zones. The general trend of deformation, alteration and mineralization is westerly and northwesterly.
WORK DONE: DIAD 645.9 m;5 holes,NQ
SAMP 209;Cu,Mo
REFERENCES: A.R. 004680164i,01680,02425,07387,07438,11290
M.I. 093B 012-GIBRALTAR EAST

**** Green,Bud 7 ****

MINING DIV: *** ASSESSMENT REPORT 15797 INFO CLASS 3
LOCATION: LAT. 52 28 24 LONG. 122 17 18 NTS:
CLAIMS: Bud 7
OPERATOR: Gibraltar Mines
AUTHOR: Bysouth, G.
COMMODITIES: Copper,Molybdenum
DESCRIPTION: Chalcopyrite, pyrite and sparse molybdenite occur in quartz veins accompanied by various combinations of chlorite, sericite, epidote, and carbonate. Host rock is an inner border phase of the Triassic Granite Mountain pluton, which has undergone pervasive saussurite-chlorite alteration. Four economic zones have been recognized and are in various stages of development and production; these are the Pollyanna, Granite Lake, Gibraltar East, and Gibraltar West zones. The general trend of deformation, alteration and mineralization is westerly and northwesterly.
WORK DONE: DIAD 153.3 m;1 hole,NQ
SAMP 12;Cu,Mo
REFERENCES: M.I. 093B 058-BUD 7;093B 058-GREEN

**** Credge ****

MINING DIV: Cariboo ASSESSMENT REPORT 15915 INFO CLASS 3
LOCATION: LAT. 52 40 00 LONG. 122 01 00 NTS:
CLAIMS: Credge

OPERATOR: Lac Min.
AUTHOR: So, Y.M.
DESCRIPTION: Most of the claim is covered by glacial till. A road cut has exposed shale. Some dacitic dykes up to 10 metres thick and quartz veins up to 30 centimetres thick contain pyrite. Up to 560 ppb gold and 273 ppb zinc values in till samples are sporadically distributed.
WORK DONE: SOIL 102;multielement
SILT 4;multielement
ROCK 1;multielement
LINE 10.0 km
REFERENCES:

**** Gibraltar East ****

MINING DIV: *** ASSESSMENT REPORT 16285 INFO CLASS 3
LOCATION: LAT. 52 31 18 LONG. 122 17 48 NTS:
CLAIMS: Gib 2
OPERATOR: Gibraltar Mines
AUTHOR: Thon, M.
COMMODITIES: Copper,Molybdenum,Silver,Gold
DESCRIPTION: Chalcopyrite, pyrite and sparse molybdenite occur in quartz veins accompanied by various combinations of chlorite, sericite, epidote and carbonate. Host rock is an inner border phase of the Triassic Granite Mountain pluton, which has undergone pervasive saussurite-chlorite alteration. Four economic zones have been recognized and are in various stages of development and production; these are the Pollyanna, Granite Lake, Gibralter East and Gibralter West zones. The general trend of deformation, alteration and mineralization is westerly and northwesterly.
WORK DONE: DIAD 138.9 m;1 hole,NQ
SAMP 39;Cu,Mo
REFERENCES: A.R. 00468,01641,01680,02425,04387,07438,08222,08894,09173,10548, 11290,11363,11429,11577,13117,13123,15520,15849
M.I. 093B 012-GIBRALTAR EAST

**** Gibraltar East ****

MINING DIV: Cariboo ASSESSMENT REPORT 15796 INFO CLASS 2
LOCATION: LAT. 52 31 42 LONG. 122 18 24 NTS:
CLAIMS: Gib 4,Gib 6,Hy 4
OPERATOR: Gibraltar Mines
AUTHOR: Bysouth, G.
COMMODITIES: Copper,Molybdenum,Silver
DESCRIPTION: Chalcopyrite, pyrite and sparse molybdenite occur in quartz veins accompanied by various combinations of chlorite, sericite, epidote, and carbonate. Host rock is an inner border phase of the Triassic Granite Mountain pluton, which has undergone pervasive saussurite-chlorite alteration. Four economic zones have been recognized and are in various stages of development and production; these are the Pollyanna, Granite Lake, Gibraltar East, and Gibraltar West zones. The general trend of deformation, alteration and mineralization is westerly and northwesterly.
WORK DONE: SAMP 206;Cu,Mo
DIAD 1000.0 m;7 holes,NQ
REFERENCES: A.R. 01641,01680,02425,07387,07438,11290

M.I. 093B 012-GIBRALTAR EAST

**** Gibraltar East ****

MINING DIV: *** ASSESSMENT REPORT 15849 INFO CLASS 1
LOCATION: LAT. 52 30 42 LONG. 122 17 24 NTS:
CLAIMS: Al 21 Fr.,Zephyr 11-13,Zephyr 4
OPERATOR: Gibraltar Mines
AUTHOR: Bysouth, G.
COMMODITIES: Copper,Molybdenum,Silver
DESCRIPTION: Chalcopyrite, pyrite and sparse molybdenite occur in quartz veins accompanied by various combinations of chlorite, sericite, epidote and carbonate. Host rock is an inner border phase of the Triassic Granite Mountain pluton, which has undergone pervasive saussurite-chlorite alteration. Four economic zones have been recognized and are in various stages of development and production; these are the Pollyanna, Granite Lake, Gibraltar East and Gibraltar West zones. The general trend of deformation, alteration and mineralization is westerly and northwesterly.
WORK DONE: DIAD 2163.5 m;14 holes,NQ
SAMP 578;Cu,Mo
REFERENCES: A.R. 00468,01641,01680,02425,07387,07438,11290,15520
M.I. 093B 012-GIBRALTAR EAST

**** Gibraltar East ****

MINING DIV: Cariboo ASSESSMENT REPORT 15611 INFO CLASS 3
LOCATION: LAT. 52 31 00 LONG. 122 17 00 NTS:
CLAIMS: Zephyr 7
OPERATOR: Gibraltar Mines
AUTHOR: Thon, M.
COMMODITIES: Copper,Molybdenum
DESCRIPTION: Chalcopyrite, pyrite and sparse molybdenite occur in quartz veins accompanied by various combinations of chlorite, sericite, epidote and carbonate. Host rock is an inner border phase of the Triassic Granite Mountain pluton, which has undergone pervasive saussurite-chlorite alteration. Four economic zones have been recognized and are in various stages of development and production; these are the Pollyanna, Granite Lake, and Gibraltar East, and Gibraltar West zones. The general trend of deformation, alteration and mineralization is westerly and northwesterly.
WORK DONE: DIAD 160.6 m;2 holes,NQ
SAMP 84;Cu,Mo
REFERENCES: A.R. 01641,01680,02425,07387,07438,10567,11290,12452,
M.I. 093B 012-GIBRALTAR EAST

**** Gibraltar Mine ****

MINING DIV: *** ASSESSMENT REPORT 15945 INFO CLASS 3
LOCATION: LAT. 52 31 00 LONG. 122 16 00 NTS:
CLAIMS: GG 17,GG 18,HT 14 Fr.
OPERATOR: Gibraltar Mines
AUTHOR: Thon, M.
COMMODITIES: Copper,Molybdenite
DESCRIPTION: Chalcopyrite, pyrite and sparse molybdenite occur in quartz

veins accompanied by various combinations of chlorite, sericite, epidote and carbonate. Host rock is an inner border phase of the Triassic Granite Mountain pluton, which has undergone pervasive saussurite-chlorite alteration. Four economic zones have been recognized and are in various stages of development and production; these are the Pollyanna, Granite Lake, Gibraltar East and Gibraltar West zones. The general trend of deformation, alteration and mineralization is westerly and northwesterly.
WORK DONE: SAMP 180;Cu,Mo
DIAD 592.8 m;3 holes,NQ
REFERENCES: A.R. 00296,00487,08120,08185,08222,08326,08894
M.I. 093B 006-GIBRALTAR MINE

**** ZE ****

MINING DIV: Cariboo ASSESSMENT REPORT 15569 INFO CLASS 3
LOCATION: LAT. 52 37 24 LONG. 122 18 06 NTS:
CLAIMS: ZE 8
OPERATOR: Gibraltar Mines
AUTHOR: Bysouth, G.
DESCRIPTION: Chalcopyrite, pyrite and sparse molybdenite occur in quartz veins accompanied by various combinations of chlorite, sericite, epidote, and carbonate. Host rock is an inner border phase of the Triassic Granite Mountain pluton, which has undergone pervasive saussurite-chlorite alteration. Four economic zones have been recognized and are in various stages of development and production; these are the Pollyanna, Granite Lake, Gibralter East, and Gibralter West zones. The general trend of deformation, alteration and mineralization is westerly and northwesterly.
WORK DONE: SAMP 10;Cu,Mo
DIAD 319.4 m;3 holes,NQ
REFERENCES: A.R. 15019

**** Bob ****

MINING DIV: *** ASSESSMENT REPORT 15660 INFO CLASS 2
LOCATION: LAT. 52 55 00 LONG. 123 37 30 NTS:
CLAIMS: Bob 2
OPERATOR: Lac Min.
AUTHOR: Brown, R.
COMMODITIES: Gold,Silver
DESCRIPTION: Lower Cretaceous (Skeena Group?) conglomerate, sandstone and argillite dipping 15 degrees southwest are cut by quartz feldspar felsic porphyry dykes and sills, and overlain by Tertiary basalts. Two distinct fracture systems trend north-northeast and west-northwest with steep dips. An alteration zone 500 by 1000 metres include silica, feldspar, clay, chlorite, carbonate, pyrite, hematite, limonite, and minor arsenopyrite, stibnite and galena.
WORK DONE: DIAD 767.3 m;7 holes,NQ
PERD 2347.6 m;16 holes
REFERENCES: A.R. 12125,12744,13478,13998
M.I. 093B 054-BOB

**** McKay ****

MINING DIV: Cariboo ASSESSMENT REPORT 15576 INFO CLASS 4
LOCATION: LAT. 52 59 06 LONG. 123 38 42 NTS:
CLAIMS: McKay
OPERATOR: Lac Min.
AUTHOR: Brown, R.
DESCRIPTION: The claim is underlain by Lower Cretaceous sediments in contact (fault?) with Eocene Endako Group basalts.
WORK DONE: IPOL 3.8 km
LINE 4.0 km
SOIL 40;Au,Ag,As,Sb,Hg
REFERENCES:

**** Naz ****

MINING DIV: *** ASSESSMENT REPORT 16425 INFO CLASS 3
LOCATION: LAT. 53 00 18 LONG. 123 38 42 NTS:
CLAIMS: Naz,Naz 2,Naz 4-5
OPERATOR: Newmont Ex. of Can.
AUTHOR: Limion, H.
DESCRIPTION: The property is underlain by a northerly trending sequence of Tertiary Ootsa Lake Group volcanics, which are underlain by Lower Cretaceous Skeena Group sediments. The oldest exposed unit, the sediments, are conglomerates and sandstones. They are slightly altered with pyrolusite, limonite, hematite and clay. The overlying volcanics are reddish to purple basalts.
WORK DONE: MAGG 36.4 km
LINE 41.4 km
IPOL 25.8 km
REFERENCES:

**** Deac ****

MINING DIV: Cariboo ASSESSMENT REPORT 16022 INFO CLASS 4
LOCATION: LAT. 52 58 24 LONG. 122 14 12 NTS:
CLAIMS: Deac 11-12
OPERATOR: Moche Res.
AUTHOR: Di Spirito, F.; Graham, J.C.
DESCRIPTION: The claims are underlain by Upper Triassic Takla Group mafic-intermediate volcanic rocks and argillaceous sedimentary rocks, which are intruded by coeval alkalic and Early Cretaceous quartz monzonites and diorites.
WORK DONE: EMAB 79.0 km;VLF
MAGA 79.0 km
REFERENCES:

**** Deac ****

MINING DIV: *** ASSESSMENT REPORT 15851 INFO CLASS 3
LOCATION: LAT. 52 58 48 LONG. 122 13 00 NTS:
CLAIMS: Deac 1-4,Deac 6,Deac 10
OPERATOR: Glider Res.

AUTHOR: Baldys, C.; Falconer, J.
DESCRIPTION: The claims are underlain by Upper Triassic Takla Group mafic to intermediate volcanic flows, pyroclastic rocks and argillaceous sedimentary rocks which are intruded by coeval alkalic rocks had Early Cretaceous quartz monzonites and diorites.
WORK DONE: LINE 118.5 km
MAGG 102.5 km
ROCK 21;multielement
PETR 11 thin sections
GEOL 1:10 000
SOIL 310;multielement
HMIN 7;multielement
EMGR 102.5 km;VLF
REFERENCES: A.R. 16022

**** Ny ****

MINING DIV: Cariboo ASSESSMENT REPORT 16372 INFO CLASS 4
LOCATION: LAT. 52 47 00 LONG. 122 04 00 NTS:
CLAIMS: NY 1
OPERATOR: Kangeld Res.
AUTHOR: Decarle, R.
DESCRIPTION: No geologic mapping has been done on the Nyland Lake property. However, the area to the east has been mapped by R.B. Campbell of the Geological Survey of Canada and compiled as Map 3-1961. This work suggests that the Nyland Lake property may be underlain by Upper Triassic to Lower Jurassic age Takla Group volcanics.
WORK DONE: EMAB 60.0 km;VLF
MAGA 60.0 km
REFERENCES:

**** Pall ****

MINING DIV: *** ASSESSMENT REPORT 15598 INFO CLASS 3
LOCATION: LAT. 52 57 42 LONG. 122 06 12 NTS:
CLAIMS: Pall 1-4
OPERATOR: Rise Res.
AUTHOR: Holmgren, L.; Kowalchuk, J.
DESCRIPTION: The claim area is covered by extensive overburden, and underlain by Permian-Pennsylvanian Cache Creek Group chert, argillite and limestone or Lower Jurassic Hazelton Group volcanics.
WORK DONE: SOIL 270;multielement
LINE 29.6 km
ROCK 11;multielement
MAGG 26.7 km
HMIN 6;multielement
EMGR 26.7 km;VLF
REFERENCES: A.R. 13639,14422

**** DC ****

MINING DIV: Cariboo ASSESSMENT REPORT 16103 INFO CLASS 3
LOCATION: LAT. 52 57 42 LONG. 122 16 30 NTS:
CLAIMS: DC 2-7
OPERATOR: Kangeld Res.

AUTHOR: Decarle, R.
DESCRIPTION: No geologic mapping has yet been done on the property. However, studies suggest that the area is covered by extensive overburden and *underlain by either Permian-Pennsylvanian Cache Creek Group chert,* argillite, or limestone, or Lower Jurassic Hazelton Group mafic volcanics.
WORK DONE: MAGA 142.0 km
EMAB 142.0 km;HLEM,VLF
REFERENCES: A.R. 14290,14747

**** DC ****

MINING DIV: *** ASSESSMENT REPORT 16548 INFO CLASS 3
LOCATION: LAT. 52 58 18 LONG. 122 16 06 NTS:
CLAIMS: DC 2-3
OPERATOR: Kangeld Res.
AUTHOR: Gonzalez, R.
DESCRIPTION: No geological mapping has yet been done on the property. The property area may be underlain by either Permian-Pennsylvanian Cache Creek Group chert, argillite, and limestone or Upper Triassic Takla Group mafic volcanics.
WORK DONE: SOIL 441;multielement
LINE 18.3 km
MAGG 18.3 km
EMGR 18.3 km
REFERENCES: A.R. 14290,14747,16103

Anahim Lake 093C

**** Cathy J ****

MINING DIV: Cariboo ASSESSMENT REPORT 16268 INFO CLASS 3
LOCATION: LAT. 52 50 18 LONG. 125 26 00 NTS:
CLAIMS: Cathy J 1-2
OPERATOR: Rozek, D.
AUTHOR: Rozek, D.
DESCRIPTION: The claims are underlain by Jurassic diorite, chlorite schist and quartz monzonite. Bedrock is extremely altered.
WORK DONE: SOIL 175;Cu,Ag,Au
ROCK 23;multielement
SILT 2;Cu,Ag,Au
PROS 1:10 000
REFERENCES:

Bella Coola 093D

**** Yel ****

MINING DIV: Skeena ASSESSMENT REPORT 16098 INFO CLASS 4
LOCATION: LAT. 52 08 24 LONG. 127 58 24 NTS:
CLAIMS: Yel E,Yel F
OPERATOR: United Min. Services
AUTHOR: Shearer, J.

DESCRIPTION: The claims are underlain by flat-lying rhyolite and rhyolite breccia of the Tertiary Bella Bella Formation. Widespread hydrothermal activity was noted in the form of pyrite cemented breccias and abundant quartz veining.
WORK DONE: PROS 1:20 000
SILT 29;multielement
ROCK 21;multielement
REFERENCES:

**** Bella Coola Chief ****

MINING DIV: *** ASSESSMENT REPORT 15867 INFO CLASS 3
LOCATION: LAT. 52 32 00 LONG. 126 32 30 NTS:
CLAIMS: Bella Coola Chief,Gin,Queen,Rum,Rye,Sulph,Vodka,Whisky
OPERATOR: Green Lake Res.
AUTHOR: Day, W.C.
COMMODITIES: Silver,Copper,Gold
DESCRIPTION: Sulphide minerals (chalcopyrite, pyrite) are hosted in biotite granite porphyry dykes which intrude andesites. Quartz veins and quartz feldspar dykes also intrude the andesite but are largely barren in sulphide content as are the andesites themselves.
WORK DONE: SOIL 355;Cu,Ag
LINE 9.0 km
EMGR 9.0 km;VLF
REFERENCES: M.I. 093D 009-BELLA COOLA CHIEF

**** Nordean ****

MINING DIV: Skeena ASSESSMENT REPORT 16446 INFO CLASS 4
LOCATION: LAT. 52 38 18 LONG. 127 08 30 NTS:
CLAIMS: Nordean A-B
OPERATOR: Spellman, H.
AUTHOR: Spellman, H.
DESCRIPTION: The claims are underlain by Middle Jurassic diorites.
WORK DONE: SAMP 3;multielement
PROS 1:10 000
REFERENCES:

Whitesail Lake 093E

**** Beaver ****

MINING DIV: *** ASSESSMENT REPORT 16175 INFO CLASS 4
LOCATION: LAT. 53 29 06 LONG. 127 43 12 NTS:
CLAIMS: Beaver 5-8
OPERATOR: Whitesail Ventures
AUTHOR: Horne, E.; Meyers, E.
DESCRIPTION: Mesozoic or Paleozoic mafic to felsic metavolcanics, metasedimentary schists and amphibolitic gneiss are intruded by Upper Cretaceous Coast Range granitic rocks and auriferous pyritic quartz veins.
WORK DONE: MNGR 1;polished section
ROCK 7;Au
GEOL 1:10 000

PETR 4:thin sections
REFERENCES: A.R. 14752

**** Beaver (Smith-Nash),Beaver 7 ****

MINING DIV: Skeena ASSESSMENT REPORT 15677 INFO CLASS 4
LOCATION: LAT. 53 29 48 LONG. 127 41 18 NTS:
CLAIMS: Beaver 2,Beaver 5-7
OPERATOR: Whitesail Ventures
AUTHOR: Horne, E.; Meyers, E.
COMMODITIES: Gold,Copper,Silver
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group tuffs, metasediments and diorites in contact with Upper Cretaceous Coast Range intrusives. Gold in pyrite occurs in quartz veins.
WORK DONE: GEOL 1:10 000,1:5000,1:1000
ROCK 27:Au,Ag,Cu
EMGR 1.0 km;VLF
MAGG 1.0 km
REFERENCES: M.I. 093E 095-BEAVER (SMITH-NASH);093E 014-BEAVER 7

**** Coles ****

MINING DIV: Omineca ASSESSMENT REPORT 16677 INFO CLASS 3
LOCATION: LAT. 53 27 24 LONG. 127 17 05 NTS:
CLAIMS: *Cole I-IV*
OPERATOR: QPX Min.
AUTHOR: Lee, L.
COMMODITIES: Gold,Silver
DESCRIPTION: Mineralization on the property comprises numerous quartz veins, stringers and stockworks, varying from a few centimetres in width up to 4 metres. Sulphide content is usually low. Extensive propylite is associated with the veins and argillic alteration is common as selvages. Mineralization is hosted in lapilli tuffs of the Lower Jurassic Hazelton Group. Age of the mineralization is likely Upper Cretaceous to Early Jurassic.
WORK DONE: GEOL 1:5000
SOIL 126;multielement
SILT 3;multielement
ROCK 74;multielement
LINE 53.0 km
REFERENCES: A.R. 12666,14531
M.I. 093E 110-COLES

**** Fab 45,Fab 49 ****

MINING DIV: *** ASSESSMENT REPORT 15980 INFO CLASS 3
LOCATION: LAT. 53 32 00 LONG. 127 14 00 NTS:
CLAIMS: Mark-K,Ryan
OPERATOR: Westbank Res.
AUTHOR: Parkinson, J.; Pezzot, E.
COMMODITIES: Copper,Molybdenum
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group andesites. Remnants of Kasalka Group pyroclastics and a dacite porphyry laccolith are present at the north central junction of the claims. A 2 kilometre elliptical body of Cretaceous quartz

diorite is mineralized with magnetite and contains zones of sericite alteration.
WORK DONE: EMAB 155.0 km;VLF
MAGA 155.0 km
REFERENCES: A.R. 01073,02664,03309
M.I. 093E 042-FAB 49;093E 044-FAB 45

**** Oriental ****

MINING DIV: Omineca ASSESSMENT REPORT 16460 INFO CLASS 4
LOCATION: LAT. 53 45 05 LONG. 127 08 40 NTS:
CLAIMS: Oriental,Oriental 1-6
OPERATOR: Atna Res.
AUTHOR:
COMMODITIES: Silver,Lead
DESCRIPTION: Lower Jurassic Hazelton Group volcanic rocks are cut by quartz veins mineralized with molybdenite and chalcopyrite.
REFERENCES: A.R. 13088
M.I. 093E 051-ORIENTAL

**** Oriental ****

MINING DIV: *** ASSESSMENT REPORT 16017 INFO CLASS 3
LOCATION: LAT. 53 44 42 LONG. 127 08 36 NTS:
CLAIMS: Cor
OPERATOR: Geokor Energy Holdings
AUTHOR: Paxton, J.
COMMODITIES: Silver,Lead,Zinc,Gold,Molybdenum
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group greenstone, ash tuff, lapilli tuff, quartz-nodule tuff and quartz diorite.
WORK DONE: ROCK 8;Au,Ag,Cu,Pb,Zn,Mo
SOIL 15;Au,Ag,Pb,Zn
GEOL 1:5000
MAGG 20.0 km
EMGR 20.0 km;VLF
REFERENCES: M.I. 093E 051-ORIENTAL

**** PPACC ****

MINING DIV: Omineca ASSESSMENT REPORT 16356 INFO CLASS 3
LOCATION: LAT. 53 40 00 LONG. 127 15 24 NTS:
CLAIMS: Ppacc
OPERATOR: Triple Star Res.
AUTHOR: Goldsmith, L.; Kallock, P.
DESCRIPTION: Lower Cretaceous marine sediments of the Skeena Group including mudstone, argillite, lithic wacke and lesser pebble conglomerate are intruded by Eocene or younger dykes, sills, plugs of andesite, granodiorite, and dacite. The property contains a large zone of pyritization and veinlets of sphalerite and galena.
WORK DONE: ROCK 6;Cu,Pb,Zn,Ag
GEOL 1:2500
SOIL 634;Cu,Pb,Zn,Ag
REFERENCES:

**** Play ****

MINING DIV: *** ASSESSMENT REPORT 16146 INFO CLASS 3
LOCATION: LAT. 53 31 00 LONG. 127 03 12 NTS:
CLAIMS: Play 1-3
OPERATOR: Marley Mines
AUTHOR: Richards, T.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group volcanics intruded by dykes and small plugs. Shear zones with associated quartz veins, stockworks, silicification and/or breccia systems contain anomalous precious metal mineralization.
WORK DONE: PROS 1:5000
TREN 200.0 m;8 trenches
ROCK 127;multielement
SOIL 92;multielement
SILT 25;multielement
REFERENCES: A.R. 12326
M.I. 093E 096-PLAY

**** Hope ****

MINING DIV: Omineca ASSESSMENT REPORT 15553 INFO CLASS 3
LOCATION: LAT. 53 36 36 LONG. 127 36 24 NTS:
CLAIMS: Hope 2,Hope 5,Hope 7
OPERATOR: High Hope Properties
AUTHOR: Kallock, P.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: The claims are underlain by volcanic rocks of the Lower Jurassic Hazelton Group and granitic and dioritic rocks possibly related to Eocene Nanika intrusions. Tetrahedrite-bearing volcanic breccia and quartz-galena and quartz-chalcopyrite veins containing gold and silver values occupy north-trending structures.
WORK DONE: LINE 12.0 km
GEOL 1:1000
TREN 137.0 m;33 trenches
ROCK 66;Au,Ag
PETR 2 thin sections
REFERENCES: A.R. 13374
M.I. 093E 108-HOPE

**** PC ****

MINING DIV: *** ASSESSMENT REPORT 15640 INFO CLASS 1
LOCATION: LAT. 53 56 36 LONG. 127 46 12 NTS:
CLAIMS: Copper Cliff,Full Moon,Lunar 1-18,Misty Day,New Moon
OPERATOR: Newmont Ex
AUTHOR: Visagie, D.
COMMODITIES: Lead,Zinc,Silver,Gold,Copper
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group volcanics consisting of andesitic tuffs and flows. To date 14 mineralized quartz-carbonate in-filled fault zones with variable grade galena, sphalerite, chalcopyrite, pyrite, gold and silver have been

located.
WORK DONE: SILT 31;multielement
SAMP 377;Pb,Zn,Ag,Au,Cu
GEOL 1:10 000,1:250
ROCK 996;multielement
TREN 1216.0 m;79 trenches
REST 4.5 km;VLF
DIAD 1529.0 m;17 holes,BQ
REFERENCES: A.R. 03251,03252,07022,09709,11153,11764
M.I. 093E 011-PC

**** West View ****

MINING DIV: Omineca ASSESSMENT REPORT 16578 INFO CLASS 4
LOCATION: LAT. 53 45 11 LONG. 127 10 30 NTS:
CLAIMS: Win 1-4
OPERATOR: Atna Res
AUTHOR: Hamblin, R.
COMMODITIES: Gold,Silver,Zinc,Lead
DESCRIPTION: Lower Jurassic Hazelton Group volcanic and sedimentary rocks host high grade precious metals in massive sulphide veins.
WORK DONE: SILT 6;multielement
ROCK 22;multielement
REFERENCES: M.I. 093E 074-WEST VIEW

**** West View ****

MINING DIV: *** ASSESSMENT REPORT 15786 INFO CLASS 4
LOCATION: LAT. 53 45 18 LONG. 127 10 42 NTS:
CLAIMS: Win 1-4
OPERATOR: Hamblin, R.
AUTHOR:
COMMODITIES: Gold,Silver,Zinc,Lead
DESCRIPTION: Steeply dipping quartz veins mineralized with pyrite, sphalerite and chalcopyrite occur in Lower Jurassic Hazelton Group volcanic flows and tuffs.
WORK DONE: ROCK 15;multielement
PROS 1:2000
REFERENCES: M.I. 093E 074-WEST VIEW

**** Tets ****

MINING DIV: Omineca ASSESSMENT REPORT 16003 INFO CLASS 4
LOCATION: LAT. 53 50 30 LONG. 126 58 42 NTS:
CLAIMS: Tets
OPERATOR: Shelford, J
AUTHOR: Shelford, J
COMMODITIES: Copper,Zinc,Lead,Silver
DESCRIPTION: The claims are underlain by volcanic and sedimentary rocks.
WORK DONE: PITS 5
DIAD 33.2 m;2 holes,EX
REFERENCES: A.R. 04580,07101,09072,09248
M.I. 093E 084-TETS

**** Chief ****

MINING DIV: *** ASSESSMENT REPORT 16690 INFO CLASS 4
LOCATION: LAT. 53 09 57 LONG. 124 53 59 NTS:
CLAIMS: Chief
OPERATOR: Rozek, D.
AUTHOR: Rozek, D.
DESCRIPTION: Mt. Davidson, at the southern end of the Fawnee Range, consists of a volcanic pile of rhyolite, andesite, argillite and their associated tuffs and breccias covered by glacial drift at lower elevations. Theses are identified as Tertiary Ootsa Lake Group or possibly Lower Jurassic Hazelton Group.
WORK DONE: SOIL 57;Ag,As,Cu,Zn,Pb
ROCK 2;Ag,As,Cu,Zn,Pb
PROS 1:10 000
TRAL 2.5 km
REFERENCES:

**** Dave ****

MINING DIV: Omineca ASSESSMENT REPORT 16533 INFO CLASS 4
LOCATION: LAT. 53 10 00 LONG. 124 52 00 NTS:
CLAIMS: Dave
OPERATOR: Rozek, D.
AUTHOR: Rozek, D.
DESCRIPTION: Mt. Davidson at the southern end of the Fawnee Range consists of a volcanic pile of rhyolite, andesite, argillites and associated tuffs and breccias covered by glacial drift from the west. The rocks are identified as Tertiary Ootsa Lake Group or possibly Lower Jurassic Hazelton Group.
WORK DONE: SOIL 100;Cu,Zn,Pb,Ag
PROS 1:10 000
REFERENCES: A.R. 12963,15403

**** Dave ****

MINING DIV: *** ASSESSMENT REPORT 15403 INFO CLASS 4
LOCATION: LAT. 53 09 42 LONG. 124 51 30 NTS:
CLAIMS: Dave
OPERATOR: Rozek, D.
AUTHOR:
DESCRIPTION: The claim appears to be underlain by volcanic and sedimentary rocks. Soil and rock sample results are inconclusive.
WORK DONE: SOIL 38;Cu,Ag,Au
ROCK 13;Cu,Ag,Au
REFERENCES: A.R. 12963

**** Mary-Lou ****

MINING DIV: Omineca ASSESSMENT REPORT 16435 INFO CLASS 4
LOCATION: LAT. 53 10 24 LONG. 124 50 12 NTS:
CLAIMS: Mary Lou
OPERATOR: Rozek, D.

AUTHOR:
DESCRIPTION: The claim area is underlain by rhyolite, andesite, argillite and associated tuffs and breccias.
WORK DONE: SOIL 50;Cu,Pb,Zn,Ag,As
REFERENCES:

**** Jay Byrd ****

MINING DIV: *** ASSESSMENT REPORT 15404 INFO CLASS 4
LOCATION: LAT. 53 11 12 LONG. 125 25 42 NTS:
CLAIMS: Jay Byrd
OPERATOR: Rozek, D.
AUTHOR:
DESCRIPTION: The claim is underlain by Tertiary Ootsa Lake Group rhyolite. Soil survey results are inconclusive.
WORK DONE: SOIL 44;Ag,Au
ROAD 20.0 km
LINE 15.0 km
REFERENCES:

**** Pig ****

MINING DIV: Omineca ASSESSMENT REPORT 15584 INFO CLASS 3
LOCATION: LAT. 53 27 24 LONG. 124 50 12 NTS:
CLAIMS: Pig,Pig 2-5
OPERATOR: Lac Min.
AUTHOR: Turna, R.
DESCRIPTION: Andesite, probably belonging to the Lower Jurassic Hazelton Group underlies most of the claims. A slightly pyritic outcrop returned an anomalous gold value.
WORK DONE: LINE 33.5 km
HMIN 1;Au,Ag,As,Sb,Hg
EMGR 40.0 km;VLF
ROCK 11;Au,Ag,As,Sb,Hg
SOIL 9;Au,Ag,As,Sb,Hg
SILT 3;Au,Ag,As,Sb,Hg
REFERENCES: A.R. C9464,14939

**** Trout ****

MINING DIV: *** ASSESSMENT REPORT 16539 INFO CLASS 3
LOCATION: LAT. 53 39 12 LONG. 124 44 30 NTS:
CLAIMS: Trout 1-3,Trout 13,Trout 5
OPERATOR: Welcome North Mines
AUTHOR: Schmidt, A.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by intermediate to felsic volcanic rocks of the Eocene Ootsa Lake Group. Multi-stage explosion breccias are developed within andesites and trachytes. Silicification of breccias is characterized by banded chalcedonic filling of voids. Mineralization is associated with silicification.
WORK DONE: TREN 674.0 m;17 trenches
SOIL 1191;multielement
ROAD 0.5 km
ROTD 767.0 m;13 holes

SAMP 671;Au
GEOL 1:1000,1:200
ROCK 359;Au
REFERENCES: M.I. 093F 044-TROUT

**** Ootsa ****

MINING DIV: Omineca ASSESSMENT REPORT 16581 INFO CLASS 3
LOCATION: LAT. 53 32 02 LONG. 125 10 41 NTS:
CLAIMS: Ootsa 1
OPERATOR: Newmont Ex. of Can.
AUTHOR: Nebocat, J.
COMMODITIES: Fluorite
DESCRIPTION: An andesitic stock intrudes felsic volcanics of latite to rhyolite composition believed to be part of the Eocene Ootsa Lake Group. A quartz-fluorite vein system, 75 by 300 metres occurs in the stock and adjacent rhyolite near the intersection of two faults trending northerly and northeasterly. No attitudes or stratigraphic relations were determined in the volcanics.
WORK DONE: SOIL 403;multielement
ROCK 20;multielement
GEOL 1:2500
LINE 12.7 km
REFERENCES: M.I. 093F 051-OOTSA

**** Rhub ****

MINING DIV: *** ASSESSMENT REPORT 16593 INFO CLASS 2
LOCATION: LAT. 53 37 36 LONG. 125 30 35 NTS:
CLAIMS: Barb 1,Rhub 12-13,Rhub 2
OPERATOR: Mingold Res.
AUTHOR: Taylor, K.
DESCRIPTION: The property is underlain by Tertiary Eocene rhyolite flows and tuffs of the Ootsa Lake Group that are unconformably overlain by basalt flows of Oligocene-Miocene age.
WORK DONE: SOIL 2452;multielement
ROCK 153;multielement
TREN 1040.0 m;21 trenches
REFERENCES:

Prince George O93G

**** Bar ****

MINING DIV: Cariboo ASSESSMENT REPORT 15896 INFO CLASS 3
LOCATION: LAT. 53 06 00 LONG. 122 12 00 NTS:
CLAIMS: Bar 1-2,Bar 5-6
OPERATOR: Pundata Gold
AUTHOR: Hewgill, W.
DESCRIPTION: The Bar claim group is situated near the eastern edge of the Intermontane Belt on a northwesterly-trending assemblage of Upper Triassic-Lower Jurassic volcanic rocks referred to as the Quesnel Trough. Outcrop on the property is very limited but it can be inferred that the property is underlain by Upper Triassic sediments

on the eastern flank of the Quesnel Trough.
WORK DONE: ROCK 1;Au,Ag,As,Co,Mo,V
SOIL 867;Au,Ag,As,Co,Mo
LINE 92.1 km
REFERENCES: A.R. 14986,15539

**** Bar ****

MINING DIV: *** ASSESSMENT REPORT 15539 INFO CLASS 3
LOCATION: LAT. 53 06 30 LONG. 122 12 00 NTS:
CLAIMS: Bar 1-2,Bar 5-6
OPERATOR: Trio Gold
AUTHOR: Pezzot, E.
DESCRIPTION: The claims lie within the northwesterly trending Quesnel Trough and are underlain primarily by andesite flows, tuffs, agglomerate, basalt, breccia and argillite of the Upper Triassic Takla Group.
WORK DONE: EMAB 168.0 km;VLF
MAGA 168.0 km
REFERENCES: A.R. 14986

**** Bau ****

MINING DIV: Cariboo ASSESSMENT REPORT 16374 INFO CLASS 3
LOCATION: LAT. 53 12 30 LONG. 122 10 00 NTS:
CLAIMS: Bau 1-4
OPERATOR: Eureka Res.
AUTHOR: Leishman, D.
DESCRIPTION: An ultramafic intrusive lying within a package of sediments and volcanics of Paleozoic age (Cariboo Group) has a number of anomalous gold values (soils) associated with it. Quartz carbonate veining (some mariposite) and sericite alteration of the Cariboo Group has occurred near the contact of the intrusive. Further work is planned.
WORK DONE: GEOL 1:5000
SOIL 910;Au
PETR 4 samples
REFERENCES: A.R. 15113

**** Boo 3 ****

MINING DIV: *** ASSESSMENT REPORT 15771 INFO CLASS 4
LOCATION: LAT. 53 10 12 LONG. 122 15 00 NTS:
CLAIMS: Boo 3
OPERATOR: Duke Min.
AUTHOR: Pezzot, E.
DESCRIPTION: Glacial cover predominates the area which is projected as being underlain by northwesterly trending Upper Triassic-Lower Jurassic Takla Group andesite flows, tuffs, agglomerate, basalt, breccia and argillite.
WORK DONE: EMAB 50.0 km;VLF
MAGA 50.0 km
REFERENCES:

**** Cottonwood ****

MINING DIV: Cariboo ASSESSMENT REPORT 16114 INFO CLASS 3
LOCATION: LAT. 53 06 00 LONG. 122 15 00 NTS:
CLAIMS: CR,CWR,CWR 2-4,HO.O
OPERATOR: Gallant Gold Mines
AUTHOR: Podolski, G.
COMMODITIES: Placer Gold,Platinum
DESCRIPTION: The claims cover an erosional window through Miocene Plateau basalts in which the oldest exposed bedrock consists of a series of metamorphosed Permian-Pennsylvanian Cache Creek Group pelitic and argillaceous sedimentary rocks. The metasediments have been hornfelsed by a complex multi-phase intrusive body composed dominantly of porphyritic quartz diorite. The contact between the intrusive and the sediments commonly contains pyrite and is usually highly silicified. All quartz veins known in the area appear to be associated with silicified zones.
WORK DONE: MAGA 190.0 km
EMAB 190.0 km;HLEM,VLF
REFERENCES: M.I. 093G 025-COTTONWOOD

**** Handy ****

MINING DIV: *** ASSESSMENT REPORT 16365 INFO CLASS 4
LOCATION: LAT. 53 06 18 LONG. 122 05 18 NTS:
CLAIMS: Handy II-IV
OPERATOR: Trio Gold
AUTHOR: Roed, M.
DESCRIPTION: The claims are underlain by Jurassic-Triassic sediments, metasediments, pyroclastics and volcanics in a faulted, partly overturned syncline. Mineralization mainly consists of pyrite in quartz veining in scattered locations.
WORK DONE: MAGA 145.0 km
GEOL 1:20 000
EMAB 145.0 km;VLF
REFERENCES: A.R. 14852

**** Mary ****

MINING DIV: Cariboo ASSESSMENT REPORT 16518 INFO CLASS 3
LOCATION: LAT. 53 13 00 LONG. 122 12 00 NTS:
CLAIMS: Mary 2-14
OPERATOR: Silver Sceptre Res.
AUTHOR: Decarle, R.
DESCRIPTION: The Mary property is covered by Quaternary till and clay. Outcrop is exposed in creek valleys and in the Ahbau Highland area. The exposures consist of Upper Triassic Takla Group porphyritic andesite breccia. A major thrust fault cuts across the eastern edge of the property.
WORK DONE: EMAB 400.0 km;VLF,HLEM
MAGA 400.0 km
REFERENCES: A.R. 15822,15875

**** Mary ****

MINING DIV: *** ASSESSMENT REPORT 15875 INFO CLASS 3
LOCATION: LAT. 52 13 00 LONG. 122 15 00 NTS:
CLAIMS: Mary 2-3,Mary 5-15
OPERATOR: Silver Sceptre Res.
AUTHOR: Holgren, L.; Kowalchuk, J.
DESCRIPTION: The Mary property is covered by Quaternary till and clay. Outcrop is exposed in creek valleys and in the Ahbau Highland area. The exposure consists of Upper Triassic Takla Group, porphyritic andesite breccia. A major thrust fault cuts across the eastern edge of the property. Up to 7600 ppb gold in stream sediments coincide with two circular magnetic anomalies.
WORK DONE: ROCK 2;multielement
LINE 27.0 km
HMIN 47;multielement
EMGR 27.0 km;VLF
SILT 6;multielement
MAGG 27.0 km
REFERENCES: A.R. 15822

**** Mary ****

MINING DIV: Cariboo ASSESSMENT REPORT 15822 INFO CLASS 4
LOCATION: LAT. 53 08 18 LONG. 122 05 42 NTS:
CLAIMS: Mary 1,Mary 15-16,Mary 17 Fr.
OPERATOR: Silver Sceptre Res.
AUTHOR: Holmgren, L.; Kowalchuk, J.
DESCRIPTION: The claims are covered by Quaternary till and clay. Outcrop is exposed in creek valleys and in the Ahbau Highland area. The exposure consists of Upper Triassic Takla Group porphyritic andesite breccia. A major thrust fault cuts across the eastern edge of the property.
WORK DONE: MAGA 80.0 km
EMAB 80.0 km;VLF,HLEM
REFERENCES:

**** U,Me ****

MINING DIV: *** ASSESSMENT REPORT 16110 INFO CLASS 4
LOCATION: LAT. 53 09 12 LONG. 122 09 54 NTS:
CLAIMS: Me,U
OPERATOR: White Geophysical
AUTHOR: Hermary, R.G.; White, G.E.
DESCRIPTION: A major structural fault or contact occurs through the U claim. The claim is underlain by Upper Triassic-Lower Jurassic Takla Group phyllite and slate. Outcrops of Upper Triassic-Lower Jurassic Nicola Group augite porphyry, basaltic tuffs, flows and conglomerates with argillite and local andesitic basalt are found on the east side of the Me claim.
WORK DONE: MAGA 32.0 km
EMAB 32.0 km;VLF
REFERENCES:

**** Wingdam Creek,Wingdam ****

MINING DIV: Cariboo ASSESSMENT REPORT 16113 INFO CLASS 3
LOCATION: LAT. 53 01 42 LONG. 121 57 30 NTS:
CLAIMS: Angus,Dam,Free,Hy,Lake 1-4,Lance,Light 1-2,Mac 1-4,Most,Ram 1-4,Wing Wingdam
OPERATOR: Rise Res.
AUTHOR: Podolski, G.
COMMODITIES: Placer Gold
DESCRIPTION: The property straddles the contact between Cambrian metamorphosed sediments of the Cariboo Group and Mesozoic, mainly volcanic rocks of the Quesnel Trough. The Cariboo Group, which is present in the eastern portion of the property, is comprised predominantly of clastic rocks with lesser amounts of carbonate rocks. The rocks of the Quesnel Trough include a variety of mafic and intermediate volcanics, argillites, hornblende diorite, and occasionally felsic intrusive rocks. Quartz veins appear to be associated with felsic intrusives.
WORK DONE: MAGA 200.0 km
EMAB 200.0 km;HLEM,VLF
REFERENCES: A.R. 06295,07094,07540,07550,08269,09740,10640,10815,12738,12950
M.I. 093H 012-WINGDAM;093H 086-WINGDAM CREEK

**** Abu ****

MINING DIV: *** ASSESSMENT REPORT 15911 INFO CLASS 4
LOCATION: LAT. 53 09 00 LONG. 122 17 00 NTS:
CLAIMS: Abu,Abu 2
OPERATOR: Big Bar Gold
AUTHOR: Sadlier-Brown, T.
DESCRIPTION: The claims are situated within the Quesnel Trough in an area of heavy overburden. They are underlain by Mesozoic volcanic and sedimentary rocks of the Takla Group which are locally known to host polymetallic sulphide deposits of volcanogenic origin.
WORK DONE: SOIL 96;Au
SILT 8;Au
REFERENCES:

**** Boo ****

MINING DIV: Cariboo ASSESSMENT REPORT 16516 INFO CLASS 3
LOCATION: LAT. 53 10 24 LONG. 122 16 48 NTS:
CLAIMS: Boo 2
OPERATOR: Barytex Res.
AUTHOR: Wood, D.
DESCRIPTION: The claim is underlain by Upper Triassic volcanic and sedimentary rocks of the Takla Group. Bedrock is generally obscured by glacial overburden but local outcrops consist of dark green to dark grey andesites and basalts. No mineralization is known to occur on the property but coincident magnetic and electromagnetic anomalies in the northwest and southeast part of the grid area are considered exploration targets for volcanogenic sulphide deposits.
WORK DONE: EMGR 13.7 km;VLF

MAGG 13.8 km
SOIL 43;multielement
REFERENCES: A.R. 15540,15697

**** Boo ****

MINING DIV: *** ASSESSMENT REPORT 15540 INFO CLASS 4
LOCATION: LAT. 53 10 12 LONG. 122 16 30 NTS:
CLAIMS: Boo 2
OPERATOR: Barytex Res.
AUTHOR: Pezzot, E.
DESCRIPTION: Glacial cover predominates in the claim area. Projected geology indicates northwesterly trending Upper Triassic Takla Group andesite flows, tuffs, agglomerate, basalt, breccia and argillite.
WORK DONE: EMAB 72.0 km;VLF
MAGA 72.0 km
REFERENCES:

**** Boo ****

MINING DIV: Cariboo ASSESSMENT REPORT 15697 INFO CLASS 3
LOCATION: LAT. 53 11 30 LONG. 122 16 00 NTS:
CLAIMS: Boo 1,Boo 2
OPERATOR: Duke Min.
AUTHOR: Pezzot, E.
DESCRIPTION: Glacial cover predominates in the claims area, projected as being underlain by northwesterly trending Upper Triassic-Lower Jurassic Takla Group, consisting of andesite flows, tuffs, agglomerate, basalt, breccia and argillite.
WORK DONE: EMAB 113.0 km;VLF
MAGA 113.0 km
REFERENCES: A.R. 15540

**** Cot ****

MINING DIV: *** ASSESSMENT REPORT 16513 INFO CLASS 3
LOCATION: LAT. 53 00 54 LONG. 122 20 12 NTS:
CLAIMS: Cot 2
OPERATOR: First Nuclear
AUTHOR: Climie, J.
DESCRIPTION: Weak to moderate gold soil geochemical anomalies were defined in the northwestern part of the claim. These anomalies occur to a strong magnetic anomaly thought to represent syenite intruded into Upper Triassic Takla Group volcanics. Syenite is probably coeval with the volcanics. Moderate to intense skarn metasomatism has occurred. Magnetite and minor chalcopyrite and pyrite is associated with the skarn.
WORK DONE: LINE 21.8 km
PETR 3 thin sections
SILT 14;Au
GEOL 1:2500
SOIL 423;Au
REFERENCES:

**** G ****

MINING DIV: Cariboo ASSESSMENT REPORT 16645 INFO CLASS 3
LOCATION: LAT. 53 11 26 LONG. 122 19 29 NTS:
CLAIMS: G 22-34
OPERATOR: Gabriel Res.
AUTHOR: Lechow, W.
DESCRIPTION: The claims are primarily underlain by Upper Triassic Takla Group volcanic and sedimentary rocks, which are intruded by Early Cretaceous granitic dykes and stocks. Early Tertiary sediments overlie the Takla Group rocks in the southwest part of Ahbau Creek.

WORK DONE: MAGA 275.0 km
EMAB 275.0 km;VLF,HLEM
REFERENCES:

**** Hush ****

MINING DIV: *** ASSESSMENT REPORT 15529 INFO CLASS 3
LOCATION: LAT. 53 07 30 LONG. 122 23 48 NTS:
CLAIMS: Hush 4
OPERATOR: Rise Res.
AUTHOR: Holmgren, L.; Kowalchuk, J.
DESCRIPTION: The claim is located within the Quesnel Trough, a subdivision of the Intermontane Tectonic Belt and is underlain by Miocene and Pliocene sandstone, shale, conglomerate, diatomite and lignite, with exposures of Upper Triassic Takla Group volcanics.
WORK DONE: MAGG 8.0 km
EMGR 8.0 km;VLF
SOIL 51;multielement
LINE 8.0 km
REFERENCES:

**** Hush ****

MINING DIV: Cariboo ASSESSMENT REPORT 15530 INFO CLASS 3
LOCATION: LAT. 53 13 18 LONG. 122 17 54 NTS:
CLAIMS: Hush 2
OPERATOR: Rise Res.
AUTHOR: Holmgren, L.; Kowalchuk, J.
DESCRIPTION: The claim is located within the Quesnel Trough, a subdivision of the Intermontane Tectonic Belt and is underlain by Upper Triassic Takla Group volcanics intruded by Early Cretaceous Naver intrusions. The Cretaceous Naver Intrusions are comprised of quartz monzonite and diorite.
WORK DONE: IPOL 1.6 km
SOIL 66;multielement
EMGR 9.6 km;VLF
LINE 9.6 km
GEOL 1:2500
MAGG 9.6 km
SILT 8;multielement
REFERENCES:

**** MBC 3 ****

MINING DIV: *** ASSESSMENT REPORT 16469 INFO CLASS 4
LOCATION: LAT. 53 14 00 LONG. 122 26 00 NTS:
CLAIMS: MBC 3
OPERATOR: Noranda Ex.
AUTHOR: Baerg, R.
DESCRIPTION: The claim is situated within the Quesnel Trough of interbedded Triassic-Jurassic volcanics and sediments. The sediments are locally very graphitic and geophysically conductive.
WORK DONE: DIAD 80.5 m;1 hole,BQ
SAMP 22;Au,Ag,Cu,Pb,Zn
REFERENCES:

**** Mag ****

MINING DIV: Cariboo ASSESSMENT REPORT 15848 INFO CLASS 3
LOCATION: LAT. 53 07 00 LONG. 122 20 30 NTS:
CLAIMS: Mag 1-3
OPERATOR: Thios Res.
AUTHOR: Falconer, J.; Graham, J.C.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Upper Triassic Takla Group volcanic and sedimentary rocks which are intruded by possible Early Cretaceous rhyolite dykes.
WORK DONE: SOIL 289;multielement
ROCK 20;multielement
HMIN 4;multielement
TOPO 1:5000
PETR 10 polished sections
GEOL 1:5000
LINE 99.4 km
MAGG 88.9 km
EMGR 88.9 km;VLF
REFERENCES:

**** R.P.M. ****

MINING DIV: *** ASSESSMENT REPORT 16363 INFO CLASS 3
LOCATION: LAT. 53 08 00 LONG. 122 25 00 NTS:
CLAIMS: R.P.M. 1
OPERATOR: Pinegrove Res.
AUTHOR: Myers, W.; Samchek, A.
DESCRIPTION: The bedrock is composed of andesite, limestone, greywacke, and argillite of the Nicola Group of Upper Triassic age. These rocks have been faulted by several low angle thrust faults. A silt sample from the R.P.M. 1 claim contained over 1000 ppb gold.
WORK DONE: EMGR 23.0 km;VLF
LINE 25.0 km
SILT 6;multielement
REFERENCES:

**** SM ****

MINING DIV: Cariboo ASSESSMENT REPORT 16028 INFO CLASS 4
LOCATION: LAT. 53 04 18 LONG. 122 18 18 NTS:
CLAIMS: SM 8-9
OPERATOR: Sargent, D.
AUTHOR: MacGowan, K.; Sargent, D.
DESCRIPTION: No bedrock outcrops were found on the claims.
WORK DONE: PROS 1:20 000
REFERENCES:

**** Thunder ****

MINING DIV: *** ASSESSMENT REPORT 15927 INFO CLASS 2
LOCATION: LAT. 53 11 48 LONG. 122 21 30 NTS:
CLAIMS: G 27-28,G 30-31
OPERATOR: Gabriel Res.
AUTHOR: Mathison, D.; Walcott, P.E.
COMMODITIES: Gold,Copper,Silver,Zinc,Lead
DESCRIPTION: The claims are underlain by Upper Triassic Takla Group andesite-basalt flows, pyroclastic breccia flows and intercalated cherts and argillaceous rocks intruded by an Early Cretaceous granitic body to the north and by a Triassic (?) monzonite stock along Ahbau Creek. Numerous mafic-felsic dykes and sills also occur.
WORK DONE: SAMP 1200;multielement
ROCK 24;multielement
RECL
EMGR 2.9 km;HLEM
IPOL 23.2 km
DIAD 4705.3 m;46 holes,BQ,NQ
GEOL 1:500
TREN 450.0 m;8 trenches
MAGG 14.9 km
REFERENCES: A.R. 00627,02212,03385,11061,13211,13712,15084
M.I. 093G 007-THUNDER

**** Alexis ****

MINING DIV: Cariboo ASSESSMENT REPORT 15990 INFO CLASS 3
LOCATION: LAT. 53 10 48 LONG. 122 41 00 NTS:
CLAIMS: Alexis
OPERATOR: MineQuest Ex. Assoc.
AUTHOR: Campbell, K.
DESCRIPTION: The claims are underlain by Pennsylvanian-Permian Cache Creek Group limestone, chert, argillite, greenstone and ultramafic rocks.
WORK DONE: BIOG 362;multielement
LINE 21.0 km
REFERENCES:

**** Tertiary ****

MINING DIV: *** ASSESSMENT REPORT 16154 INFO CLASS 4
LOCATION: LAT. 53 07 00 LONG. 122 38 12 NTS:

CLAIMS: Can 7-9
OPERATOR: Thibault, J.
AUTHOR: Hillman, R.
COMMODITIES: Placer Gold
DESCRIPTION: A buried gold-bearing Tertiary river channel 244 metres wide is deeply incised in the Pennsylvanian Cache Creek Group of sheared black argillites. The location and direction of the paleochannel is controlled by a strong northwesterly trending splay fault related to the major Pinchi Fault.
WORK DONE: SEIS 2.3 km
REFERENCES: M.I. 093G 041-TERTIARY

**** Pogo ****

MINING DIV: Cariboo ASSESSMENT REPORT 16073 INFO CLASS 4
LOCATION: LAT. 53 12 30 LONG. 122 48 42 NTS:
CLAIMS: Pogo
OPERATOR: MineQuest Ex. Assoc.
AUTHOR: Peatfield, G.
DESCRIPTION: The area of the Pogo claim is underlain largely by Quaternary drift, and presumably by chert and argillite of the Permian-Pennsylvanian Cache Creek Group. Tertiary lavas cap the hills to the west. The trace of the Pinchi Fault lies some 5 kilometres to the east, and splays may cross the property. No gold mineralization has been observed.
WORK DONE: ROCK 4;multielement
SILT 11;multielement
REFERENCES:

**** GC ****

MINING DIV: *** ASSESSMENT REPORT 16376 INFO CLASS 3
LOCATION: LAT. 53 06 00 LONG. 123 49 00 NTS:
CLAIMS: GC 1
OPERATOR: Noranda Ex.
AUTHOR: Baerg, R.
DESCRIPTION: The property is underlain by Cretaceous age conglomerate with interbedded siltstone and sandstone. The conglomerates are locally moderately to intensely clay altered. No mineralization was found.
WORK DONE: SOIL 95;Au,Ag
ROCK 83;Au,Ag
SILT 8;Au,Ag
GEOL 1:5000
REFERENCES:

**** G ****

MINING DIV: Cariboo ASSESSMENT REPORT 16503 INFO CLASS 3
LOCATION: LAT. 53 23 18 LONG. 122 26 00 NTS:
CLAIMS: G 1-17,G 35-44,G 46-48,G South
OPERATOR: Gabriel Res.
AUTHOR: Lechow, W.
DESCRIPTION: The property is underlain by northwest striking Upper Triassic Takla Group basaltic flows, tuffs and breccias interlayered with a thick sequence of black graphitic shales and siltstones. A quartz

diorite-quartz monzonite multi-zoned intrusive forms the eastern boundary of the Takla suite of rocks. In fault contact with the eastern boundary are chlorite and sericite schists and phyllite.
WORK DONE: EMAB 600.0 km;VLF,HLEM
MAGA 600.0 km
REFERENCES:

**** HC ****

MINING DIV: *** ASSESSMENT REPORT 16423 INFO CLASS 4
LOCATION: LAT. 53 25 36 LONG. 122 31 42 NTS:
CLAIMS: HC 1
OPERATOR: Noranda Ex.
AUTHOR: Baerg, R.
DESCRIPTION: The claim is underlain by north-northwest trending Upper Triassic Takla Group volcanics and sediments. No mineralization was located.
WORK DONE: SOIL 70;Cu,Pb,Zn,Ag,As,Au
REFERENCES:

**** Tiger ****

MINING DIV: Cariboo ASSESSMENT REPORT 16520 INFO CLASS 3
LOCATION: LAT. 53 21 00 LONG. 122 45 00 NTS:
CLAIMS: Tiger
OPERATOR: Lac Min.
AUTHOR: Hogan, J.; So, Y.M.
DESCRIPTION: The Tiger claim is underlain by northeast striking Upper Triassic argillite with local interbedded sandstone. These sediments are overlain by Jurassic augite porphyry with minor dacitic and granitic dykes. The Pinchi Fault is on the southwest of the claim. Some northwest trending limonitic shear zones are anomalous with gold, arsenic and antimony values. Pyrite disseminations and fracture fillings occur locally.
WORK DONE: ROCK 35;multielement
SOIL 458;Au,As
TREN 181.2 m;6 trenches
SILT 2;multielement
LINE 22.0 km
REFERENCES:

**** York ****

MINING DIV: *** ASSESSMENT REPORT 16521 INFO CLASS 3
LOCATION: LAT. 53 18 00 LONG. 122 43 30 NTS:
CLAIMS: Mork,York 10-11,York 4-5
OPERATOR: Lac Min.
AUTHOR: Hogan, J.; So, Y.M.
COMMODITIES: Gold,Copper,Molybdenum
DESCRIPTION: The York claims are situated in the Pinchi Fault zone and underlain by Upper Triassic metasediments, Jurassic metavolcanics, augite porphyry and a Cretaceous granodioritic stock. The major bedding and schistosity strike northwest with southwest dips. A pyrite-pyrrhotite halo is widely distributed with molybdenite concentrated at the granodiorite/sediment contacts. Gold-arsenic

anomalies were found in northwest limonitic and northeast trending shear zones few centimetres to 10 metres wide.
WORK DONE: SOIL 120;Au,As
LINE 9.9 km
ROCK 111;multielement
SILT 1;Au,As
TREN 863.7 m;27 trenches
REFERENCES: A.R. 10216,10599,11388,12174
M.I. 093G 048-YORK

**** Hixon Creek,Jo,Pioneer,Ceyanne,Quesnel Quartz

MINING DIV: Cariboo ASSESSMENT REPORT 15926 INFO CLASS 1
LOCATION: LAT. 53 20 00 LONG. 122 25 00 NTS:
CLAIMS: G 10,G 12-13,G 36-37,G 4-5,G 42-43,G 48,G 7-8
OPERATOR: Gabriel Res.
AUTHOR: Kowalchuk, J.; Newton, D.
COMMODITIES: Silver,Lead,Zinc,Copper
DESCRIPTION: The property is primarily underlain by early Mesozoic, Takla Group volcanic and sedimentary rocks which are intruded by early Cretaceous granitic dykes and stocks. Early Tertiary sediments overlie Takla rocks in the southwest parts of the Yardley Lake blocks. Late Precambrian meta-sedimentary rocks occur east of and in fault contact with a large 10 kilometre long, northwest trending quartz dyke.
WORK DONE: GEOL 1:10 000,1:5000
MAGG 114.7 km
EMGR 51.7 km;HL,Max-Min
IPOL 10.5 km
ROCK 430;multielement
DIAD 2114.0 m;19 holes,NQ,BQ
SAMP 430;Au
RECL
REFERENCES: A.R. 03484,07787,08343,12211,13212,14266,15085
M.I. 093G 004-JO;093G 013-PIONEER;093G 014-CEYANNE;093G 015-QUESNEL;093G 054-QUARTZ MINING;093G 055-HIXON CREEK;093G 056-TERRY CREEK;093G 029-CANYON CREEK

**** Ped ****

MINING DIV: *** ASSESSMENT REPORT 16571 INFO CLASS 4
LOCATION: LAT. 53 21 30 LONG. 122 28 00 NTS:
CLAIMS: Ped 3
OPERATOR: Noranda Ex.
AUTHOR: Baerg, R.
DESCRIPTION: The claim is underlain by interbedded Upper Triassic Takla Group volcanics and sediments. Rock units trend north-northwest. No mineralization was detected.
WORK DONE: SOIL 99;Cu,Zn,Pb,Ag,As,Au
REFERENCES:

**** SM ****

MINING DIV: Cariboo ASSESSMENT REPORT 16088 INFO CLASS 4
LOCATION: LAT. 53 17 48 LONG. 122 17 48 NTS:

CLAIMS: SM 2
OPERATOR: Sargent, D.
AUTHOR: MacGowan, K.; Sargent, D.
DESCRIPTION: The claim appears to be underlain by Lower Cretaceous Naver Intrusions.
WORK DONE: PROS 1:20 000
LINE 22.5 km
REFERENCES:

**** Buck ****

MINING DIV: *** ASSESSMENT REPORT 16375 INFO CLASS 3
LOCATION: LAT. 53 44 00 LONG. 122 27 30 NTS:
CLAIMS: Buck 1
OPERATOR: Lac Min.
AUTHOR: Hogan, J.; So, Y.M.
DESCRIPTION: This claim is underlain by the Early Jurassic black shale, phyllite and greywacke. The bedding strikes about 16 degrees, dipping 67 degrees west and 70 degrees east. Some dykes are Early Cretaceous granodiorite (pyritic) and diorite, medium to coarse grain.
WORK DONE: LINE 19.2 km
SILT 2;multielement
ROCK 5;multielement
SOIL 185;multielement
REFERENCES:

**** Oscar ****

MINING DIV: Cariboo ASSESSMENT REPORT 16422 INFO CLASS 4
LOCATION: LAT. 53 30 30 LONG. 122 34 48 NTS:
CLAIMS: Oscar 1
OPERATOR: Noranda Ex.
AUTHOR: Baerg, R.
DESCRIPTION: The claim is underlain by north-northwest trending Upper Triassic Takla Group volcanics and sediments. No mineralization was located.
WORK DONE: SOIL 65;Cu,Pb,Zn,Ag,As,Au
REFERENCES:

**** SM ****

MINING DIV: *** ASSESSMENT REPORT 16011 INFO CLASS 4
LOCATION: LAT. 52 58 30 LONG. 122 01 00 NTS:
CLAIMS: SM 3-7,SM 11-14,SM 101-115
OPERATOR: Sargent, D.
AUTHOR: MacGowan, K.; Sargent, D.
DESCRIPTION: The claims are underlain by Upper Triassic-Lower Jurassic sedimentary and volcanic rocks.
WORK DONE: LINE 186.0 km
PROS 1:20 000
REFERENCES:

**** Bell-Holm ****

MINING DIV: Cariboo ASSESSMENT REPORT 16515 INFO CLASS 3
LOCATION: LAT. 53 52 18 LONG. 122 51 12 NTS:
CLAIMS: Marie 1-3
OPERATOR: Byron Res.
AUTHOR: Westerman, C.
COMMODITIES: Gold,Silver
DESCRIPTION: Erratic gold-silver values occur in quartz veins hosted by andesitic metavolcanic rocks.
WORK DONE: SAMP 89;multielement
DIAD 304.8 m;5 holes,BQ
GEOL 1:20 000
ROCK 24;multielement
TREN 190.0 m;7 trenches
REFERENCES: A.R. 15490
M.I. 093G 023-BELL-HOLM

**** Bell-Holm ****

MINING DIV: *** ASSESSMENT REPORT 15490 INFO CLASS 2
LOCATION: LAT. 53 52 30 LONG. 122 51 00 NTS:
CLAIMS: Marie 1-3
OPERATOR: Byron Res.
AUTHOR: Westerman, C.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by a mixture of Upper Triassic-Lower Jurassic sedimentary and volcanic rocks which are intruded by coarse-grained hornblende diorite. Fault-controlled mineralized quartz stockworks occur within the volcanic and sedimentary rocks.
WORK DONE: EMGR 25.5 km;VLF
SOIL 1452;multielement
ROCK 99;multielement
GEOL 1:5000,1:1000
LINE 31.0 km
MAGG 25.5 km
REFERENCES: M.I. 093G 023-BELL-HOLM

McBride 093H

**** Tinsdale ****

MINING DIV: Cariboo ASSESSMENT REPORT 16284 INFO CLASS 3
LOCATION: LAT. 53 01 24 LONG. 121 13 48 NTS:
CLAIMS: Tinsdale 1-3
OPERATOR: Cominco
AUTHOR: Pride, K.
DESCRIPTION: The property consists of Cambrian black shale, green phyllite and limestone on its east half and Ordovician-Mississippian black slate, argillite and cherty argillite, black limestone and silicified limestone on the west. Isolated outcrops of Upper Silurian-Lower Devonian chert breccia occur on the Tinsdale 1 claim.

WORK DONE: SOIL 365;Cu,Pb,Zn,Ba
ROCK 77;Cu,Pb,Zn,Ba
REFERENCES: A.R. 15009,15366

**** Acme ****

MINING DIV: *** ASSESSMENT REPORT 15832 INFO CLASS 4
LOCATION: LAT. 53 03 36 LONG. 121 43 06 NTS:
CLAIMS: Acme,Acme Fr.,Apex,Chisholm 5,Chisholm 8 Fr.,Haag's Dimple,Oslo 1 Ypres
OPERATOR: Winex Res.
AUTHOR: Outtrim, C.; Pasieka, C.
DESCRIPTION: The claims are underlain by phyllites, limestones and micaceous quartzites of the Cambrian Cariboo Group. Mineralization is associated with quartz veining striking north-northwest and north-northeast with dips of 30 degrees easterly.
WORK DONE: LINE 24.6 km
MAGG 10.9 km
REFERENCES:

**** Arch ****

MINING DIV: Cariboo ASSESSMENT REPORT 16116 INFO CLASS 3
LOCATION: LAT. 53 03 30 LONG. 121 33 00 NTS:
CLAIMS: Arch 1-4
OPERATOR: Blackberry Gold Res.
AUTHOR: Myers, W.
DESCRIPTION: Bedrock in the area of the claims is composed of argillite, phyllite, quartzite, metavolcanics and limestone of the Cambrian Cariboo Group. Northerly trending faults cut the claim block and act as conduits for mineralization. The rocks have been subjected to a low degree of metamorphism. Northeast trending fractures contain quartz and pyrite with gold mineralization.
WORK DONE: EMGR 35.0 km;VLF
REFERENCES: A.R. 14836

**** Barkerville ****

MINING DIV: *** ASSESSMENT REPORT 15942 INFO CLASS 3
LOCATION: LAT. 53 03 00 LONG. 121 42 00 NTS:
CLAIMS: Grub 1-4,Horn 7,May 1,Onsun 2-8
OPERATOR: Mark Management
AUTHOR: Podolski, G.
DESCRIPTION: The property is underlain by Proterzoic Kaza Group and Snowshoe Formation. The geology is described as feldspathic sandstone and granule conglomerate, locally micaceous and schistose; argillite, phyllite and schist, minor conglomerate limestone and marble.
WORK DONE: EMAB 170.0 km;EM,VLF
MAGA 170.0 km
REFERENCES:

**** Burns Creek ****

MINING DIV: Cariboo ASSESSMENT REPORT 16174 INFO CLASS 4
LOCATION: LAT. 53 04 48 LONG. 121 40 00 NTS:

CLAIMS: Happy
OPERATOR: Sutherland, W.
AUTHOR: Sutherland, W.
COMMODITIES: Placer Gold
DESCRIPTION: The claims are underlain by Cambrian Snowshoe Formation greywacke, graphitic schist and quartzite.
WORK DONE: SAMP 89;Au,Ag
DIAD 94.8 m;3 holes,BQ
REFERENCES: M.I. O93H 108-BURNS CREEK

**** Cariboo Coronada ****

MINING DIV: *** ASSESSMENT REPORT 15837 INFO CLASS 3
LOCATION: LAT. 53 06 42 LONG. 121 33 42 NTS:
CLAIMS: Yuma
OPERATOR: Dyakowski, A.
AUTHOR: Myers, W.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by argillite, phyllite, quartzite and limestone of the Cambrian Cariboo Group. Quartz veins with pyrite and gold mineralization occur in altered zones along faults.
WORK DONE: EMGR 13.4 km;VLF
LINE 13.4 km
REFERENCES: A.R. 14454
M.I. O93H 075-CARIBOO CORONADA

**** Eight Mile Lake,Shepherd Creek ****

MINING DIV: Cariboo ASSESSMENT REPORT 16109 INFO CLASS 3
LOCATION: LAT. 53 08 36 LONG. 121 32 30 NTS:
CLAIMS: Emi 1-3
OPERATOR: Actoma Res.
AUTHOR: Myers, W.
COMMODITIES: Placer Gold
DESCRIPTION: The claims are underlain by phyllite, argillite, quartzite and limestone of the Cambrian Cariboo Group. Northeast fractures with pyritic quartz veins contain free gold. Argillite is altered to graphite near faults.
WORK DONE: ROAD 2.0 km
DIAD 584.3 m;7 holes,NQ
REFERENCES: A.R. 12023,13630
M.I. O93H 014-EIGHT MILE LAKE;O93H 045-SHEPHERD CREEK

**** Harry ****

MINING DIV: *** ASSESSMENT REPORT 16270 INFO CLASS 3
LOCATION: LAT. 53 08 48 LONG. 121 40 24 NTS:
CLAIMS: Harry
OPERATOR: Campbell, K.
AUTHOR: Campbell, K.
DESCRIPTION: Devonian-Permian black phyllite, micaceous quartzite and limestone dip to the northeast. Mineralization includes arsenopyrite, pyrite and galena in quartz veins.
WORK DONE: SOIL 112;multielement
REFERENCES:

**** Lightning ****

MINING DIV: Cariboo ASSESSMENT REPORT 16315 INFO CLASS 3
LOCATION: LAT. 53 02 24 LONG. 121 41 00 NTS:
CLAIMS: Lightning 8-9
OPERATOR: Lightning Creek Mines
AUTHOR: Podolski, G.
DESCRIPTION: The claims are underlain by the Paleozoic Snowshoe Formation which is folded into the Lightning Creek anticlinorium.
WORK DONE: MAGA 400.0 km
EMAB 400.0 km;VLF,HLEM
REFERENCES:

**** Lowhee,Rainbow ****

MINING DIV: *** ASSESSMENT REPORT 16517 INFO CLASS 4
LOCATION: LAT. 53 03 30 LONG. 121 34 30 NTS:
CLAIMS: Lowhee 1-3,Rainbow
OPERATOR: Dyakowski, A.
AUTHOR: Myers, H.; Samchek, A.
DESCRIPTION: Bedrock in the area of the claims is composed of argillite, phyllite, quartzite, metavolcanics and limestones of the Cambrian Cariboo Group. Northerly trending faults cut the claim block and act as conduits for mineralization. The rocks have been subjected to a low degree of metamorphism. Northeast trending fractures contain quartz and pyrite with gold mineralization. This area also contains replacement type pyrite and gold mineralization.
WORK DONE: EMGR 5.7 km;VLF
REFERENCES:

**** Nelson ****

MINING DIV: Cariboo ASSESSMENT REPORT 15846 INFO CLASS 4
LOCATION: LAT. 53 06 18 LONG. 121 41 42 NTS:
CLAIMS: Nelson
OPERATOR: Hill, M.
AUTHOR:
DESCRIPTION: The claim appears to be underlain by Cambrian Cariboo Group rocks.
WORK DONE: PROS 1:20 000
LINE 1.8 km
REFERENCES:

**** Nelson Creek ****

MINING DIV: *** ASSESSMENT REPORT 15947 INFO CLASS 3
LOCATION: LAT. 53 05 00 LONG. 121 43 00 NTS:
CLAIMS: Burns 14-17,Chisholm 1-4,Chisholm 6-7 Fr.,Garbo,Garbo 1 etal,Logan Ore 1-5,Oregon,Sky 1-5,Wonder
OPERATOR: Gallant Gold Mines
AUTHOR: Decarle, R.
COMMODITIES: Gold,Lead,Zinc
DESCRIPTION: The property is underlain by a mix of volcanic and volcani-

clastic rocks with zones of alteration, minor disseminated sulphide mineralization and sulphide coated fractures. Syenite porphyry dykes intersect the volcanics.
WORK DONE: EMAB 145.0 km;EM,VLF
MAGA 145.0 km
REFERENCES: M.I. O93H 007-NELSON CREEK;O93H 059-NELSON CREEK

**** Tel ****

MINING DIV: Cariboo ASSESSMENT REPORT 16647 INFO CLASS 3
LOCATION: LAT. 53 09 43 LONG. 121 33 48 NTS:
CLAIMS: Tel 1,Tel 6,Tel 9-10
OPERATOR: Noranda Ex.
AUTHOR: Savell, M.J.
DESCRIPTION: The property is underlain by sedimentary rocks of the Cariboo and Barkerville terranes. Drilling in close proximity to the Pleasant Valley Thrust revealed mylonitization, shearing, fracturing and quartz veining.
WORK DONE: DIAD 292.6 m;4 holes,NQ
SAMP 30;multielement
REFERENCES:

**** Cosalite ****

MINING DIV: *** ASSESSMENT REPORT 16002 INFO CLASS 3
LOCATION: LAT. 53 11 30 LONG. 121 46 00 NTS:
CLAIMS: Mustang 1-3
OPERATOR: Candorada Mines
AUTHOR: Ash, W.; Embree, K.
COMMODITIES: Lead
DESCRIPTION: Four sequences (Devonian-Mississippian phyllite; Mississippian-Permian quartzite; Mississippian-Permian quartzite, phyllite and schist; Mississippian-Pennsylvanian and Permian diorite, basalt gabbro and serpentinite) were folded and thrust in the Post-Permian age and later metamorphosed. Several phases of faulting provided channels for gold-quartz veins generally with low quantities of sulphides.
WORK DONE: EMGR 14.1 km;HLEM
LINE 83.0 km
ROAD 2.0 km
SOIL 134;Cu,Pb,Zn,Ag,As
MAGG 80.0 km
REFERENCES: A.R. 12383
M.I. O93H 32-COSALITE

**** Dang,Dee ****

MINING DIV: Cariboo ASSESSMENT REPORT 15977 INFO CLASS 4
LOCATION: LAT. 53 00 42 LONG. 121 59 18 NTS:
CLAIMS: Dang,Dee 4
OPERATOR: Carstens, D.
AUTHOR: Carstens, D.
DESCRIPTION: The claims appear to be underlain by argillite, siltstone and volcanic breccia.
WORK DONE: PROS 1:50 000

LINE 22.5 km
REFERENCES:

**** Shalom ****

MINING DIV: *** ASSESSMENT REPORT 16397 INFO CLASS 2
LOCATION: LAT. 53 04 00 LONG. 121 58 00 NTS:
CLAIMS: Shalom 1-4,Shalom 6-7
OPERATOR: Pinegrove Res.
AUTHOR: Samchek, A.
DESCRIPTION: The claims are underlain by the Cariboo Mountain Group (composed of the Snowshoe and Kaza Formations). These formations contain various carbonate rocks, clastic sedimentary rocks and minor intrusive dykes. Despite low to medium effects of deformation and regional metamorphism, the rocks still commonly show original bedding and other sedimentary features.
WORK DONE: MAGG 38.7 km
EMGR 94.9 km
SILT 30;multielement
ROCK 13;Au,Cu,Pb,Zn,Ag
LINE 104.9
ROAD 8.7 km
REFERENCES:

**** C.R. ****

MINING DIV: Cariboo ASSESSMENT REPORT 16121 INFO CLASS 3
LOCATION: LAT. 53 20 00 LONG. 121 25 00 NTS:
CLAIMS: BR 1,C.R. 1-12
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.; Savell, M.J.
DESCRIPTION: The property is underlain by pillowed basalts, chert, intermediate to felsic breccias, and basaltic flows of the Mississippian Slide Mountain Group. Several zones of red brown weathered, quartz carbonate altered rocks with minor chalcedonic quartz veinlets have been found.
WORK DONE: EMAB 312.0 km;HLEM
SOIL 310;Cu,Zn,Pb,Mo,Ag
MAGG 5.5 km
EMGR 5.5 km;HLEM
MAGA 312.0 km
REFERENCES:

**** AK ****

MINING DIV: *** ASSESSMENT REPORT 16549 INFO CLASS 2
LOCATION: LAT. 53 27 00 LONG. 121 16 12 NTS:
CLAIMS: AK I-IV,Dock 14
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.; Savell, M.J.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: The property is underlain by Upper Proterozoic black phyllitic argillites and limestones of the Isaac and Cunningham Formations. Trenching of a strong coincident lead-zinc-copper-silver-gold soil geochemical anomaly has resulted in the discovery of several quartz

veins with economic gold grades and widths. The veins appear to be both structurally and lithologically controlled.
WORK DONE: GEOL 1:2500,1:1000
MAGG 39.8 km
SOIL 3399;Pb,Zn,Au,Ag,Cu
ROAD 4.0 km
LINE 67.0 km
HMIN 6;Pb,Zn,Au,Ag,Cu
ROCK 198;Pb,Zn,Au,Ag,Cu
STRI 2 ha
SILT 18;Pb,Zn,Au,Ag,Cu
EMGR 8.9 km;VLF,HLEM
REFERENCES: M.I. 093H 133-AK

**** In ****

MINING DIV: Cariboo ASSESSMENT REPORT 15655 INFO CLASS 3
LOCATION: LAT. 53 23 00 LONG. 121 23 00 NTS:
CLAIMS: In 18-27
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.; Savell, M.J.
DESCRIPTION: The property is underlain by Hadrynian to Cambrian sequences of clastic and carbonate sediments of the Cariboo Group. A series of pyritic quartzites and sandstones trend north-northwest across the property forming a long, heavily oxidized zone visible for 3 kilometres.
WORK DONE: EMGR 3.0 km;HLEM
EMAB 87.0 km;VLF
SOIL 175;multielement
ROCK 38;Cu,Co,Ag,Au
MAGA 87.0 km
MAGG 3.0 km
REFERENCES:

**** Cush ****

MINING DIV: *** ASSESSMENT REPORT 16048 INFO CLASS 4
LOCATION: LAT. 53 32 00 LONG. 120 09 36 NTS:
CLAIMS: Cush 3-6
OPERATOR: Noranda Ex.
AUTHOR: Savell, M.J.
DESCRIPTION: The claims are underlain by black clastic sediments of the Upper Proterozoic Miette Formation. A stream draining an area containing several ferricrete build-ups and springs is anomalous in copper, lead, zinc, arsenic and cobalt. At one section of this stream the boulders and gravels are coated with a white, thin aluminum-sulphate precipitate.
WORK DONE: GRAV 0.9 km
LINE 1.0 km
SILT 2;Cu,Zn,Pb,Co
MAGG 1.0 km
SOIL 29;Cu,Co,Pb,Zn
REFERENCES: A.R. 05640

**** Twin ****

MINING DIV: Cariboo ASSESSMENT REPORT 16550 INFO CLASS 4
LOCATION: LAT. 53 33 00 LONG. 120 10 36 NTS:
CLAIMS: RGS 9-10,Twin 178,Twin 29-30
OPERATOR: Noranda Ex.
AUTHOR: Savell, M.J.
DESCRIPTION: The property is underlain by Upper Proterozoic black clastic rocks of the Lower Miette Formation. Several rusty springs are found throughout the property as well as several multielement silt anomalies. Small quartz-calcite veins are mineralized with bournonite. The regional setting and anomalous geochemistry is favourable for the occurrence of sedex type mineralization.
WORK DONE: SILT 19;multielement
ROCK 4;Cu,Ag,Pb,Au
REFERENCES:

**** YHW-1 ****

MINING DIV: *** ASSESSMENT REPORT 15463 INFO CLASS 3
LOCATION: LAT. 53 37 42 LONG. 120 50 18 NTS:
CLAIMS: YHW 1
OPERATOR: Noranda Ex.
AUTHOR: Savell, M.J.
COMMODITIES: Gold
DESCRIPTION: The claim is underlain by Proterozoic to Cambrian sequences of clastic and carbonate sediments of the Yanks Peak Formation and Midas Formation. Gold in rock chip geochemical anomalies have been detected in phyllites cut by an irregular network of quartz veinlets.
WORK DONE: SILT 13;Zn,Cu,Pb,Ag,As,Au
ROCK 33;Au
GEOL 1:5000
SOIL 75;Zn,Cu,Pb,Ag,As,Au
REFERENCES: M.I. 093H 132-YHW-1

McLeod Lake 093J

**** Veta,Mina ****

MINING DIV: Cariboo ASSESSMENT REPORT 16052 INFO CLASS 3
LOCATION: LAT. 54 27 18 LONG. 122 19 00 NTS:
CLAIMS: Dinero,Mina,Minero,Veta
OPERATOR: Teck
AUTHOR: Betmanis, A.; Lovang, G.
DESCRIPTION: Interpolation of regional geology shows the area to be underlain by northwest trending Silurian-Devonian calcareous sediments with some interbedded greenstone sills and flows and black shale.
WORK DONE: SILT 40;multielement
SOIL 766;multielement
ROCK 11;multielement
REFERENCES:

**** PG ****

MINING DIV: *** ASSESSMENT REPORT 16246 INFO CLASS 4
LOCATION: LAT. 54 31 48 LONG. 122 05 12 NTS:
CLAIMS: PG 2
OPERATOR: Teck
AUTHOR: Lovang, G.; Meyer, W.
COMMODITIES: Cerium
DESCRIPTION: Small dykes or sills and a plug of carbonatite intrude Upper Cambrian limestone, siltstone, silty limestone, calcareous siltstones and calcareous schists. The strike of the sediments is approximately north 50 degrees west with steep dips to the northeast and southwest.
WORK DONE: SOIL 3;rare earth
SILT 37;rare earth
SAMP 16;rare earth
TREN 87.0 m;3 trenches
REFERENCES: A.R. 15944
M.I. 093J 014-PG

**** Prince ****

MINING DIV: Cariboo ASSESSMENT REPORT 15944 INFO CLASS 2
LOCATION: LAT. 54 31 00 LONG. 122 04 00 NTS:
CLAIMS: Fata,George,Lake,Morgana,Ole 1-3,PG 1-2,Prince
OPERATOR: Teck
AUTHOR: Betmanis, A.
COMMODITIES: Niobium,Lanthanum,Cerium,Phosphate
DESCRIPTION: Carbonatitic dykes or sills and a syenite plug intrude Cambrian to Ordovician calcareous argillites and limestones striking northwesterly and dipping subvertically. The carbonatitic intrusives contain anomalous pyrochlore. The syenite is anomalous in rare earth elements.
WORK DONE: TREN 79.5 m;7 trenches
LINE 60.0 km
MAGG 43.4 km
PETR 10;samples
SOIL 1200;multielement
GEOL 1:5000
REFERENCES: M.I. 093J 014-PRINCE

**** Windy ****

MINING DIV: *** ASSESSMENT REPORT 16597 INFO CLASS 3
LOCATION: LAT. 54 57 00 LONG. 123 49 38 NTS:
CLAIMS: Windy 1,Windy 2,Windy 5
OPERATOR: Placer Dome
AUTHOR: Price, S.
COMMODITIES: Copper,Gold,Palladium
DESCRIPTION: The Windy Property has widespread overburden cover, however the north and northeasterly part of the property may contain the Upper Triassic Takla Group of rocks (andesitic and basaltic flows, tuffs and breccias). The southern part of the property contains diorites and metadiorites. Alteration consists of chlorite, epidote and

carbonate and sericite. Northeast shearing is prevalent to some degree in most outcrops.
WORK DONE: IPOL 6.8 km
MAGG 2.5 km
EMGR 2.5 km;VLF
SOIL 63;Cu,As,Ag,Au
ROCK 37;Cu,As,Ag,Au
ROAD 5.3 km
TREN 426.0 m;5 trenches
REFERENCES: A.R. 14449
M.I. 093J 024-WINDY

**** Windy ****

MINING DIV: Cariboo ASSESSMENT REPORT 15996 INFO CLASS 3
LOCATION: LAT. 54 56 42 LONG. 123 50 36 NTS:
CLAIMS: Windy No. 1-2,Windy No. 5
OPERATOR: Placer Dev.
AUTHOR: Cannon, R.; Pentland, W.
COMMODITIES: Copper,Gold
DESCRIPTION: The claims have widespread overburden cover; however, the north and northeast part of the property may contain Upper Triassic Takla Group andesitic-basaltic flows, tuffs and breccias. The southern part of the property contains diorites and metadiorites. Alteration consists of chlorite, epidote carbonate and sericite.
WORK DONE: MAGG 19.0 km
SOIL 560;multielement
EMGR 19.0 km;VLF
ROCK 26;multielement
LINE 21.8 km
REFERENCES: M.I. 093J 024-WINDY

**** Syndicate,Ruby Jack,Hart ****

MINING DIV: *** ASSESSMENT REPORT 16269 INFO CLASS 3
LOCATION: LAT. 54 56 48 LONG. 123 15 00 NTS:
CLAIMS: Doe,G. North 1,G.N. 11-12,G.N. 14,G.N. 16-19,G.N. 2-4,G.N. 6-9 Horn 1-7,Sol 1-10
OPERATOR: Ezekiel Ex.
AUTHOR: Decarle, R.
COMMODITIES: Gold,Molybdenum
DESCRIPTION: Mississippian Slide Mountain Group mudstone, siltstone and limestone are interbedded with basaltic volcanics. These are overlain by Upper Triassic Takla Group andesite with minor interlaminated mudstone. Along a northeast trending fault zone, anomalous gold, silver and copper soil is coincident with magnetic lows. Gold mineralization is in quartz carbonate altered shear zones.
WORK DONE: MAGA 666.0 km
EMAB 666.0 km;VLF,HLEM
REFERENCES: A.R. 09297
M.I. 093J 023-RUBY;093O 010-JACK;093O 010-HART

**** McDougall River,Ruby ****

MINING DIV: Cariboo ASSESSMENT REPORT 15879 INFO CLASS 2

LOCATION: LAT. 54 56 00 LONG. 123 17 00 NTS:
CLAIMS: GN 1-2,GN 6-7,GN 11-12,GN 14,GN 16-17,GN 19
OPERATOR: Ezekiel Ex.
AUTHOR: Holmgren, L.; Kowalchuk, J.
COMMODITIES: Gold
DESCRIPTION: Late Paleozoic Slide Mountain mudstone, siltstone and limestone, interbedded with basaltic volcanic rocks are overlain by Triassic Takla Group andesite with minor interlaminated mudstone. Along a northeast trending fault zone, anomalous gold, silver and copper soil geochemical anomalies coincide with magnetic lows. Gold mineralization occurs in quartz carbonate altered shear zones.
WORK DONE: HMIN 7;multielement
EMGR 15.0 km;VLF
LINE 15.0 km
SOIL 726;Au
MAGG 15.0 km
ROCK 8;multielement
REFERENCES: A.R. 10231,12164,13215,13750
M.I. 093J 007-MCDOUGALL RIVER;093J 023-RUBY

Fort Fraser 093K

**** Snow Bird ****

MINING DIV: Omineca ASSESSMENT REPORT 15853 INFO CLASS 2
LOCATION: LAT. 54 27 00 LONG. 124 31 00 NTS:
CLAIMS: Boarchea,Campsite,Shaft Fr.,Snowbird,Snowbird 1-7
OPERATOR: X-Cal Res.
AUTHOR: Game, B.; Sampson, C.
COMMODITIES: Gold,Antimony,Selenium
DESCRIPTION: The claims are underlain by argillite, cherty argillite and andesitic volcanics. Drill holes intersected a quartz-ankerite-mariposite alteration zone carrying gold and antimony values.
WORK DONE: TREN 660.0 m;10 trenches
SOIL 520;Hg,Sb
SAMP 225;Au,Ag,Sb
DIAD 933.3 m;10 holes,NQ
REFERENCES: A.R. 00520,02764,03520,05136,08613,15261,15853
M.I. 093K 036-SNOW BIRD

**** MR ****

MINING DIV: *** ASSESSMENT REPORT 16532 INFO CLASS 4
LOCATION: LAT. 54 32 00 LONG. 124 12 00 NTS:
CLAIMS: MR 1-11
OPERATOR: Morrison, M.
AUTHOR:
COMMODITIES: Chromium
DESCRIPTION: The property covers a portion of the Murray Ridge layered ultramafic body belonging to the Trembleur Intrusions of Post-Middle Permian (?) age. The layered intrusive strikes 295 degrees and dips steeply (80-85 degrees) northeast. Chromite-bearing dunite layers up to 10 metres and equalling up to 5 per cent of the rock mass, are interlayered with massive harzburgite layers up to 100 metres thick.

Low grade (0.2 to 0.5 per cent) chromite is ubiquitous throughout the intrusive and shows only a slight increase (up to 2 per cent) within the dunite. Platinum group elements are present in only a few parts per billion.
WORK DONE: ROCK 30;multielement
PROS 1:5000
REFERENCES: M.I. 093K 012-MR

**** Bio ****

MINING DIV: Omineca ASSESSMENT REPORT 16675 INFO CLASS 2
LOCATION: LAT. 54 51 32 LONG. 124 18 31 NTS:
CLAIMS: Bio 2-3,Bio 6,Bob 1,Tug 1
OPERATOR: Big Valley Res.
AUTHOR: Schmidt, U.
DESCRIPTION: The property is underlain by metamorphosed sedimentary and volcanic rocks of the Upper Triassic Takla Group. There is an intrusion of diorite of possible early Jurassic age in the centre of the property. Three precious metal anomalies have been outlined on the property. They are thought to have been caused by the dioritic intrusion.
WORK DONE: SOIL 1660;multielement
REFERENCES: A.R. 11255

**** Max ****

MINING DIV: *** ASSESSMENT REPORT 16379 INFO CLASS 2
LOCATION: LAT. 54 54 30 LONG. 124 04 30 NTS:
CLAIMS: Fire 1,Grif 1-2,Max 1-15
OPERATOR: City Res. Can.
AUTHOR: Schmidt, U.
DESCRIPTION: The property is underlain by volcanic and metasedimentary rocks of the Upper Triassic-Lower Jurassic Takla Group. The Takla Group is intruded by diorite and syenite of Jurassic(?) age. Areas of pyrite and pyrrhotite mineralization have been located near the contact of the intrusion.
WORK DONE: SOIL 1979;multielement
GEOL 1:5000,1:2500
REFERENCES:

**** BBR ****

MINING DIV: Omineca ASSESSMENT REPORT 16568 INFO CLASS 3
LOCATION: LAT. 54 55 00 LONG. 124 22 06 NTS:
CLAIMS: BBR 2,GBI 1
OPERATOR: Big Bar Res.
AUTHOR: Carter, J.
DESCRIPTION: The underlying rock formations are mainly andesite and rhyolite believed to be Jurassic in age.
WORK DONE: SILT 7;Au,As
SOIL 272;Au,As
REFERENCES:

**** H&H ****

MINING DIV: *** ASSESSMENT REPORT 16266 INFO CLASS 3
LOCATION: LAT. 54 56 00 LONG. 124 16 30 NTS:
CLAIMS: H & H 4
OPERATOR: Noranda Ex.
AUTHOR: Maxwell, G.
DESCRIPTION: The property is underlain by hornblende-augite porphyry of the Upper Triassic Takla Group.
WORK DONE: GEOL 1:5000
LINE 9.2 km
SOIL 255;multielement
REFERENCES:

**** H&H ****

MINING DIV: Omineca ASSESSMENT REPORT 16196 INFO CLASS 4
LOCATION: LAT. 54 54 12 LONG. 124 16 30 NTS:
CLAIMS: H & H 2,Sep 1
OPERATOR: Halleran, A.
AUTHOR:
DESCRIPTION: The property and surrounding area is underlain by the Upper Triassic Takla Group. The Takla Group comprises metasedimentary and volcanic rocks. These are thought to be intruded by Upper Jurassic or Lower Cretaceous Omineca intrusions.
WORK DONE: LINE 8.0 km
SCGR 6.3 km
REFERENCES:

**** Hat ****

MINING DIV: *** ASSESSMENT REPORT 16272 INFO CLASS 3
LOCATION: LAT. 54 50 30 LONG. 124 18 36 NTS:
CLAIMS: Ha 1
OPERATOR: Noranda Ex.
AUTHOR: Maxwell, G.
COMMODITIES: Copper
DESCRIPTION: The claim is underlain by Triassic-Cretaceous diorite and gabbro intrusives and Triassic-Jurassic volcanics and sediments. Mineralization occurs in quartz carbonate altered and silicified zones that trend southeast. Mineralization consists of pyrite, pyrrhotitie and chalcopyrite.
WORK DONE: GEOL 1:5000
SOIL 290;Cu,Zn,Pb,Ag,As,Au
REFERENCES: A.R. 01933
M.I. 093K 004-HAT

**** Hat Lake ****

MINING DIV: Omineca ASSESSMENT REPORT 15943 INFO CLASS 3
LOCATION: LAT. 54 47 00 LONG. 124 22 00 NTS:
CLAIMS: Hat Lake
OPERATOR: Big Valley Res.

AUTHOR: Schmidt, U.
DESCRIPTION: The property is underlain by Upper Triassic metasedimentary rocks of the Takla Group, which are intruded by narrow, Lower Jurassic(?) alkalic mafic rocks. Quartz-carbonate, pyrite and epidote alteration has been identified on the property. A gold and base metal geochemical anomaly was outlined.
WORK DONE: SOIL 309;multielement
GEOL 1:2500
REFERENCES:

**** Hat Lake ****

MINING DIV: ***   ASSESSMENT REPORT 16339   INFO CLASS 2
LOCATION: LAT. 54 46 00 LONG. 124 22 00 NTS:
CLAIMS: Hat Lake,Hat Lake 2-4
OPERATOR: Big Valley Res.
AUTHOR: Schmidt, U.
DESCRIPTION: The property is underlain by Upper Triassic-Lower Jurassic volcanic and metasedimentary rocks of the Takla Group. These rocks are intruded by Lower Jurassic (?) igneous rocks of gabbroic to granodioritic composition. A second granitic suite of unknown age has also been recognized.
WORK DONE: LINE 56.4 km
GEOL 1:2500
SOIL 719;multielement
REFERENCES: A.R. 15943

**** Tas ****

MINING DIV: Omineca   ASSESSMENT REPORT 16657   INFO CLASS 3
LOCATION: LAT. 54 52 53 LONG. 124 17 55 NTS:
CLAIMS: Tas 11
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.; Maxwell, G.
COMMODITIES: Gold,Copper
DESCRIPTION: The claim is underlain by Upper Triassic Lower Jurassic Takla Group volcanics, sediments and Late Cretaceous diorite intrusive. No outcrop was observed on the claim.
WORK DONE: MAGG 9.0 km
SOIL 183;Cu,Zn,Pb,Ag,As,Au
LINE 9.5 km
REFERENCES: M.I. 093K 080-TAS

**** Tas ****

MINING DIV: ***   ASSESSMENT REPORT 15687   INFO CLASS 3
LOCATION: LAT. 54 54 24 LONG. 124 19 00 NTS:
CLAIMS: Tas 2,Tas 4,Tas 6-7,Tas 9
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.; Warner, L.
COMMODITIES: Gold,Copper
DESCRIPTION: The claims are underlain by Upper Triassic Takla Group volcanics and sediments. Showings occur where Upper Jurassic or Lower Cretaceous diorites-granodiorites are in contact with the Takla Group assemblage. The intrusives are extensively fractured

and altered with plagioclase veins and minor epidote staining. Mineralization is mainly in the form of pyrite and chalcopyrite.
WORK DONE: ROAD 1.4 km
MAGG 20.8 km
LINE 30.1 km
TREN 268.0 m;9 trenches
SOIL 979;Cu,Au
REFERENCES: A.R. 13979
M.I. 093K 080-TAS

**** Zar ****

MINING DIV: Omineca   ASSESSMENT REPORT 16611   INFO CLASS 4
LOCATION: LAT. 54 47 33 LONG. 124 17 55 NTS:
CLAIMS: Snug 1,Tue 1-2,Zar 1
OPERATOR: Big Country Res.
AUTHOR: Schmidt, U.
DESCRIPTION: The property is underlain by metasediments and volcanics of the Upper Triassic Takla Group. Pyrite, quartz and carbonate are often found along fractures or shear zones.
WORK DONE: SOIL 7;multielement
ROCK 3;multielement
LINE 10.2 km
GEOL 1:10 000
REFERENCES:

Smithers 093L

**** Go ****

MINING DIV: ***   ASSESSMENT REPORT 16032   INFO CLASS 3
LOCATION: LAT. 54 10 48 LONG. 126 11 30 NTS:
CLAIMS: Go 2-3
OPERATOR: Normine Res.
AUTHOR: Mark, D.
DESCRIPTION: Most of the claims are covered by glacial drift. At least three outcrops of Eocene Goosly Lake volcanic rocks consisting of biotite-pyroxene-plagioclase trachy-andesite and at least one outcrop of Eocene Buck Creek volcanics consisting of andesite and dacite lavas and volcanic breccia occur within the property.
WORK DONE: MAGG 17.5 km
IPOL 17.5 km
LINE 20.0 km
REFERENCES:

**** Equity Silver,Sam Goosly ****

MINING DIV: Omineca   ASSESSMENT REPORT 16298   INFO CLASS 2
LOCATION: LAT. 54 11 12 LONG. 126 15 54 NTS:
CLAIMS: Mining Lease No. 1
OPERATOR: Equity Silver Mines
AUTHOR: Pease, R.
COMMODITIES: Silver,Gold,Copper,Antimony,Arsenic,Molybdenum
DESCRIPTION: Crudely tabular concentrations of pyrite, chalcopyrite,

tetrahedrite and sphalerite are hosted by Cretaceous dacitic pyroclastic rocks. They are enveloped by an advanced argillitic alteration suite.
WORK DONE: DIAD 2099.2 m;7 holes,NQ
SAMP 510;Cu,Ag,Au,Sb,As,Fe,Zn
REFERENCES: A.R. 01683,05346,06456,06985,07166,07343,10727,10869,13264,14942, 15374,15379
M.I. O93L 001-EQUITY SILVER;O93L 001-SAM GOOSLY (SG)

**** Klo ****

MINING DIV: *** ASSESSMENT REPORT 16120 INFO CLASS 2
LOCATION: LAT. 54 13 36 LONG. 126 23 48 NTS:
CLAIMS: Klo 1-2
OPERATOR: Equity Silver Mines
AUTHOR: Pease, R.
DESCRIPTION: The claims are underlain by andesitic to basaltic volcanic rocks of Tertiary age. No mineralization is known to occur.
WORK DONE: SOIL 1039;multielement
REFERENCES:

**** Sept,Morning ****

MINING DIV: Omineca ASSESSMENT REPORT 15967 INFO CLASS 2
LOCATION: LAT. 54 11 00 LONG. 126 21 24 NTS:
CLAIMS: Dave,Gold,Morning,Sept,Sept 1-2,Tet 2
OPERATOR: Normine Res.
AUTHOR: Norman, G.
DESCRIPTION: Much of the claims are drift-covered with bedrock exposures restricted to the northern and western portions. Tertiary Goosly Lake andesitic volcanics are generally flat lying and unaltered. Cretaceous Tip Top Hill andesitic lavas and breccias are exposed along Klo Creek and underlie the majority of the drift covered area. Tip Top Hill volcanics display widespread chlorite and hematite alteration and locally clay-sericite alteration. Disseminated pyrite is sporadic and magnetite is abundant.
WORK DONE: PERD 1326.5 m;24 holes
ROAD 5.8 km
SOIL 319;multielement
SAMP 419;multielement
REFERENCES: A.R. 14346

**** Hagas ****

MINING DIV: *** ASSESSMENT REPORT 15787 INFO CLASS 3
LOCATION: LAT. 54 10 00 LONG. 127 02 00 NTS:
CLAIMS: Frost,Hem,Hagas 76-77,Hagas 80
OPERATOR: Petrostone Res.
AUTHOR: Zastavnikovich, S.
DESCRIPTION: Western half of the Hagas Group claims is underlain by the Jurassic Hazelton Group volcanics, while the eastern half is underlain by the Eocene Buck Creek volcanics. A small, less than 1 kilometre wide plug of gabbro intrudes the Hazelton volcanics in the southwestern corner of the property. Present geochemical orientation survey proved to be an effective exploration method.

WORK DONE: HMIN 120;multielement
REFERENCES: A.R. 04194,06233,06658,08447,13097,14060

**** Rookie ****

MINING DIV: Omineca ASSESSMENT REPORT 16060 INFO CLASS 3
LOCATION: LAT. 54 11 18 LONG. 127 18 00 NTS:
CLAIMS: Rookie 1
OPERATOR: Equity Silver Mines
AUTHOR: Pease, R.
DESCRIPTION: The claim is underlain by andesitic ash tuff, likely of Cretaceous age. No mineralization was located.
WORK DONE: SOIL 408;multielement
REFERENCES:

**** Star Ship ****

MINING DIV: *** ASSESSMENT REPORT 16308 INFO CLASS 4
LOCATION: LAT. 54 01 42 LONG. 127 29 12 NTS:
CLAIMS: Star Ship
OPERATOR: Shaede, E.
AUTHOR: Shaede, E.
DESCRIPTION: A small, complex rhyolite porphyry plug mineralized with molybdenite intrudes Lower Jurassic Hazelton Group volcanic, pyroclastic and sedimentary rocks. A showing of chalcopyrite and pyrite was found in quartz on the periphery of the intrusive and a grab sample contained 207 grams per tonne silver, 1 gram per tonne gold and 2 per cent copper.
WORK DONE: PROS 1:4000
ROCK 11;multielement
SAMP 10;multielement
SILT 1;multielement
REFERENCES:

**** Emerson ****

MINING DIV: Omineca ASSESSMENT REPORT 16238 INFO CLASS 4
LOCATION: LAT. 54 25 48 LONG. 126 53 12 NTS:
CLAIMS: Emerson 1
OPERATOR: Lornex Min.
AUTHOR: Cann, R.M.; Scott, A.
COMMODITIES: Molybdenum,Silver,Gold,Copper,Lead,Zinc
DESCRIPTION: Strong pervasive phyllic alteration over a minimum 0.8 by 1.2 kilometre area has affected Upper Cretaceous(?) dacitic volcanic rocks. The alteration is associated with intrusive rocks. Trenching of a large peripheral silver-lead-zinc soil anomaly uncovered scattered silver-rich galena-sphalerite-tetrahedrite veins and veinlets.
WORK DONE: IPOL 4.4 km
LINE 6.1 km
REFERENCES: A.R. 00869,01139,02308,02309,03077,07060,14714,15378
M.I. O92L 032-EMERSON (BARR, LYBDENUM)

**** Apex 8,Apex 9,Apex 18 ****

MINING DIV: *** ASSESSMENT REPORT 15408 INFO CLASS 3
LOCATION: LAT. 54 26 06 LONG. 126 26 00 NTS:
CLAIMS: Apex 75-78,Apex 85
OPERATOR: Baril Dev.
AUTHOR: Zastavnikovich, S.
COMMODITIES: Copper,Lead,Zinc,Strontium,Barite
DESCRIPTION: The Apex Group claims are underlain by the early to middle Mesozoic Hazelton Group volcanic rocks. A small gabbroic outcrop of intrusive rock is located approximately in the middle of the Apex 76 claim. Several trace element anomalies in soil have been identified.
WORK DONE: ROCK 54;multielement
SOIL 193;multielement
SILT 9;multielement
REFERENCES: A.R. 05288,06427,11504,15489
M.I. O93L 245-APEX 9;O93L 246-APEX 8;O93L 247-APEX 18

**** Apex 8,Apex 9,Apex 18 ****

MINING DIV: Omineca ASSESSMENT REPORT 15489 INFO CLASS 4
LOCATION: LAT. 54 26 06 LONG. 126 26 06 NTS:
CLAIMS: Apex 75,Apex 77-78,Apex 85
OPERATOR: Baril Dev.
AUTHOR: Zastavnikovich, S.
COMMODITIES: Copper,Lead,Zinc,Barite,Strontium,Iron
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group mafic to felsic volcanics. A pair of lineaments intersect in the southwest corner of the property. Surface prospecting located a small outcrop of gabbro in the middle of Apex 76 claim.
WORK DONE: SOIL 54;multielement
REFERENCES: A.R. 05288,06427,11504,15408
M.I. O93L 245-APEX 9;O93L 246-APEX 8;O93L 247-APEX 18

**** Bornite ****

MINING DIV: *** ASSESSMENT REPORT 15479 INFO CLASS 3
LOCATION: LAT. 54 29 36 LONG. 126 26 06 NTS:
CLAIMS: Dana I
OPERATOR: Equity Silver Mines
AUTHOR: Hanson, D.; Pease, R.
COMMODITIES: Copper,Silver,Lead,Zinc,Barium
DESCRIPTION: The claims are underlain by a sequence of maroon coloured Lower Jurassic Hazelton Group pyroclastics and sediments. A strongly silicified stratabound zone, 20 metres wide and over 300 metres long, dipping steeply to the northeast, occurs within this sequence. Within this zone weak copper-silver mineralization occurs as disseminations and irregular microvein fillings of chalcopyrite and tetrahedrite. Sphalerite, bornite, galena and barite also occur.
WORK DONE: ROCK 107;multielement
DIAD 624.2 m;5 holes,NQ
TREN 500.0 m;10 trenches
SAMP 175;multielement

REFERENCES: A.R. 06495
M.I. O93L O12-BORNITE

**** Gold Cup,Silver Cup,Joker,Evergreen,Maple Lea

MINING DIV: Omineca ASSESSMENT REPORT 16193 INFO CLASS 3
LOCATION: LAT. 54 31 30 LONG. 126 06 42 NTS:
CLAIMS: Are,Kel,Pea,Que,Rad
OPERATOR: Bishop Res. Dev.
AUTHOR: Stanley, C.
COMMODITIES: Copper
DESCRIPTION: The Topley property is underlain by mixed volcanics of the Lower Jurassic Hazelton Group rocks which are intruded by Jurassic granitic stocks. The Hazelton Group pyroclastics consist of ash, lapilli, and breccia, and andesitic and rhyolitic flows. Alteration is mainly sericitic. Mineralization is mainly in quartz-carbonate vein cutting the volcanics, consists of galena, sphalerite, chalcopyrite, pyrite, and tetrahedrite.
WORK DONE: GEOL 1:5000
SOIL 341;multielement
REFERENCES: M.I. O93L O13-JOKER;O93L O14-EVERGREEN, MAPLE LEAF;O93L O15-GOLDEN EAGLE;O93L O16-SILVER CUP, GOLD, CUP;O93L O17-TUYA, THREE STAR;O93L 271-MAPLE LEAF

**** Jack-Rabbit (Saw) ****

MINING DIV: *** ASSESSMENT REPORT 16071 INFO CLASS 3
LOCATION: LAT. 54 33 48 LONG. 126 24 18 NTS:
CLAIMS: Estelle,Evelyn,J.R. 1,Megan,Rose
OPERATOR: Rosalie Res.
AUTHOR: Salazar, G.
COMMODITIES: Silver,Copper
DESCRIPTION: A quartz vein with chalcopyrite mineralization strikes north-northwest along the west side of a quartz-monzonite porphyry dyke that contains malachite. Geophysical work suggests the vein continues several hundreds of metres to the north-northwest and south-southeast under overburden.
WORK DONE: LINE 13.0 km
MAGG 13.0 km
EMGR 13.0 km;VLF
REFERENCES: A.R. 04760,13845
M.I. O93L O19-JACK-RABBIT (SAW)

**** Redtop ****

MINING DIV: Omineca ASSESSMENT REPORT 15464 INFO CLASS 3
LOCATION: LAT. 54 36 48 LONG. 126 19 42 NTS:
CLAIMS: Redtop 1-2,Redtop 1-2 Fr.
OPERATOR: Amanda Res.
AUTHOR: Salazar, G.
DESCRIPTION: The claims are believed to be underlain by felsic volcanic lapilli tuffs of the Lower Jurassic Hazelton Group. Magnetic data support this interpretation of the regional geology.
WORK DONE: LINE 49.0 km
EMGR 38.0 km;VLF

MAGG 42.5 km
REFERENCES: A.R. 02293,02562,02930,02958

**** Robert ****

MINING DIV: *** ASSESSMENT REPORT 16061 INFO CLASS 4
LOCATION: LAT. 54 37 30 LONG. 126 23 12 NTS:
CLAIMS: Robert 1
OPERATOR: Noranda Ex.
AUTHOR: Myers, D.
DESCRIPTION: The claim is believed to be underlain by Lower Jurassic Telkwa Formation volcanic and sedimentary rocks. No outcrop has yet been found on the claim.
WORK DONE: SOIL 14;multielement
ROCK 1;multielement
BIOG 22;multielement
REFERENCES:

**** Dome Mountain ****

MINING DIV: Omineca ASSESSMENT REPORT 16171 INFO CLASS 2
LOCATION: LAT. 54 44 18 LONG. 126 37 00 NTS:
CLAIMS: Whistler Fr.,Repeater 1-2,Dome A-B,Mat 1,Bert 1-2,Byron 1-2,Tony 1 Betty 1,Regan 1,Rick 1,Robin 1,Scott 1-5,Doray 1-12,Boo 1-5,Cope 1-5 Emily
OPERATOR: AJM Metals
AUTHOR: McConnell, T.C.; Smit, H.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group volcanics and sediments. The rocks have been deformed into southeast plunging folds and northeast and southeast trending high angle faults. Mesothermal quartz veins with pyrite, sphalerite, chalcopyrite, galena, tetrahedrite, arsenopyrite and free gold is the predominant type of mineralization. Small massive sulphide veins also occur.
WORK DONE: EMAB 1327.0 km;HLEM,VLF
MAGA 1327.0 km
REFERENCES: A.R. 10501
M.I. O93L 022-DOME MOUNTAIN, FORKS;O93L 023-DOME MOUNTAIN, FREE GOLD;O93L 275-DOME MOUNTAIN, CABIN;O93L 0276-DOME MOUNTAIN, BOULDER CREEK;O93L 277-DOME MOUNTAIN, 9800; O93L 278-DOME MOUNTAIN, CHANCE;O93L 279-DOME MOUNTAIN, JANE; O93L 280-DOME MOUNTAIN, HOOPES;O93L 281-DOME MOUNTAIN, RAVEN; O93L 282-DOME MOUNTAIN, HAWK;O93L 283-DOME MOUNTAIN, PTARMIGAN;O93L 284-DOME MOUNTAIN, EAGLE;O93L 285-DOME MOUNTAIN, GEM;O93L 286-TINA

**** Dome Mountain ****

MINING DIV: *** ASSESSMENT REPORT 15659 INFO CLASS 1
LOCATION: LAT. 54 44 42 LONG. 126 37 18 NTS:
CLAIMS: Cope 2,Grizzly No. 2,Porcupine,Triangle Fr.
OPERATOR: Teeshin Res.
AUTHOR: Helgason, R.
COMMODITIES: Gold,Silver
DESCRIPTION: The Dome Mountain property consists of mesothermal auriferous

quartz veins crosscutting host Lower Jurassic Hazelton Group volcanics. Alteration is a quartz-carbonate-sericite assemblage decreasing in intensity away from the veins. Tonnage at present is 217 727 tonnes grading 15.7 grams per tonne gold and 79.5 grams per tonne silver.
WORK DONE: SAMP 303;Au,Ag,Cu,Pb,Zn
TREN 244.0 m;14 trenches
DIAD 4427.0 m;48 holes,NQ
REFERENCES: A.R. 10684,15614
M.I. O93L 022-DOME MOUNTAIN

**** Dome Mountain ****

MINING DIV: Omineca ASSESSMENT REPORT 15614 INFO CLASS 2
LOCATION: LAT. 54 45 00 LONG. 126 37 00 NTS:
CLAIMS: Bert 1-2,Betty 1,Dome 1-6,Dome B,Repeater 1
OPERATOR: Can. United Min.
AUTHOR: Holland, R.
COMMODITIES: Gold,Silver
DESCRIPTION: Hazelton volcaniclastics and sediments are cut by numerous gold-silver bearing veins and mineral zones trending northwest to westerly.
WORK DONE: SOIL 1819;Cu,Pb,Zn,Ag,As
REFERENCES: A.R. 10684,15659
M.I. O93L 022-DOME MOUNTAIN

**** Frances,January ****

MINING DIV: *** ASSESSMENT REPORT 15812 INFO CLASS 3
LOCATION: LAT. 54 44 00 LONG. 126 41 00 NTS:
CLAIMS: Frances 1-16,January 1-5,March 1-4,Frances 5 Fr.,Fraction
OPERATOR: Marine Drive Estates
AUTHOR: Rayner, G.
DESCRIPTION: Sedimentary and volcaniclastic rocks of Hazelton age may contain extensions of Dome Mountain Camp gold-silver vein structures. Rock outcrops are very scarce on the property.
WORK DONE: LINE 23.0 km
SOIL 790;multielement
REFERENCES:

**** Gio ****

MINING DIV: Omineca ASSESSMENT REPORT 16000 INFO CLASS 4
LOCATION: LAT. 54 35 42 LONG. 126 42 30 NTS:
CLAIMS: Gio 5
OPERATOR: CK & G Management
AUTHOR: Walker, T.
DESCRIPTION: The claim is underlain by the Lower Jurassic Hazelton Group which consists of sediments and volcanics dipping in a southerly direction. The Hazelton Group has been intruded by dykes, sills and small stocks.
WORK DONE: MAGA 62.0 km
EMAB 62.0 km;VLF
REFERENCES: A.R. 13228,14831

**** Hidden Treasure ****

MINING DIV: *** ASSESSMENT REPORT 15999 INFO CLASS 4
LOCATION: LAT. 54 34 00 LONG. 126 41 00 NTS:
CLAIMS: Gio 6
OPERATOR: CK & G Management
AUTHOR: Walker, T.
COMMODITIES: Silver,Copper,Zinc,Lead
DESCRIPTION: The claim is underlain by the Lower Jurassic Hazelton Group which consists of sediments and volcanics dipping in a southerly direction. The Hazelton Group has been intruded by late stage dykes, sills and small stocks.
WORK DONE: MAGA 55.0 km
EMAB 55.0 km;VLF
REFERENCES: A.R. 13720
M.I. 093L 254-HIDDEN TREASURE

**** Sk (Babine Gold) ****

MINING DIV: Omineca ASSESSMENT REPORT 15830 INFO CLASS 3
LOCATION: LAT. 54 45 12 LONG. 126 36 18 NTS:
CLAIMS: Repeater 2
OPERATOR: Can. United Min.
AUTHOR: Harrison, D.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper
DESCRIPTION: Lower Jurassic Hazelton Group volcanics, including andesite tuffs and breccias, are intruded by a quartz-feldspar porphyry. Both lithologies are cut by northwest trending, high angle quartz veins up to 0.5 metre wide. The veins carry up to 40 per cent sulphides (pyrite, sphalerite, galena, chalcopyrite) with locally high gold values.
WORK DONE: DIAD 639.0 m;5 holes,BQ
SAMP 125;Ag,Au
REFERENCES: M.I. 093L 023-SK (BABINE GOLD)

**** Gio ****

MINING DIV: *** ASSESSMENT REPORT 16401 INFO CLASS 4
LOCATION: LAT. 54 33 48 LONG. 126 45 48 NTS:
CLAIMS: Gio
OPERATOR: Fairland Dev.
AUTHOR: Borovic, I.
DESCRIPTION: The property is underlain by Middle Jurassic volcaniclastic sediments which are intruded by Late Cretaceous granitic rocks and Eocene syenitic dykes. Mesothermal chalcopyrite-sphalerite quartz-carbonate veins occur as discontinuous lenticular fissure fillings in the numerous steep normal faults that cut the property.
WORK DONE: GEOL 1:25 000
REFERENCES: A.R. 13095

**** Gio ****

MINING DIV: Omineca ASSESSMENT REPORT 16001 INFO CLASS 4

LOCATION: LAT. 54 34 48 LONG. 126 46 36 NTS:
CLAIMS: Gio 2
OPERATOR: CK & G Management
AUTHOR: Walker, J.
DESCRIPTION: The claim is underlain by the Lower Jurassic Hazelton Group sediments and volcanics dipping in a southerly direction. The Hazelton Group has been intruded by dykes, sills and small stocks.
WORK DONE: EMAB 62.0 km;VLF
MAGA 62.0 km
REFERENCES: A.R. 13229,14834

**** Round ****

MINING DIV: *** ASSESSMENT REPORT 16431 INFO CLASS 3
LOCATION: LAT. 54 43 42 LONG. 126 56 18 NTS:
CLAIMS: Round 1-8,Round 12
OPERATOR: Diplomat Res.
AUTHOR: Bishop, S.
DESCRIPTION: The property is underlain by fragmental volcanics belonging to the Telkwa Formation: agglomerate, breccia, tuff breccia and lapilli, lithic, crystal and ash tuffs. Flows of basalt to rhyolite composition occur in red, maroon, purple, grey and green colours. Clasts are comprised of porphyritic andesite and crystal tuff while crystal and lithic fragments make up the matrix.
WORK DONE: LINE 26.5 km
PROS 1:10 000
SOIL 413;multielement
REFERENCES:

**** Mamie ****

MINING DIV: Omineca ASSESSMENT REPORT 15546 INFO CLASS 3
LOCATION: LAT. 54 46 54 LONG. 127 20 54 NTS:
CLAIMS: Evinrude,Florence,Kin,Kin 2-4,Mamie
OPERATOR: Cons. Silver Standard Mines
AUTHOR: Dunn, D.
COMMODITIES: Zinc,Copper,Silver,Gold
DESCRIPTION: The claims are underlain by Jurassic andesite to rhyolite volcanics. Mineralization consists of polymetallic, fissure filling veins radiating from a central molybdenum porphyry system that occurs northeast of the claims.
WORK DONE: GEOL 1:5000
MAGG 34.0 km
EMGR 34.0 km;VLF
LINE 34.0 km
SOIL 350;As,Au
ROCK 46;Au,Cu,Pb,Zn,As
REFERENCES: A.R. 00505
M.I. 093L 091-MAMIE

**** Yukon ****

MINING DIV: *** ASSESSMENT REPORT 16491 INFO CLASS 4
LOCATION: LAT. 54 48 00 LONG. 127 17 12 NTS:
CLAIMS: M 65-66

OPERATOR: Climax Molybdenum
AUTHOR: Davidson, D.
COMMODITIES: Silver,Lead,Zinc,Gold
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group volcanic rocks.
WORK DONE: SOIL 47;multielement
REFERENCES: M.I. O93L 111-YUKON

**** Cronin Mine ****

MINING DIV: Omineca ASSESSMENT REPORT 16603 INFO CLASS 3
LOCATION: LAT. 54 55 34 LONG. 126 48 35 NTS:
CLAIMS: Del 1-12,Jim A Fr.,Mill 1-2,Red,Sunrise 7,View 1-8
OPERATOR: Southern Gold Res.
AUTHOR: Pezzot, T.
COMMODITIES: Gold,Silver,Lead,Zinc,Cadmium
DESCRIPTION: The property is underlain by Lower Jurassic sediments of the Ashman Formation and Middle-Lower Cretaceous sediments of the Red Rose Formation between which is an intruded felsic body dated at 49 million years. This package is overthrust from the west by Lower Cretaceous volcanics of the Brian Boru Formation. Massive sulphide "veins" lie near the contact of the rhyolite.
WORK DONE: MAGG 35.0 km
EMGR 35.0 km;VLF
LINE 37.4 km
ROAD 3.0 km
REFERENCES: A.R. 05526,05674
M.I. O93L 127-CRONIN MINE

**** McKen ****

MINING DIV: *** ASSESSMENT REPORT 16580 INFO CLASS 3
LOCATION: LAT. 54 48 43 LONG. 126 49 54 NTS:
CLAIMS: McKen 4,McKen 8
OPERATOR: Langdale Res.
AUTHOR: Capnerhurst, K.; Sookochoff, L.
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group volcanic and sedimentary rocks. Northwesterly and northeasterly trending strike-slip faults occur in addition to thrust faults.
WORK DONE: SOIL 215;multielement
REFERENCES:

Hazelton O93M

**** Danny Boy ****

MINING DIV: Omineca ASSESSMENT REPORT 16292 INFO CLASS 3
LOCATION: LAT. 55 05 12 LONG. 126 03 48 NTS:
CLAIMS: Danny Boy 1-2
OPERATOR: Gold Canyon Res.
AUTHOR: Mark, D.
DESCRIPTION: The property is covered by deep overburden but outcrops in the area suggest that the underlying bedrock is principally a Lower Jurassic sequence of intercalated, well-bedded dark grey tuffs,

andesites and argillaceous sedimentary rocks of the basal Hazelton Group as well as various sediments and volcanics of the Upper Triassic Takla Group. A narrow vein of lead and zinc sulphide mineralization occurs on the property.
WORK DONE: EMGR 12.9 km;HLEM
REFERENCES:

**** Beta,Beta H,Beta B,Beta C,Beta D ****

MINING DIV: *** ASSESSMENT REPORT 16273 INFO CLASS 3
LOCATION: LAT. 55 14 00 LONG. 127 15 12 NTS:
CLAIMS: Beta 3
OPERATOR: Noranda Ex.
AUTHOR: Myers, D.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper
DESCRIPTION: Clastic sediments of the Lower Cretaceous Bowser Lake Group are intruded by a monzonitic to dioritic late Cretaceous Bulkley pluton. Veins of amphibole-quartz-magnetite-sulphide-apatite and quartz-arsenopyrite carry significant gold and silver values in places, as well as high lead and antimony values.
WORK DONE: DIAD 191.7 m;3 holes,NQ
SAMP 32;Au,Ag
REFERENCES: A.R. 13832,14543,15246
M.I. O93M 098-BETA;O93M 099-BETA H,O93M 100-BETA B;
O93M 101-BETA C;O93M 102-BETA D

**** Brunswick ****

MINING DIV: Omineca ASSESSMENT REPORT 16012 INFO CLASS 4
LOCATION: LAT. 55 07 48 LONG. 127 36 18 NTS:
CLAIMS: Brunswick
OPERATOR: Catoosea Res.
AUTHOR: Holland, R.
COMMODITIES: Silver,Lead,Zinc,Gold,Copper
DESCRIPTION: A Late Cretaceous Rocher Deboule porphyritic granodiorite stock intrudes argillites and greywackes of the Lower Cretaceous Bowser Lake Group. Shear controlled quartz-carbonate veins occur in sediments adjacent to and related to the stock. Shears strike north 50 to 60 degrees east and dip 45 to 60 degrees northwest. Galena, sphalerite, pyrite, tetrahedrite and chalcopyrite occur as trace to near massive amounts in the veins.
WORK DONE: PROS 1:5000
REFERENCES: M.I. O93M 066-BRUNSWICK

**** Killarney ****

MINING DIV: *** ASSESSMENT REPORT 16455 INFO CLASS 4
LOCATION: LAT. 55 04 24 LONG. 127 37 42 NTS:
CLAIMS: Gam I
OPERATOR: Noranda Ex.
AUTHOR: MacArthur, R.
COMMODITIES: Silver,Lead,Zinc
DESCRIPTION: The property is underlain by Jurassic Brian Boru and Red Rose Formations. Disseminated and fracture-filling mineralization consisting of sphalerite and galena locally occurs within quartz

carbonate-sericite-pyrite altered felsic volcanics and volcaniclastics of the Brian Boru Formation. Soil geochemistry anomalies are associated with mineralized areas and with moraine derived from mineralized areas.
WORK DONE: SOIL 35;Au
REFERENCES: A.R. 14632
O93M 114-KILLARNEY

**** Rocher Deboule ****

MINING DIV: Omineca ASSESSMENT REPORT 16575 INFO CLASS 3
LOCATION: LAT. 55 09 39 LONG. 127 38 25 NTS:
CLAIMS: Rocher
OPERATOR: Southern Gold Res.
AUTHOR: Pezzot, E.
COMMODITIES: Copper,Gold,Silver,Lead,Zinc,Uranium,Molybdenum,Tungsten,Copper
DESCRIPTION: The property is predominantly underlain by an elongate pluton oriented at north 25 degrees west. This is the Rocher Deboule Stock and is part of the Lower Cretaceous Buckley Intrusions. It is composed primarily of granodiorite. The southern and western part of the property is underlain by Lower Cretaceous Bowser Lake Group sedimentary rocks. Several extensive veins contain copper and precious metal mineralization.
WORK DONE: MAGG 10.5 km
EMGR 10.5 km;VLF
ROAD 13.5 km
REFERENCES: A.R. 16714
M.I. O93M O71-ROCHER DEBOULE

**** Babine,American Boy,Erie (Mohawk) ****

MINING DIV: *** ASSESSMENT REPORT 16324 INFO CLASS 3
LOCATION: LAT. 55 18 42 LONG. 127 35 06 NTS:
CLAIMS: AB 1,AB 7
OPERATOR: Can-Ex Res.
AUTHOR: Homenuke, A.
COMMODITIES: Silver,Lead,Zinc,Gold,Copper,Antimony
DESCRIPTION: Gold and silver-bearing quartz-sulphide veins cut Lower Cretaceous Bowser Lake Group sandstones and argillites.
WORK DONE: SOIL 356;Cu,Pb,Zn,Ag,As
REFERENCES: A.R. 0678907955,08847,09121
M.I. O93M O47-AMERICAN BOY;O93M O50-BABINE;O93M O51-ERIE (MOWHAWK)

**** Erie (Mohawk),American Boy,Babine ****

MINING DIV: Omineca ASSESSMENT REPORT 16461 INFO CLASS 3
LOCATION: LAT. 55 17 00 LONG. 127 33 48 NTS:
CLAIMS: AB 1,AB 13-15 Fr.,AB 3,AB 7,Cindy Lou,Janelle
OPERATOR: Can-Ex Res.
AUTHOR: Homenuke, A.
COMMODITIES: Silver,Lead,Zinc,Gold,Copper,Antimony
DESCRIPTION: Silver, gold and base metal sulphides occur in quartz veins in Lower Cretaceous Bowser Lake Group sediments and in a hornfelsed zone around a Bulkley (Cretaceous) diorite.

WORK DONE: TREN 960.0 m
SAMP 15;Pb,Zn,Ag,Au
SOIL 163;multielement
EMGR 9.8 km;VLF
GEOL 1:5000
REFERENCES: A.R. 07955,14624
M.I. O93M O47-AMERICAN BOY;O93M O50-BABINE;O93M O51-ERIE (MOHAWK)

**** Group D (Joe, Hazelton) ****

MINING DIV: *** ASSESSMENT REPORT 15891 INFO CLASS 4
LOCATION: LAT. 55 18 48 LONG. 127 38 30 NTS:
CLAIMS: G&R 5-6,Marwill 1-2,Mt. Glen
OPERATOR: Tri-Con Min.
AUTHOR: Homenuke, A.
COMMODITIES: Silver,Lead,Zinc
DESCRIPTION: Silver, gold and base metal sulphide veins occur in Lower Cretaceous Bowser Lake Group sandstones and argillites.
WORK DONE: SOIL 17;Cu,Pb,Zn,As,Ag
EMGR 2.1 km;VLF
GEOL 1:5000
LINE 2.5 km
REFERENCES: A.R. 00058,08906,10189,13181,13440,14135,14840
M.I. O93M 119-GROUP D (JOE,HAZELTON,ACE)

**** Silverton ****

MINING DIV: Omineca ASSESSMENT REPORT 16601 INFO CLASS 3
LOCATION: LAT. 55 25 32 LONG. 127 31 08 NTS:
CLAIMS: Raven 1-6,Silverton 1-2
OPERATOR: Noranda Ex.
AUTHOR: Myers, D.
COMMODITIES: Gold,Silver,Arsenic,Zinc,Lead,Molybdenum
DESCRIPTION: A Bulkley felsic stock cuts Lower Cretaceous Bowser Lake Group sediments, both of which are cut by rhyolitic quartz-porphyry dykes. Quartz-arsenopyrite-pyrite-sphalerite-tetrahedrite veins cut the two earliest rocks and contain gold values up to 30.8 grams per tonne.
WORK DONE: SILT 15;multielement
ROCK 96;multielement
SOIL 69;multielement
GEOL 1:5000
REFERENCES:

**** Col ****

MINING DIV: *** ASSESSMENT REPORT 15423 INFO CLASS 4
LOCATION: LAT. 55 14 48 LONG. 124 45 12 NTS:
CLAIMS: Kael 2
OPERATOR: Campbell, C.
AUTHOR:
COMMODITIES: Copper,Gold

DESCRIPTION: The claim is underlain by syenite and monzonite of the Hogem Batholith in contact with Upper Triassic Takla Group volcanic rocks. Mineralization consists of quartz lenses with locally abundant bornite and as disseminated bornite and lesser chalcopyrite in altered potash feldspathized mesocratic monzonite. Gold up to 1680 ppb is associated with the best bornite mineralization.
WORK DONE: ROCK 60;multielement
PETR 3 thin sections
REFERENCES: A.R. 02714,02932,02933,03383,03384,10971
M.I. O93N 101-COL

**** Mona ****

MINING DIV: Omineca ASSESSMENT REPORT 16095 INFO CLASS 3
LOCATION: LAT. 55 23 30 LONG. 125 36 00 NTS:
CLAIMS: Cyprus 1-2
OPERATOR: Imperial Metals
AUTHOR: Taylor, A.
COMMODITIES: Chromium
DESCRIPTION: Late Palaezoic ultramafic rocks are faulted into Permian-Pennsylvanian Cache Creek Group metasediments which are all intruded by Jurassic granitic rocks. The ultramafics are silicified, serpentinized and variably altered and contain minor anomalous nickel and chromium values.
WORK DONE: GEOL 1:12 500
ROCK 58;multielement
LINE 25.0 km
SOIL 355;multielement
REFERENCES: M.I. O93N 016-MONA;O93N 109-MONA

**** Tliti ****

MINING DIV: *** ASSESSMENT REPORT 16654 INFO CLASS 3
LOCATION: LAT. 55 23 11 LONG. 125 48 02 NTS:
CLAIMS: Tliti 2-3
OPERATOR: Noranda Ex.
AUTHOR: Maxwell, G.; Bradish, L.
DESCRIPTION: The Tliti claims are underlain by Upper Triassic-Lower Jurassic Sitlika assemblage volcanic and sedimentary rocks. The volcanics include felsic to mafic flows, tuffs, lapilli tuff and schists containing 2-10 per cent disseminated pyrite. The sediments consist of dark grey to black, weakly graphitic argillites which trend north and dip steeply to the east.
WORK DONE: GEOL 1:5000
MAGG 11.0 km
EMGR 12.0 km;HLEM
LINE 15.0 km
REFERENCES: A.R. 15376

**** Indio-Schnapps ****

MINING DIV: Omineca ASSESSMENT REPORT 16129 INFO CLASS 4
LOCATION: LAT. 55 23 36 LONG. 125 20 00 NTS:
CLAIMS: Schnapps 1
OPERATOR: Eastfield Res.

AUTHOR: Morton, J.
COMMODITIES: Copper
DESCRIPTION: Gold-silver anomalies accompanied by arsenic and antimony values occur near a limestone-volcanic contact. The volcanics and limestone are believed to be Permian-Pennsylvanian Cache Creek Group correlative. The limestone-volcanic contact is also believed to correlate to a splay fault off the Pinchi Fault system.
WORK DONE: SOIL 65;Cu,Zn,Ag,As,Au,Hg
MAGG 4.2 km
REFERENCES: A.R. 13180,14074
M.I. O93N 192-INDIO-SCHNAPPS

**** Valley Girl,Valleau Creek ****

MINING DIV: *** ASSESSMENT REPORT 15634 INFO CLASS 2
LOCATION: LAT. 55 29 00 LONG. 124 54 00 NTS:
CLAIMS: VG 2-4
OPERATOR: Imperial Metals
AUTHOR: Gorc, D.; Taylor, A.
COMMODITIES: Placer Gold
DESCRIPTION: The property is underlain by Triassic-Jurassic volcanic rocks of the Takla Group within 3 kilometres of the Cretaceous Germansen Batholith. Sericitic and pyritic shear zones were mapped but samples of such zones returned low results.
WORK DONE: ROCK 50;multielement
SOIL 1518;multielement
REFERENCES: M.I. O93N 053-VALLEAU CREEK;O93N 111-VALLEY GIRL

**** Fairview ****

MINING DIV: Omineca ASSESSMENT REPORT 16602 INFO CLASS 3
LOCATION: LAT. 55 40 56 LONG. 124 30 00 NTS:
CLAIMS: Fair
OPERATOR: Chevron Can. Res.
AUTHOR: McAllister, S.

DESCRIPTION: CONFIDENTIAL STATUS

(Will be published in Exploration in British Columbia, 1988

**** Slide,Slope,Bob ****

MINING DIV: *** ASSESSMENT REPORT 15652 INFO CLASS 3
LOCATION: LAT. 55 42 00 LONG. 125 15 00 NTS:
CLAIMS: NSD,North Slope
OPERATOR: Imperial Metals
AUTHOR: Gorc, D.; Taylor, A.
COMMODITIES: Gold,Copper,Silver

DESCRIPTION: Two detailed grids were established over Triassic Takla andesitic volcanics and Triassic-Jurassic Hogem granodioritic intrusive. Minor carbonatized shear zones contain small amounts of chalcopyrite-pyrite with anomalous values of gold in soil on the North Slope grid. The North Slope east grid geochemical anomalies in gold can be explained by a possible fault zone paleo-stream channel or as a result of poor soil development.
WORK DONE: GEOL 1:2000
SOIL 941;multielement
ROCK 48;multielement
REFERENCES: A.R. 00816
M.I. 093N 067-SLOPE;093N 077-BOB;093N 160-SLIDE

**** Twin ****

MINING DIV: Omineca ASSESSMENT REPORT 15487 INFO CLASS 2
LOCATION: LAT. 55 39 54 LONG. 125 18 18 NTS:
CLAIMS: Talka,Twin 5-6
OPERATOR: Imperial Metals
AUTHOR: Pesalj, R.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: Drilling of the mineralized zone discovered in 1985 continued in 1986. A total of 14 holes were drilled to test the zone over 700 metres along strike at shallow depth. Gold, silver and copper mineralization was encountered over the entire strike length tested, with best results in DDH 5 and DDH 13 on the west side of the zone.
Gold mineralization is spatially and genetically related to intrusive porphyries adjacent to the contact between the Hogem Batholith and Upper Triassic Takla Group volcanics. It is confined to a zone marked by a large pyritic halo.
WORK DONE: SAMP 1095;multielement
DIAD 1748.3 m;14 holes,BQ
REFERENCES: A.R. 02501,12162
M.I. 093N 082-TWIN

**** Sol ****

MINING DIV: *** ASSESSMENT REPORT 16341 INFO CLASS 4
LOCATION: LAT. 55 40 00 LONG. 125 34 30 NTS:
CLAIMS: Sol 1-2,Sol 4
OPERATOR: Golden Porphyrite
AUTHOR: MacFarlane, H.
DESCRIPTION: The claims are underlain by sediments belonging to the Permian-Pennsylvanian Cache Creek Group. These sediments strike north-northwest and dip predominantly to the east. Folding of the sediments is evident on a regional scale. Minerals characteristic of lower greenschist facies metamorphism have developed as a result of this folding. Mineralization in the form of pyrite blebs and stringers have also developed within tuff and phyllite members.
WORK DONE: HMIN 12;Au,Ag
REFERENCES:

**** Bay ****

MINING DIV: Omineca ASSESSMENT REPORT 15874 INFO CLASS 4

LOCATION: LAT. 55 35 00 LONG. 125 55 00 NTS:
CLAIMS: Bay 1
OPERATOR: Noranda Ex.
AUTHOR: Maxwell, G.
DESCRIPTION: The property is underlain by a north/south trending sequence of felsic to intermediate volcanics which dip steeply to the west. These volcanics consist mainly of massive flows, tuff and lapilli tuff of the Upper Triassic-Lower Jurassic Sitlika Group.
WORK DONE: LINE 3.4 km
EMGR 3.4 km;HLEM
MAGG 3.4 km
REFERENCES: A.R. 14842

**** Bodine ****

MINING DIV: *** ASSESSMENT REPORT 16038 INFO CLASS 4
LOCATION: LAT. 55 36 42 LONG. 125 48 24 NTS:
CLAIMS: TL 2
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.; Maxwell, G.
COMMODITIES: Zinc,Copper
DESCRIPTION: The claims are underlain by felsic to intermediate volcaniclastic rocks of the Upper Triassic-Lower Jurassic Sitlika Group. These rocks strike northwest and dip steeply to the southwest. The property includes a previously discovered zinc-copper showing and several pyritic sericite schist horizons.
WORK DONE: IPOL 1.1 km
MAGG 6.2 km
REFERENCES: A.R. 06578,08485,14780
M.I. 093N 179-BODINE

**** Dag ****

MINING DIV: Omineca ASSESSMENT REPORT 15478 INFO CLASS 4
LOCATION: LAT. 55 40 54 LONG. 125 53 42 NTS:
CLAIMS: Dag 1
OPERATOR: Noranda Ex.
AUTHOR: Maxwell, G.
DESCRIPTION: The claim is underlain by a north-trending sequence of intermediate to felsic Sitlika Group volcanics and sediments of Upper Triassic to Lower Jurassic age.
WORK DONE: DIAD 46.9 m;1 hole,BQ
REFERENCES: A.R. 13719,14633,14849

**** Axel ****

MINING DIV: *** ASSESSMENT REPORT 16508 INFO CLASS 3
LOCATION: LAT. 55 56 48 LONG. 125 55 12 NTS:
CLAIMS: Axel 4,Axel 9
OPERATOR: Imperial Metals
AUTHOR: Taylor, A.
DESCRIPTION: Upper Triassic Takla Group sediments occur in a fault wedge adjacent to Permian-Pennsylvanian Cache Creek Group rocks. Takla Group sediments are intruded by numerous granitic to syenitic-type dykes which locally carry anomalous gold values.

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WORK DONE:     ROCK  21;multielement
               GEOL  1:12 500
               SOIL  103;multielement
REFERENCES:
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**** Axelgold ****

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MINING DIV:    Omineca           ASSESSMENT REPORT 15936    INFO CLASS 2
LOCATION:      LAT.  55 58 00  LONG.  125 58 00     NTS:
CLAIMS:        Axel 5-8,Goldaxe 1,Goldaxe 3
OPERATOR:      Imperial Metals
AUTHOR:        Taylor, A.
COMMODITIES:   Gold,Silver,Lead,Zinc,Copper,Antimony
DESCRIPTION:      A late Mesozoic or Early Tertiary syenitic porphyry intrudes
            conglomerate, and sediments of Takla Group in a fault splay from the
            Pinchi Fault.  The syenite body maybe up to 9 square kilometres and
            anomalous geochemical values in gold, silver, arsenic, lead, zinc
            and copper are found over it.  Small quartz veins (2 centimetres)
            carry anomalous gold and a trench located in silicified syenite gave
            an assay of 0.368 ounces per tonne (12.6 grams per tonne).
WORK DONE:     GEOL  1:12 500,1:2000
               SOIL  1800;multielement
               ROCK  121;multielement
               PETR  15 thin sections
               LINE  45.0 km
REFERENCES: A.R. 14018,14521
            M.I. 093N  196-AXELGOLD
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**** NL ****

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MINING DIV:    ***               ASSESSMENT REPORT 16304    INFO CLASS 3
LOCATION:      LAT.  55 58 18  LONG.  124 44 42     NTS:
CLAIMS:        NL 11-15,NL 4,NL 6,NL 8
OPERATOR:      Noranda Ex.
AUTHOR:        Savell, M.J.
DESCRIPTION:      The property is underlain by generally north striking, westerly
            dipping, crystalline limestone, limestone breccia, dolomite and
            siltstone of the Middle Cambrian Gog tectonic assemblage.  A soil
            geochemistry survey has detected a coincident lead-zinc-silver
            anomaly.
WORK DONE:     SOIL  330;Pb,Zn,Ag
               ROCK  28;Pb,Zn,Ag
               GEOL  1:2500
REFERENCES: A.R. 13929,14994
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**** Fever ****

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MINING DIV:    Omineca           ASSESSMENT REPORT 16576    INFO CLASS 4
LOCATION:      LAT.  55 55 36  LONG.  124 46 26     NTS:
CLAIMS:        Fever
OPERATOR:      Watkins, J.
AUTHOR:        Watkins, J.
DESCRIPTION:      The claim is underlain by basalt flows and intercalated fine-
            grained sediments of the Mississippian-Permian Slide Mountain
            terrane.  Rock units strike north-northwesterly and dip moderately
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            west.  Exhalative mineralization is expected to lie near a basalt
            and sediment contact.
WORK DONE:     ROCK  3;multielement
               SILT  4;multielement
               PROS  1:50 000
REFERENCES:
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**** Nina ****

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MINING DIV:    ***               ASSESSMENT REPORT 16471    INFO CLASS 4
LOCATION:      LAT.  55 57 00  LONG.  124 48 00     NTS:
CLAIMS:        Nina 1
OPERATOR:      Lornex Min.
AUTHOR:        Scott, A.; Thornton, J.
COMMODITIES:   Copper,Gold,Silver
DESCRIPTION:      Gold, silver and copper-bearing sulphide-rich lenses occur
            within sheared Upper Paleozoic basalt.  Sulphides are spatially
            associated with intercalated argillite and chert.
REFERENCES: A.R. 13977
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Pine Pass 093O

**** Win ****

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MINING DIV:    Cariboo           ASSESSMENT REPORT 16646    INFO CLASS 4
LOCATION:      LAT.  55 02 05  LONG.  122 53 49     NTS:
CLAIMS:        Win
OPERATOR:      Cons. Silver Standard Mines
AUTHOR:        Reid, D.
COMMODITIES:   Silica
DESCRIPTION:      A steeply dipping quartzite unit of Cambrian age is surrounded
            by schist.
REFERENCES: A.R. 05025
            M.I. 093O  014-WIN
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Halfway River 094B

**** Coral ****

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MINING DIV:    Liard             ASSESSMENT REPORT 16254    INFO CLASS 3
LOCATION:      LAT.  56 09 30  LONG.  123 24 48     NTS:
CLAIMS:        Coral
OPERATOR:      Northgate Ex.
AUTHOR:        Hardy, J.; Haynes, L.
DESCRIPTION:      Lead and zinc mineralization is hosted in breccia and pseudo-
            breccia of the Lower Paleozoic Stone Formation.  Showings occur in the
            top of the Stone Formation beneath a regional unconformity.
WORK DONE:     SAMP  7;multielement
               DIAD  518.2 m;9 holes,IAX
REFERENCES: A.R. 13724,15040
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**** Aley ****

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MINING DIV:    Omineca             ASSESSMENT REPORT 16484     INFO CLASS 2
LOCATION:     LAT.  56 26 59  LONG.  123 44 07     NTS:
CLAIMS:        Aley 1-4
OPERATOR:      Cominco
AUTHOR:        Pride, K.
COMMODITIES:   Niobium,Apatite
DESCRIPTION:      The claims cover a circular carbonatite complex roughly 4
             kilometres across which intrudes Cambrian-Silurian sedimentary rocks.
             A dolomitic carbonatite core contains substantial niobium reserves as
             fersmite with lesser pyrochlore and columbite and phosphate as
             apatite. Minor rare earth minerals are generally confined to the
             outer margins of the complex and occur as bastnaesite, monazite, and
             burbankite in thin iron-carbonate dykes.
WORK DONE:      GEOL  1:10 000
                DIAD  1481.4 m;10 holes,BQ
                SAMP  590;Nb
                ROAD  17.0 km
REFERENCES: M.I. 094B  027-ALEY
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**** Goat ****

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MINING DIV:     ***                ASSESSMENT REPORT 16033     INFO CLASS 3
LOCATION:     LAT.  56 05 00  LONG.  125 14 18     NTS:
CLAIMS:        Goat
OPERATOR:      Hudson Bay Ex. & Dev.
AUTHOR:        Stroshein, R.
DESCRIPTION:      The claim is underlain by Upper Triassic Nicola Group silicified
             volcanics with local shearing adjacent to large scale fault
             structures.
WORK DONE:      SOIL  174;multielement
REFERENCES:
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**** Vega ****

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MINING DIV:    Omineca             ASSESSMENT REPORT 16335     INFO CLASS 4
LOCATION:     LAT.  56 09 00  LONG.  125 20 00     NTS:
CLAIMS:        Vega
OPERATOR:      Canmine Dev.
AUTHOR:        Weishaupt, R.
COMMODITIES:   Gold,Copper,Mercury
DESCRIPTION:      The Vega Group lies on a north-northwest trending fault
             structure in Takla Group Volcanics of Upper Triassic to Jurassic age.
             Several prominant fault structures cut the mineral zone into several
             segments with right hand offsets. The zone may be 30 metres wide.
             Mineralization consists of chalcopyrite, pyrite and minor bornite and
             gold, either disseminated through the andesite or concentrated along
             calcite stringers that lie along fractures and/or shears.
WORK DONE:      LINE  1.2 km
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                SOIL  66;Au,Ag,Cu,Pb,As,Zn
                EMGR  1.2 km;VLF
REFERENCES: A.R. 00587,05257,05258,05259,05663,05930,05940,06120,06401
            M.I. 094C  021-VEGA
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**** Lay ****

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MINING DIV:     ***                ASSESSMENT REPORT 16236     INFO CLASS 3
LOCATION:     LAT.  56 27 36  LONG.  125 37 48     NTS:
CLAIMS:        Lay 1-5
OPERATOR:      Lacana Min.
AUTHOR:        Johnson, Darrel
DESCRIPTION:      The Polaris complex is 13 kilometres long by 2 to 4 kilometres
             wide, northwest trending body of dunite and olivine-rich peridotite,
             intruding a mixed package of volcanics and sediments of the Permian-
             Pennsylvanian Cache Creek Group.
WORK DONE:      TOPO  1:10 000
                SOIL  102;multielement
REFERENCES:
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**** Lay ****

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MINING DIV:    Omineca             ASSESSMENT REPORT 16628     INFO CLASS 3
LOCATION:     LAT.  56 28 02  LONG.  125 37 21     NTS:
CLAIMS:        Lay 1-5
OPERATOR:      Lacana Min.
AUTHOR:        Johnston, R.
DESCRIPTION:      The Polaris Complex is a 13 kilometre by 2 to 4 kilometre wide,
             northwest trending body of dunite and olivine-rich peridotite
             intruding a mixed package of volcanics and sediments of the Permian-
             Pennsylvanian Cache Creek Group, with a contact aureole of
             amphibolite. Minor chromite was noted in the peridotite with local
             small rusty pods of up to 10 per cent pyrite-pyrrhotite in the
             amphibolite.
WORK DONE:      SOIL  6;multielement
                SILT  92;multielement
                ROCK  136;multielement
REFERENCES: A.R. 16236
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**** Mes ****

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MINING DIV:     ***                ASSESSMENT REPORT 16573     INFO CLASS 4
LOCATION:     LAT.  56 24 36  LONG.  125 36 02     NTS:
CLAIMS:        Czech 1
OPERATOR:      Esso Res. Can.
AUTHOR:        Mowat, U.
COMMODITIES:   Copper
DESCRIPTION:      The property is underlain by a very magnetic intrusive and black
             volcanics of probable Permian-Pennsylvanian age. At the contact of
             the two rocks, chalcopyrite and molybdenite with gold values are
             found in a gossanous shear zone which trends northwesterly. The
             gossanous rock is exposed for 500 metres in the bed of a creek.
WORK DONE:      SOIL  1;multielement
                SILT  20;multielement
                ROCK  11;multielement
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GEOL 1:10 000
HMIN 2;multielement
REFERENCES: M.I. O94C O81-MES

**** Michele ****

MINING DIV: Omineca ASSESSMENT REPORT 16574 INFO CLASS 4
LOCATION: LAT. 56 29 06 LONG. 125 38 12 NTS:
CLAIMS: Michele 1
OPERATOR: Esso Res. Can.
AUTHOR: Mowat, U.
DESCRIPTION: The property is underlain by ultramafic rocks, varying from dunite to harzburgite, which are intruded by syenite. Mineralization consists of chalcopyrite, pyrrhotite and pyrite in close proximity to the syenite. The sulphides have some platinum values while the syenite tends to be slightly auriferous.
WORK DONE: HMIN 1;multielement
ROCK 16;multielement
SILT 18;multielement
SOIL 1;multielement
GEOL 1:10 000
REFERENCES:

**** Nel ****

MINING DIV: *** ASSESSMENT REPORT 15840 INFO CLASS 4
LOCATION: LAT. 56 29 42 LONG. 125 29 54 NTS:
CLAIMS: Lil 2
OPERATOR: Canmine Dev.
AUTHOR: Weishaupt, P.; Weishaupt, R.
COMMODITIES: Silver,Copper,Zinc,Lead
DESCRIPTION: Several quartz veins and breccias crosscut Precambrian schist and younger granophyre. Most veins have narrow silicified envelopes with broad sericitic, pyritic and argillic halos. The silver mineralization is confined to narrow quartz veins or breccias and occurs as dark grey, very fine specks and streaks of pyrargyrite and tetrahedrite.
WORK DONE: DIAD 64.2 m;2 holes,EW
EMGR 1.3 km;VLF
SAMP 2;Au,Ag
REFERENCES: A.R. 04880
M.I. O94C O79-NEL

**** Polaris ****

MINING DIV: Omineca ASSESSMENT REPORT 15955 INFO CLASS 3
LOCATION: LAT. 56 30 00 LONG. 125 40 00 NTS:
CLAIMS: Polaris,Pole 1-2
OPERATOR: Technigen Platinum
AUTHOR: Page, J.
DESCRIPTION: The Polaris property covers a section of the Polaris Ultramafic Complex, a zoned Alaskan type ultramafic consisting of serpentinized dunites and peridotites with subordinate olivine clinopyroxenite and minor hornblende magnetite clinopyroxenite and hornblendite. Platinum values in sediments range up to 661 ppb.

WORK DONE: ROCK 40;multielement
SILT 142;multielement
SOIL 2;multielement
REFERENCES:

**** Czech ****

MINING DIV: *** ASSESSMENT REPORT 16572 INFO CLASS 4
LOCATION: LAT. 56 33 05 LONG. 125 46 54 NTS:
CLAIMS: Czech 2
OPERATOR: Esso Res. Can.
AUTHOR: Mowat, U.
DESCRIPTION: The property is underlain by Permian(?) aquagene tuffs intruded by diorite and gabbro/harzburgite. No mineralization other than pyrite was noted. Minor anomalous values in gold and platinum were discovered in heavy mineral samples. Gossanous shear zones trending east for 1000 metres are geochemically anomalous.
WORK DONE: HMIN 3;multielement
GEOL 1:10 000
SOIL 8;multielement
ROCK 42;multielement
SILT 9;multielement
REFERENCES:

McConnell Creek O94D

**** Nero ****

MINING DIV: Omineca ASSESSMENT REPORT 15882 INFO CLASS 3
LOCATION: LAT. 56 06 00 LONG. 126 08 00 NTS:
CLAIMS: Nero 1-6
OPERATOR: Imperial Metals
AUTHOR: Wright, R.
DESCRIPTION: A Cretaceous layered gabbro has intruded Permo-Triassic Cache Creek Group metavolcanics and metasediments. Mineralization consists of scattered occurrences of disseminated iron sulphide, particularly within gabbro and country rock near their contact. The survey failed to detect significant levels of platinum group elements or gold. Best spot results included 312 ppb gold, 10 ppb platinum, 14 ppb palladium, and 24 ppb rhodium.
WORK DONE: ROCK 25;Au,Pt,Pd,Rh
SILT 28;Au,Pt,Pd,Rh
HMIN 30;Au,Pt,Pd,Rh
GEOL 1:10 000
REFERENCES:

**** PGM ****

MINING DIV: *** ASSESSMENT REPORT 15514 INFO CLASS 3
LOCATION: LAT. 56 03 48 LONG. 126 06 18 NTS:
CLAIMS: PGM 1-5
OPERATOR: Platinum Ex.
AUTHOR: Goodwin, J.
DESCRIPTION: The claims are underlain by a Cretaceous gabbroic layered

intrusive forming a bowl shaped structure. It is composed of alternating layers of anorthosite, anorthositic gabbro, gabbro and pyroxenite. Faulting has disrupted the intrusive in at least four directions. Mineralization consists of sparse stratabound sulphides.
WORK DONE: HMIN 16;Pt,Pd,Cu,Ni,Cr,Au
SILT 21;Pt,Pd,Cu,Ni,Cr,Au
GEOL 1:10 000
ROCK 126;multielement
REFERENCES:

**** Comb ****

MINING DIV: Omineca ASSESSMENT REPORT 16070 INFO CLASS 3
LOCATION: LAT. 56 11 18 LONG. 126 35 30 NTS:
CLAIMS: Comb 1-2
OPERATOR: Gunsteel Res.
AUTHOR: Allen, D.; Smith, M.
DESCRIPTION: The claims are underlain mainly by sedimentary rocks of the Upper Cretaceous Sustut Group.
WORK DONE: ROCK 2;Cu,Pb,Zn,Ag,Au,As
SILT 3;Cu,Pb,Zn,Ag,Au,As
SOIL 116;multielement
REFERENCES:

**** Mot 2 ****

MINING DIV: *** ASSESSMENT REPORT 16305 INFO CLASS 4
LOCATION: LAT. 56 04 54 LONG. 127 07 24 NTS:
CLAIMS: Mot 2
OPERATOR: Prolific Petr.
AUTHOR: Millinoff, T.
DESCRIPTION: Mineralization appears to be epithermal in origin and occurs within and adjacent to Bulkley Intrusions which intrude Lower Cretaceous Bowser Lake Group sediments and Lower Jurassic Hazelton Group volcanics.

Mineralization appears to be genetically related to the Bulkley granitoid intrusions.
WORK DONE: ROCK 36;Au,Ag
PROS 1:5000
TOPO 1:5000
REFERENCES: A.R. 08844,10378,10432,11630,11631,15392
M.I. 094D 042-MOT 2

**** Rim ****

MINING DIV: Omineca ASSESSMENT REPORT 15392 INFO CLASS 4
LOCATION: LAT. 56 03 18 LONG. 127 04 24 NTS:
CLAIMS: Mot
OPERATOR: Granges Ex.
AUTHOR: Kahlert, B.
COMMODITIES: Copper,Molybdenum
DESCRIPTION: The claim is underlain by Lower Jurassic Hazelton Group volcanics and Lower Cretaceous Bowser Lake Group sediments. These rocks are

intruded by Cretaceous-Tertiary sills and dykes of the Bulkley Intrusions.

Chalcopyrite and molybdenite mineralization occurs in veins, shears and fractures close to dykes and sills. Rock chip sampling returned anomalous gold and silver values.
WORK DONE: ROCK 17;AU,AG
REFERENCES: A.R. 8844,10378,10432,11630,11631,15392
M.I. 094D 072-RIM

**** Sping ****

MINING DIV: *** ASSESSMENT REPORT 15861 INFO CLASS 4
LOCATION: LAT. 56 14 42 LONG. 127 10 30 NTS:
CLAIMS: Sping 1
OPERATOR: Windflower Min.
AUTHOR: Ryznar, G.
DESCRIPTION: Limestone appears to be a clastic sediment within an intravolcanic sequence of the Lower Jurassic Hazelton Group.
WORK DONE: PETR 2 thin sections
REFERENCES: A.R. 04562,05552,05946

**** Goodridge,Bish ****

MINING DIV: Omineca ASSESSMENT REPORT 16062 INFO CLASS 3
LOCATION: LAT. 56 07 42 LONG. 127 36 30 NTS:
CLAIMS: Tom 2-3
OPERATOR: Noranda Ex.
AUTHOR: Myers, D.
COMMODITIES: Silver,Lead,Zinc,Copper,Gold
DESCRIPTION: Cretaceous Bowser Lake Group clastic sedimentary rocks are cut by quartz-carbonate veinlets of several orientations. The veinlets are usually less than 1 centimetre wide and carry pyrite, sphalerite, galena, arsenopyrite, pyrrhotite, tetrahedrite and rarely ruby silver. Minor disseminated mineralization is associated with the veinlet mineralization.
WORK DONE: SOIL 543;Au
REFERENCES: A.R. 00570,00574,13778,14631,15515
M.I. 094D 031-GOODRIDGE;094D 036-BISH

**** Goodridge,Bish ****

MINING DIV: *** ASSESSMENT REPORT 15515 INFO CLASS 3
LOCATION: LAT. 56 07 54 LONG. 127 36 48 NTS:
CLAIMS: AU 2,AU 4,Tom
OPERATOR: Noranda Ex.
AUTHOR: Day, R.; Myers, D.
COMMODITIES: Silver,Lead,Zinc,Copper,Gold
DESCRIPTION: Lower Cretaceous Bowser Lake Group clastic sediments are cut by quartz-carbonate veinlets of several orientations. The veinlets are usually less than 1 centimetre wide and carry pyrite, sphalerite, galena, arsenopyrite, pyrrhotite, tetrahedrite, and rarely ruby silver. Minor disseminated mineralization may be associated with the veinlet mineralization.
WORK DONE: DIAD 762.0 m;10 holes,NQ

SAMP 191;Au,Ag
REFERENCES: A.R. 00570,00574,13778,14631
M.I. 094D 031-GOODRIDGE;094D 036-BISH

**** Banjo,Independence ****

MINING DIV: Omineca ASSESSMENT REPORT 15583 INFO CLASS 3
LOCATION: LAT. 56 30 18 LONG. 126 06 18 NTS:
CLAIMS: KC 1
OPERATOR: Ritz Res.
AUTHOR: Christopher, P.
COMMODITIES: Gold
DESCRIPTION: The claims are mainly underlain by Upper Triassic Takla Group rocks which are intruded by various phases of the Klujul Creek pluton. Late felsite and andesite dykes also cut the sequence. Northwest trending structures control emplacement of auriferous quartz veins.
WORK DONE: EMGR 6.7 km;VLF
SOIL 38;Au,Ag,Cu,Pb,Zn
ROCK 87;Au,Ag,Cu,Pb,Zn
GEOL 1:2500
MAGG 6.7 km
REFERENCES: A.R. 02818,03312,03313,05211,09464
M.I. 094D 028-INDEPENDENCE;094D 029-BANJO

**** Soup ****

MINING DIV: *** ASSESSMENT REPORT 16655 INFO CLASS 3
LOCATION: LAT. 56 28 20 LONG. 126 04 24 NTS:
CLAIMS: Soup 1-11,Soup 14,Souper
OPERATOR: Lemming Res.
AUTHOR: Rebagliati, C.M.
COMMODITIES: Copper,Gold,Iron
DESCRIPTION: Upper Triassic Takla Group basalts host magnetite-chalcopyrite-calc-silicate skarns at a sedimentary break in the volcanic succession.
WORK DONE: MAGG 18.5 km
ROCK 29;multielement
REFERENCES: A.R. 00675,05562,05985,06410,07033,09485,10743,13315,15201
M.I. 094D 025-SOUP

**** Quyzuhx ****

MINING DIV: Omineca ASSESSMENT REPORT 15586 INFO CLASS 3
LOCATION: LAT. 56 40 30 LONG. 126 14 30 NTS:
CLAIMS: Inge 1-3
OPERATOR: Ritz Res.
AUTHOR: Christopher, P.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by volcanic and sedimentary rocks of the Upper Triassic Takla Group. Volcanic rocks include tuffs, agglomerates and flows. Sedimentary rocks are dominantly argillite with minor interbedded limestone and greywacke. Diorite dykes and sills of Jurassic age intrude the Takla Group.
East-trending quartz veins and silicified zones carry chalcopyrite, galena and native gold mineralization.

WORK DONE: EMGR 6.7 km;VLF
MAGG 6.7 km
ROCK 50;Au,Ag,Cu,Pb,Zn
REFERENCES: A.R. 10341,12803,13585,14630
M.I. 094D 010-QUYZUHX

**** Niv ****

MINING DIV: *** ASSESSMENT REPORT 15454 INFO CLASS 3
LOCATION: LAT. 56 46 54 LONG. 126 58 00 NTS:
CLAIMS: Niv 1-4,Niv 6
OPERATOR: Gunsteel Res.
AUTHOR: Allen, D.; Smith, M.
DESCRIPTION: The claims are underlain mainly by Upper Cretaceous Sustut Group sedimentary rocks. Geochemical anomalies obtained in the area suggest potential for paleoplacer gold mineralization.
WORK DONE: SOIL 223;multielement
ROCK 11;Cu,Pb,Zn,Ag,Au,As
REFERENCES:

**** Jen ****

MINING DIV: Omineca ASSESSMENT REPORT 16067 INFO CLASS 3
LOCATION: LAT. 56 46 42 LONG. 126 34 48 NTS:
CLAIMS: Jen 1-2
OPERATOR: Asitka Res.
AUTHOR: Allen, D.; Smith, M.
DESCRIPTION: The claims are underlain by Upper Triassic Takla Group volcaniclastic rocks and related monzodiorite intrusives. Soil sampling has revealed copper, zinc and scattered gold geochemical anomalies.
WORK DONE: ROCK 13;Cu,Pb,Zn,Ag,Au,As
SOIL 123;multielement
REFERENCES:

**** Nor ****

MINING DIV: *** ASSESSMENT REPORT 15547 INFO CLASS 4
LOCATION: LAT. 56 59 48 LONG. 126 48 00 NTS:
CLAIMS: Nor 2-4,Nor 7
OPERATOR: Cooke, D.
AUTHOR:
DESCRIPTION: The claims are underlain by Upper Triassic Takla Group volcanic rocks. Quartz vein float occurs with scattered geochemical anomalies.
WORK DONE: ROCK 4;multielement
SILT 22;multielement
PROS 1:50 000
HMIN 3;multielement
REFERENCES:

**** Kemess ****

MINING DIV: Omineca ASSESSMENT REPORT 16333 INFO CLASS 3
LOCATION: LAT. 57 03 48 LONG. 126 45 30 NTS:
CLAIMS: New Kemess 1-2
OPERATOR: El Condor Res.
AUTHOR: Blanchflower, J.
COMMODITIES: Copper,Molybdenum
DESCRIPTION: The claims are underlain by andesites and tuffs of the Upper Triassic Takla Group which are intruded by diorites of the Omineca Intrusions. Younger monzonite porphyry is also present.
WORK DONE: GEOL 1:2500
SAMP 147;multielement
LINE 14.1 km
ROCK 33;multielement
SOIL 351;multielement
MAGG 14.1 km
REFERENCES: A.R. 01705,05478,06069
M.I. O94E 021-KEMESS

**** Pine (Fin) ****

MINING DIV: *** ASSESSMENT REPORT 16502 INFO CLASS 4
LOCATION: LAT. 57 12 30 LONG. 126 41 42 NTS:
CLAIMS: Fin 2
OPERATOR: Pearson, B.
AUTHOR: Harris, J.
COMMODITIES: Copper,Molybdenum,Silver,Gold
DESCRIPTION: Lower Jurassic Hazelton Group volcanics are intruded by hornblende and biotite granodiorites and extensively altered with porphyry style mineralization.
WORK DONE: ROCK 56;multielement
PETR 56
REFERENCES: A.R. 01846,01886,01983,02035,02326,02380,03031,03119,03120,03266, 04396,07750,08331,08686,11032
M.I. O94E 016-PINE (FIN)

**** Richy ****

MINING DIV: Omineca ASSESSMENT REPORT 15923 INFO CLASS 4
LOCATION: LAT. 57 09 00 LONG. 126 42 30 NTS:
CLAIMS: Richy 1
OPERATOR: Golden Rule Res.
AUTHOR: Evans, B.
DESCRIPTION: The area is underlain by interlayered Middle Jurassic Toodoggone volcanics. Gold mineralization is sporadic and is only detected in stream sediments and soils.
WORK DONE: TOPO 1:5000
REFERENCES: A.R. 10344,13083

**** Amigo ****

MINING DIV: *** ASSESSMENT REPORT 16463 INFO CLASS 3

LOCATION: LAT. 57 11 43 LONG. 126 58 11 NTS:
CLAIMS: Pul,Star,Sun
OPERATOR: Cheni Gold Mines
AUTHOR: Illerbrun, K.; Plecash, D.
COMMODITIES: Copper,Zinc,Lead,Silver,Gold
DESCRIPTION: The claims are underlain by Permian Asitka Group limestones and Lower Jurassic Omineca intrusives. Skarns, consisting primarily of magnetite, chalcopyrite, diopside, epidote, grossular garnet, and minor wallastonite, are present at the limestone-intrusive contact.
REFERENCES: A.R. 06762,10236,14025
M.I. O94E 058-AMIGO

**** Jocky ****

MINING DIV: Omineca ASSESSMENT REPORT 15924 INFO CLASS 4
LOCATION: LAT. 57 14 18 LONG. 126 52 24 NTS:
CLAIMS: Jocky 1-5
OPERATOR: Golden Rule Res.
AUTHOR: Evans, B.
DESCRIPTION: The area is underlain by interlayered Middle Jurassic Toodoggone volcanics. Gold mineralization is sporadic and is only detected in stream sediments and soils.
WORK DONE: TOPO 1:5000
REFERENCES:

**** Rod ****

MINING DIV: *** ASSESSMENT REPORT 15548 INFO CLASS 4
LOCATION: LAT. 57 10 00 LONG. 126 45 30 NTS:
CLAIMS: Rod 1
OPERATOR: Cooke, D.
AUTHOR:
DESCRIPTION: The claim is underlain by Middle Jurassic Toodoggone tuffs, lapilli tuffs, and hornblende feldspar porphyry. Two stream silts were anomalous in gold.
WORK DONE: PROS 1:50 000
SILT 2;multielement
REFERENCES:

**** Vip 7,Vip 30,Vip 29 ****

MINING DIV: Omineca ASSESSMENT REPORT 16307 INFO CLASS 3
LOCATION: LAT. 57 10 24 LONG. 126 50 36 NTS:
CLAIMS: Grace 5
OPERATOR: Asitka Res.
AUTHOR: MacQuarrie, D.
DESCRIPTION: The property is underlain by three main rock units. Granodiorite is part of the northwest-trending pluton of Middle Jurassic age. Marble and siltstone of the Permian Asitka Group forms at least three roof pendants within the granodiorite. Volcanic and volcaniclastic rocks of the Middle Jurassic Toodoggone Volcanics outcrop on the eastern part of the claims. Main types of mineralization on the property include: (1) copper +/- zinc, +/- gold in skarns along marble-granodiorite contacts, (2) gold in siliceous zones and chloritic veins with coarse pyrite in pyritic metasiltstones, and

(3) gold in brecciated and silicified volcanic rocks of the Toodoggone Volcanics.
WORK DONE: MAGG 10.0 km
EMGR 10.0 km;VLF
SOIL 99;multielement
LINE 10.0 km
REFERENCES: A.R. 05144,07649,09494
M.I. 094E 047-VIP 7;094E 048-VIP 30;094E 049-VIP 29

**** Wrich ****

MINING DIV: *** ASSESSMENT REPORT 16470 INFO CLASS 3
LOCATION: LAT. 57 08 31 LONG. 126 45 50 NTS:
CLAIMS: Wrich 1-3
OPERATOR: Cheni Gold Mines
AUTHOR: Reid, R.; Illerbrun, K.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper
DESCRIPTION: The claims are underlain by Middle Jurassic Toodoggone volcanics and Upper Triassic Takla Group volcanic rocks. A zone of intense fumarolic-type clay-pyrophyllite alteration in association with chalcedony-quartz breccia zones occurs in the Toodoggone volcanics. Drilling confirmed the presence of intense faulting represented by thick clay seams.
WORK DONE: DIAD 883.4 m;5 holes,BQ
REFERENCES: A.R. 10705,14069
M.I. 094E 082-WRICH

**** Bart,Barny,Cheena ****

MINING DIV: Omineca ASSESSMENT REPORT 16370 INFO CLASS 3
LOCATION: LAT. 57 13 00 LONG. 127 04 00 NTS:
CLAIMS: Barny,Bart,Cheena
OPERATOR: Toodoggone Gold
AUTHOR: Bekdache, M.; Seywerd, J.
DESCRIPTION: Jurassic quartz monzonite and granodiorite are structurally deformed by an extensive network of intersecting faults. The intrusive is in contact with volcanics of Triassic age. Mineralization is controlled by the contact, faults, and dykes related to the contact and cutting the intrusive core itself.
WORK DONE: SOIL 263;Au,Ag,Cu,Pb,Zn
ROCK 14;Au,Ag,Cu,Pb,Zn
REFERENCES: A.R. 15356

**** Black ****

MINING DIV: *** ASSESSMENT REPORT 16068 INFO CLASS 3
LOCATION: LAT. 57 15 24 LONG. 127 04 00 NTS:
CLAIMS: Black I,Black III-IV
OPERATOR: Harlingten, H.
AUTHOR: Hermary, R.G.; White, G.E.
DESCRIPTION: Three major stratigraphic units strike northwest across the property. From south to north they are: (1) a late Jurassic intrusive, primarily granodiorite (2) undivided Middle Jurassic Toodoggone volcanics consisting of feldspar porphyry flows, tuffs and breccias (3) Upper Triassic Takla Group augite porphyry basalt

flows. The Toodoggone volcanics and Takla Group sequences are separated by a major fault zone.
WORK DONE: MAGA 134.0 km
REFERENCES:

**** Chip ****

MINING DIV: Omineca ASSESSMENT REPORT 16371 INFO CLASS 4
LOCATION: LAT. 57 12 00 LONG. 127 02 00 NTS:
CLAIMS: Chip
OPERATOR: Toodoggone Gold
AUTHOR: Bekdache, M.; Seywerd, J.
DESCRIPTION: Jurassic quartz monzonite and granodiorite are structurally deformed by an extensive network of intersecting faults. The intrusive is bordered by Triassic and Jurassic volcanic rocks. Mineralization, mostly pyrite, appears to be related to the contacts by a network of dykes and faults cutting the volcanics and the intrusive core itself.
WORK DONE: SOIL 65;Cu,Pb,Zn,Ag,Au
ROCK 18;Cu,Pb,Zn,Ag,Au
IPOL 1.8 km
REFERENCES:

**** Fred,Zonker ****

MINING DIV: *** ASSESSMENT REPORT 16565 INFO CLASS 4
LOCATION: LAT. 57 10 18 LONG. 127 01 00 NTS:
CLAIMS: Fred,Zonker
OPERATOR: Shaw, D.
AUTHOR: Hermary, R.G.; White, G.E.
DESCRIPTION: There is an east trending contact situated in the southern portion of the Zonker claim. The contact is between Upper Triassic Takla Group rocks to the south and Lower to Middle Jurassic quartz monzonite and granodiorite intrusive rocks to the north. Two major north trending faults and cross faults are evident from the magnetic data and airphoto. The magnetic data also indicates some dykes and plugs in the southern portion of the Zonker claim.
WORK DONE: MAGA 85.0 km
REFERENCES:

**** Lac Noir,Ben ****

MINING DIV: Omineca ASSESSMENT REPORT 16368 INFO CLASS 3
LOCATION: LAT. 57 14 00 LONG. 127 02 00 NTS:
CLAIMS: Ben,Jerry,Lac Noir
OPERATOR: Beachview Res.
AUTHOR: Bekdache, M.; Seywerd, J.
DESCRIPTION: Jurassic quartz monzonite and granodiorite are faulted into two domes. The intrusive is in contact with volcanics of Jurassic and Triassic ages. Mineralization is associated with the contact zones. Contacts are of three types: subvertical contact-fault between Triassic volcanics and the intrusive; subhorizontal contact between Jurassic volcanics overlying the intrusive, and contact site lenses of volcanics.
WORK DONE: ROCK 17;Cu,Pb,Zn,Ag,Au

SILT 8;Cu,Pb,Zn,Ag,Au
GEOL 1:50 000
SOIL 194;Cu,Pb,Zn,Ag,Au
REFERENCES: A.R. 15268

**** Tagish,Brutus ****

MINING DIV: *** ASSESSMENT REPORT 16369 INFO CLASS 3
LOCATION: LAT. 57 14 00 LONG. 127 08 00 NTS:
CLAIMS: Brutus,Heckle,Jeckle,Tagish
OPERATOR: Beachview Res.
AUTHOR: Beckdache, M.; Seywerd, J.
DESCRIPTION: Jurassic quartz monzonite and granodiorite are dome-shaped and structurally deformed by an extensive network of intersecting northwest and northeast trending faults. Three grades of alteration were identified from basal granitic composition. Mineralization, mostly pyrite, is associated with former sites of lenses of volcanic rocks overlying structural channels of hydro-thermal fluids.
WORK DONE: SOIL 94;Au,Ag,Cu,Pd,Zn
SILT 18;Au,Ag,Cu,Pd,Zn
REFERENCES:

**** Amethyst Valley ****

MINING DIV: Omineca ASSESSMENT REPORT 16488 INFO CLASS 4
LOCATION: LAT. 57 29 48 LONG. 127 08 36 NTS:
CLAIMS: Amethyst Valley
OPERATOR: Shayna Res.
AUTHOR: Basil, C.
DESCRIPTION: The claims are underlain by Middle Jurassic Toodoggone volcanics and Upper Triassic Takla Group rocks.
WORK DONE: LINE 19.2 km
REFERENCES:

**** Amethyst Valley,Kidview ****

MINING DIV: *** ASSESSMENT REPORT 15412 INFO CLASS 3
LOCATION: LAT. 57 29 00 LONG. 127 09 00 NTS:
CLAIMS: Amethyst Valley,Kidview
OPERATOR: Geostar Min.
AUTHOR: Ikona, C.; Yeager, D.
DESCRIPTION: The claims are underlain by Lower to Middle Jurassic McClair Creek Formation porphyritic flows, tuffs and breccias, and a fault-bounded wedge of Upper Triassic Takla Group porphyritic basalts and sediments. A number of quartz vein systems, quartz stockwork breccias and silicified zones returned anomalous multielement value in rock chip samples.
WORK DONE: ROCK 134;multielement
REFERENCES: A.R. 08998

**** Black II ****

MINING DIV: Omineca ASSESSMENT REPORT 15819 INFO CLASS 3
LOCATION: LAT. 57 16 00 LONG. 127 03 00 NTS:
CLAIMS: Black II

OPERATOR: First Allied Res.
AUTHOR: Sorbara, J.; Steele, J.
DESCRIPTION: A northwest trending fault separates Upper Triassic Takla Group augite porphyry basalt from the Black Lake quartz monzonite stock. The former rock unit is separated from the Lower to Middle Jurassic Toodoggone Group quartzose plagioclase tuffs and breccias by a northwest trending sinuous fault zone on the north boundary of the claim. The eastern part of the claim is underlain by the latter lithologies mixed with andesitic quartzose ash flows.
WORK DONE: ROCK 6;Au,Ag,Cu,Pb,Zn,Ba
SOIL 341;multielement
SILT 30;Au,Ag,Cu,Pb,Zn,Ba
REFERENCES:

**** Chappelle ****

MINING DIV: *** ASSESSMENT REPORT 16499 INFO CLASS 3
LOCATION: LAT. 57 17 26 LONG. 127 05 53 NTS:
CLAIMS: Chappelle 27
OPERATOR: Multinational Min.
AUTHOR: Carter, N.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: Northeast striking gold and silver bearing quartz veins are hosted by Upper Triassic Takla Group volcanic rocks north of their contact with granitic rocks of the Black Lake stock.
WORK DONE: DIAD 217.0 m;2 holes,NQ
SAMP 29;Au,Ag
REFERENCES: A.R. 01959,02582,02819,03171,03198,03343,03367,03418,03419,04066,05268,05667,06096,07533,09889,10662,11516,11598,15321,15701
M.I. O94E 026-CHAPPELLE

**** EHL ****

MINING DIV: Omineca ASSESSMENT REPORT 15818 INFO CLASS 3
LOCATION: LAT. 57 28 00 LONG. 127 05 00 NTS:
CLAIMS: Joanna I-II
OPERATOR: Armor Dev.
AUTHOR: Sorbara, J.; Steele, J.
COMMODITIES: Copper
DESCRIPTION: North-northwest striking Lower Jurassic Hazelton Group volcanics in the southeast part of Joanna II are bounded to the north by a northwest trending fault. Massive basic volcanics of the Takla Group (Upper Triassic) occur north of this fault. Locally, gently dipping Toodoggone volcanics underlie parts of the Joanna I claim.
WORK DONE: ROCK 5;Au,Ag,Cu,Pb,Zn,Ba
SOIL 99;multielement
REFERENCES: A.R. 02506,15067,15070
M.I. O94E 036-EHL

**** G.W.P. ****

MINING DIV: *** ASSESSMENT REPORT 15632 INFO CLASS 3
LOCATION: LAT. 57 22 00 LONG. 127 10 00 NTS:
CLAIMS: G.W.P. 130,G.W.P. 150,G.W.P. 170,G.W.P. 210,G.W.P. 220,G.W.P. 240
G.W.P. 250,G.W.P. 260

OPERATOR: Cyprus Metals Can.
AUTHOR: Thompson, W.
DESCRIPTION: The southern part of the claim group is underlain by quartz dacite of the Lower to Middle Jurassic Toodoggone volcanics. The northern portions are covered by glacial drift and gravels of Toodoggone River.
WORK DONE: GEOL 1:10 000
SOIL 124;multielement
TREN 125 m
SILT 108;multielement
LINE 12.6 km
REFERENCES:

**** G.W.P. No. 430 ****

MINING DIV: Omineca ASSESSMENT REPORT 15657 INFO CLASS 3
LOCATION: LAT. 57 22 30 LONG. 127 03 00 NTS:
CLAIMS: G.W.P. No. 430
OPERATOR: Cyprus Metals Can.
AUTHOR: Tompson, W.
DESCRIPTION: Bedrock is exposed in canyon walls along Saunders Creek, but otherwise is covered by talus and frost-heaved rock. Bedrock is believed to be Metsantan quartzose andesite of the Toodoggone volcanics, similar to that exposed in Saunders Creek canyon.
WORK DONE: LINE 2.5 km
SOIL 631;Ag,As,Hg,Au,Sb,Ba
SILT 18;Ag,As,Hg,Au,Sb
ROCK 3;Ag,As,Hg,Au,Ba
REFERENCES:

**** Golden Neighbour ****

MINING DIV: *** ASSESSMENT REPORT 15512 INFO CLASS 3
LOCATION: LAT. 57 19 06 LONG. 127 02 42 NTS:
CLAIMS: Golden Neighbour 1
OPERATOR: Lacana Min.
AUTHOR: Johnston, R.
DESCRIPTION: An argillic altered fault zone within the Middle Jurassic Toodoggone volcanics locally contains base metals in quartz veins. Precious metal content is low, but significant values of molybdenum, tungsten, copper and zinc were encountered.
WORK DONE: SAMP 147;multielement
DIAD 605.0 m;5 holes,NQ
REFERENCES: A.R. 09425

**** Gord 9,Gord 18 ****

MINING DIV: Omineca ASSESSMENT REPORT 15997 INFO CLASS 3
LOCATION: LAT. 57 29 24 LONG. 127 01 48 NTS:
CLAIMS: Gord 1,Met 1-2
OPERATOR: Beachview Res.
AUTHOR: Cukor, V.; Pezzot, E.
COMMODITIES: Lead,Zinc,Copper
DESCRIPTION: The Toodoggone River area is underlain by a volcano-sedimentary complex and numerous intrusive bodies. Northwest faults form the most

prominent structural element and have a major role in the emplacement of mineralization. Four main precious and base metal deposit types have been identified in the general area; porphyry, skarn, stratabound, and epithermal.
WORK DONE: MAGA 207.0 km
EMAB 207.0 km;VLF
REFERENCES: A.R. 05194
M.I. 094E 051-GORD 18;094E 052-GORD 9

**** Key ****

MINING DIV: *** ASSESSMENT REPORT 15998 INFO CLASS 3
LOCATION: LAT. 57 24 42 LONG. 127 13 30 NTS:
CLAIMS: Key
OPERATOR: Beachview Res.
AUTHOR: Cukor, V.; Pezzot, E.
DESCRIPTION: The Toodoggone River area is underlain by a volcano-sedimentary complex and numerous intrusive bodies. Northwest faults form the most prominent structural element and have a major role in the emplacement of mineralization. Four main precious and base metal deposit types have been identified in the general area: porphyry, skarn, stratabound and epithermal.
WORK DONE: MAGA 113.0 km
EMAB 113.0 km;VLF
REFERENCES:

**** Mac ****

MINING DIV: Omineca ASSESSMENT REPORT 15809 INFO CLASS 3
LOCATION: LAT. 57 25 00 LONG. 127 03 00 NTS:
CLAIMS: Mac I-II,Mac IV
OPERATOR: Goldbrae Dev.
AUTHOR: Pezzot, E.
DESCRIPTION: The property is predominantly underlain by a Lower to Middle Jurassic granodiorite to quartz diorite intrusive. A northwesterly oriented contact with Toodoggone volcanics (Hazelton Group?) is projected in the northeast corner of the Mac III claim.
WORK DONE: MAGA 189.0 km
REFERENCES: A.R. 14731

**** McClair Creek ****

MINING DIV: *** ASSESSMENT REPORT 15983 INFO CLASS 3
LOCATION: LAT. 57 24 00 LONG. 127 04 36 NTS:
CLAIMS: Hyfly I-II,Mac III
OPERATOR: Com-Air Containers
AUTHOR: Parkinson, J.
COMMODITIES: Placer Gold
DESCRIPTION: Jurassic Omineca intrusives are in fault contact with Middle Jurassic Toodoggone volcanics.
WORK DONE: MAGA 117.0 km
REFERENCES: A.R. 10534,11576,14209
M.I. 094E 001-MCCLAIR CREEK

**** Moosenorn ****

MINING DIV: Omineca ASSESSMENT REPORT 15469 INFO CLASS 1
LOCATION: LAT. 57 23 24 LONG. 127 14 36 NTS:
CLAIMS: Bear,Dougs,G.W.P. 27-30,G.W.P. 34,G.W.P. 40,G.W.P. 42
OPERATOR: Cyprus Metals Can.
AUTHOR: Tompson, W.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by volcanic flows, tuffs and epiclastic rocks of the Middle Jurassic Toodoggone volcanics. Zones of hydrothermally altered rocks strike north-northwesterly across the claim area. Bedrock is covered by alluvium, colluvium and glacial drift throughout 95 per cent of the area.
WORK DONE: SAMP 386;multielement
SILT 108;multielement
DIAD 1066.8;12 holes,BQ
TREN 82.5 m;11 trenches
SOIL 2912;multielement
ROCK 181;multielement
LINE 52.1 km
GEOL 1:20 000,1:10 000,1:5000,1:1000
REFERENCES: A.R. 14697
M.I. 094E 086-MOOSEHORN

**** Mul,Gord ****

MINING DIV: *** ASSESSMENT REPORT 15965 INFO CLASS 3
LOCATION: LAT. 57 27 24 LONG. 127 00 48 NTS:
CLAIMS: Gord 2-4,Mul 1-4
OPERATOR: Toodoggone Gold
AUTHOR: Cukor, V.; Pezzot, E.
DESCRIPTION: Three major stratigraphic units strike northwest across the claims and from south to north they are 1) a late Jurassic intrusion - primarily granodiorite 2) undivided Middle Jurassic Toodoggone volcanics consisting of feldspar porphyry flows, tuffs and breccias 3) Upper Triassic Takla Group augite porphyry basalt flows. The Toodoggone volcanics and Takla Group are separated by a major fault.
WORK DONE: MAGA 380.0 km
EMAB 380.0 km;VLF
REFERENCES: A.R. 05194,15997

**** Pau (Perry Mason) ****

MINING DIV: Omineca ASSESSMENT REPORT 16476 INFO CLASS 2
LOCATION: LAT. 57 16 24 LONG. 127 08 48 NTS:
CLAIMS: Mason 1
OPERATOR: Cheni Gold Mines
AUTHOR: Reid, R.
COMMODITIES: Silver,Gold,Copper,Lead,Zinc
DESCRIPTION: The claims are underlain by Permian Asitka Group limestone and metasediments, Upper Triassic Takla Group volcanic rocks and Middle Jurassic Toodoggone volcanics which are intruded by quartz monzonite-quartz diorite of the Lower Jurassic Omineca Intrusions.

WORK DONE: DIAD 1122.1 m;8 holes,BQ
SAMP 392;Au,Ag
REFERENCES: M.I. 094E 072-PAU (PERRY MASON)

**** Saunders ****

MINING DIV: *** ASSESSMENT REPORT 15922 INFO CLASS 4
LOCATION: LAT. 57 21 00 LONG. 127 03 00 NTS:
CLAIMS: Saunder 1-4
OPERATOR: Golden Rule Res.
AUTHOR: Evans, B.
COMMODITIES: Lead,Gold,Silver,Copper,Molybdenum
DESCRIPTION: The area is underlain by interlayered Middle Jurassic Toodoggone volcanics. Gold mineralization is sporadic and is only detected in stream sediments and soils.
WORK DONE: TOPO 1:5000
REFERENCES: A.R. 02083,02822,03314,03315,03316,03361,03362,03366,03416,03837,
03841,04065,04091,04615,05106,05167,05825,08445,09236
M.I. 094E 017-SAUNDERS (LAWYERS,KODAK);094E 037-SAUNDERS 162;
094E 040-SOM (NE,GD)

**** Shasta ****

MINING DIV: Omineca ASSESSMENT REPORT 16241 INFO CLASS 3
LOCATION: LAT. 57 16 06 LONG. 127 00 12 NTS:
CLAIMS: Shasta 3
OPERATOR: Esso Min. Can.
AUTHOR: Holbeck, P.; Thiersch, P.
DESCRIPTION: Gold and silver mineralization occurs within structurally controlled quartz and quartz-carbonate stockworks. Host rocks are feldspar crystal-lithic tuffs of the Middle Jurassic Toodoggone volcanics.
WORK DONE: GEOL 1:2500
ROCK 3;multielement
LINE 7.6 km
SOIL 276;multielement
REFERENCES:

**** Spartan ****

MINING DIV: *** ASSESSMENT REPORT 15468 INFO CLASS 3
LOCATION: LAT. 57 22 00 LONG. 127 00 00 NTS:
CLAIMS: G.W.P. 1,G.W.P. 41,G.W.P. 110,G.W.P. 120,G.W.P. 140,G.W.P. 160
G.W.P. 180,G.W.P. 190,G.W.P. 2000
OPERATOR: Cyprus Metals Can.
AUTHOR: Tompson, W.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by Middle Jurassic Toodoggone volcanics consisting of trachy-andesite, andesite and quartz dacite flows. A few small remnants of basalt occur and appear to be on the downthrown side of a normal fault. A zone of hydrothermally altered rocks makes a prominent gossan. Quartz veins with pyrite and locally barite occur in the altered rocks.
WORK DONE: GEOL 1:10 000,1:2000
ROCK 224;multielement

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              SILT  64;Cu,Pb,Zn,Ag,Au
              LINE  9.5 km
REFERENCES:  A.R. 01823
             M.I. O94E  007-SPARTAN

**** Sturdee ****

MINING DIV:    Omineca            ASSESSMENT REPORT 16551    INFO CLASS 3
LOCATION:     LAT.  57 25 30  LONG.  127 12 30     NTS:
CLAIMS:        Sturdee
OPERATOR:      Energex Min.
AUTHOR:        Sivertz, G.
DESCRIPTION:       The claim is underlain by Middle Jurassic Toodoggone volcanics.
             No mineralization is known.
WORK DONE:     SOIL  730;Au,Ag,Cu,Pb,Zn
REFERENCES:  A.R. 15185

**** Bv-Thesis II-III,Bonanza-Verrenass ****

MINING DIV:    Liard              ASSESSMENT REPORT 16057    INFO CLASS 3
LOCATION:     LAT.  57 29 00  LONG.  127 22 00     NTS:
CLAIMS:        Al 2-4
OPERATOR:      Energex Min.
AUTHOR:        Eccles, L.; Sivertz, G.
COMMODITIES:   Gold
DESCRIPTION:       Middle Jurassic Toodoggone volcanics including andesite flows and
             tuff, host epithermal alteration zones containing quartz-barite-gold-
             silver mineralization.  The alteration zones are tabular to vein-like
             and comprise central silicified cores enveloped by intensely
             argillized rock.  Most alteration zones are steeply dipping and are
             controlled by northwest to northeast trending fault systems.
WORK DONE:     TREN  1585.0 m;45 trenches
               DIAD  841.4 m;30 holes,HQ
               SAMP  472;Au
               ROCK  564;Au
REFERENCES:  A.R. 10709,13198,13454,14638
             M.I. O94E  079-BONANZA-VERRENASS;O94E  091-THESIS II-III

**** Discovery ****

MINING DIV:    ***                ASSESSMENT REPORT 15533    INFO CLASS 3
LOCATION:     LAT.  57 26 36  LONG.  127 24 36     NTS:
CLAIMS:        Discovery 1
OPERATOR:      Duke Min.
AUTHOR:        Mouldey, P.
DESCRIPTION:       The claims are underlain by Middle Jurassic Toodoggone
             volcanics.
WORK DONE:     IPOL  4.7 km
               EMGR  9.7 km;VLF
               SOIL  164;Cu,Pb,Zn,Ag,Au
               LINE  7.0 km
REFERENCES:
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**** Golden Stranger ****

MINING DIV:    Omineca            ASSESSMENT REPORT 15633    INFO CLASS 2
LOCATION:     LAT.  57 22 30  LONG.  127 22 00     NTS:
CLAIMS:        Golden Stranger,Golden Stranger II
OPERATOR:      Western Horizons Res.
AUTHOR:        Gower, S.; Northcote, K.
COMMODITIES:   Gold,Silver,Arsenic,Lead,Zinc,Copper
DESCRIPTION:       Massive Toodoggone volcanics consisting primarily of
             crystal lithic tuff breccia have superimposed northerly trending
             zones of hydrothermal alteration.  Two divergent quartz-breccia
             zones approximately 180 metres apart were discovered and mapped.
             The system on the east where its full width is exposed measures
             more than 50 metres wide and extends for a length of more than 600
             metres.  Gold and silver mineralization occurs associated mainly
             with the east zone.
WORK DONE:     PETR  50 thin sections
               ROCK  140;Au,Ag
               SOIL  104;Au,Ag
               TREN  232.8 m;14 trenches
               GEOL  1:1000,1:500,1:100
               EMGR  14.0 km;VLF
               MAGG  7.0 km
REFERENCES:  A.R. 11793,13972
             M.I. O94E  076-GOLDEN STRANGER

**** Spike ****

MINING DIV:    Liard              ASSESSMENT REPORT 16056    INFO CLASS 3
LOCATION:     LAT.  57 30 00  LONG.  127 23 30     NTS:
CLAIMS:        Spike
OPERATOR:      Toodoggone Synd.
AUTHOR:        Hermary, R.G.; White, G.E.
DESCRIPTION:       Three major stratigraphic units strike northwest across the
             claims.  From south to north, they are (1) a late Jurassic intrusion
             - primarily granodiorite (2) undivided Middle Jurassic Toodoggone
             volcanics consisting of feldspar porphyry flows, tuffs and breccias
             (3) Upper Triassic Takla Group augite porphyry basalt flows.  The
             Toodoggone volcanics and Takla Group sequences are separated by
             a major fault.
WORK DONE:     MAGA  143.0 km
REFERENCES:

**** Surprise ****

MINING DIV:    Omineca            ASSESSMENT REPORT 15779    INFO CLASS 3
LOCATION:     LAT.  57 28 00  LONG.  127 16 00     NTS:
CLAIMS:        Surprise
OPERATOR:      Energex Min.
AUTHOR:        Awmack, H.
DESCRIPTION:       Southwesterly-dipping andesitic flows and volcaniclastics of the
             Early Jurassic Tuff Peak Formation of the Toodoggone volcanics are
             altered over a large, roughly circular area.  Epidote-bearing
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propylitic alteration predominates. Two auriferous potassic alteration zones occur along the southern boundary of the propylitic alteration. The larger zone is exposed for 300 metres with widths up to 25 metres.
WORK DONE: ROCK 33;Au,Ag
GEOL 1:5000,1:500
REFERENCES: A.R. 15183

**** Fine ****

MINING DIV: *** ASSESSMENT REPORT 15962 INFO CLASS 3
LOCATION: LAT. 57 16 30 LONG. 126 43 30 NTS:
CLAIMS: Fine 1-4
OPERATOR: Toodoggone Gold
AUTHOR: Cukor, V.; Pezzot, E.
DESCRIPTION: The claims are underlain primarily by Middle Jurassic Toodoggone volcanics. Late Jurassic intrusives are mapped along the eastern half of the claims and Upper Triassic Takla Group volcanics are located along the northern border. These rocks host several pyrite, chalcopyrite, sphalerite and galena showings.
WORK DONE: MAGA 248.0 km
EMAB 248.0 km;VLF
REFERENCES:

**** Arg ****

MINING DIV: Omineca ASSESSMENT REPORT 16043 INFO CLASS 3
LOCATION: LAT. 57 20 00 LONG. 126 58 00 NTS:
CLAIMS: Adrian,Argus 1-2,Ian,Otto,Paul
OPERATOR: Rhyolite Res.
AUTHOR: Parkinson, J.; White, G.E.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: Jurassic granodiorite intrusives are in fault contact with andesite of the Middle Jurassic Toodoggone volcanics. Smaller intrusives emplaced into quartz andesites exhibit altered flanks. Normal block faulting with related basalt and diorite sills and dykes host limonite gossans and anomalous gold and copper values.
WORK DONE: MAGA 200.0 km
REFERENCES: A.R. 02082,03987,09001,10294
M.I. 094E 083-ARG

**** Bishop,Knight ****

MINING DIV: *** ASSESSMENT REPORT 15599 INFO CLASS 3
LOCATION: LAT. 57 22 00 LONG. 126 52 00 NTS:
CLAIMS: Bishop,Castle,Kevin,Knight
OPERATOR: Peralto Res.
AUTHOR: Sorbara, J.; Steele, J.
DESCRIPTION: The claims are underlain by plagioclase feldspar porphyry flows, tuffs and breccias, rhyolites and intermediate to mafic intrusives. Zones of secondary silicification and pyritization are common.
WORK DONE: SOIL 522;multielement
GEOL 1:10 000,1:5000
MAGG 6.2 km
EMGR 8.5 km;VLF

ROCK 89;multielement
SILT 30;multielement
REFERENCES: A.R. 14909

**** Pillar ****

MINING DIV: Omineca ASSESSMENT REPORT 15555 INFO CLASS 3
LOCATION: LAT. 57 15 18 LONG. 126 53 36 NTS:
CLAIMS: Brenda 6,Jan 1-3,Jan 5
OPERATOR: Canasil Res.
AUTHOR: Weishaupt, P.; Weishaupt, R.
COMMODITIES: Copper,Gold,Silver,Zinc,Lead
DESCRIPTION: Several zones of quartz-barite breccia epithermal veining in Middle Jurassic Toodoggone volcanic tuffs and hypabyssal syenite have been located.
Disseminated pyrite with minor galena, sphalerite and chalcopyrite occur in the veins. At higher elevations a mineralized quartz-chalcedonic breccia zone was located with values in gold and silver.
WORK DONE: TREN 50.0 m;10 trenches
GEOL 1:5000,1:1000,1:100
REST 11.1 km
LINE 11.0 km
SOIL 189;multielement
SILT 48;multielement
ROCK 36;multielement
REFERENCES: A.R. 01825,01861,01888,01906,15267
M.I. 094E 008-PILLAR

**** Fisher,Wolverine ****

MINING DIV: Liard ASSESSMENT REPORT 16185 INFO CLASS 3
LOCATION: LAT. 57 39 00 LONG. 127 15 00 NTS:
CLAIMS: Fisher I-II,Wolverine I-II
OPERATOR: Toodoggone Gold
AUTHOR: Cukor, V.; Pezzot, E.
DESCRIPTION: The claims are underlain by Upper Triassic Takla Group volcanics which are surrounded by a Jurassic granite intrusive. Block faulting is evident.
WORK DONE: EMAB 278.0 km;VLF
MAGA 278.0 km
REFERENCES:

**** Har ****

MINING DIV: Omineca ASSESSMENT REPORT 15474 INFO CLASS 3
LOCATION: LAT. 57 31 36 LONG. 127 12 12 NTS:
CLAIMS: Gord Davies,Har 2-3,Har 5
OPERATOR: Western Horizons Res.
AUTHOR: Gower, S.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper
DESCRIPTION: A northerly trending fault separates Middle Jurassic Toodoggone volcanics on the west from altered Upper Triassic Takla Group volcanic flows; both are cut by Omineca related intrusives. Gold and silver mineralization occurs in quartz-carbonate vein breccias and chlorite-

carbonate-sericite-epidote altered volcanics.
WORK DONE: SOIL 50;Au,Ag
SILT 25;Au,Ag
ROCK 58;Au,Ag
REFERENCES: A.R. 04970,05820
M.I. 094E 053-HAR

**** Lake ****

MINING DIV: *** ASSESSMENT REPORT 15960 INFO CLASS 3
LOCATION: LAT. 57 31 12 LONG. 127 05 00 NTS:
CLAIMS: Lake I-IV
OPERATOR: PMA Technologies
AUTHOR: Pezzot, E.; White, G.E.
DESCRIPTION: A majority of the claims are underlain by Upper Triassic Takla Group mafic flows. A major fault structure runs north along Belle Lake Valley and separates Takla Group on east from Lower Jurassic Hazelton Group andesitic and pyroclastic rocks. An east-west fault is mapped along the northern property boundary. Some skarn is noted in northwesterly trending limy beds within the Takla Group.
WORK DONE: MAGA 265.0 km
EMAB 265.0 km;VLF
REFERENCES: A.R. 14965,15068

**** Oro,Ursus ****

MINING DIV: Liard ASSESSMENT REPORT 16055 INFO CLASS 3
LOCATION: LAT. 57 34 00 LONG. 127 04 48 NTS:
CLAIMS: Oro I-II,Ursus I-IV
OPERATOR: Beachview Res.
AUTHOR: Cukor, V.; Pezzot, E.
DESCRIPTION: The Toodoggone River area is set in the Intermontane Belt and the main geologic units comprise a volcano-sedimentary complex and numerous intrusive bodies. Northwest faults form the most prominent structural element and have a major role in the emplacement of mineralization. Four main precious and base metal deposit types have been identified in the general area: porphyry, skarn, stratabound and epithermal.
WORK DONE: EMAB 364.0 km;VLF
MAGA 364.0 km
REFERENCES:

**** Cali,Dall ****

MINING DIV: *** ASSESSMENT REPORT 16085 INFO CLASS 3
LOCATION: LAT. 57 34 48 LONG. 127 21 18 NTS:
CLAIMS: Cali,Dall,Paw,Pika,Yeti
OPERATOR: Expeditor Res. Group
AUTHOR: Pezzot, E.
DESCRIPTION: Three major stratigraphic units strike northwest across the property; from south to north they are (1) a Late Jurassic intrusion - primarily granodiorite (2) undivided Toodoggone volcanics - Middle Jurassic feldspar porphyry flows, tuffs and breccias (3) Takla Group - Upper Triassic augite porphyry basalt flows. The Toodoggone volcanics and Takla group sequences are separated by a major fault

zone.
WORK DONE: MAGA 350.0 km
REFERENCES: A.R. 15069,15995

**** Claw ****

MINING DIV: Liard ASSESSMENT REPORT 16140 INFO CLASS 4
LOCATION: LAT. 57 36 36 LONG. 127 18 30 NTS:
CLAIMS: Silver Bluff 1-4
OPERATOR: Thompson, E.
AUTHOR: Thompson, E.; Gower, S.
COMMODITIES: Copper,Silver
DESCRIPTION: The claims are underlain by Upper Triassic Takla Group porphyritic andesite which is locally intruded by syenite dykes and plugs and andesite dykes. Chalcocite, bornite and chalcopyrite mineralization occurs within shear zones associated with hydrothermal alteration minerals. Mineralization commonly occurs adjacent to the syenite-diorite plutons.
WORK DONE: ROCK 11;multielement
SOIL 60;multielement
REFERENCES: A.R. 04745,05230,05242,05635,05637
M.I. 094E 046-CLAW

**** Fred ****

MINING DIV: *** ASSESSMENT REPORT 15616 INFO CLASS 4
LOCATION: LAT. 57 39 00 LONG. 127 28 00 NTS:
CLAIMS: Fred 1
OPERATOR: Prolific Petr.
AUTHOR: Aussant, C.
COMMODITIES: Copper,Lead
DESCRIPTION: The property is underlain by Upper Triassic Takla Group volcanic rocks comprised of dark green augite porphyry basalt and breccias, and sediments of the Upper Cretaceous Tango Creek Formation, Sustut Group. A chalcopyrite, galena, pyrite occurrence is located in the centre of the claim.
WORK DONE: SILT 19;Au,Ag
REFERENCES: A.R. 04643
M.I. 094E 043-FRED

**** Gacho,Suet ****

MINING DIV: Liard ASSESSMENT REPORT 15995 INFO CLASS 3
LOCATION: LAT. 57 35 00 LONG. 127 24 18 NTS:
CLAIMS: Gacho,Suet
OPERATOR: Toodoggone Gold
AUTHOR: Cukor, V.; Pezzot, E.
DESCRIPTION: The majority of the claims are covered by glacial till. Upper Triassic Takla Group augite porphyry basalt flows are mapped along the northern claim border and Adoogatcho Creek Formation ash flows (a subdivision of the Middle Jurassic Toodoggone volcanics) in the southeast corner of the Suet claim. Takla Group rocks are in thrust fault contact with the younger formation.
WORK DONE: MAGA 178.0 km
EMAB 178.0 km;VLF

REFERENCES: A.R. 15069

**** Wolf ****

MINING DIV: *** ASSESSMENT REPORT 16054 INFO CLASS 3
LOCATION: LAT. 57 31 12 LONG 127 21 24 NTS:
CLAIMS: Wolf I
OPERATOR: Beachview Res.
AUTHOR: Cukor, V.; Pezzot, E.
DESCRIPTION: The Toodoggone River area is set in the Intermontane Belt and the main geologic units comprise a volcano-sedimentary complex and numerous intrusive bodies. Northwest faults form the most prominent structural element and have a major role in the emplacement of mineralization. Four main precious and base metal deposit types have been identified in the general area: porphyry, skarn, stratabound and epithermal.
WORK DONE: MAGA 114.0 km
EMAB 114.0 km;VLF
REFERENCES: A.R. 14476

**** Adoog ****

MINING DIV: Liard ASSESSMENT REPORT 15618 INFO CLASS 4
LOCATION: LAT. 57 34 00 LONG. 127 32 00 NTS:
CLAIMS: Adoog 8-9
OPERATOR: Delaware Res.
AUTHOR: Aussant, C.
DESCRIPTION: The property is underlain by Lower to Middle Jurassic Toodoggone volcanics, of the Adoogatcho Creek Formation comprised of numerous ash flow sheets and intercalated crystal-lithic tuffs, and the Moyez Creek volcanoclastics. No known workings or mineralized occurrences exist on the property. Silt samples contained only background values of silver and a random distribution of gold up to 50 ppb.
WORK DONE: SILT 68;Au,Ag
REFERENCES:

**** Adoog 7 ****

MINING DIV: *** ASSESSMENT REPORT 15619 INFO CLASS 4
LOCATION: LAT. 57 30 30 LONG. 127 33 00 NTS:
CLAIMS: Adoog 7
OPERATOR: Delaware Res.
AUTHOR: Aussant, C.
DESCRIPTION: The property is underlain by Lower to Middle Jurassic Toodoggone volcanics comprised of numerous ash flow sheets with intercalated crystal-lithic tuffs. No known workings, or mineralized occurrences exist on the property. One silt sample contained 100 ppb gold. Other silt samples contained elevated values of gold.
WORK DONE: SOIL 52;Au,Ag
REFERENCES:

**** Stik ****

MINING DIV: Liard ASSESSMENT REPORT 15617 INFO CLASS 4
LOCATION: LAT. 57 36 30 LONG. 127 35 00 NTS:

CLAIMS: Stik 5
OPERATOR: Prolific Petr.
AUTHOR: Aussant, C.
DESCRIPTION: The property is underlain by Lower to Middle Jurassic Toodoggone volcanics of the Adoogatcho Creek Formation comprised of numerous ash flow sheets with intercalated crystal-lithic tuffs, and sediments of the Upper Cretaceous Tango Creek Formation (Sustut Group). No known workings or mineralized occurrences exist on the property.
WORK DONE: SILT 37;Au,Ag
REFERENCES:

**** Stik ****

MINING DIV: *** ASSESSMENT REPORT 16087 INFO CLASS 3
LOCATION: LAT. 57 35 00 LONG. 127 32 30 NTS:
CLAIMS: Stik 2,Stik 4
OPERATOR: Delaware Res.
AUTHOR: Pezzot, E.
DESCRIPTION: The claims are underlain by Middle Jurassic Addoogatcho Creek Formation ash tuffs and lapilli tuffs.
WORK DONE: MAGA 110.0 km
REFERENCES: A.R. 14465

Trutch 094G

**** Cay ****

MINING DIV: Liard ASSESSMENT REPORT 16619 INFO CLASS 3
LOCATION: LAT. 57 43 25 LONG. 123 56 18 NTS:
CLAIMS: Cay 3,Cay 6
OPERATOR: Equinox Res.
AUTHOR: Leighton, D.G.
DESCRIPTION: The property covers lead-zinc-gallium-germanium showings with barite at the contact of Devonian Dunedin limestone with Besa River shale and Stone Formation limestone-dolomite. Sulphides occur on both limbs of a tightly folded south-plunging anticline.
WORK DONE: SOIL 117;Cu,Pb,Zn,Ba
REFERENCES: A.R. 04201

Kechika 094L

**** Frog ****

MINING DIV: *** ASSESSMENT REPORT 16670 INFO CLASS 4
LOCATION: LAT. 58 01 20 LONG. 127 09 30 NTS:
CLAIMS: Frog 1
OPERATOR: McMillan, A.
AUTHOR: McMillan, A.
COMMODITIES: Copper,Silver,Gold
DESCRIPTION: The claim is underlain by Cretaceous biotite quartz monzonite-granodiorite. Quartz veins 10 to 50 centimetres wide, strike slightly northeast dipping southwest. Mineralization consists of bornite, magnetite and minor chalcopyrite.

WORK DONE: SAMP 6;Cu,Ag,Au
PROS 1:5000
REFERENCES: M.I. 094L 014-FROG

**** Rar ****

MINING DIV: Liard ASSESSMENT REPORT 15220 INFO CLASS 3
LOCATION: LAT. 58 40 36 LONG. 127 25 30 NTS:
CLAIMS: Rar 1-5
OPERATOR: Golden Rule Res.
AUTHOR: Fox, M.
COMMODITIES: Fluorite
DESCRIPTION: The claims are underlain by Precambrian schists and Cambrian to Mississippian platformal sediments which are intruded by a brecciated mafic alkalic dyke and diatreme breccia close to a strong thrust fault. Rare earth bearing stockwork veins, stringers and open space fillings contain fluorite, carbonate, biotite, and epidote.
WORK DONE: GEOL 1:10000
REFERENCES: A.R. 15220
M.I. 094L 009-RAR

**** Rar,Dall Lake ****

MINING DIV: *** ASSESSMENT REPORT 16420 INFO CLASS 3
LOCATION: LAT. 58 42 48 LONG. 127 30 30 NTS:
CLAIMS: Rar 1-9,Ree 1-8,Reo 1-2
OPERATOR: Golden Rule Res.
AUTHOR: Fox, M.
COMMODITIES: Fluorite,Rhenium
DESCRIPTION: A ten kilometre long trend of rare earth mineralization is associated with carbonatized syenites and related diatreme breccias and carbonatites.
WORK DONE: ROCK 125;XRF
SILT 122;XRF
GEOL 1:10 000,1:2500
PETR 22 thin sections
REFERENCES: M.I. 094L 008;094L 009-RAR;094L 015-DALL LAKE

Lardeo Sound 103A

**** Hebrew,Neekas ****

MINING DIV: Skeena ASSESSMENT REPORT 16148 INFO CLASS 3
LOCATION: LAT. 52 28 36 LONG. 128 10 00 NTS:
CLAIMS: Neekas
OPERATOR: Lac Min.
AUTHOR: Turna, R.
COMMODITIES: Gold,Silver,Zinc,Copper
DESCRIPTION: A foliated diorite contains roof pendants of andesite and marble. The pendants strike northwest from the head of Neekas Cove toward the head of Salmon Bay. Two mineralized zones dip vertically, strike northwest and are approximately 2 metres wide with a several centimetres wide zone of massive sulphides. Minerals found are sphalerite, pyrite, chalcopyrite, pyrrhotite and galena.

WORK DONE: LINE 7.5 km
SOIL 111;multielement
ROCK 8;multielement
SILT 10;multielement
REFERENCES: M.I. 103A 003-HEBREW;103A 003-NEEKAS

**** Laredo Limestone ****

MINING DIV: *** ASSESSMENT REPORT 16188 INFO CLASS 4
LOCATION: LAT. 52 41 12 LONG. 129 03 18 NTS:
CLAIMS: Lorina
OPERATOR: Beale, S.
AUTHOR:
COMMODITIES: Limestone,Marble
DESCRIPTION: The claim is underlain by limestone, diorite and gneiss.
WORK DONE: ROCK 49;multielement
LINE 10.0 km
PROS 1:4000
REFERENCES: M.I. 103A 001-LAREDO LIMESTONE

Moresby Island 103B

**** Archie,Lucky Seven ****

MINING DIV: Skeena ASSESSMENT REPORT 16225 INFO CLASS 4
LOCATION: LAT. 52 18 24 LONG. 131 09 36 NTS:
CLAIMS: Archie 1-4
OPERATOR: Richards, G.
AUTHOR: Richards, G.
COMMODITIES: Iron,Copper,Silver,Gold
DESCRIPTION: Upper Triassic Karmutsen Formation greenstones overlain by limestones and argillites are intruded by basaltic to rhyolitic dykes and sills. Mineralized shears and skarns host gold, silver, copper and iron mineralization.
WORK DONE: SOIL 87;Cu,Ni,Au,Pd,Pt
ROCK 32;Au,Pd,Pt,Cu,Ni
SILT 1;Cu,Ni,Au,Pt,Pd
REFERENCES: A.R. 08197,08714,10198
M.I. 103B 011-ARCHIE;103B 024-LUCKY SEVEN

**** Colinear Creek,Crescent ****

MINING DIV: *** ASSESSMENT REPORT 15437 INFO CLASS 3
LOCATION: LAT. 52 45 00 LONG. 131 53 18 NTS:
CLAIMS: Crescent 1,Crescent 5
OPERATOR: Goldenlode Res.
AUTHOR: Howell, W.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Upper Triassic Karmutsen Formation basalts and Triassic-Jurassic Kunga Formation flysch-like sediments. These rocks have been intruded by gabbroic diorite of the Masset Formation.
Gold mineralization occurs in narrow quartz veins. Drill results did not intersect any significant mineralization.

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WORK DONE:    TREN  68.0 m;1 trench
              LINE  5.1 km
              SILT  2;Au,Ag
              SOIL  196;Au,Ag
              SAMP  100;Au,Ag
              GEOL  1:5000
              DIAD  473.0 m;5 holes,BQ
              ROCK  61;Au,Ag
REFERENCES: A.R. 08092,08252,09102,14503
            M.I. 103B  062-CRESCENT;103B  068-COLINEAR CREEK
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**** Lime ****

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MINING DIV:     Skeena              ASSESSMENT REPORT 16566     INFO CLASS 4
LOCATION:      LAT.  53 02 48  LONG.  132 01 36     NTS:
CLAIMS:         Lime
OPERATOR:       City Res. Can.
AUTHOR:         Tolbert, R.
DESCRIPTION:        Massive Kunga Formation limestones overlie Upper Triassic
               Karmutsen Formation basaltic flows, pillow lavas, breccias and
               tuffs.
WORK DONE:      SAMP  35;multielement
                GEOL  1:1000
                DIAD  77.4 m;3 holes,BQ
REFERENCES:
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**** Q ****

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MINING DIV:     ***                 ASSESSMENT REPORT 16069     INFO CLASS 4
LOCATION:      LAT.  53 08 48  LONG.  132 02 12     NTS:
CLAIMS:         Q 1-2,Susie 1-2
OPERATOR:       Newmont Ex. of Can.
AUTHOR:         Visagie, D.
DESCRIPTION:        The northwest portion of the claims are underlain by Cretaceous
               Honna Formation rocks consisting mainly of conglomerates and
               siltstone.  Elsewhere the property is underlain by Cretaceous Haida
               Formation rocks consisting primarily of conglomerate and shales.
               The units are flat lying and have clay alteration developed in
               fault zones.
WORK DONE:      SILT  5;multielement
                SOIL  43;multielement
                ROCK  18;multielement
REFERENCES:
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**** Security-Overproof,Security-B Zone ****

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MINING DIV:     Skeena              ASSESSMENT REPORT 16449     INFO CLASS 3
LOCATION:      LAT.  53 01 54  LONG.  132 15 48     NTS:
CLAIMS:         OP 1-5,Overproof
OPERATOR:       Englefield Res.
AUTHOR:         Bennett, D.; Christie, J.
COMMODITIES:    Gold
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DESCRIPTION:        The southeastern half of the property is underlain mainly by
               Upper Triassic Karmutsen Formation basalts with interbedded limy
               argillites and argillaceous limestone.  The northwestern half is
               underlain by rhyolite flows and fragmentals and gabbroic intrusives
               of the Tertiary Masset Formation and Jurassic Kunga Formation
               limestones with minor andesitic Jurassic Yakoun Formation sediments.
               Extensive gold-bearing, quartz-carbonate hydrothermal systems cross
               cut the claims along north trending regional structures.
WORK DONE:      SOIL  289;Au
                LINE  40.0 km
                ROCK  154;Au
                GEOL  1:2000,1:1000
REFERENCES: M.I. 103F  029-SECURITY-OVERPROOF;103F  033-SECURITY-B ZONE
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**** Brendar(Cone Head) ****

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MINING DIV:     ***                 ASSESSMENT REPORT 16317     INFO CLASS 3
LOCATION:      LAT.  53 20 30  LONG.  132 40 00     NTS:
CLAIMS:         Brendar 1
OPERATOR:       Newmont Ex. of Can.
AUTHOR:         Bohme, D.
COMMODITIES:    Gold,Copper,Molybdenum
DESCRIPTION:        The property is underlain by a quartz-monzonite porphyry stock
               of Tertiary age which intrudes a hornblende-diorite batholith of
               Jurassic age.  Structurally controlled quartz-sericite-tourmaline
               veinlets contain weak concentrations of arsenopyrite, pyrite,
               chalcopyrite, and gold. Phyllic alteration is generally widespread
               within the stock but gold values are very erratic.
WORK DONE:      TOPO  1:2500
                ROCK  237;multielement
                SILT  10;multielement
                GEOL  1:2500
REFERENCES: A.R. 09015,10280
            M.I. 103F  032-BRENDAR (CONE HEAD)
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**** Bat ****

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MINING DIV:     Skeena              ASSESSMENT REPORT 16599     INFO CLASS 3
LOCATION:      LAT.  53 27 16  LONG.  132 05 12     NTS:
CLAIMS:         Bat 1-2
OPERATOR:       Umex
AUTHOR:         Felder, F.
DESCRIPTION:        The area is thought to be underlain by Skonun Formation
               sediments as shown by the distribution of this unit in outcrops and
               oil exploration wells.  The Sandspit Fault cuts through the property
               and is marked by a distinct break in slope and shift in drainage
               pattern.  Both the Skonun Formation and Sandspit Fault are important
               controls of mineralization at the Cinola gold deposit, ten
               kilometres to the northwest.
WORK DONE:      IPOL  12.3 km
                LINE  12.3 km
REFERENCES: A.R. 10998
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**** Marco,Lac ****

MINING DIV: *** ASSESSMENT REPORT 16562 INFO CLASS 4
LOCATION: LAT. 53 30 24 LONG. 132 07 36 NTS:
CLAIMS: Lac,Marco
OPERATOR: Noramex Min.
AUTHOR: Fairbank, B.
DESCRIPTION: The claims are believed to be underlain by Haida and Skonun Formation sediments. A pronounced fault scarp in the bedrock subcrop crosses the southwest corner of the property.
WORK DONE: HMIN 5;multielement
SILT 12;multielement
REFERENCES:

**** Nov ****

MINING DIV: Skeena ASSESSMENT REPORT 16514 INFO CLASS 3
LOCATION: LAT. 53 29 30 LONG. 132 14 00 NTS:
CLAIMS: Nov
OPERATOR: Noramex Min.
AUTHOR: Robinson, R.
DESCRIPTION: The claim is underlain by Jurassic Yakoun Formation volcanics and Cretaceous Haida Formation sediments.
WORK DONE: SOIL 100;As,Au
REFERENCES:

**** Rockhound,Prospector ****

MINING DIV: *** ASSESSMENT REPORT 16454 INFO CLASS 3
LOCATION: LAT. 53 29 00 LONG. 132 21 36 NTS:
CLAIMS: M 1-4,M 6
OPERATOR: Barron Int. Res.
AUTHOR: Bennett, D.; Christie, J.
COMMODITIES: Gold
DESCRIPTION: The Marie property is underlain by Masset Formation felsic to intermediate volcaniclastic rocks which unconformably overly thinly bedded siltstones and shales of the Haida Formation. In the southern part of the property a diorite stock cuts the sediments with associated andesite dykes occurring throughout the claim block. A large zone of strong silicification and pyritization occurs northwest of Sheila Lake and has anomalous gold and arsenic values.
WORK DONE: GEOL 1:1000
SOIL 376;multielement
ROCK 89;Au
LINE 25.0 km
REFERENCES: M.I. 103F 010-ROCKHOUND;103F 011-PROSPECTOR

**** Sheila ****

MINING DIV: Skeena ASSESSMENT REPORT 16555 INFO CLASS 4
LOCATION: LAT. 53 28 30 LONG. 132 20 18 NTS:
CLAIMS: Sheila 1-2
OPERATOR: Umex

AUTHOR: Felder, F.
DESCRIPTION: The major part of the claim area is underlain by diorite with feldspar porphyry margins, probably correlative with Cretaceous-Tertiary age intrusives. Thin-bedded calcareous argillites of the Triassic-Cretaceous Kunga Formation are hornfelsed and bleached at the margins of the intrusive and within pendants in the intrusive.
WORK DONE: IPOL 3.9 km
LINE 6.2 km
REFERENCES: A.R. 07265,08676,09763

**** Bre ****

MINING DIV: *** ASSESSMENT REPORT 15647 INFO CLASS 4
LOCATION: LAT. 53 32 30 LONG. 132 13 00 NTS:
CLAIMS: Bre 33-35,Bre 43-44,Bre 48,Bre 50
OPERATOR: Mutual Res.
AUTHOR: Quartermain, R.
DESCRIPTION: The Bre property is underlain by felsic volcanics and sediments including tuff and quartz eye rhyolite. The volcanics are sheared and kaolinized. Much of the property is overlain by thick fluvial and glacial deposits. Mineralization discovered to date consists of disseminated pyrite.
WORK DONE: SOIL 14;multielement
GEOL 1:5000
ROCK 18;multielement
REFERENCES:

**** Cinola ****

MINING DIV: Skeena ASSESSMENT REPORT 15934 INFO CLASS 3
LOCATION: LAT. 53 32 06 LONG. 132 13 36 NTS:
CLAIMS: Babe 14,Babe 26,Babe 28
OPERATOR: City Res. Can.
AUTHOR: Sanders, K.
COMMODITIES: Gold,Silver,Mercury
DESCRIPTION: Drillholes 87-14 and 87-15 intersected grey-black mudstone to argillite of the Cretaceous Haida Formation, and rhyolitic dykes and sills of probable Tertiary age. Drillhole 87-17 intersected coarse to fine-grained clastic sediments of the Tertiary Skonun Formation, which show weak propilic alteration. No significant gold values were obtained.
WORK DONE: SAMP 128;Au
DIAD 303.5 m;3 holes,NQ
REFERENCES: A.R. 02890,03517,05284,05417,06754,07208,08569,08730,11167,14593
M.I. 103F 034-CINOLA

**** Boris ****

MINING DIV: *** ASSESSMENT REPORT 15841 INFO CLASS 4
LOCATION: LAT. 53 36 18 LONG. 132 20 48 NTS:
CLAIMS: Boris 1
OPERATOR: Newmont Ex. of Can.
AUTHOR: Visagie, D.
DESCRIPTION: The claim is underlain by a dark brown rhyolite flow thought to be part of the middle member of the Lower Tertiary Masset Formation.

WORK DONE: ROCK 2:multielement
SOIL 16:multielement
REFERENCES:

**** Expot ****

MINING DIV: Skeena ASSESSMENT REPORT 16621 INFO CLASS 3
LOCATION: LAT. 53 32 16 LONG. 132 16 21 NTS:
CLAIMS: Expot
OPERATOR: City Res. Can.
AUTHOR: Tolbert, R.
DESCRIPTION: The claims are underlain by the Masset Formation of Paleocene-Eocene(?) age. The formation consists of a thick succession of volcanic flows, pyroclastics and some reworked volcanics. A number of narrow shears with weak alteration and pyrite were encountered in the drilling. No significant gold values were found.
WORK DONE: DIAD 296.4 m;5 holes,NQ
SAMP 73;Au
REFERENCES:

**** Jet ****

MINING DIV: *** ASSESSMENT REPORT 16563 INFO CLASS 3
LOCATION: LAT. 53 34 00 LONG. 132 19 12 NTS:
CLAIMS: Jet,Sheila,Wanda,Wonder
OPERATOR: Noramex Min.
AUTHOR: Robinson, R.
DESCRIPTION: The claims are underlain by Tertiary Masset Formation basalts and breccias.
WORK DONE: SOIL 176;As,Au
REFERENCES:

**** Bella,Marino ****

MINING DIV: Skeena ASSESSMENT REPORT 16127 INFO CLASS 3
LOCATION: LAT. 53 04 36 LONG. 131 42 12 NTS:
CLAIMS: More,More 2-3,More 5
OPERATOR: Cominco
AUTHOR: Jackisch, I.
COMMODITIES: Antimony,Gold
DESCRIPTION: The More property area is underlain by Middle Jurassic Yakoun Formation basaltic-andesitic flows and breccias with minor shale and grit. Local rhyolite flow and pyroclastic rocks are reported on the property. Rock attitudes are unknown but postulated to strike 030 degrees to 050 degrees dipping 80 degrees to 35 degrees east.
WORK DONE: MAGG 4.5 km
LINE 34.6 km
IPOL 27.4 km
EMGR 5.7 km;VLF
REFERENCES: M.I. 103G 008-MARINO;103G 028-BELLA

**** Revenge ****

MINING DIV: *** ASSESSMENT REPORT 16081 INFO CLASS 4
LOCATION: LAT. 53 11 48 LONG. 131 54 00 NTS:
CLAIMS: Revenge 1
OPERATOR: Newmont Ex. of Can.
AUTHOR: Visagie, D.
DESCRIPTION: The claim is underlain by both Cretaceous Haida and Honna Formations of which the Honna Formation is predominant. The Haida Formation is composed of sandstones and shales while the Honna Formation is composed of flat-lying poorly sorted conglomerates.
WORK DONE: ROCK 2:multielement
SOIL 8:multielement
PROS 1:10 000
REFERENCES:

**** Roxy ****

MINING DIV: Skeena ASSESSMENT REPORT 16076 INFO CLASS 4
LOCATION: LAT. 53 08 12 LONG. 131 52 48 NTS:
CLAIMS: Roxy 1
OPERATOR: Newmont Ex. of Can.
AUTHOR: Visagie, D.
DESCRIPTION: The claim is underlain by Cretaceous Haida and Honna Formation rocks. The Honna Formation is composed primarily of conglomerates and arkosic sandstone with minor shales or siltstone. The Haida Formation consists primarily of flat-lying porphyrytic andesite agglomerate and flows that are in part pyritiferous.
WORK DONE: ROCK 7:multielement
PROS 1:10 000
REFERENCES:

**** Norma ****

MINING DIV: *** ASSESSMENT REPORT 15629 INFO CLASS 3
LOCATION: LAT. 53 21 00 LONG. 130 09 00 NTS:
CLAIMS: Norma 1-2,Norma 5,Norma 7
OPERATOR: TRM Eng.
AUTHOR: Shearer, J.
DESCRIPTION: The claims are underlain in the west by complexly deformed and metamorphosed banded grey marble and siltstone which are intruded by irregular bodies of granodiorite. No significant mineralization was found by the present program.
WORK DONE: ROCK 14;Au
SOIL 255;Au
GEOL 1:10 000
REFERENCES: A.R. 00670,05395

**** Ryan ****

MINING DIV: Skeena ASSESSMENT REPORT 15816 INFO CLASS 4
LOCATION: LAT. 53 24 00 LONG. 130 12 00 NTS:
CLAIMS: Ryan 1-2

OPERATOR: TRM Eng.
AUTHOR: Shearer, J.
DESCRIPTION: The claims are underlain by a central discontinuous belt of large blocks of metamorphosed marble and siltstone surrounded on the northeast by quartz monzonite and by hornblende quartz diorite on the southeast. Major lithological contacts are often defined by major northwest trending faults. Gold mineralization was found in float specimens of altered monzonite which assayed up to 7.5 grams of gold per tonne.
WORK DONE: SOIL 33;Au
GEOL 1:10 000
ROCK 8;Au
REFERENCES:

**** Skarn ****

MINING DIV: *** ASSESSMENT REPORT 16100 INFO CLASS 3
LOCATION: LAT. 53 26 54 LONG. 130 00 00 NTS:
CLAIMS: Skarn
OPERATOR: TVW Eng.
AUTHOR: Vulimiri, M.
COMMODITIES: Iron,Titanium,Vanadium
DESCRIPTION: The claim is underlain primarily by a titaniferous magnetite bearing gabbroic complex. The mafic-ultramafic body is in fault contact with metasedimentary and foliated granitic rocks.
A strong magnetic anomaly, which coincides with a banded pyroxenite unit within the complex, was outlined during the current survey. Assays of drill core indicate that this unit contains significant values of vanadium, titanium and iron and above background values in gold, platinum and palladium.
WORK DONE: SAMP 141;multielement
DIAD 155.2 m;1 hole,BQ
MAGG 6.8 km
GEOL 1:2000
REFERENCES: A.R. 12346,13737
M.I. 103G 039-SKARN

**** Paul ****

MINING DIV: Skeena ASSESSMENT REPORT 15582 INFO CLASS 3
LOCATION: LAT. 53 31 18 LONG. 130 18 42 NTS:
CLAIMS: Paul 1-4
OPERATOR: Paladin Res.
AUTHOR: Logan, J.
DESCRIPTION: The claims are underlain by Upper Cretaceous granodiorite of the Coast Plutonic Complex. Calcareous metasedimentary pendants parallel to the northwest regional structural trend either host sparse skarn/ replacement mineralization or underly anomalous soil geochemistry.
WORK DONE: SPOT 9.8 km
EMGR 24.8 km;VLF
SILT 33;multielement
ROCK 54;multielement
SOIL 684;multielement
REFERENCES:

**** Western Copper ****

MINING DIV: *** ASSESSMENT REPORT 15886 INFO CLASS 4
LOCATION: LAT. 53 06 00 LONG. 128 21 00 NTS:
CLAIMS: Alice,Bell,Eburne,Emma Fr.,Eva,Isabel,Lila,Lion Fr.,Lulu,Mathers Fr. Opps,Rat,Rat Fr.,Rose,WC-1
OPERATOR: Noranda Ex.
AUTHOR: Maxwell, G.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: Property is underlain by phases of diorite, quartz diorite and monzonite, which are presumed to be part of the Coast Plutonic Complex. Numerous pegmatite dykes cut the plutonic rocks. Gold mineralization is localized in a quartz-pyrite chalcopyrite vein-shear zone system, striking northeast and dipping 35 degrees southeast.
WORK DONE: SILT 9;multielement
REFERENCES: M.I. 103H 033-WESTERN COPPER

**** Surf Inlet ****

MINING DIV: Skeena ASSESSMENT REPORT 16092 INFO CLASS 3
LOCATION: LAT. 53 05 24 LONG. 128 52 54 NTS:
CLAIMS: Bear 1-2,Lake Fr.,Surf One
OPERATOR: TRM Eng.
AUTHOR: Burton, K.; Gardiner, S.
COMMODITIES: Gold,Copper,Silver
DESCRIPTION: Gold mineralization is localized along an extensive, complex northerly trending shear zone which cuts gneiss and diorite. Gold occurs with pyrite in quartz-ankerite-sericite-sulphide veins within the zone. Significant amounts of gold are present in mine dumps and mill tailings on the property. The dumps consist of approximately 136,000 tonnes of material. A preliminary estimate of the volume of tailings at the mouth of Paradise Creek is 534,000 tonnes.
WORK DONE: LSUR 1:1000,1:240
PETR 2
META 4;ore sorting
LINE 29.0 km
REFERENCES: A.R. 05393,15369,15377
M.I. 103H 027-SURF INLET

**** Jimmy ****

MINING DIV: *** ASSESSMENT REPORT 15951 INFO CLASS 4
LOCATION: LAT. 53 18 00 LONG. 129 52 00 NTS:
CLAIMS: Jimmy 3
OPERATOR: New Global Res.
AUTHOR: Shearer, V.
COMMODITIES: Molybdenum
DESCRIPTION: The Jimmy claims are underlain by a structurally complex environment wherein gold-bearing skarn in metasedimentary bands enclosed by granitic rocks are possible. No mineralization of interest has been found to date. The soil sampling results are very low throughout the claim. Anomalous VLF electromagnetic response

appears to be related to graphitic horizons in marble and siltstone units.

WORK DONE: EMGR 5.0 km;VLF
SOIL 19;Au

REFERENCES: M.I. 103H 008-JIMMY

**** Pit ****

MINING DIV: Skeena ASSESSMENT REPORT 15674 INFO CLASS 3
LOCATION: LAT. 53 43 00 LONG. 129 52 00 NTS:
CLAIMS: Gren 1-8,Trinity 1-2
OPERATOR: BP Res. Can.
AUTHOR: Bradley, M.
COMMODITIES: Zinc,Copper,Lead,Silver,Gold
DESCRIPTION: Northwest trending metasedimentary and metavolcanic rocks of Paleozoic (?) age are enveloped by a foliated to gneissic granodiorite to quartz diorite, batholith. One, in part two, concordant massive sulphide schist bands, averaging 1 metre wide, are exposed on strike for 300 metres over a vertical range of 170 metres. The bands trend 145 degrees/80 degrees southwest between a hanging-wall quartzite and footwall quartz-muscovite or hornblende-biotite-quartz schist unit some 20-30 metres northeast of the batholith contact.

WORK DONE: PETR 16;samples
SOIL 264;multielement
GEOL 1:10 000,1:100
ROCK 82;multielement

REFERENCES: A.R. 10703
M.I. 103H 066-PIT

**** Red ****

MINING DIV: *** ASSESSMENT REPORT 15492 INFO CLASS 3
LOCATION: LAT. 53 55 00 LONG. 129 31 30 NTS:
CLAIMS: Red North,Red South
OPERATOR: Noranda Ex.
AUTHOR: Bradisn, L.; Maxwell, G.
DESCRIPTION: The claims are underlain by Upper Paleozoic gneisses of the Central Gneiss Complex. The rocks in the area represent a highly metamorphosed volcanic-sedimentary terrane favourable for hosting volcanogenic massive sulphide deposits. No economic mineralization was found within the claim group.

WORK DONE: LINE 7.7 km
GEOL 1:5000
MAGG 6.4 km
MAGA 119.0 km
EMGR 4.5 km;HLEM
EMAB 119.0 km;HLEM

REFERENCES:

**** South Grid East,Ecstall,Third Outcrop,East Pl

MINING DIV: Skeena ASSESSMENT REPORT 15488 INFO CLASS 2
LOCATION: LAT. 53 50 36 LONG. 129 31 00 NTS:
CLAIMS: Blue 1-4,Green 1,Red 1-6,Red 10,Red 13,Red 15,Mariposite 1-2
OPERATOR: Falconbridge

AUTHOR: Hassard, F.; Pattison, J.
COMMODITIES: Copper,Zinc,Lead,Silver,Gold,Iron,Sulphur
DESCRIPTION: The claims are underlain by metasediments and metavolcanics of the Ecstall Pendant, Central Gneiss Complex of possible early Paleozoic to early Mesozoic age. The metamorphic grade is greenschist to amphibolite.
Foliation and bedding strike northerly and dip steeply to the east.

WORK DONE: SOIL 838;Cu,Pb,Zn,Ag
TOPO 1:10 000,1:5000
SAMP 61;Cu,Zn,Pb,Ag,Au
EMAB 152.0 km;HLEM
DIAD 915.9 m;5 holes,BQ
MAGA 152.0 km
SILT 69;Cu,Pb,Zn,Ag
GEOL 1:5000
EMGR 35.0 km;HLEM,VLF
ROCK 244;multielement;whole rock
LINE 37.6 km
MAGG 35.0 km

REFERENCES: A.R. 15328
M.I. 103H 011ECSTALL;103H 012-THIRD OUTCROP;103H 050-EAST PLATEAU;103H 051-TRENCH;103H 052-MARIPOSITE;103H 053-WEST GRID;103H 054-THIRTEEN CREEK CIRQUE;103H 055-SOUTH GRID EAST

**** Steelhead,Bear,Packsack,Horsefly ****

MINING DIV: *** ASSESSMENT REPORT 15491 INFO CLASS 3
LOCATION: LAT. 53 55 00 LONG. 129 31 30 NTS:
CLAIMS: Ecstall 15-16,EX 2-3,EX 6,EX 10,EX 15-16,Tall 1-2,Tall 5
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.; Maxwell, G.
COMMODITIES: Copper,Zinc,Silver,Gold
DESCRIPTION: The claims are underlain by Upper Paleozoic gneisses of the Central Gneiss Complex. The rocks in the area represent a highly metamorphosed volcanic-sedimentary belt hosting numerous subeconomic massive sulphide deposits. Massive pyrite, sphalerite, chalcopyrite and galena occur in widths up to 10 metres in the Packsack deposit.

WORK DONE: EMGR 57.8 km;HLEM
LINE 125.2 km
MAGG 60.4 km
GEOL 1:5000

REFERENCES: A.R. 00214,00216,04509,05510,05607,15014
M.I. 103H 013-PACKSACK;103H 014-HORSEFLY;103H036-STEELHEAD;103H 056-BEAR

**** West Grid,Thirteen Creek Cirque ****

MINING DIV: Skeena ASSESSMENT REPORT 16600 INFO CLASS 3
LOCATION: LAT. 53 50 56 LONG. 129 31 35 NTS:
CLAIMS: Blue 1,Green 1,Red 2-4,Skinny Fr.
OPERATOR: Falconbridge
AUTHOR: Hendrickson, G.A.
COMMODITIES: Copper,Zinc,Silver,Gold

DESCRIPTION: The claims are underlain by metamorphic rocks of the Ecstall Pendant, Central Gneiss Complex of possible early Paleozoic to Early Mesozoic age. Metamorphic grade is greenschist to amphibolite. The property, which surrounds claims covering the Ecstall massive sulphide deposit, and is underlain by similarly favourable metavolcanic rocks. Foliation and bedding strike northerly; dips are steeply east.
WORK DONE: LINE 34.0 km
EMGR 34.0 km;HLEM,VLF
MAGG 34.0 km
REFERENCES: M.I. 103H 053-WEST GRID;103H 054-THIRTEEN CREEK CIRQUE

**** Drum Lummon ****

MINING DIV: *** ASSESSMENT REPORT 15885 INFO CLASS 4
LOCATION: LAT. 53 47 00 LONG. 129 02 00 NTS:
CLAIMS: Big Thing,Cuprite,Drum 2,Dumfires/Indes,Grey Copper,Ibis,Kitchener Mavis,Moniaive
OPERATOR: Noranda Ex.
AUTHOR: Maxwell, G.
COMMODITIES: Copper,Silver,Gold
DESCRIPTION: The property is underlain by a large quartz diorite-granodiorite batholith. The main showing consists of quartz vein and pegmatite with the quartz veins being mineralized with bornite and chalcocite. The copper mineralization carries significant gold values.
WORK DONE: ROCK 3;multielement
SILT 13;multielement
REFERENCES: M.I. 103H 018-DRUM LUMMON

**** Sil,Half Vast ****

MINING DIV: Skeena ASSESSMENT REPORT 16271 INFO CLASS 4
LOCATION: LAT. 54 04 42 LONG. 128 12 12 NTS:
CLAIMS: Sil
OPERATOR: Cons. Silver Standard Mines
AUTHOR: Quartermain, R.
COMMODITIES: Silica,Molybdenum
DESCRIPTION: A quartz monzonite stock of the Upper Cretaceous Coast Plutonic Complex intrudes quartz diorite. A quartz body occurs at the contact between these two units.
WORK DONE: LINE 2.5 km
PITS 12
META 12
MAGG 3.0 km
SAMP 12;multielement
REFERENCES: M.I. 103I 110-SIL;103I 110-HALF VAST

**** Barite,Gold ****

MINING DIV: *** ASSESSMENT REPORT 16664 INFO CLASS 2
LOCATION: LAT. 54 07 41 LONG. 128 43 27 NTS:
CLAIMS: Billy 1-10
OPERATOR: BP Res. Can.

AUTHOR: Pegg, R.
COMMODITIES: Barium,Gold,Silver,Lead,Zinc
DESCRIPTION: The claim area is underlain by intermediate volcanics of the Lower Jurassic Telkwa Formation bordered on the west and south by dioritic intrusives. The volcanics are cut by numerous dykes. Erratic gold values of up to 4 grams per tonne over 2 metres are found in a local, discontinuous, silicified section of tuff breccia. Pyrite and local minor barite concentrations were also observed within shear and/or contact metasomatic zones.
WORK DONE: GEOL 1:5000
IPOL 10.6 km
SOIL 156;multielement
SILT 13;multielement
ROCK 155;multielement
DIAD 210.0 m;4 holes,BQ
SAMP 49;Au
TOPO 1:5000
LINE 23.3 km
ROAD 0.5 km
REFERENCES: A.R. 15528
M.I. 103I 217-BARITE;103I 218-GOLD

**** Jeanette,Bowbyes,Barite,Gold ****

MINING DIV: Skeena ASSESSMENT REPORT 15528 INFO CLASS 3
LOCATION: LAT. 54 07 36 LONG. 128 43 12 NTS:
CLAIMS: Billy 1-11
OPERATOR: Laramide Res.
AUTHOR: Belik, G.
COMMODITIES: Copper,Iron,Silver,Gold,Lead,Barium
DESCRIPTION: Basaltic to rhyolitic flows and tuffs of probable Triassic age host stratabound zones of copper-lead-zinc-gold-silver-barite mineralization. Most of the showings occur within a coarse pyroclastic belt approximately 8 kilometres long and at least 1.5 kilometres wide.
WORK DONE: HMIN 60;Cu,Pb,Zn,Ba,Au,Ag
ROCK 34;Cu,Pb,Zn,Ba,Au,Ag
GEOL 1:20 000
REFERENCES: M.I. 103I 104-BOWBYES;103I 169-JEANETTE;103I 217-BARITE; 103I 218-GOLD

**** Bill ****

MINING DIV: Omineca ASSESSMENT REPORT 15859 INFO CLASS 4
LOCATION: LAT. 54 25 24 LONG. 128 08 12 NTS:
CLAIMS: Bill 1-2
OPERATOR: Makowichuk, W.
AUTHOR: Kerr, J.
COMMODITIES: Copper,Silver
DESCRIPTION: The claims are underlain by interbedded felsic-intermediate volcanic tuffs, breccias and flows of the Lower Jurassic Hazelton Group. North trending fault and breccia zones contain chalcopyrite, pyrite, bornite, tetrahedrite and malachite mineralization. Core samples contain anomalous values of base metals, but no appreciable amounts of silver or gold.

WORK DONE: DIAD 22.9 m;3 holes,AX
SAMP 11;multielement
REFERENCES: A.R. 10541,12728
M.I. 103I 214-BILL

**** Silver Crown,Silver Basin,Coffe Pot ****

MINING DIV: *** ASSESSMENT REPORT 15985 INFO CLASS 3
LOCATION: LAT. 54 36 18 LONG. 128 09 18 NTS:
CLAIMS: Basin 1-5
OPERATOR: Great World Res.
AUTHOR: Hermary, R.G.; White, G.E.
COMMODITIES: Silver,Copper,Gold,Lead
DESCRIPTION: Tertiary granodiorite and granite overlie Upper Triassic - Lower Jurassic basalt to rhyolite breccias, tuffs and flows.
WORK DONE: MAGA 205.0 km
EMAB 205.0 km;VLF
REFERENCES: M.I. 103I 064-SILVER CROWN;103I 065-SILVER BASIN;103I 191-COFFEE POT

**** Burn,Portland ****

MINING DIV: Skeena ASSESSMENT REPORT 16026 INFO CLASS 3
LOCATION: LAT. 54 45 00 LONG. 128 48 24 NTS:
CLAIMS: Bav 1-4,Bav 8-9,Burn 2-3
OPERATOR: Terracamp Dev.
AUTHOR: Chapman, J.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: An Upper Cretaceous granodiorite stock, with quartz veining containing pyrite, tetrahedrite, chalcopyrite, galena and visible gold intrudes Lower Cretaceous Bowser Lake Group sediments.
WORK DONE: ROAD 30.0 km
DIAD 392.6 m;3 holes,NQ
SAMP 205;Au,Ag
REFERENCES: A.R. 08299,13303
M.I. 103I 019-PORTLAND;103I 211-BURN

**** Misty ****

MINING DIV: *** ASSESSMENT REPORT 15455 INFO CLASS 3
LOCATION: LAT. 54 44 42 LONG. 128 53 18 NTS:
CLAIMS: Misty 1-2
OPERATOR: Mascot Gold Mines
AUTHOR: McNaughton, K.
COMMODITIES: Gold,Silver
DESCRIPTION: Diorites of the Upper Cretaceous Coast Crystalline Complex intrude the sedimentary and volcanic sequence of the Lower Cretaceous Bowser Lake Group.
Gold as small flakes and nuggets occur in quartz veins with pyrite, arsenopyrite, galena and tetrahedrite.
WORK DONE: LINE 13.0 km
SILT 3;multielement
SOIL 336;multielement
EMGR 8.7 km;VLF
MAGG 7.8 km

REFERENCES: A.R. 08201,09239,10128,10827
M.I. 103I 213-MISTY

**** Misty ****

MINING DIV: Skeena ASSESSMENT REPORT 16302 INFO CLASS 2
LOCATION: LAT. 54 45 00 LONG. 128 54 18 NTS:
CLAIMS: Misty,Misty 1,Misty 4
OPERATOR: Mascot Gold Mines
AUTHOR: Tindall, M.
COMMODITIES: Gold,Silver
DESCRIPTION: Cretaceous diorites, quartz diorites and granodiorites are in contact with interbedded, Upper Jurassic metasedimentary and metavolcanic rocks. Gold and silver are associated with structurally controlled quartz veins.
WORK DONE: SOIL 1253;multielement
ROCK 85;multielement
LINE 37.2 km
REFERENCES: A.R. 09239,10128,10827,15455
M.I. 103I 213-MISTY

**** Quartz Silver ****

MINING DIV: *** ASSESSMENT REPORT 16411 INFO CLASS 3
LOCATION: LAT. 54 43 00 LONG. 128 53 00 NTS:
CLAIMS: Gap 1,MO 1,QS 2,QS 6,Quartz Silver 7
OPERATOR: Mt. Allard Res.
AUTHOR: Chapman, J.
COMMODITIES: Silver,Lead,Zinc,Copper,Gold
DESCRIPTION: Tertiary felsic dykes intrude Lower Cretaceous sediments of the Bowser Lake Group. Gold-silver bearing quartz-sulphide veins occur.
WORK DONE: GEOL 1:5000
MAGG 24.3 km
EMGR 24.3 km;VLF
SOIL 828;Au,Ag,Cu,Pb,Zn,As
SILT 94;Au,Ag,Cu,Pb,Zn,As
ROCK 118;Au,Ag,Cu,Pb,Zn,As
LINE 24.3 km
ROAD 12.5 km
TREN 75.0 m;8 trenches
REFERENCES: A.R. 13455
M.I. 103I 018-QUARTZ SILVER

**** Kalum ****

MINING DIV: Skeena ASSESSMENT REPORT 16158 INFO CLASS 3
LOCATION: LAT. 54 47 54 LONG. 128 45 30 NTS:
CLAIMS: Kalum 1,Ken 1-2
OPERATOR: Cannon Ex.
AUTHOR: Awmack, A.; Howell, W.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: The geology of the Kalum claim consists of a package of sedimentary and tuffaceous rocks with interbedded flows of the Lower Cretaceous Bowser Lake Group. Bedding generally strikes northeasterly to easterly and dips to the north. The rocks have been

moderately to strongly deformed and metamorphosed. Small scale tight folding and local recumbent folds can be seen at most outcrops. Mafic and felsic dykes cut through both sedimentary and volcanic units. Gold and copper mineralization occurs along small quartz veins and narrow fractures within small shear zones and in structurally controlled zones of epidote-hematite alteration.
WORK DONE: DIAD 427.6 m;6 holes,BQ
SOIL 195;multielement
SAMP 43;Cu,Ag,Au
REFERENCES: A.R. 10450,11595,15285,15679
M.I. 103I 118-KALUM

**** Kalum ****

MINING DIV: *** ASSESSMENT REPORT 15679 INFO CLASS 3
LOCATION: LAT. 54 48 00 LONG. 128 45 36 NTS:
CLAIMS: Kalum 1,Ken 1 & 2
OPERATOR: Cannon Ex.
AUTHOR: Lambert, E.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: The claims are underlain by a package of Jurassic sedimentary and tuffaceous rocks with interbedded mafic flow rocks which strike northeasterly and dip northerly. The rocks are metamorphosed and moderately deformed with local shearing and faulting. Chlorite, epidote, plus or minus hematite, plus or minus magnetite occur locally as alteration in all rock types. Mineralization consisting of malachite, chalcopyrite, pyrite and bornite is present in small quartz veins as fracture fillings and along foliation planes.
WORK DONE: LINE 24.7 km
EMGR 45.5 km;VLF
ROCK 24;multielement
IPOL 22.1 km
GEOL 1:2000,1:500
MAGG 22.7 km
REFERENCES: A.R. 10450,11595,15285
M.I. 103I 118-KALUM

**** Brentford ****

MINING DIV: Omineca ASSESSMENT REPORT 16160 INFO CLASS 4
LOCATION: LAT. 54 49 12 LONG. 128 23 12 NTS:
CLAIMS: Saturn 2
OPERATOR: Leblond, L.
AUTHOR: Leblond, L.
COMMODITIES: Silver,Gold,Lead,Zinc,Copper
DESCRIPTION: The claim is underlain by hornfelsed Lower Jurassic Hazelton Group sediments including mineralized quartz veins.
WORK DONE: EMGR 3.2 km;VLF
REFERENCES: A.R. 12625,13956,14538,15031
M.I. 103I 188-BRENTFORD

**** Edye Pass Mine ****

MINING DIV: Skeena ASSESSMENT REPORT 15411 INFO CLASS 4
LOCATION: LAT. 54 01 48 LONG. 130 35 00 NTS:
CLAIMS: Kerry,Tippy,Toby 1-2
OPERATOR: Imperial Metals
AUTHOR: McElroy, R.; Vizsolyi, A.
COMMODITIES: Copper,Molybdenum
DESCRIPTION: The claims appear to be underlain by hornblende diorite where gold in pyrite is associated with quartz veins and shear zones. Results of direct cyanidation tests on fine ground ore indicate satisfactory (approximately 80 per cent) gold recovery.
WORK DONE: META Bulk Test;Heap Leach
REFERENCES: A.R. 05728,14602,15225
M.I. 103J 015-EDYE PASS MINE

**** Dun 9,Melville Zinc,Conductor Is.,Dun 10,Mine

MINING DIV: *** ASSESSMENT REPORT 16036 INFO CLASS 3
LOCATION: LAT. 54 26 00 LONG. 130 46 42 NTS:
CLAIMS: Kathleen 1-4
OPERATOR: St. Edwards Min.
AUTHOR: Duke, J.
COMMODITIES: Zinc,Lead,Copper,Silver
DESCRIPTION: The claims are underlain by Upper Paleozoic to Jurassic felsic and mafic volcanics and volcaniclastics and cherty clastic sediments of the Alexander terrane. They form a homoclinal sequence that trends northerly and dips moderately to the east. These rocks have been intruded by diorite and granodiorite. The cherty clastic sediments are the dominant host for zinc, copper, nickel, silver, lead, and other base metal mineralization.
WORK DONE: ROCK 318;multielement
REFERENCES: A.R. 12197,12777
M.I. 103J 005-MINERAL REEF;103J 006-KATHLEEN 3;103J 044-DUNIO; 103J 045-DUN 9;103J 046-CONDUCTOR IS.;103J 047-MELVILLE ZINC

**** BC Verde ****

MINING DIV: Skeena ASSESSMENT REPORT 15580 INFO CLASS 3
LOCATION: LAT. 55 50 36 LONG. 130 02 48 NTS:
CLAIMS: Big Mike,Chemar 1-5
OPERATOR: Alexa Ventures
AUTHOR: Di Spirito, F.; Pawliuk, D.
COMMODITIES: Gold,Silver,Copper
DESCRIPTION: Quartz veins locally containing gold, silver and sulphide minerals occur mainly along faults within diorite of the Upper Cretaceous Coast Plutonic Complex. The quartz vein explored by the main adit is up to 34 centimetres wide, exposed for 32 metres along easterly strike, and northerly dip.

The highest assay obtained was 53.3 grams per tonne gold across 40 centimetres.

WORK DONE: ROCK 84;multielement
LINE 15.6 km
MAGA 170.6 km
SILT 7;multielement
GEOL 1:10 000,1:5000
SOIL 47;multielement
EMGR 8.7 km;VLF
MAGG 6.9 km
EMAB 170.6 km;VLF

REFERENCES: M.I. 103O 012-BC VERDE

**** IM ****

MINING DIV: *** ASSESSMENT REPORT 16405 INFO CLASS 3
LOCATION: LAT. 55 45 30 LONG. 130 03 00 NTS:
CLAIMS: Bonus 5
OPERATOR: Lonetree Res.
AUTHOR: Kruchkowski, E.
COMMODITIES: Gold,Silver,Copper,Lead,Zinc
DESCRIPTION: The Unuk River andesitic epiclastic rocks are intruded by granodiorite of the Coast Range Batholith.
Quartz occurs with northeast trending shear zones. Veins up to two metres wide contain gold, silver, lead, zinc and copper. The minerals are galena, sphalerite, chalcopyrite, pyrite and pyrrhotite.

WORK DONE: LINE 2.9
SAMP 24;Au,Ag
GEOL 1:100
SILT 51;Au,Ag
SOIL 16;Au,Ag

REFERENCES: M.I. 103O 015-IM

**** Kit ****

MINING DIV: Skeena ASSESSMENT REPORT 15364 INFO CLASS 3
LOCATION: LAT. 55 45 24 LONG. 129 27 06 NTS:
CLAIMS: Sault 1,Sault 3-5,Sault 7-8
OPERATOR: Cominco
AUTHOR: Blackwell, J.
COMMODITIES: Silver
DESCRIPTION: The claims are underlain by an east striking, north dipping sequence of andesite to dacite pyroclastic tuff breccias, overlain by calcareous debris breccias, bedded pyritic tuff, barite-celestite beds, black limestone, rhyolite tuff and basalt. This sequence is unconformably overlain by Lower Cretaceous sediments of the Bowser Lake Group. Sphalerite-bearing sulphate-sulphide rock has been located at 5 points along a 6.5 km trend. Soil geochemistry identified anomalous multielement values.

WORK DONE: GEOL 1:5000,1:1000
ROCK 75;PB,ZN,AG,CU,BA

SOIL 342;MULTIELEMENT

REFERENCES: A.R. 1001,13650,15126,15364
M.I. 103P 245-KIT

**** Kit ****

MINING DIV: *** ASSESSMENT REPORT 15126 INFO CLASS 3
LOCATION: LAT. 55 45 24 LONG. 129 27 06 NTS:
CLAIMS: Sault 1,Sault 3-5
OPERATOR: Cominco
AUTHOR: Blackwell, J.
COMMODITIES: Silver
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group sediments and volcanics which are unconformably overlain by Lower Cretaceous Bowser Lake Group sediments. A calcareous tuff, limestone, barite sequence interbedded in andesite breccias host a lense of massive pyrite-sphalerite-galena mineralization. Several lead-zinc-arsenic soil anomalies were identified. Geophysical survey results failed to locate conductors in the vicinity of known showings.

WORK DONE: EMGR 3.5 KM;HLEM
GEOL 1:5200
MAGG 2.3 KM
ROCK 270;MULTIELEMENT
SILT 279;MULTIELEMENT
SOIL 227;PB,ZN,AS,MO

REFERENCES: A.R. 1001,13650,15126
M.I. 103P 245-KIT

**** Lucky Strike,Blue Ribbon ****

MINING DIV: Skeena ASSESSMENT REPORT 16034 INFO CLASS 4
LOCATION: LAT. 55 44 42 LONG. 129 35 00 NTS:
CLAIMS: Cambria 1-3
OPERATOR: Cambria Res.
AUTHOR: Coombes, S.
COMMODITIES: Gold,Lead,Zinc,Copper
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group sedimentary and volcanic rocks which dip steeply to the east. Mineralization consists of gold, silver, copper, zinc and lead in hydrothermal veins filling fractures and shear zones. The largest hydrothermal alteration halo is approximately 500 metres by 1000 metres.

WORK DONE: LINE 7.0 km
TREN 12.0 km;2 trenches
ROCK 81;Au,Ag
PETR 5;thin sections
GEOL 1:2500
TOPO 1:5000

REFERENCES: M.I. 103P 214-LUCKY STRIKE (MATILDA);103P 217-BLUE RIBBON

**** Susanne ****

MINING DIV: *** ASSESSMENT REPORT 15602 INFO CLASS 3
LOCATION: LAT. 55 40 54 LONG. 129 38 54 NTS:

CLAIMS: Susanne 3
OPERATOR: Can-United Min.
AUTHOR: Cremonese, D.
DESCRIPTION: The claims are underlain by siltstones and greywackes of the Jurassic Hazelton Group which are intruded by a swarm of feldspar porphyry dykes. Mineralization was not intersected in the drill holes.
WORK DONE: DIAD 229.5 m;3 holes,NQ
SAMP 15;multielement
REFERENCES:

**** Saddle ****

MINING DIV: Skeena ASSESSMENT REPORT 16299 INFO CLASS 3
LOCATION: LAT. 55 37 12 LONG. 129 50 42 NTS:
CLAIMS: Precious,Roof,Saddle,Saddle 1-6,Saddle Fr.,Shakti 1-3
OPERATOR: Windspear Res.
AUTHOR: Krohman, D.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: Mineralization occurs in fissure veins in a gangue of quartz and consists of sphalerite, galena, chalcopyrite, pyrite and several of their alteration products. The main lithologies include the Stewart Complex (altered, folded and massive aphanitic andesites) of Triassic age and intrusive granodiorite of eocene age which encompasses the roof pendant structure. The showing is approximately 60 metres long and up to 1 metre wide.
WORK DONE: GEOL 1:2500,1:500
EMGR 9.9 km
MAGA 145.0 km
EMAB 145.0 km;VLF
SOIL 342;multielement
ROCK 69;multielement
MNGR 1;polished section
LINE 12.3 km
TREN 300.0 m;5 trenches
REFERENCES: A.R. 11076,11527
M.I. 103P 012-SADDLE

**** Harner,High Grade,Prince George ****

MINING DIV: *** ASSESSMENT REPORT 16652 INFO CLASS 3
LOCATION: LAT. 55 49 19 LONG. 129 52 13 NTS:
CLAIMS: High Grade 1-2,Carrie,Black Bear No. 1,Panorama,Findhorn,Marmot Pass Marco
OPERATOR: Corning Res.
AUTHOR: Johnson, L.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: The claims are underlain by Lower Jurassic Unuk River Formation volcanics, Salmon River Formation argillites and siltstones and the Hyder granodiorite. Pyrite, chalcopyrite and arsenopyrite occur in the volcanics and sediments and a two foot wide quartz-carbonate vein as well.
WORK DONE: GEOL 1:7500
SOIL 22;Au,Ag,As,Cu,Pb,Zn,Sb
ROCK 276;Au,Ag,As,Cu,Pb,Zn,Sb

REFERENCES: M.I. 103P 105-HARNER;103P 106-HIGH GRADE;103P 107-PRINCE GEORGE

**** Lakeview ****

MINING DIV: Skeena ASSESSMENT REPORT 16526 INFO CLASS 4
LOCATION: LAT. 55 59 48 LONG. 129 53 54 NTS:
CLAIMS: Dunedin Fr.,Lakeview 2,Silver Bell Fr.
OPERATOR: Teck
AUTHOR: Folk, P.G.
COMMODITIES: Silver,Lead,Zinc,Gold
DESCRIPTION: Lower Cretaceous Bowser Lake Group sediments are intruded by Tertiary dykes. Mineralized quartz veins trending east-west and northwest carry values in silver, gold, lead and zinc.
WORK DONE: SOIL 42;Ag,Au,Pb,Zn
ROCK 11;Ag,Au,Pb,Zn
REFERENCES: A.R. 14657
M.I. 103P 059-LAKEVIEW

**** Mobile ****

MINING DIV: *** ASSESSMENT REPORT 16157 INFO CLASS 4
LOCATION: LAT. 55 57 42 LONG. 129 54 54 NTS:
CLAIMS: Mobile
OPERATOR: Fest Res.
AUTHOR: Groves, W.
COMMODITIES: Silver,Lead,Zinc,Gold
DESCRIPTION: Siltstone, sandstone and greywacke of the Salmon River Formation has been folded into a canoe-shaped trough overlying volcanics of the Lower Jurassic Unuk River Formation. Both units have been intruded by the Glacier Creek augite porphyry and by a satellite stock of quartz monzonite of the Tertiary Hyder Batholith. High-grade lenses of argentiferous mineralization occur in quartz-breccia sulphide veins cutting the siltstones, accompanied by lead-zinc values.
WORK DONE: META 1;bulk sample
REFERENCES: A.R. 01010
M.I. 103P 069-MOBILE

**** Red Reef ****

MINING DIV: Skeena ASSESSMENT REPORT 15813 INFO CLASS 4
LOCATION: LAT. 55 56 00 LONG. 129 56 00 NTS:
CLAIMS: Red Reef
OPERATOR: Teuton Res.
AUTHOR: Cremonese, D.
DESCRIPTION: Lower elevations feature a contact zone between tuffaceous Hazelton volcanics (aka Lower Jurassic Unuk River Formation) and the Hyder quartz monzonite/hornblende diorite intrusive. Silicified zones along the contact carry gold-copper mineralization, with occasional cross-cutting silver-lead-zinc veins. At higher elevations, in the vicinity of the Silverado Mine, shear zones in Hazelton volcanics host lenticular deposits of silver-lead-zinc mineralization.
WORK DONE: ROCK 65;multielement

REFERENCES: A.R. 10004

**** Sky Annex ****

MINING DIV: *** ASSESSMENT REPORT 15574 INFO CLASS 4
LOCATION: LAT. 55 55 36 LONG. 129 56 00 NTS:
CLAIMS: Reef 1,Sky Annex
OPERATOR: Teuton Res.
AUTHOR: Foerster, J.
DESCRIPTION: Shear zones and lenticular veins in volcanic tuffs of the Lower Unuk River Formation (Lower Jurassic) carry argentiferous lead-zinc mineralization.
WORK DONE: SAMP 31;multielement
PROS 1:5000
REFERENCES: A.R. 10004,15813

**** Nel ****

MINING DIV: Skeena ASSESSMENT REPORT 16126 INFO CLASS 4
LOCATION: LAT. 56 03 18 LONG. 129 31 00 NTS:
CLAIMS: Nel 1-2
OPERATOR: Noranda Ex.
AUTHOR: Baerg, R.
DESCRIPTION: The property covers the boundary between Lower Cretaceous Bowser Lake Group sediments to the east and lower Jurassic Hazelton Group volcanics to the west. Silt sampling on Nel 1 revealed a weak multielement anomaly.
WORK DONE: ROCK 6;multielement
SILT 4;multielement
PROS 1:5000
REFERENCES:

**** Independence Gold,Dalhousie/Rock of Ages,Palm

MINING DIV: *** ASSESSMENT REPORT 15581 INFO CLASS 3
LOCATION: LAT. 56 04 12 LONG. 129 56 06 NTS:
CLAIMS: Big Casino,Ice 1-4,Independence 1
OPERATOR: Moche Res.
AUTHOR: Di Spirito, F.; St. Pierre, M.
COMMODITIES: Gold,Silver,Lead,Zinc,Barium,Copper
DESCRIPTION: Gossanous zones in folded sedimentary rocks overlie extrusive rocks of Lower Jurassic Hazelton Group volcanics.
WORK DONE: GEOL 1:5000
REFERENCES: A.R. 00759,07841,08968,11546
M.I. 104A 038-INDEPENDENCE GOLD;104A 041-DALHOUSIE/ROCK OF AGES;104A 042-PALMEY

**** Palmey,Big Casino,Initial,Dalhousie,Rock of A

MINING DIV: Skeena ASSESSMENT REPORT 16082 INFO CLASS 3
LOCATION: LAT. 56 05 18 LONG. 129 54 48 NTS:
CLAIMS: Wentworth,Alonquin (L.1490),Ben Lomond (L.1487),Big Casino

Dundee (L.1491),End (L.1489),Ice 1-4,Independence 1,Mammoth (L.1488) O.K. (L.4928),Orient (L.4925),Rock of Ages 1-6 (L.4933-4938) Rock of Ages Fr. (L.4940),Talisman 1 (L.4931),Tecumseh,Tillamook
OPERATOR: Moche Res.
AUTHOR: Di Spirito, F.; St. Pierre, M.
COMMODITIES: Silver,Copper,Lead,Barium,Iron,Gold,Zinc
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group volcanic and sedimentary rocks. Gold and silver is associated with northerly trending silica-jasper-barite veins, and with northwesterly trending breccia/tuff contacts. Zones range from 0.5 to 5 metres in width.
WORK DONE: SILT 13;multielement
EMGR 7.5 km;VLF
EMAB 78.0 km;VLF
SOIL 157;multielement
MAGA 78.0 km
ROCK 126;multielement
GEOL 1:5000
LINE 10.0 km
MAGG 7.5 km
REFERENCES: A.R. 00759,07841,11546
M.I. 104A 034-BIG CASINO;104A 035-INITIAL;104A 041-DALHOUSIE/ROCK OF AGES;104A 042-PALMEY

**** Sunbeam,Dunwell ****

MINING DIV: *** ASSESSMENT REPORT 16622 INFO CLASS 3
LOCATION: LAT. 55 59 53 LONG. 129 54 30 NTS:
CLAIMS: L 4286,L 4289,L 4292-4295,L 871
OPERATOR: Silver Princess Res.
AUTHOR: Harris, C.
COMMODITIES: Silver,Lead,Zinc
DESCRIPTION: The claims are underlain by Lower Cretaceous Bowser Lake Group argillites and greywackes. Quartz veins occur in a major shear zone.
WORK DONE: SOIL 361;multielement
LINE 9.8 km
REFERENCES: M.I. 103P 052-DUNWELL;103P 053-SUNBEAM

**** Todd ****

MINING DIV: Skeena ASSESSMENT REPORT 15988 INFO CLASS 3
LOCATION: LAT. 56 13 30 LONG. 129 46 30 NTS:
CLAIMS: Toc 1-2,Toc 7-12
OPERATOR: Noranda Ex.
AUTHOR: Baerg, R.
COMMODITIES: Copper,Gold
DESCRIPTION: Copper-gold mineralization occurs in hematitic quartz-breccia veins within and proximal to bodies of siliceous feldspar porphyry which appear to intrude Lower Jurassic Unuk River Formation volcanics. The mineralized zones trend north and vary from 30 centimetres to 15 metres wide. Local alteration consists of quartz-sericite-pyrite +/- chlorite +/- carbonate. Gold values range up to 9.7 grams per tonne.
WORK DONE: GEOL 1:5000
SILT 38;multielement
ROCK 218;multielement

REFERENCES: A.R. 03428
M.I. 104A 001-TODD

**** Knip ****

MINING DIV: *** ASSESSMENT REPORT 16634 INFO CLASS 4
LOCATION: LAT. 56 24 16 LONG. 129 59 05 NTS:
CLAIMS: Knip
OPERATOR: Crystal Cove Res.
AUTHOR: Kruchkowski, E.; Konkin, K.
DESCRIPTION: CONFIDENTIAL STATUS

(Will be published in Exploration in British Columbia, 1988

**** Virginia K ****

MINING DIV: Skeena ASSESSMENT REPORT 15145 INFO CLASS 4
LOCATION: LAT. 56 14 54 LONG. 129 52 00 NTS:
CLAIMS: Am 1-5,Star 2 FR.,Star 3 FR.,Virginia 3 Fr.,Virginia K 1-3
Virginia K Ext 4,Virginia K Ext 5,Virginia K Ext 6
OPERATOR: Square Gold Res.
AUTHOR: Lisle, T.
COMMODITIES: Silver,Lead,Zinc,Copper,Gold
DESCRIPTION: Deformed argillite, limestone and tuff of the Hazelton Group, are intruded by green felsic dykes of granodiorite composition, that are locally bleached. Galena, pyrite, tetrahedrite and minor chalcopyrite occur associated with quartz and calcite in fractures, bedding fractures, shears and fissures. Native gold, silver and rare electrum have also been reported.
WORK DONE: PROS 1:20000,1:5000
SAMP 6;AU,AG
SOIL 32;AU
REFERENCES: A.R. 8982,15145
M.I. 104A 006-VIRGINIA K

**** Virginia K ****

MINING DIV: *** ASSESSMENT REPORT 15365 INFO CLASS 3
LOCATION: LAT. 56 14 54 LONG. 129 52 00 NTS:
CLAIMS: Am 1,Am 3,Virginia K3,Virginia K3 Fr.
OPERATOR: Square Gold Res.
AUTHOR: Lisle, T.
COMMODITIES: Gold,Silver
DESCRIPTION: A system of quartz and quartz-siderite veins occur near a northerly trending fault close to a contact between a lower tuff-siltstone-argillite-limestone unit and an upper, green to maroon

fragmental unit of the Lower Jurassic Unuk River Formation. The area is cut by a swarm of green felsic dykes and by a number of dykes or sills of granodiorite porphyry. The veins are mineralized with pyrite, chalcopyrite with minor galena, tetrahedrite and sphalerite and contain significant amounts of gold and silver.

Anomalous rock chip and soil results were obtained.
WORK DONE: GEOL 1:2500
LINE 6.0 KM
PITS 22
ROCK 174;AU,AG,CU,PB,ZN
SOIL 32;AU
REFERENCES: A.R. 8982,15145,15365
M.I. 104A 006-VIRGINIA K

Iskut River 104B

**** East Gold (Pioneer) ****

MINING DIV: Skeena ASSESSMENT REPORT 15626 INFO CLASS 3
LOCATION: LAT. 56 16 42 LONG. 130 04 24 NTS:
CLAIMS: Tide 2
OPERATOR: Northair Mines
AUTHOR: MacLeod, J.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: The claims are underlain by Lower Jurassic Hazelton Group volcanics and sediments which are intruded by the Summit Lake granodiorite stock.

Numerous narrow shears containing quartz veins mineralized with minor sphalerite, galena, chalcopyrite and arsenopyrite carry gold and silver values. The drill holes did not intersect significant mineralization.
WORK DONE: DIAD 455.5 m;2 holes,BQ
SAMP 105;Au,Ag
REFERENCES: A.R. 08656,09687,11528,13072,15410
M.I. 104B 033-EAST GOLD (PIONEER)

**** Silbak Premier ****

MINING DIV: *** ASSESSMENT REPORT 16259 INFO CLASS 3
LOCATION: LAT. 56 03 00 LONG. 130 01 00 NTS:
CLAIMS: Cascade No. 8 (L.3591)
OPERATOR: Westmin Res.
AUTHOR: Wojdak, P.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper,Tungsten,Barium
DESCRIPTION: Lower Jurassic Hazelton Group andesite is intruded by sub-volcanic potassium feldspar-quartz-hornblende-plagioclase porphyries. Structures which controlled porphyry emplacement also controlled later gold-silver bearing stockwork vein and quartz-adularia plus or minus sulphide breccias. Main alteration and vein minerals are quartz, potassium feldspar, sericite and calcite, with pyrite, sphalerite, galena, tetrahedrite and electrum. The zone under exploration is peripheral to stopes of the former Silbak Premier Mine.

WORK DONE: DIAD 124.4 m;1 hole,NQ
SAMP 42;Au,Ag,Cu,Pb,Zn
REFERENCES: M.I. 104B 054-SILBAK PREMIER

**** Willa ****

MINING DIV: Skeena ASSESSMENT REPORT 16204 INFO CLASS 4
LOCATION: LAT. 56 04 12 LONG. 130 00 48 NTS:
CLAIMS: W.I. Fr.,Willa Fr.
OPERATOR: Ingelson, A.
AUTHOR: Anstey, B.; Hartwig, L.
DESCRIPTION: The claims are underlain by highly fractured greenstones, purplish cataclastics and breccias of the Lower Jurassic Hazelton Group. Minor gold values are associated with pyrite in greenstones. The pyrite occurs as euhedral microscopic cubes and anhedral grains.
WORK DONE: SOIL 36;Pb,Zn,Cu
SILT 5;Pb,Zn,Cu
ROCK 2;Au
PROS 1:3500
REFERENCES:

**** Consoat,King ****

MINING DIV: *** ASSESSMENT REPORT 16316 INFO CLASS 4
LOCATION: LAT. 56 29 30 LONG. 130 38 00 NTS:
CLAIMS: Consoat,King 1
OPERATOR: Crest Res.
AUTHOR: Adamson, R.
DESCRIPTION: Northwesterly dipping volcanic and sedimentary rocks of the Upper Triassic Takla Group are, in part, overlain by Lower Jurassic sedimentary rocks of the Unuk River Formation. A dyke-like monzonite intrusive of Early Tertiary(?) age occupies a northerly striking shear-fault system. Disseminated pyrite and chalcopyrite with anomalous gold values occur in and adjacent to the intrusive.
WORK DONE: SILT 7;multielement
ROCK 3;multielement
SOIL 44;multielement
REFERENCES: A.R. 10474,11673

**** Catspaw ****

MINING DIV: Skeena ASSESSMENT REPORT 15975 INFO CLASS 4
LOCATION: LAT. 56 17 30 LONG. 130 05 36 NTS:
CLAIMS: Catspaw
OPERATOR: Teuton Res.
AUTHOR: Cremonese, D.
DESCRIPTION: The claim is underlain by Lower Jurassic Hazelton Group limestone, volcanic fragmentals and tuffs with minor argillites which are cut by feldspar porphyry dykes. Quartz veins and/or veinlets are present along shear zones. A cataclastic zone of Jurassic phyllited semi-schist cuts lithologic units in the southern portion of the claim area.
WORK DONE: ROCK 70;multielement
REFERENCES:

**** Delta ****

MINING DIV: *** ASSESSMENT REPORT 15645 INFO CLASS 3
LOCATION: LAT. 56 22 00 LONG. 130 07 00 NTS:
CLAIMS: Delta
OPERATOR: Territorial Petr. Ventures
AUTHOR: Cremonese, D.
DESCRIPTION: Middle Jurassic sediments of the Salmon River Formation overlie Lower Jurassic volcanics and sediments of the Unuk River Formation. The sediments have been folded into synclines and anticlines with northerly trending fold axes. Small (Eocene?) feldspar porphyry intrusives outcrop in the northwest quadrant of the claim. Pyritic alteration zones cut across lithologies and carry quartz veins with sphalerite, galena, chalcopyrite, tetrahedrite and rare native gold and silver. Anomalous values of gold in stream samples suggest an as yet undetected source.
WORK DONE: DIAD 300.2 m;5 holes,NQ
ROCK 267;Au,Ag
REFERENCES: A.R. 11716,13403,14607

**** East Gold (Pioneer) ****

MINING DIV: Skeena ASSESSMENT REPORT 16198 INFO CLASS 3
LOCATION: LAT. 56 17 00 LONG. 130 04 00 NTS:
CLAIMS: Rollin 3,Rollin 5
OPERATOR: Sun Valley Gold Mines
AUTHOR: Wares, R.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: Precious metal mineralization of electrum and ruby silver is hosted in altered Jurassic tuffaceous sediments. The high grade gold-silver mineralization occurs at fault intersections and superposes a specific alteration phase over the regional assemblage. Vein specific alteration comprises silicification and carbonatization. The vein systems occur in two shears; one northerly trending with a westerly dip of 65 to 85 degrees, and the other with a 130 degrees strike and northwest dips of 75 to 90 degrees.
WORK DONE: DIAD 800.1 m;12 holes,BQ
SAMP 58;Au,Ag
REFERENCES: A.R. 08656,09687,11528,13072,15410,15626
M.I. 104B 033-EAST GOLD (PIONEER)

**** Feld ****

MINING DIV: *** ASSESSMENT REPORT 15668 INFO CLASS 3
LOCATION: LAT. 56 22 06 LONG. 130 09 18 NTS:
CLAIMS: Feld 1-2
OPERATOR: Territorial Petr. Ventures
AUTHOR: Cremonese, D.
DESCRIPTION: The claims are underlain by volcanic breccia, conglomerate, sandstone and siltstone of the Lower Jurassic Unuk River Formation. A gossanous area is composed of quartz-pyrite-carbonate-sericite schists with pervasive limonitic to hematitic weathering.

Anomalous gold values have been detected during a reconnaissance rock geochemical survey.
WORK DONE: ROCK 183;multielement
REFERENCES:

**** Gamma ****

MINING DIV: Skeena ASSESSMENT REPORT 15644 INFO CLASS 4
LOCATION: LAT. 56 21 00 LONG. 130 08 00 NTS:
CLAIMS: Gamma
OPERATOR: Territorial Petr. Ventures
AUTHOR: Cremonese, D.
COMMODITIES: Silver,Gold,Lead,Zinc,Copper
DESCRIPTION: A number of quartz veins less than 1 metre wide are exposed in the central portion of the Gamma Claim in a sequence of pyroclastic andesites and black shales which are intruded by fragmental feldspar porphyry. The volcanics belong to the Lower Jurassic Unuk River Formation. The feldspar porphyry is probably part of an Eocene stock. Good to exceptionally high silver values and modest gold values have been obtained from the quartz-sulphide veins. Mineralization noted includes tetrahedrite, galena, sphalerite, chalcopyrite, pyrite, malachite and azurite.
WORK DONE: ROCK 22;Au,Ag,Pb,Zn,As,Cu
SOIL 73;Au,Ag,Pb,Zn,As,Cu
REFERENCES: M.I. 104B 168-GAMMA

**** Lambda ****

MINING DIV: *** ASSESSMENT REPORT 16155 INFO CLASS 4
LOCATION: LAT. 56 18 54 LONG. 130 09 18 NTS:
CLAIMS: Lambda
OPERATOR: Teuton Res.
AUTHOR: Cremonese, D.
COMMODITIES: Lead,Zinc,Silver,Copper,Gold
DESCRIPTION: Rocks of the Lower Jurassic Unuk River Formation consisting of volcanic breccia, conglomerate, sandstone and siltstone are exposed in the northern half of the property. These are in fault contact to the south with Middle Jurassic Salmon River Formation siltstone, greywacke and sandstone. Lead-zinc mineralization in the form of coarse to fine-grained galena and sphalerite occurs in both schists and quartz veins in altered volcanics. Gold and silver values are associated with base metal mineralization.
WORK DONE: ROCK 8;multielement
HMIN 8;Au,Ag
REFERENCES: M.I. 104B 170-LAMBDA

**** Red River,Tedray ****

MINING DIV: Skeena ASSESSMENT REPORT 15684 INFO CLASS 1
LOCATION: LAT. 56 28 06 LONG. 130 11 42 NTS:
CLAIMS: Red River
OPERATOR: Newhawk Gold Mines
AUTHOR: Tribe, N.
COMMODITIES: Gold,Silver,Zinc,Lead
DESCRIPTION: The claim is underlain by Lower Jurassic Unuk River Formation

andesite and pyroclastics. Fault-controlled quartz stockwork with quartz and sericite alteration is mineralized with pyrite, tetrahedrite, sphalerite, galena, pyrargyrite, argentite and electrum. The deposit trends northwest, dips 70 degrees northeast, and consists of about 1 000 000 tonnes.
WORK DONE: SAMP 1400;Au,Ag
UNDV 404.0 m
DIAD 6643.7 m;47 holes,BQ
REFERENCES: A.R. 00348,00499,00569,01006,03170,05416,05921,05958,06066,06255, 08420,09435,09568,10268,10698,11667,12471,13369,14614,14672
M.I. 104B 105-TEDRAY;104B 118-RED RIVER

**** Tennyson ****

MINING DIV: *** ASSESSMENT REPORT 15789 INFO CLASS 2
LOCATION: LAT. 56 15 48 LONG. 130 09 30 NTS:
CLAIMS: Tennyson 1-2
OPERATOR: Cons. BRX Min. & Petr.
AUTHOR: Logan, J.
COMMODITIES: Gold,Silver,Zinc,Lead
DESCRIPTION: The claims are underlain by a succession of ash tuff breccias, volcanic conglomerates, flow breccias and lesser siltstones of the Lower Jurassic Unuk River Formation. Alteration assemblages include propylitic, chlorite-carbonate to sericite-pyrite, +/- argillic and silicified zones. Diamond drilling has delineated base metal veining and alteration zonation patterns which carry gold and silver values. These characteristics may suggest an epithermal-type of mineralization.
WORK DONE: DIAD 914.7;6 holes,NQ
SAMP 591;Au,Ag
GEOL 1:2500
REFERENCES: A.R. 14542
M.I. 104B 167-TENNYSON

**** Theta,Eta ****

MINING DIV: Skeena ASSESSMENT REPORT 16156 INFO CLASS 4
LOCATION: LAT. 56 20 12 LONG. 130 11 06 NTS:
CLAIMS: Eta,Iota,Theta
OPERATOR: Teuton Res.
AUTHOR: Cremonese, D.
COMMODITIES: Lead,Zinc,Silver,Copper,Gold
DESCRIPTION: The property is underlain by Lower Jurassic Unuk River Formation volcanic breccia, conglomerate, sandstone and siltstone. Quartz-carbonate altered zones within the volcanic sequence carry modest to good grades of silver and some gold with attendant galena, sphalerite and chalcopyrite mineralization.
WORK DONE: HMIN 6;Au,Ag
ROCK 44;multielement
TREN 9.0 m;1 trench
SAMP 9;multielement
REFERENCES: M.I. 104B 169-THETA;104B 169-ETA

**** Tide ****

MINING DIV: *** ASSESSMENT REPORT 15410 INFO CLASS 3
LOCATION: LAT. 56 16 06 LONG. 130 04 00 NTS:
CLAIMS: Tide 2
OPERATOR: Tenajon Silver
AUTHOR: MacLeod, J.
DESCRIPTION: Summit Lake granodiorite intrudes argillaceous sediments and andesitic fragmentals of the Lower Jurassic Hazelton Group. Numerous narrow shears and quartz veins are mineralized with minor amounts of sphalerite, galena, chalcopyrite and arsenopyrite.
Diamond drilling did not intersect significant mineralization.
WORK DONE: SAMP 47;Au,Ag
DIAD 112.0 m;1 hole,BQ
REFERENCES: A.R. 08656,09687,11528,13072

**** Corey ****

MINING DIV: Skeena ASSESSMENT REPORT 16364 INFO CLASS 4
LOCATION: LAT. 56 27 00 LONG. 130 23 00 NTS:
CLAIMS: Corey 6-8
OPERATOR: Catear Res.
AUTHOR: Kruchkowski, E.
DESCRIPTION: Andesitic fragmentals of the Unuk River Formation of Lower Jurassic age are intruded by Middle Jurassic syenodiorites and gabbro. Mineralization is related to quartz stockwork in sericite schist and consists of pyrite, sphalerite and tetrahedrite.
WORK DONE: SILT 10;Au,Pt,Ag
ROCK 33;Au,Ag
REFERENCES:

**** Daly,Cumberland ****

MINING DIV: *** ASSESSMENT REPORT 16318 INFO CLASS 4
LOCATION: LAT. 56 29 12 LONG. 130 26 00 NTS:
CLAIMS: Cumberland,Dugma
OPERATOR: Tsurugida, R.
AUTHOR: Horne, E.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by andesites and agglomerates of the Lower Jurassic Unuk River Formation. Minerals present are pyrite, sphalerite and chalcopyrite.
WORK DONE: SILT 7;Au,Ag
SOIL 1;Au,Ag
ROCK 7;Au,Ag
REFERENCES: A.R. 08769,12255
M.I. 104B 011-DALY;104B 011-CUMBERLAND

**** Gracy,Globe ****

MINING DIV: Skeena ASSESSMENT REPORT 15615 INFO CLASS 2
LOCATION: LAT. 56 20 00 LONG. 130 27 00 NTS:
CLAIMS: Alf 2,Doc 4

OPERATOR: Magna Ventures
AUTHOR: Gewargis, W.
COMMODITIES: Gold,Silver,Lead
DESCRIPTION: Interbedded felsic and mafic volcanic rocks of Upper Triassic age dip northeast and southwest. The volcanic rocks are intruded by vertically dipping and northwest trending dykes of quartz porphyry, diabase and diorite of Tertiary age. Several mineralized milky-white quartz veins containing 5 per cent sulphides of base and precious metals discordantly cut the volcanic rocks.
WORK DONE: DIAD 913.2 m;10 holes,BQ
SAMP 350;Au,Ag
REFERENCES: A.R. 00448,05512,05239,07640,08245,08925
M.I. 104B 014-GRACY;104B 015-GLOBE

**** Kerr ****

MINING DIV: *** ASSESSMENT REPORT 16616 INFO CLASS 2
LOCATION: LAT. 56 28 12 LONG. 130 16 06 NTS:
CLAIMS: Kerr 12,Kerr 41,Kerr 9,Kerr 99-100
OPERATOR: Western Can. Min.
AUTHOR: Jerema, M.; Kowalchuk, J.
COMMODITIES: Gold,Silver,Copper,Lead,Zinc
DESCRIPTION: Chalcopyrite and native gold in quartz veins and silicified breccia zones occur within a large 1 kilometre wide zone of northerly shearing and hydrothermal alteration within Jurassic volcanic and sedimentary rocks.
REFERENCES: A.R. 12471,13369,15493
M.I. 104B 100-KERR

**** Sulphurets Glacier West,Kerr ****

MINING DIV: Skeena ASSESSMENT REPORT 15493 INFO CLASS 2
LOCATION: LAT. 56 28 00 LONG. 130 16 00 NTS:
CLAIMS: Kerr 9,Kerr 12,Kerr 15,Kerr 99
OPERATOR: Western Can. Min.
AUTHOR: Meyers, R.
COMMODITIES: Gold,Silver,Copper,Lead,Zinc
DESCRIPTION: Gold, silver and minor copper mineralization occurs as irregular and discontinuous quartz-sulphide veins and stockwork zones enclosed within a broad northerly trending pyritic sericite schist zone 800 metres by 2000 metres. The strongly altered and mineralized zone occurs within a sequence of andesitic marine volcanic and subvolcanic rocks, with interlayered sedimentary rocks, all of which are part of the Triassic to Jurassic Stewart Complex. The property is cut by a west-dipping thrust fault and by later andesitic dykes which are weakly altered, faulted and offset.
WORK DONE: GEOL 1:2500
EMGR 6.7 km;VLF
SOIL 593;multielement
ROCK 649;multielement
MAGG 5.9 km
REFERENCES: A.R. 12471,13369
M.I. 104B 099-SULPHURETS GLACIER WEST;104B 100-KERR

**** That ****

MINING DIV: *** ASSESSMENT REPORT 16479 INFO CLASS 4
LOCATION: LAT. 56 21 30 LONG. 130 15 49 NTS:
CLAIMS: That 2-3
OPERATOR: Jantri Res.
AUTHOR: Tribe, N.
DESCRIPTION: The claims are underlain by Jurassic Unuk River Formation rocks. Quartz stockworks and small veins occur.
REFERENCES:

**** Stan ****

MINING DIV: Skeena ASSESSMENT REPORT 16251 INFO CLASS 3
LOCATION: LAT. 56 38 06 LONG. 130 10 00 NTS:
CLAIMS: Stan 1-4,Treaty 2
OPERATOR: Catear Res.
AUTHOR: Horne, E.
DESCRIPTION: Middle Jurassic Salmon River Formation sediments and Betty Creek Formation volcanics may contain zones of schist, semi-schist and cataclastics with associated precious metal mineralization.
WORK DONE: GEOL 1:10 000
ROCK 14;Au,Ag
SILT 17;Au,Ag
REFERENCES:

**** Treaty ****

MINING DIV: *** ASSESSMENT REPORT 16250 INFO CLASS 3
LOCATION: LAT. 56 37 13 LONG. 130 04 30 NTS:
CLAIMS: Treaty 3-7
OPERATOR: Catear Res.
AUTHOR: Horne, E.
DESCRIPTION: Middle Jurassic Salmon River Formation sediments and Betty Creek Formation volcanics may contain zones of schist, semi-schist and cataclastics with precious metal mineralization.
WORK DONE: ROCK 20;Au,Ag
GEOL 1:10 000
SILT 25;Au,Ag
REFERENCES: A.R. 08767,12965,14734,15642

**** Treaty Creek ****

MINING DIV: Skeena ASSESSMENT REPORT 15642 INFO CLASS 3
LOCATION: LAT. 56 35 00 LONG. 130 07 00 NTS:
CLAIMS: Tr 2,Treaty
OPERATOR: Teuton Res.
AUTHOR: Cremonese, D.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: Thick Upper Jurassic Nass Formation sediments overlie Middle Lower Jurassic thinly banded siltstones, volcanic conglomerates, volcanic breccias, volcanic sandstones, andesitic flows, and minor rhyodacite flows of the Unuk River Formation and the Betty Creek

Formation (the former at the bottom of the sequence). Widespread alteration zones contain pervasive pyrite mineralization. Gold mineralization is indicated by stream sediment samples. The 1986 rock geochemical survey isolated a possible source for the anomalous stream samples.
WORK DONE: ROCK 111;multielement
REFERENCES: A.R. 08767,14734
M.I. 104B 078-TREATY CREEK

**** Ok ****

MINING DIV: *** ASSESSMENT REPORT 15688 INFO CLASS 4
LOCATION: LAT. 56 31 30 LONG. 130 17 18 NTS:
CLAIMS: OK 2
OPERATOR: Newhawk Gold Mines
AUTHOR: Tribe, N.
DESCRIPTION: Lower Jurassic Unuk River Formation pyroclastic andesite contains fault-controlled quartz stockwork with quartz and sericite alteration. Mineralization consists of pyrite, tetrahedrite, sphalerite, galena, pyrargyrite, argentite and electrum.
WORK DONE: GEOL 1:500
REFERENCES: A.R. 09234

**** Unuk ****

MINING DIV: Skeena ASSESSMENT REPORT 15961 INFO CLASS 3
LOCATION: LAT. 56 35 00 LONG. 130 19 30 NTS:
CLAIMS: Coul 1-4,Unuk 1-19,Unuk 21-25
OPERATOR: Cove Energy
AUTHOR: Sorbara, J.
DESCRIPTION: The claims are underlain by volcanic breccias, conglomerate, sandstone and siltstone of the Lower Jurassic Unuk River Formation as well as sedimentary rocks of the Jurassic Salmon River Formation. Some gossans occur throughout the claim area.
WORK DONE: EMAB 785.0 km;VLF
MAGA 785.0 km
REFERENCES:

**** Chopin ****

MINING DIV: Liard ASSESSMENT REPORT 16684 INFO CLASS 2
LOCATION: LAT. 56 39 42 LONG. 131 03 46 NTS:
CLAIMS: Chopin I-II,Handel
OPERATOR: Winslow Gold
AUTHOR: Dunkley, J.; Graf, C.
COMMODITIES: Gold,Silver,Zinc,Copper,Lead
DESCRIPTION: Jurassic sedimentary and volcaniclastic rocks, mainly greywacke, form a 1500 metre thick sequence on Mt. Snippaken and the east side of Bronson Creek. Gold-bearing pyrite, sphalerite and galena, chalcopyrite and arsenopyrite veins and pods occur along fault structures.
WORK DONE: GEOL 1:5000
SOIL 1500;multielement
ROCK 157;multielement
DIAD 1100.0 m;7 holes,BQ

SAMP 848;Au,Ag,Cu,Pb,Zn
PETR 4
REFERENCES:

**** Sky ****

MINING DIV: *** ASSESSMENT REPORT 16678 INFO CLASS 3
LOCATION: LAT. 56 39 38 LONG. 130 54 36 NTS:
CLAIMS: Sky 4-5,Spray 1-2
OPERATOR: Hector Res.
AUTHOR: Todoruk, S.; Ikona, C.
COMMODITIES: Gold,Silver,Lead,Zinc
DESCRIPTION: The claims are predominantly underlain by Lower Jurassic Unuk River Formation greywacke/siltstone, which are overlain by andesite agglomerate. Gold and silver mineralization occurs with massive pyrite, lesser magnetite, sphalerite and galena within quartz veins up to 1.4 metres true width. The zone occurs along 300 metres of strike length within a structural lineament.
WORK DONE: GEOL 1:500
MAGG 8.7 km
EMGR 8.7 km;VLF,HLEM
SPOT 0.6 km
SOIL 422;multielement
ROCK 219;multielement
DIAD 610.0 m;15 holes,NQ
SAMP 102;multielement
LINE 8.7 km
TREN 85.0 m;5 trenches
REFERENCES:

**** Snip ****

MINING DIV: Liard ASSESSMENT REPORT 15621 INFO CLASS 2
LOCATION: LAT. 56 41 00 LONG. 131 07 00 NTS:
CLAIMS: Snip 1
OPERATOR: Cominco
AUTHOR: Nichols, R.
COMMODITIES: Gold,Silver,Zinc,Copper
DESCRIPTION: The claims are underlain by Mesozoic arenaceous and tuffaceous units that are cut by a large dyke-like orthoclase porphyry. Bleaching, potassic alteration (K-spar, sericite) and silicification are extensively developed adjacent to the porphyry. High grade gold mineralization occurs within steeply dipping quartz-carbonate-pyrite, shear-vein systems that cut the altered arkoses and lithic wackes.
WORK DONE: SAMP 250;Au
DIAD 1494.2 m;12 holes,BQ
ROCK 950;Au,Ag,Cu
REFERENCES: A.R. 04140,09964,14166
M.I. 104B 023-SNIP

**** Zeehan ****

MINING DIV: *** ASSESSMENT REPORT 16620 INFO CLASS 3
LOCATION: LAT. 56 34 20 LONG. 131 11 52 NTS:
CLAIMS: Zeehan 8-14

OPERATOR: Tanker Oil & Gas
AUTHOR: Poloni, J.
COMMODITIES: Copper,Lead,Silver,Zinc,Gold
DESCRIPTION: The claims are underlain by a sequence of metamorphic Paleozoic sediments and volcanics and a Mesozoic felsic feldspar porphyry intrusive.
WORK DONE: GEOL 1:2500
SOIL 169;Cu,Pb,Zn,As,Ag,Au
SILT 90;Cu,Pb,Zn,Ag,Au,As
ROCK 160;As,Ag,Au,Cu,Pb,Zn
HMIN 31;multielement
REFERENCES:

Telegraph Creek 104G

**** Bam-8,Bam-10 ****

MINING DIV: Liard ASSESSMENT REPORT 15827 INFO CLASS 3
LOCATION: LAT. 57 10 42 LONG. 130 52 36 NTS:
CLAIMS: Bam 6,Bam 8,Bam 10
OPERATOR: Chevron Can. Res.
AUTHOR: Hewgill, W.; Walton, G.
COMMODITIES: Gold,Silver,Bismuth,Andydrite
DESCRIPTION: The claims are underlain by Permian limestones and volcanics. Triassic to Jurassic volcanics and volcaniclastics unconformably overlie the Paleozoic sequences. A Jurassic quartz diorite intrudes the package. Mineralization occurs as quartz veins within the quartz diorite, and blebs, disseminations and veins of tetrahedrite in the limestones and clastic sediments.
WORK DONE: ROCK 98;multielement
LINE 26.0 km
SAMP 68;multielement
GEOL 1:10 000,1:1000
EMGR 5.7 km;VLF
TREN 63.0 m;4 trenches
SOIL 283;multielement
REFERENCES: A.R. 14950
M.I. 104G 027-BAM 8;104G 110-BAM 10

**** Ann ****

MINING DIV: *** ASSESSMENT REPORT 15806 INFO CLASS 3
LOCATION: LAT. 57 04 00 LONG. 131 32 00 NTS:
CLAIMS: Father,Mother,Paydirt
OPERATOR: Cons. Silver Standard Mines
AUTHOR: Dunn, D.
COMMODITIES: Gold,Copper
DESCRIPTION: The property is underlain by andesitic volcanics of Upper Triassic age which show regional propylitic alteration and have been intruded by Jurassic syenites and Cretaceous granodiorites. Mineralization consists of a weak copper porphyry system with associated precious metals values in silicified, pyritized volcanics associated with north trending structures. Reserves of 185 000 tonnes grading 4.11 grams per tonne gold has been drill-indicated.

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WORK DONE:     GEOL  1:5000
               HMIN  8;multielement
               SOIL  105;Au,Cu
               TREN  166.5 m;11 trenches
               ROCK  131;Au,Cu
REFERENCES: A.R. 05615,06022
            M.I. 104G  023-ANN
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**** Jack ****

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MINING DIV:    Liard              ASSESSMENT REPORT 16531    INFO CLASS 4
LOCATION:     LAT.  57 09 30  LONG.  131 34 18     NTS:
CLAIMS:        Jack
OPERATOR:      Cons. Silver Standard Mines
AUTHOR:        Folk, P.G.
COMMODITIES:   Lead,Zinc,Copper,Silver
DESCRIPTION:        Upper Triassic volcanic and sedimentary rocks contain
            disseminated pyrite and chalcopyrite.
WORK DONE:     SILT  1;multielement
               PROS  1:12 500
               SOIL  12;multielement
               ROCK  7;multielement
REFERENCES: M.I. 104G  048-JACK
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**** Mess,Mest,Jet,Dell ****

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MINING DIV:    ***                ASSESSMENT REPORT 15828    INFO CLASS 3
LOCATION:     LAT.  57 28 48  LONG.  130 55 00     NTS:
CLAIMS:        Bud 1-6
OPERATOR:      Chevron Can. Res.
AUTHOR:        Hewgill, W.; Walton, G.
COMMODITIES:   Copper
DESCRIPTION:        The claims are underlain by Permian limestones and volcanics.
            Triassic volcanics unconformably overlie the Paleozoic sequence.  The
            Triassic volcanics have been intruded by a Jurassic quartz monzonite
            which in turn has been intruded by a near horizontal andesitic dyke
            swarm.  Mineralization occurs as quartz veins and isolated tetra-
            hedrite showings.
WORK DONE:     ROCK  65;multielement
               SOIL  437;multielement
               GEOL  1:5000
REFERENCES: M.I. 104G  073-MESS;104G  073-MEST;104G  073-JET;104G  073-DELL
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**** Run ****

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MINING DIV:    Liard              ASSESSMENT REPORT 15603    INFO CLASS 3
LOCATION:     LAT.  57 18 18  LONG.  130 54 18     NTS:
CLAIMS:        BE 1,Be 3-6
OPERATOR:      Chevron Can. Res.
AUTHOR:        Hewgill, W.; Walton, G.
COMMODITIES:   Copper,Gold
DESCRIPTION:        The claims are underlain by Permian limestone in fault contact
            with Upper Triassic andesitic volcanics and serpentinized ultramafics.
            Along second order faults related to the Mess Creek fault system is a
            Jurassic quartz monzonite intrusion.  Erratic gold values occur along
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            with chalcopyrite and molybdenite mineralization adjacent to the
            quartz monzonite-volcanic contact.  Soil and rock chip geochemistry
            returned anomalous gold values.
WORK DONE:     LINE  6.5 km
               ROCK  72;multielement
               SAMP  54;Au,Ag,Cu,Mo
               SOIL  160;multielement
REFERENCES: A.R. 03093,03577,03989,04100,04755,06162,06391,06875,10682,10711
            M.I. 104G  040-RUN
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Cry Lake 104I

**** Kass,CK ****

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MINING DIV:    ***                ASSESSMENT REPORT 15592    INFO CLASS 3
LOCATION:     LAT.  58 10 00  LONG.  128 26 36     NTS:
CLAIMS:        Dangerous,Josh 3-4,Josh 7,Pink One,Pink Two
OPERATOR:      Esso Res. Can.
AUTHOR:        Holbeck, P.
COMMODITIES:   Copper,Zinc
DESCRIPTION:        The claims investigated are underlain by felsic to mafic
            pyroclastic rocks of the Triassic Kutcho Formation.
                 Kutcho Formation rocks have undergone greenschist facies
            metamorphism and have been folded into large scale, tight, inclined
            folds plunging shallowly to the west.  Intense sericite-carbonate
            alteration is typical of mineralized areas.
WORK DONE:     EMGR  8.0 km;HLEM
               SOIL  21;multielement
               MAGG  12.5 km
               ROCK  47;multielement
               GEOL  1:12 000,1:5000
REFERENCES: A.R. 06630
            M.I. 104I  075-CK;104I  095-KASS
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**** Kutcho ****

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MINING DIV:    Liard              ASSESSMENT REPORT 16132    INFO CLASS 3
LOCATION:     LAT.  58 11 48  LONG.  128 32 00     NTS:
CLAIMS:        Kutcho 1-4
OPERATOR:      Noranda Ex.
AUTHOR:        Maxwell, G.
COMMODITIES:   Copper
DESCRIPTION:        The property covers occurrences of copper-zinc mineralization in
            schistose volcanic, volcaniclastic and sedimentary rocks of the
            "Kutcho Formation".
WORK DONE:     SILT  34;multielement
               SOIL  349;multielement
REFERENCES: A.R. 06210,06374,06375,06686,06916,09170,12961,13746,14897
            M.I. 104I  072-KUTCHO
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**** D ****

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MINING DIV:    ***                ASSESSMENT REPORT 15773    INFO CLASS 3
LOCATION:     LAT.  58 11 42  LONG.  129 07 48     NTS:
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CLAIMS: B 1,D 3-4,D 6,D 8-9
OPERATOR: Balance Res.
AUTHOR: Kim, H.
COMMODITIES: Gold,Silver
DESCRIPTION: The claims are underlain by Triassic green and purplish volcanics and volcaniclastics. Quartz veins mineralized with pyrite, chalcopyrite, galena and sphalerite occur along a sediment-volcanic contact and within shear zones.
WORK DONE: TREN 16.0 m;6 trenches
GEOL 1:5000
REFERENCES: A.R. 10699,10966,11279,13276,14004
M.I. 104I 093-D

**** D ****

MINING DIV: Liard ASSESSMENT REPORT 16683 INFO CLASS 4
LOCATION: LAT. 58 11 18 LONG. 129 07 59 NTS:
CLAIMS: B 1
OPERATOR: Balance Res.
AUTHOR: Kim, H.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Triassic green and purplish volcanic and volcaniclastic rocks. The southern edge of the property partially encompasses the Middle Jurassic Toodoggone volcanics. Showings of a gold-silver quartz vein and shear zone with base metal mineralization were noted.
WORK DONE: SAMP 3;Au
PROS 1:5000
REFERENCES: A.R. 10699,10966,11279,13276,14004,15773
M.I. 104I 093-D

**** Castle ****

MINING DIV: *** ASSESSMENT REPORT 15656 INFO CLASS 4
LOCATION: LAT. 58 26 00 LONG. 129 42 00 NTS:
CLAIMS: Castle
OPERATOR: Noranda Ex.
AUTHOR: Bradish, L.; Maxwell, G.
COMMODITIES: Copper,Zinc
DESCRIPTION: The property is underlain by sedimentary and volcanic rocks of the King Salmon Assemblage, which dips steeply north. A small occurrence of pyrite, chalcopyrite and sphalerite is located at the junction of Eagle River and Squaw Creek.
WORK DONE: ROCK 9;Cu,Zn,Au,Ag
LINE 2.0 km
GEOL 1:5000
EMGR 1.9 km;HLEM
MAGG 2.0 km
REFERENCES: A.R. 06979
M.I. 104I 077-CASTLE

**** PR ****

MINING DIV: Liard ASSESSMENT REPORT 16418 INFO CLASS 4
LOCATION: LAT. 58 20 12 LONG. 128 55 30 NTS:

CLAIMS: PR 4-7
OPERATOR: Powder Ridge Res.
AUTHOR: Smith, F.
DESCRIPTION: The claims are underlain by steeply dipping argillitic shale of the Paleozoic Dease Series and slate interspersed with beds of limestone, andesite, diorite, serpentinite and occasionally intrusives. Mineralization consists of pyrite, chalcopyrite, bornite, and malachite. The upturned bedding strike is principally northwest with dips varying from 60 degrees southwest, through vertical to 60 degrees northeast.
WORK DONE: SOIL 11;Cu,Ag,Au
ROCK 12;Cu,Ag,Au
PROS 1:2500
REFERENCES: A.R. 14000

**** Jadex ****

MINING DIV: *** ASSESSMENT REPORT 15940 INFO CLASS 4
LOCATION: LAT. 58 16 00 LONG. 128 35 00 NTS:
CLAIMS: B.S.,Jadex 1-8
OPERATOR: Mohawk Oil
AUTHOR: Waldner, M.
COMMODITIES: Jade
DESCRIPTION: Nephrite jade occurs within a northwest trending belt of Mississippian to Permian Cache Creek metasediments and metavolcanics, which have been intruded by commonly serpentinized ultramafic rocks. Jade commonly occurs at fault contacts between metasediments and serpentinites.
WORK DONE: TREN 75.0 m;6 trenches
PROS 1:20 000,1:5000
DIAD 10.0 m;9 holes
REFERENCES: A.R. 08659
M.I. 104I 078-JADEX

**** Flat ****

MINING DIV: Liard ASSESSMENT REPORT 16458 INFO CLASS 3
LOCATION: LAT. 58 27 54 LONG. 128 52 24 NTS:
CLAIMS: Cub,Cub 3
OPERATOR: Cukor, V.
AUTHOR: Cukor, V.
COMMODITIES: Nickel,Copper
DESCRIPTION: An ultramafic complex with sulphide accumulations contains values of copper, nickel and molybdenum.
WORK DONE: SAMP 169;Au,Pt
REFERENCES: A.R. 01077,08055
M.I. 104I 051-FLAT

**** Jed ****

MINING DIV: *** ASSESSMENT REPORT 16332 INFO CLASS 3
LOCATION: LAT. 58 23 42 LONG. 128 59 36 NTS:
CLAIMS: Jed 1
OPERATOR: Supreme Res.
AUTHOR: Cukor, V.

DESCRIPTION: D¢Crill core assayed up to 3.4 grams of gold per tonne in Mississippian-Permian Cache Creek Group of rocks.
WORK DONE: SAMP 50;Au
DIAD 304.5 m;3 holes,BQ
REFERENCES: A.R. 13627

**** Maria ****

MINING DIV: Liard ASSESSMENT REPORT 15494 INFO CLASS 4
LOCATION: LAT. 58 19 54 LONG. 128 59 12 NTS:
CLAIMS: Maria
OPERATOR: Imperial Metals
AUTHOR: Pesalj, R.
DESCRIPTION: Serpentinized ultramafics are cut by subvertical, well-exposed, quartz veins 0.3 to 0.5 metre wide. Rock samples returned only background values.
WORK DONE: ROCK 36;multielement
GEOL 1:2500
REFERENCES:

**** PR ****

MINING DIV: *** ASSESSMENT REPORT 16047 INFO CLASS 4
LOCATION: LAT. 58 18 30 LONG. 128 55 00 NTS:
CLAIMS: PR 8-9
OPERATOR: Fredlund, D.
AUTHOR: Fredlund, D.
DESCRIPTION: Rock outcrops of vertically dipping beds of argillic shale of the Paleozoic Dease Series are altered to phyllite and slate which are interspersed with limestone, andesite, diorite, serpentinite, and occasionally porphyrite mineralized with pyrite, galena, and chalcopyrite. The rocks strike northwesterly.
WORK DONE: PROS 1:10 000
REFERENCES:

**** Turn,Cobalt,Pyrrhotite ****

MINING DIV: Liard ASSESSMENT REPORT 15994 INFO CLASS 3
LOCATION: LAT. 58 28 24 LONG. 128 51 36 NTS:
CLAIMS: Again 21-40,Turn 1-20
OPERATOR: Technigen Platinum
AUTHOR: Page, J.
COMMODITIES: Copper,Nickel
DESCRIPTION: The Turnagain River ultramafic body is a zoned ultramafic complex consisting of a dunite core and peripheral peridotite, pyroxene-rich periodotite and olivine pyroxenite. It intrudes the northwesterly striking Permian-Pennsylvanian Cache Creek Group of rocks.
WORK DONE: SOIL 146;Pt,Pd
ROCK 63;multielement
SILT 18;multielement
REFERENCES: A.R. 02056,03735,04097
M.I. 104I 014-TURN;104I 014-COBALT;104I 014-PYRRHOTITE

**** Pat ****

MINING DIV: Atlin ASSESSMENT REPORT 14802 INFO CLASS 3
LOCATION: LAT. 58 11 30 LONG. 131 34 30 NTS:
CLAIMS: Moon 1-2,Moon 4
OPERATOR: United Cambridge Mines
AUTHOR: Lisle, T.
COMMODITIES: Gold,Copper,Silver
DESCRIPTION: Veins and lenses of sphalerite, magnetite, pyrite and chalcopyrite containing gold occur near the contact of monzonitic intrusions, and tuffaceous and volcanic rocks of the Upper Triassic Stuhini Group. Gold also occurs along fault zones. Elevated levels of cobalt, arsenic, lead and zinc in addition to copper have been found.
WORK DONE: ROCK 36;MULTIELEMENT
SILT 1;MULTIELEMENT
SOIL 165;MULTIELEMENT
REFERENCES: A.R. 2554,6835,7482,14802
M.I. 104J 015-PAT

**** Pat,Oh ****

MINING DIV: *** ASSESSMENT REPORT 16311 INFO CLASS 3
LOCATION: LAT. 58 11 48 LONG. 131 36 00 NTS:
CLAIMS: Moon 1-4
OPERATOR: United Cambridge Mines
AUTHOR: Cruickshank, P.; Mark, D.
COMMODITIES: Copper,Gold,Silver
DESCRIPTION: The property is underlain by Upper Triassic Stuhini Group andesitic to basaltic flows and a variety of sedimentary rocks which are intruded by a gabbroic-diorite stock with associated dykes or sill-like masses, and dissected by numerous faults. Shear zones are believed to host sulphide mineralization.
WORK DONE: MAGA 202.1 km
EMAB 202.1 km;VLF
REFERENCES: A.R. 02061,02554,03296,03514,06835,07482,14802
M.I. 104J 015-PAT;104J 021-OH

**** Mosquito Creek ****

MINING DIV: Liard ASSESSMENT REPORT 16624 INFO CLASS 4
LOCATION: LAT. 58 51 08 LONG. 130 22 48 NTS:
CLAIMS: PL 12484,PL 12633
OPERATOR: Gormandy, S.
AUTHOR: Leaver, G.
DESCRIPTION: CONFIDENTIAL STATUS

(Will be published in Exploration in British Columbia, 1988

**** Bandit ****

MINING DIV: Atlin ASSESSMENT REPORT 16360 INFO CLASS 4
LOCATION: LAT. 58 04 00 LONG. 132 16 00 NTS:
CLAIMS: Bandit 1
OPERATOR: Chevron Can. Res.
AUTHOR: Moffat, L.; Walton, G.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by the Stikine assemblage of intermediate to mafic volcanics, phyllites and Permian limestones. Major north-south structures cut this assemblage and show hydrothermal gold, silver and copper values.
WORK DONE: SOIL 18;multielement
GEOL 1:100
ROCK 22;Au
TREN 25.0 m;1 trench
SAMP 18;Au
REFERENCES: A.R. 10755,11824
M.I. 104K 086-BANDIT

**** Horn,Muse ****

MINING DIV: *** ASSESSMENT REPORT 15549 INFO CLASS 3
LOCATION: LAT. 58 12 30 LONG. 132 13 00 NTS:
CLAIMS: Horn 3,Late,Muse 1-2,Tan 1-2
OPERATOR: North American Metals
AUTHOR: Titley, E.; Wasylyshyn, R.
DESCRIPTION: The claims are within the Stikine terrane where Permian limestones are overlain by pre-Upper Triassic mafic volcanics. Listwanite alteration of volcanics is common along fault structures. No significant mineralization was found.
WORK DONE: HMIN 6;Cu,Ag,As,Hg,Sb,Au
SOIL 310;multielement
ROCK 13;multielement
ROAD 2.4 km
REFERENCES: A.R. 11781,14822

**** Oro,Tan ****

MINING DIV: Atlin ASSESSMENT REPORT 15894 INFO CLASS 3
LOCATION: LAT. 58 11 00 LONG. 132 18 00 NTS:
CLAIMS: Oro 1-12
OPERATOR: Sage Res.
AUTHOR: Copeland, D.
COMMODITIES: Copper
DESCRIPTION: The claims are underlain by a series of volcaniclastics, tuffs, breccias, argillites and limestones, which are intruded by small diorite stocks apparently of Upper Triassic age. Disseminated pyrite, chalcopyrite, bornite and hematite blebs and fracture fillings, and coatings of malachite occur in a small diorite stock and associated alteration zone. Best geochemical results occur as single point highs of up to 99 999 ppm copper and 930 ppb gold.
WORK DONE: GEOL 1:10 000

ROCK 48;Au,Cu,As
REFERENCES: A.R. 11820
M.I. 104K 039-ORO, 104K 039-TAN

**** Sam ****

MINING DIV: *** ASSESSMENT REPORT 15550 INFO CLASS 4
LOCATION: LAT. 58 15 12 LONG. 132 19 48 NTS:
CLAIMS: Sam 1
OPERATOR: North American Metals
AUTHOR: Titley, E.; Wasylyshyn, R.
DESCRIPTION: The claim is within the Stikine terrane Permian limestones. No significant mineralization was found; however, very strong geochemical anomalies exist, possibly related to fault structures.
WORK DONE: SOIL 88;Cu,Ag,As,Hg,Sb,Au
ROCK 1;Cu,Ag,As,Hg,Sb,Au
REFERENCES:

**** Nie,Misty ****

MINING DIV: Atlin ASSESSMENT REPORT 16523 INFO CLASS 2
LOCATION: LAT. 58 16 12 LONG. 132 19 12 NTS:
CLAIMS: Misty 1,Nie 2-3
OPERATOR: Chevron Can. Res.
AUTHOR: Lee, T.; Walton, G.
DESCRIPTION: The claims are underlain by the Stikine assemblage of intermediate to mafic volcanics, phyllites and Permian limestones. Major north-south structures cut this assemblage and have concentrated hydrothermal fluids along them. Gold, silver and copper values have been located along some of these structures.
WORK DONE: DIAD 1896.8 m;30 holes,NQ
SAMP 956;multielement
REFERENCES:

**** Ram,Tut ****

MINING DIV: *** ASSESSMENT REPORT 16528 INFO CLASS 3
LOCATION: LAT. 58 16 42 LONG. 132 25 30 NTS:
CLAIMS: Tot 4,Tut 2-3
OPERATOR: Chevron Can. Res.
AUTHOR: Moffat, L.; Walton, G.
COMMODITIES: Gold,Silver,Antimony
DESCRIPTION: The claims are underlain by Pre-Upper Triassic siltstones, tuff and limestones. Intense silicification combined with brecciation at the top of the limstone unit indicates the possibility for a manto gold deposit. The feeder zone for this alteration and mineralization is still not defined.
WORK DONE: DIAD 674.2 m;4 holes,NQ
SAMP 411;multielement
REFERENCES: M.I. 104K 080-RAM;104K 080-TUT

**** Outlaw ****

MINING DIV: Atlin ASSESSMENT REPORT 16310 INFO CLASS 3
LOCATION: LAT. 58 32 12 LONG. 132 43 36 NTS:

CLAIMS: Outlaw 2
OPERATOR: Chevron Can. Res.
AUTHOR: Walton, G.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper
DESCRIPTION: The claims are underlain by a Jurassic diorite which has intruded some Jurassic sediments of either King Salmon Formation or Takwahoni Formation. These sediments have been hornfelsed. To the south the claim is underlain by Stuhini Group mafic volcanics and to the north by a large aerial extent of Sloko Group felsic volcanics. A clay alteration zone in the hornfels has weak gold, silver and high arsenic, antimony values associated with it.
WORK DONE: DIAD 232.3 m;1 hole,HQ,NQ
SAMP 160;multielement
REFERENCES: A.R. 10532,12654
M.I. 104K 053-OUTLAW

**** KS ****

MINING DIV: *** ASSESSMENT REPORT 15477 INFO CLASS 4
LOCATION: LAT. 58 39 24 LONG. 132 55 54 NTS:
CLAIMS: KS 1-2
OPERATOR: Noranda Ex.
AUTHOR: Reid, W.
DESCRIPTION: The claims are underlain by a sequence of Tertiary Sloko Group volcanics and related rhyolite dykes. Alteration includes bleaching and silicification near the dykes and gossanous weathering of narrow northeast trending, narrow shear zones. Geochemical sampling results indicate weak gold-silver-lead-arsenic anomalies.
WORK DONE: ROCK 22;multielement
GEOL 1:10 000
SILT 30;multielement
REFERENCES: A.R. 02537

**** Thorn ****

MINING DIV: Atlin ASSESSMENT REPORT 15897 INFO CLASS 3
LOCATION: LAT. 58 33 00 LONG. 132 48 00 NTS:
CLAIMS: Daisy
OPERATOR: American Reserve Min.
AUTHOR: Woodcock, J.
COMMODITIES: Silver,Gold,Copper
DESCRIPTION: An Eocene volcanic pile with a small related quartz-feldspar porphyry stock is highly altered with pyrite and sericite. Linear zones are silicified and mineralized with pyrite, arsenopyrite, tetrahedrite and some silver and gold. In other places pods and lenses of pyrite-tetrahedrite-enargite carry silver and minor gold.
WORK DONE: SAMP 238;Cu,Ag,Au
GEOL 1:1000
DIAD 688.0 m;8 holes,NQ
REFERENCES: A.R. 02512,10243,11923
M.I. 104K 018-THORN;104K 031-THORN

**** Potlatch,Banker ****

MINING DIV: *** ASSESSMENT REPORT 16570 INFO CLASS 3

LOCATION: LAT. 58 40 24 LONG. 133 35 12 NTS:
CLAIMS: Janet 1-8,Joker,Tallon 1-2,Vega 1-5
OPERATOR: Cominco
AUTHOR: Termuende, T.
COMMODITIES: Gold,Silver,Lead,Zinc,Copper
DESCRIPTION: The property covers an intermediate to felsic volcanic package overlying pre-Permian limestones, and is offset by the Tulsequah Chief Fault. It contains two significant mineral showings, the Sparling and Banker. The Sparling showing, in andesite volcanics and diorite intrusives contains zinc-lead-silver-gold mineralization within narrow parallel shears offshooting from the Tulsequah Chief Fault. The Banker showing, within brecciated limestones near a sedimentary/volcanic contact, contains significant gold-silver-lead-zinc concentrations.
WORK DONE: GEOL 1:2500,1:1000,1:100
ROCK 98;Au,Ag,Pb,Zn,Cu
SOIL 141;Au,Ag,As
LINE 3.0 km
REFERENCES: M.I. 104K 006-POTLATCH;104K 007-POTLATCH, BANKER (JANET,JOKER)

**** Kap ****

MINING DIV: Atlin ASSESSMENT REPORT 15895 INFO CLASS 4
LOCATION: LAT. 58 47 00 LONG. 133 18 00 NTS:
CLAIMS: Kap 1
OPERATOR: Basaba Ent.
AUTHOR: Mark, D.
COMMODITIES: Silver,Gold,Lead,Zinc
DESCRIPTION: Mostly sedimentary and some volcanic rocks of the King Salmon Formation, Triassic Stuhini Group, form a northwest-trending anticline that is intruded by northwest-trending felsite dykes and sills. In 1981 drilling intersected massive mineralization with best section grading 52.6 grams per tonne silver, 0.75 grams per tonne gold, 0.84 per cent lead, 1.08 per cent zinc and 0.06 per cent copper.
WORK DONE: IPOL 1.5 km
REFERENCES:

**** Gram ****

MINING DIV: *** ASSESSMENT REPORT 15476 INFO CLASS 3
LOCATION: LAT. 59 43 00 LONG. 134 01 18 NTS:
CLAIMS: Gram 1-4
OPERATOR: Noranda Ex.
AUTHOR: Copland, H.
DESCRIPTION: The claims are underlain by Upper Cretaceous Hutshi Group volcanics which overlie the older Whitehorse Trough rocks. The Hutshi Group consists of intermediate to mafic volcanic rocks and associated tuffaceous sediments. Minor rhyolitic dykes cut these lithologies. Minor quartz-calcite veining is seen in the southwest corner and jasper veining is also present.
WORK DONE: LINE 20.6 km
GEOL 1:10 000

MAGG 13.5 km
SOIL 406;multielement
ROCK 38;multielement
SILT 21;multielement
HMIN 8;Cu,Pb,Zn,Ag,Au
REFERENCES:

**** BT&T ****

MINING DIV: Atlin ASSESSMENT REPORT 15445 INFO CLASS 3
LOCATION: LAT. 59 59 30 LONG. 135 18 24 NTS:
CLAIMS: BT & T 1-60,Emily
OPERATOR: Doron Ex.
AUTHOR: Luek, B.
DESCRIPTION: The claims are underlain by a cauldron subsidence structure of the Tertiary Skukum Group. A ring fracture system has been intruded by various volcanic pipes. Alteration is epithermal in style.
WORK DONE: ROCK 52;multielement
SILT 4;multielement
SOIL 50;multielement
GEOL 1:12 000
PETR 47 thin sections
REFERENCES:

**** Moon Lake ****

MINING DIV: *** ASSESSMENT REPORT 15500 INFO CLASS 3
LOCATION: LAT. 59 48 48 LONG. 134 41 30 NTS:
CLAIMS: Tut 1-3
OPERATOR: Noranda Ex.
AUTHOR: MacKay, S.; Reid, W.
COMMODITIES: Silver,Zinc,Lead,Arsenic,Copper,Gold
DESCRIPTION: The claims are underlain by a northwest trending sequence of Triassic Stuhini volcanic rocks and associated submarine sedimentary rocks which have been cut by a number of dykes. Intense carbonate alteration and associated silicification form a 200 metre wide zone which has localized gold-copper mineralization. Foliated breccias and cataclastics host sulphide rich mineralization usually confined to the breccia matrix.
WORK DONE: GEOL 1:10 000,1:2500
SILT 3;Cu,Pb,Zn,Ag,As,Au
ROCK 146;multielement
LINE 16.3 km
SOIL 524;multielement
REFERENCES: M.I. 104M 057-MOON LAKE

**** Pike ****

MINING DIV: Atlin ASSESSMENT REPORT 15808 INFO CLASS 4
LOCATION: LAT. 59 54 00 LONG. 134 44 00 NTS:
CLAIMS: Pike
OPERATOR: Copland, H.
AUTHOR:
DESCRIPTION: The claim is underlain by andesite of the Triassic Lewes River Group, quartzite of the pre-Permian Yukon Group and granite of

Cretaceous age. Anomalous gold values have been obtained in sheared, clay-altered, pyritic quartzite over 200 metres long.
WORK DONE: ROCK 12;Au,Ag,As,Hg
SILT 1;Pb,Zn,Ag,Au
GEOL 1:10 000
REFERENCES:

**** Catfish ****

MINING DIV: *** ASSESSMENT REPORT 15972 INFO CLASS 4
LOCATION: LAT. 59 53 24 LONG. 134 50 00 NTS:
CLAIMS: Catfish
OPERATOR: Copland, H.
AUTHOR: Copland, H.
COMMODITIES: Silver,Gold,Zinc,Lead,Antimony,Molybdenum
DESCRIPTION: The claims are underlain by Cretaceous granite, pre-Permian gneiss and schist and Triassic andesite cut by younger rhyolite dykes. Sulphide bearing quartz veins, mineralized rhyolite dykes and a possible volcanogenic style of mineralization occur on the property.
WORK DONE: ROCK 19;multielemenlt
GEOL 1:10 000
REFERENCES: M.I. 104M 061-CATFISH

**** Silver Queen,Bald Peak,Silver Queen-North,Gau

MINING DIV: Atlin ASSESSMENT REPORT 16569 INFO CLASS 3
LOCATION: LAT. 59 55 42 LONG. 134 53 36 NTS:
CLAIMS: Pavey 1-6
OPERATOR: Harjay Ex.
AUTHOR: Davidson, G.
COMMODITIES: Silver,Copper,Gold,Lead,Zinc,Antimony,Arsenic,Iron
DESCRIPTION: The claims are underlain by Mount Nansen Group mafic-felsic volcanics, Lewes River Group sediments and mafic-intermediate volcanics, and Yukon Group quartz-chlorite schist and gneiss. Quartz-eye rhyolite, porphyry dykes and sills host most of the mineralized quartz veins.
WORK DONE: PITS 9
LINE 5.2 km
ROCK 30;multielement
GEOL 1:10 000,1:5000
REFERENCES: M.I. 104M 002-SILVER QUEEN;104M 028-BALD PEAK;104M 038-SILVER QUEEN-NORTH;104M 039-GAUG 2;104M 040-GAUG 1

Atlin 104N

**** McKee Creek ****

MINING DIV: *** ASSESSMENT REPORT 15620 INFO CLASS 3
LOCATION: LAT. 59 28 00 LONG. 133 32 30 NTS:
CLAIMS: Cox,Kia,Penny
OPERATOR: Perron Gold Mines
AUTHOR: Dandy, L.; Gonzalez, R.
COMMODITIES: Placer Gold

DESCRIPTION: The area is underlain by Late Paleozoic Cache Creek meta-sediments and meta-volcanics. The property has a long history of placer gold production, the source of which was the focus of the current exploration programme.
WORK DONE: MAGG 15.4 km
SOIL 11;bulk,multielement
ROCK 5;multielement
DIAD 654.7 m;5 holes,NQ
SAMP 298;multielement
REFERENCES: A.R. 04227,05601,11912,13134,14336
M.I. 104N 035-MCKEE CREEK

**** TR ****

MINING DIV: Atlin ASSESSMENT REPORT 16064 INFO CLASS 3
LOCATION: LAT. 59 30 48 LONG. 133 21 12 NTS:
CLAIMS: TR 1-4
OPERATOR: Goldenrod Res.
AUTHOR: *Hawkins, T.; Neale, T.*
DESCRIPTION: The TR claims are underlain by Pennsylvanian-Permian metasedimentary and metavolcanic rocks of the Cache Creek Group particularly the Kedahda Formation. The claims are located on Spruce Creek, a known producer of placer gold. Evidence for host rocks of two types of lode gold mineralization are present: quartz veins in metasedimentary/metavolcanic rocks, and quartz-carbonate alteration of serpentinized ultramafic rocks.
WORK DONE: GEOL 1:20 000
ROCK 18;multielement
SILT 3;multielement
PETR 1;thin section
REFERENCES: A.R. 13461

**** GV ****

MINING DIV: *** ASSESSMENT REPORT 15534 INFO CLASS 4
LOCATION: LAT. 59 32 30 LONG. 133 26 24 NTS:
CLAIMS: GV 15
OPERATOR: Placer Dev.
AUTHOR: Gareau, M.
DESCRIPTION: Quartzite, siltstone, chert and black shale were intersected by diamond drilling. They possibly belong to the Permian-Pennsylvanian Cache Creek Group.
Minor carbonate and/or quartz veinlets were noted and are commonly associated with faulting. Trace amounts of pyrite are present locally. No significant alteration or mineralization was encountered.
WORK DONE: ROAD 1.0 km
SAMP 12;multielement
DIAD 45.7 m;1 hole,NQ
REFERENCES:

**** Julia ****

MINING DIV: Atlin ASSESSMENT REPORT 16240 INFO CLASS 4
LOCATION: LAT. 59 39 24 LONG. 133 28 48 NTS:

CLAIMS: Julia 6
OPERATOR: Surprise Lake Ex. Partn.
AUTHOR: Thornton, J.
DESCRIPTION: The claims appear to be underlain by unaltered ultramafic rocks or volcanic rocks.
WORK DONE: EMGR 7.0 km;VLF
MAGG 7.0 km
LINE 7.8 km
REFERENCES:

**** Lake View ****

MINING DIV: *** ASSESSMENT REPORT 15686 INFO CLASS 2
LOCATION: LAT. 59 38 00 LONG. 133 27 18 NTS:
CLAIMS: GDC 2
OPERATOR: Cream Silver Mines
AUTHOR: Dandy, L.
COMMODITIES: Gold,Silver
DESCRIPTION: The claim is underlain by Permian-Pennsylvanian Cache Creek Group volcanics and sedimentary rocks which are intruded by talcose ultramafics.

Diamond drilling intersected numerous quartz veins and mineralized shear zones.
WORK DONE: DIAD 1602.6 m;15 holes,NQ
SAMP 1088;multielement
REFERENCES: A.R. 10481,11495,13133,14184,14438,15189
M.I. 104N 009-LAKE VIEW

**** O ****

MINING DIV: Atlin ASSESSMENT REPORT 16312 INFO CLASS 3
LOCATION: LAT. 59 36 48 LONG. 133 24 48 NTS:
CLAIMS: O 1,O 5
OPERATOR: Ezekiel Ex.
AUTHOR: Cunningham, L.
DESCRIPTION: The claims are underlain by Permian-Pennsylvanian Cache Creek Group metasediments and volcanics, which are intruded by ultramafics and a Cretaceous alaskite stock. The ultramafics are extensively carbonatized or serpentinized. Because of limited outcrop exposures it is difficult to obtain specific structural information, however it appears that several folds and minor faults are present.
WORK DONE: MAGG 10.5 km
ROAD 1.2 km
GEOL 1:1000
ROCK 21;multielement
TREN 450.0 km;7 trenches
REFERENCES:

**** Shuksan ****

MINING DIV: *** ASSESSMENT REPORT 15545 INFO CLASS 3
LOCATION: LAT. 59 33 06 LONG. 133 28 36 NTS:
CLAIMS: Karen 7,Kulshan 1-2,Shuksan 1-2,Shuksan 4-5
OPERATOR: Placer Dev.

AUTHOR: Cannon, R.
COMMODITIES: Gold
DESCRIPTION: A tongue of serpentinized ultramafic rocks of Permo-Pennsylvanian Atlin Intrusion extends northeasterly from the ultramafic body on Union Mtn. under the valley of Dominion Creek. Locally the rocks are intensely carbonate-altered and shear zones run northeasterly. The country rock is believed to be greenstone and minor metasediments of the Permian-Pennsylvanian Cache Creek Group.
WORK DONE: LINE 39.0 km
MAGG 33.0 km
EMGR 33.0 km;VLF
REFERENCES: A.R. 10502,11138,11511,13410,15062,15545,16006
M.I. 104N 098-SHUKSAN

**** Shuksan ****

MINING DIV: Atlin ASSESSMENT REPORT 16561 INFO CLASS 3
LOCATION: LAT. 59 33 06 LONG. 133 23 36 NTS:
CLAIMS: Shuksan 13,Shuksan 5-6
OPERATOR: Placer Dev.
AUTHOR: Smith, M.
DESCRIPTION: Four main rock types found on the claims consist of sediments, greenstones, unaltered and altered ultramafic rocks, serpentinite, and various intermediate-mafic dykes.
WORK DONE: LINE 19.5 km
EMGR 19.5 km;VLF
MAGG 19.5 km
REFERENCES:

**** Shuksan ****

MINING DIV: *** ASSESSMENT REPORT 16007 INFO CLASS 3
LOCATION: LAT. 59 37 00 LONG. 133 26 00 NTS:
CLAIMS: Shuksan,Shuksan 14
OPERATOR: Surprise Lake Synd.
AUTHOR: Dandy, L.
DESCRIPTION: The claims are underlain by Pennsylvanian-Permian Cache Creek Group metasediments and Atlin Intrusion ultramafics. Graphitic shear zones and altered ultramafic margins trend 010 degrees to 045 degrees.
WORK DONE: MAGG 9.4 km
EMGR 5.0 km;VLF
REFERENCES:

**** Shuksan ****

MINING DIV: Atlin ASSESSMENT REPORT 16006 INFO CLASS 2
LOCATION: LAT. 59 32 36 LONG. 133 29 42 NTS:
CLAIMS: Karen 6-7,Shuksan 1,Shuksan 4
OPERATOR: Placer Dev.
AUTHOR: Gareau, M.
COMMODITIES: Gold
DESCRIPTION: A section of serpentinized ultramafic rock of the Permian-Pennsylvanian Atlin Intrusion extends northeast from the ultramafic body of Union Mountain under the valley of Dominion Creek. Locally

the rocks are intensely carbonate-altered. The country rocks are believed to be greenstone and minor metasediments of the similarly aged Cache Creek Group.
WORK DONE: SAMP 281;multielement
DIAD 1042.6 m;19 holes,NQ
REFERENCES: A.R. 10502,11138,11511,13410,15062
M.I. 104N 098-SHUKSAN

**** YJ ****

MINING DIV: *** ASSESSMENT REPORT 16529 INFO CLASS 4
LOCATION: LAT. 59 37 36 LONG. 133 22 24 NTS:
CLAIMS: Jack 22,Jack 24,YJ 1-3
OPERATOR: Homestake Min. Dev.
AUTHOR: McIvor, D.
DESCRIPTION: The Cretaceous Surprise Lake Batholith intrudes sediments, ultramafic rocks and volcanics of the Permian-Pennsylvanian Cache Creek Group. No significant alteration or mineralization was noted.
WORK DONE: ROCK 43;multielement
GEOL 1:10 000
REFERENCES:

**** Anaconda ****

MINING DIV: Atlin ASSESSMENT REPORT 16535 INFO CLASS 3
LOCATION: LAT. 59 33 48 LONG. 133 41 18 NTS:
CLAIMS: Jack 21 Fr.,Jack 6,YJ 13-14
OPERATOR: Homestake Min. Dev.
AUTHOR: McIvor, D.
COMMODITIES: Gold
DESCRIPTION: Mesozoic ultramafic intrusive rocks are predominantly serpentinized and in places hydrothermally altered to silica-carbonate-mariposite listwanite. Several quartz veins and quartz vein stockworks were delineated, most of which are barren. One vein, partially exposed in a pit, returned gold assays as high as 720 ppb gold.
WORK DONE: GEOL 1:1000
ROCK 160;multielement
MAGG 12.3 km
EMGR 12.3 km;VLF
REFERENCES: M.I. 104N 046-ANACONDA (ANNY,FULL MOON)

**** Imperial,Pictou,Anaconda ****

MINING DIV: *** ASSESSMENT REPORT 16511 INFO CLASS 3
LOCATION: LAT. 59 34 42 LONG. 133 38 48 NTS:
CLAIMS: Balsam,Gibb Fr.,Gnat Fr.,Jack 21 Fr.,Jack 27-29,Jack 30A,Jack 30B
Jack 31 Fr.,Jack 6,Reef,YJ 12-14,YJ 4-5
OPERATOR: Homestake Min. Dev.
AUTHOR: Ronning, P.
COMMODITIES: Gold,Copper,Lead,Silver,Zinc
DESCRIPTION: The area is underlain by Upper Paleozoic oceanic crust of the Atlin terrane. Greenstone is cut by a northeast trending fault and intruded by ultramafic rocks. The ultramafics are serpentinized and carbonatized. The ultramafics and greenstones are cut by steeply

dipping quartz veins which may be locally auriferous.

WORK DONE: GEOL 1:10 000
MAGG 1.2 km
EMGR 1.2 km;VLF
MAGA 334.0 km
EMAB 334.0 km;VLF

REFERENCES: A.R. 04551
M.I. 104N 008-IMPERIAL;104N 044-PICTOU (HUDSON'S BAY>);
104N 046-ANACONDA (ANNY,FULL MOON)

**** Karen ****

MINING DIV: Atlin ASSESSMENT REPORT 16194 INFO CLASS 3
LOCATION: LAT. 59 35 18 LONG. 133 31 36 NTS:
CLAIMS: Karen
OPERATOR: Surprise Lake Ex. Partn.
AUTHOR: Thornton, J.
DESCRIPTION: The claim may be underlain by metasediments or carbonate altered ultramafics.
WORK DONE: MAGG 14.4 km
EMGR 14.4 km;VLF
LINE 17.8 km
REFERENCES:

**** Relief ****

MINING DIV: *** ASSESSMENT REPORT 15788 INFO CLASS 4
LOCATION: LAT. 59 35 54 LONG. 133 40 24 NTS:
CLAIMS: Sis 1-2
OPERATOR: White, B.
AUTHOR: White, B.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Pennsylvanian-Permian Cache Creek Group sedimentary and volcanic rocks that occur near the margin of the Jurassic-Cretaceous Fourth of July Creek batholith. A silicified zone containing pyritic quartz veins cut the Cache Creek Group volcanics.
WORK DONE: PROS 1:10 000
REFERENCES: M.I. 104N 045-RELIEF

**** S ****

MINING DIV: Atlin ASSESSMENT REPORT 16451 INFO CLASS 3
LOCATION: LAT. 59 33 42 LONG. 133 34 48 NTS:
CLAIMS: S 1-2
OPERATOR: Ezekiel Ex.
AUTHOR: Walcott, P.E.; Dandy, L.
DESCRIPTION: The area in general is underlain by Permian-Pennsylvanian Cache Creek Group metasediments and metavolcanics, and intrusive ultramafics. This property has potential for lode gold mineralization similar to that found on the adjacent claims.
WORK DONE: IPOL 15.0 km
REFERENCES: A.R. 12283,13774,13910,13925,15254

**** Spruce Creek ****

MINING DIV: *** ASSESSMENT REPORT 16560 INFO CLASS 3
LOCATION: LAT. 59 33 42 LONG. 133 32 30 NTS:
CLAIMS: Placer Lease 12247,Placer Lease 13205,Placer Leases 13210-13211
Placer Lease 13213,Placer Lease 13258,Placer Lease 1377
Placer Lease 1465,Placer Leases 1707-1709
OPERATOR: Carnes Creek Ex.
AUTHOR: Krueckl, G.
COMMODITIES: Placer Gold
DESCRIPTION: The bedrock exposures consist of serpentine and greenstone.
WORK DONE: SEIS 5.1 km
REFERENCES: M.I. 104N 034-SPRUCE CREEK

**** Utopia ****

MINING DIV: Atlin ASSESSMENT REPORT 15693 INFO CLASS 3
LOCATION: LAT. 59 35 36 LONG. 133 36 12 NTS:
CLAIMS: Utopia
OPERATOR: Gallant Gold Mines
AUTHOR: Dandy, L.
DESCRIPTION: The claim is underlain by Permian-Pennsylvanian Cache Creek Group limestone, chert, argillite, andesite and Atlin Intrusion ultramafics. The ultramafics are altered to serpentine, talc or carbonate and contain quartz stockworks. Pyrite and chromite are present. The quartz stockwork follows the Pine Creek Fault and is approximately 30.5 metres wide.
WORK DONE: SAMP 241;multielement
MAGG 24.3 km
DIAD 801.6 m;6 holes,NQ
EMGR 2.7 km;VLF
REFERENCES:

**** Yellow Jacket ****

MINING DIV: *** ASSESSMENT REPORT 15683 INFO CLASS 2
LOCATION: LAT. 59 35 42 LONG. 133 32 30 NTS:
CLAIMS: Zip,Arent 1-2,Beama,Cal 11,Discovery,Jack Fr.,Jack 2-3,Jack 5
Jack 9 Fr.,Ted 1,Rip,Zip,Wedge Fr.,Wind II,Tip,Tonic
OPERATOR: Homestake Min. Dev.
AUTHOR: Ronning, P.
COMMODITIES: Gold,Magnesite
DESCRIPTION: Gold mineralization is contained within quartz veins in altered serpentinites intruding Permian-Pennsylvanian Cache Creek Group greenstones and sediments. Pine Creek forms a major fault zone which trends about 250 degrees. This zone and associated cross faults and resulting fracture permeability have formed a plumbing system for hydrothermal fluids which have produced quartz-carbonate alteration.
WORK DONE: MAGG 80.5 km
EMAB 256.0 km;VLF
LINE 88.2 km
IPOL 6.6 km
DIAD 2250.0 m;14 holes,HQ

SAMP 904;Au
META 1 bulk sample
MAGA 256.0 km
REFERENCES: M.I. 104N 043-YELLOW JACKET

**** Midway-Discovery,Silvertip,Midway-Silver Cree

MINING DIV: Liard ASSESSMENT REPORT 15560 INFO CLASS 1
LOCATION: LAT. 59 55 48 LONG. 130 30 18 NTS:
CLAIMS: Way 29 Fr.-35 Fr.,Bull 1,Bull 5,Bull 7,Climax 1,Climax 3,Climax 8-9 Climax 11-12,Climax 15-16 Fr.,Post 15
OPERATOR: Regional Res.
AUTHOR: Hylands, J.
COMMODITIES: Silver,Lead,Zinc,Gold,Tin,Copper
DESCRIPTION: Silver, lead and zinc bearing massive sulphides in tube-shaped bodies are hosted by Silurian-Devonian McDame Group carbonates, overlain unconformably by Devonian-Mississippian Lower Sylvester Group clastic rocks.
WORK DONE: DIAD 2031.0 m;11 holes,HQ
SOIL 2325;Ag,Pb,Zn
ROTD 970.0 m;9 holes
LINE 73.0 km
MAGG 153.0 km
ROAD 10.0 km
SAMP 229;Au,Ag,Pb,Zn
REFERENCES: A.R. 00352,00370,04973,09912,11020,11799,13259,14104
M.I. 104O 003-SILVERTIP;104O 038-MIDWAY-DISCOVERY;104O 047-MIDWAY-SILVER CREEK

**** Eagl ****

MINING DIV: *** ASSESSMENT REPORT 15839 INFO CLASS 3
LOCATION: LAT. 59 03 36 LONG. 129 29 24 NTS:
CLAIMS: Eagl 1
OPERATOR: Casau Ex.
AUTHOR: Heagy, A.
COMMODITIES: Zinc,Antimony,Lead,Copper
DESCRIPTION: The claims are underlain by andesitic volcaniclastics, shales and cherts of the Devonian-Mississippian Sylvester Group which are cut by numerous high angle faults or shear zones. Mineralization consists of precious metal bearing polymetallic sulphide quartz-carbonate veins associated with iron-carbonate alteration in major linear structures.
WORK DONE: DIAD 161.5 m;3 holes,BQ
SAMP 55;Au,Ag,Pb,Zn
REFERENCES: A.R. 12218,12495
M.I. 104P 073-EAGL

**** Nome ****

MINING DIV: Liard ASSESSMENT REPORT 16186 INFO CLASS 3
LOCATION: LAT. 59 09 24 LONG. 129 36 30 NTS:
CLAIMS: Nome 1-5
OPERATOR: Lo, P.
AUTHOR: Garagan, T.
COMMODITIES: Gold
DESCRIPTION: The claims are underlain by Devonian-Mississippian Sylvester Group volcanics and sediments cut by northeast and northwest trending faults. Structures within the volcanics have associated carbonate-pyrite alteration zones. Several quartz-ankerite veins and stockworks are up to 0.5 metre wide.
WORK DONE: TREN 17.5 m;4 trenches
SOIL 410;Au,Ag
ROCK 60;Au,Ag
GEOL 1:10 000,1:2000
REFERENCES:

**** Wildcat ****

MINING DIV: *** ASSESSMENT REPORT 15794 INFO CLASS 1
LOCATION: LAT. 59 12 30 LONG. 129 36 48 NTS:
CLAIMS: Ted Fr.,Wildcat 1-2,Wildcat 9
OPERATOR: Erickson Gold Min.
AUTHOR: Boronowski, A.
COMMODITIES: Gold,Silver
DESCRIPTION: Gold and silver mineralization occurs within the Vollaug Vein dipping 30 degrees north. The vein occurs above listwanite (an altered serpentinite) at the listwanite-volcanic contact and is overlain by argillite. The volcanic and sedimentary sequence is of Lower Devonian to Mississippian age.
WORK DONE: SAMP 75;Au,Ag
DIAD 2841.1 m;18 holes,BQ
REFERENCES: A.R. 04869,05347
M.I. 104P 057-WILDCAT

**** Rich,Low Grade ****

MINING DIV: Liard ASSESSMENT REPORT 15591 INFO CLASS 4
LOCATION: LAT. 59 08 30 LONG. 129 47 30 NTS:
CLAIMS: Filthy 1,Rich 3
OPERATOR: Colony Pacific Ex.
AUTHOR: Hall, B.
COMMODITIES: Beryllium,Zinc,Tin,Bismuth,Silver,Lead
DESCRIPTION: Hosted in Precambrian limestones of the Ingenika Group is a large exposure of massive magnetite representing a skarn, and a high grade galena-sphalerite manto deposit. Geological mapping revealed the presence of two parallel mineralized zones extending for at least 250 metres on the Rich 3 claim. These zones vary in thickness from 10 centimetres to 2.0 metres.
WORK DONE: LINE 1.5 km

SAMP 11:multielement
DIAD 46.9 m;2 holes,AX
SOIL 55:multielement
ROCK 25:multielement
GEOL 1:1000
REFERENCES: A.R. 00114,07952,09344
M.I. 104P 026-LOW GRADE;104P 046-RICH

**** Goldbreak ****

MINING DIV: *** ASSESSMENT REPORT 15495 INFO CLASS 4
LOCATION: LAT. 59 25 06 LONG. 129 31 36 NTS:
CLAIMS: Goldbreak 18
OPERATOR: Markovina, N.
AUTHOR: McCrossan, E.; Pawliuk, D.
DESCRIPTION: The claim is underlain by Lower-Middle Cambrian Atan Group and Proterozoic Good Hope Group rocks. The property is on the southwestern limb of a large anticlinorium. Brecciated Atan Group limestone along faults is cemented by calcite. Iron oxides locally coat fracture surfaces within the fault breccias.
WORK DONE: ROCK 6;multielement
GEOL 1:10 000
REFERENCES:

**** Goldbreak 13 ****

MINING DIV: Liard ASSESSMENT REPORT 15662 INFO CLASS 4
LOCATION: LAT. 59 26 00 LONG. 129 30 30 NTS:
CLAIMS: Goldbreak 13
OPERATOR: Ore-Ram Min.
AUTHOR: McCrossan, E.; Pawliuk, D.
DESCRIPTION: The Goldbreak 13 claim is underlain by Lower to Middle Cambrian Atan Group sedimentary rocks consisting of limestone and quartzite with minor siltstone and slate. The property is on the southwestern limb of a large anticlinorium. Rocks on the property strike northwesterly and dip southwest. Calcite veins up to 15 centimetres wide intrude limestone. Local iron oxides are present.
WORK DONE: ROCK 18;multielement
PROS 1:10 000
REFERENCES:

**** Goldbreak 17 ****

MINING DIV: *** ASSESSMENT REPORT 15663 INFO CLASS 4
LOCATION: LAT. 59 24 00 LONG. 129 33 00 NTS:
CLAIMS: Goldbreak 17
OPERATOR: Ore-Ram Min.
AUTHOR: McCrossan, E.; Pawliuk, D.
DESCRIPTION: The Goldbreak 17 claim is underlain by Lower to Middle Cambrian Atan Group sedimentary rocks consisting of limestone and quartzite with minor siltstone and slate. The property is on the southwestern limb of a large anticlinorium. Calcite veins intrude limestone within the property. No sulphide minerals were observed.
WORK DONE: PROS 1:10 000
ROCK 7;multielement

REFERENCES:

**** Goldbreak 27 ****

MINING DIV: Liard ASSESSMENT REPORT 15667 INFO CLASS 4
LOCATION: LAT. 59 22 00 LONG. 129 33 00 NTS:
CLAIMS: Goldbreak 27
OPERATOR: Ore-Ram Min.
AUTHOR: Pawliuk, D.
COMMODITIES: Copper,Silver,Gold,Lead,Zinc
DESCRIPTION: The Goldbreak 27 claim is underlain by Paleozoic marine rocks. Northwest trending, southwest dipping quartzite and phyllite are exposed in the north-central part of the property. The property is on the southwestern limb of a large anticlinorium. Discontinuous quartz veins up to 25 centimetres wide within brecciated quartzite contain local chalcopyrite, pyrite, malachite and azurite, with associated silver.
WORK DONE: PROS 1:10 000
ROCK 12;multielement
REFERENCES: M.I. 104P 096-GOLDBREAK 27

**** Goldbreak ****

MINING DIV: *** ASSESSMENT REPORT 15631 INFO CLASS 4
LOCATION: LAT. 59 25 00 LONG. 129 25 00 NTS:
CLAIMS: Goldbreak 20
OPERATOR: Chelan Res.
AUTHOR: Falconer, J.; Graham, J.C.
DESCRIPTION: T¢Che claim is underlain by the Proterozic Good Hope Group and Lower Cambrian Atan Group sedimentary sequences. The units are composed of limestone, shale and quartzite trending northwesterly and apparently dipping steeply to the southwest.
WORK DONE: MAGA 74.7 km
EMAB 74.7 km;VLF
REFERENCES:

**** Goldbreak 10 ****

MINING DIV: Liard ASSESSMENT REPORT 15664 INFO CLASS 4
LOCATION: LAT. 59 27 30 LONG. 129 26 00 NTS:
CLAIMS: Goldbreak 10
OPERATOR: Markovina, N.
AUTHOR: McCrossan, E.; Pawliuk, D.
DESCRIPTION: The Goldbreak 10 claim is underlain by Lower to Middle Cambrian Atan Group sedimentary rocks consisting of limestone and quartzite with minor siltstone and slate. The property is on the southwestern limb of a large anticlinorium. Brecciated limestone along faults is cemented by calcite. Limonitic iron oxides occur along fracture surfaces within the breccias.
WORK DONE: ROCK 8;multielement
PROS 1:10 000
REFERENCES:

**** Goldbreak 14 ****

MINING DIV: *** ASSESSMENT REPORT 15661 INFO CLASS 4
LOCATION: LAT. 59 26 00 LONG. 129 29 00 NTS:
CLAIMS: Goldbreak 14
OPERATOR: Ore-Ram Min.
AUTHOR: McCrossan, E.; Pawliuk, D.
DESCRIPTION: The Goldbreak 14 claim is underlain by Lower to Middle Cambrian Atan Group sedimentary rocks. The Atan Group consists of limestone and quartzite with minor siltstone and slate. The property is on the northeastern limb of a large anticlinorium. Calcite and local limonitic iron oxides occur within brecciated limestone.
WORK DONE: ROCK 8;multielement
GEOL 1:10 000
PROS 1:10 000
REFERENCES:

**** Goldbreak 19 ****

MINING DIV: Liard ASSESSMENT REPORT 15829 INFO CLASS 3
LOCATION: LAT. 59 24 00 LONG. 129 29 00 NTS:
CLAIMS: Goldbreak 19
OPERATOR: Melissa Res.
AUTHOR: McCrossan, E.; Pawliuk, D.
DESCRIPTION: Lower to Middle Cambrian Atan Group limestone, quartzite, siltstone, shale and slate underlie the northeastern Goldbreak 19 mineral claims; these rocks strike southeasterly, dip to the northeast and conformably overlie Proterozoic Good Hope Group limestone, dolomite, quartzite, siltstone, slate and shale. Brecciated rock created by thrust faulting has been bleached and iron-stained. Rock samples contain low metal values.
WORK DONE: ROCK 43;multielement
GEOL 1:5000
LINE 23.4 km
MAGA 11.6 km
MAGG 17.1 km
EMGR 17.1 km;VLF
EMAB 11.6 km
REFERENCES:

**** Goldbreak 33 ****

MINING DIV: *** ASSESSMENT REPORT 15666 INFO CLASS 4
LOCATION: LAT. 59 21 00 LONG. 129 25 00 NTS:
CLAIMS: Goldbreak 33
OPERATOR: Markovina, N.
AUTHOR: Pawliuk, D.
DESCRIPTION: The Goldbreak 33 claim is underlain by Proterozoic Good Hope Group and Lower Cambrian Atan Group quartzite, limestone and phyllite. The property is on the southwestern limb of a large anticlinorium; bedding strikes northwest and dips southwest. Limestone has been brecciated and recrystallized along fault zones. Calcite veins range up to 25 centimetres wide and 7 metres in

length; local iron oxides are present.
WORK DONE: ROCK 17;multielement
PROS 1:10 000
REFERENCES:

**** Goldbreak 9 ****

MINING DIV: Liard ASSESSMENT REPORT 15665 INFO CLASS 4
LOCATION: LAT. 59 27 30 LONG. 129 29 00 NTS:
CLAIMS: Goldbreak 9
OPERATOR: Markovina, N.
AUTHOR: Pawliuk, D.
DESCRIPTION: The Goldbreak 9 claim is underlain by Lower to Middle Cambrian Atan Group sedimentary rocks consisting of limestone and quartzite with minor siltstone and slate. The property is on the southwestern limb of a large anticlinorium. Calcite occurs in breccias along steep northeasterly trending faults within limestone. Calcite veins up to 100 centimetres wide are present. No sulphides were observed.
WORK DONE: PROS 1:10 000
ROCK 16;multielement
REFERENCES:

**** Judo ****

MINING DIV: *** ASSESSMENT REPORT 15558 INFO CLASS 4
LOCATION: LAT. 59 18 42 LONG. 129 23 54 NTS:
CLAIMS: Judo 1,Judo 2
OPERATOR: Colony Pacific Ex.
AUTHOR: Hall, B.
COMMODITIES: Lead,Zinc,Silver,Antimony,Bismuth,Cadmium
DESCRIPTION: Minor galena-tetrahedrite mineralization is exposed in a number of trenches. Although the grades are significant, the widths are narrow. Hosting the mineralization are carbonates of the Precambrian Espee and Stelkuz Formations.
WORK DONE: ROCK 5;multielement
GEOL 1:200
TREN 470.0 m;8 trenches
SAMP 34;multielement
SOIL 4;multielement
ROAD 4.5 km
REFERENCES: A.R. 13688,14847
M.I. 104P 095-JUDO

**** Hyland River Gold ****

MINING DIV: Liard ASSESSMENT REPORT 15820 INFO CLASS 3
LOCATION: LAT. 59 55 00 LONG. 128 10 00 NTS:
CLAIMS: PL 1608-1611,PL 7845-46,PL 7849,PL 12275-76,PL 7848
OPERATOR: Baha Res.
AUTHOR: Von Rosen, G.
COMMODITIES: Placer Gold
DESCRIPTION: Fine grained gold has been extracted from bars along the Hyland River below the Alaska Highway bridge.
WORK DONE: MAGG 5.2 km

REFERENCES: M.I. 104P 109-HYLAND RIVER GOLD PLACER

Tatshenshini River 114P

**** Low Herbert,Herbert West,Grizzly Heights ****

MINING DIV: Atlin ASSESSMENT REPORT 15845 INFO CLASS 2
LOCATION: LAT. 59 20 36 LONG. 136 34 18 NTS:
CLAIMS: Jarvis 8,Jarvis 10-11,Jarvis 15-17,Tsirku 1-4,Tsirku 7-8,Tsirku 11
OPERATOR: Freeport Res.
AUTHOR: Perkins, D.
COMMODITIES: Gold,Silver,Copper,Zinc,Lead
DESCRIPTION: A volcaniclastic and sedimentary package carrying galena, sphalerite, barite and occasional high gold and silver values has been traced in Triassic pillow basalts.
WORK DONE: SAMP 460;multielement
DIAD 1499.6 m;9 holes,NQ
GEOL 1:1000,1:300
REFERENCES: A.R. 12629
M.I. 114P 062-HERBERT WEST;114P 064-LOW HERBERT;114P 068-GRIZZLY HEIGHTS

**** O'Connor Gypsum ****

MINING DIV: *** ASSESSMENT REPORT 15682 INFO CLASS 3
LOCATION: LAT. 59 38 48 LONG. 136 43 12 NTS:
CLAIMS: Gyp,Sum
OPERATOR: Queenstake Res.
AUTHOR: Philpot, M.; Rodgers, G.
COMMODITIES: Gypsum
DESCRIPTION: Gypsum is discordant within Upper Paleozoic carbonate sediments. The gypsum appears to be Tertiary in age and is contained or bounded by amphibolite, tuff and quartz-feldspar porphyry.
WORK DONE: DIAD 690.0 m;8 holes,NQ,BQ
SAMP 294;multielement
GEOL 1:1000
REFERENCES: M.I. 114P 005-O'CONNOR GYPSUM

**** Sam Main Glacier,Sam North Glacier ****

MINING DIV: Atlin ASSESSMENT REPORT 15680 INFO CLASS 4
LOCATION: LAT. 59 42 00 LONG. 136 52 00 NTS:
CLAIMS: Sam 3-4
OPERATOR: Noranda Ex.
AUTHOR: Copland, H.; Reid, W.
COMMODITIES: Copper,Lead,Zinc,Silver,Gold
DESCRIPTION: The claims are underlain by variably altered limestone, mafic volcanic rocks and fine-grained sedimentary rocks. These have all been thermally altered to some degree. The mineralization of most interest is found in glacial float and consists of banded copper-lead-zinc rich skarn. Values up to 4.1 grams per tonne gold were found in selected high grade copper mineralization. The source of the mineralization is presumably under the glacier.
WORK DONE: ROCK 5;Cu,Pb,Zn,Ag,Au,As

PROS 1:5000
REFERENCES: A.R. 10887,11597,14639
M.I. 114P 047-SAM NORTH GLACIER;114P 048-SAM MAIN GLACIER

**** Barbican Mount,Pampero Ridge ****

MINING DIV: *** ASSESSMENT REPORT 15426 INFO CLASS 3
LOCATION: LAT. 59 42 06 LONG. 137 36 36 NTS:
CLAIMS: Rime 1,Rime 3-7,Rime 11-12,Rime 14-15
OPERATOR: Newmont Mines
AUTHOR: Kennedy, D.; Vogt, A.
COMMODITIES: Silver,Copper,Gold,Zinc
DESCRIPTION: The claims are underlain by Upper Triassic intermediate to mafic submarine volcanic rocks with variable amounts of interbedded calcareous argillites and Early to Middle Paleozoic clastics and carbonates. Mineralization consists of auriferous finely bonded layers of pyrrhotite, chalcopyrite and pyrite occurring in black, calcareous argillite. The exploration surveys resulted in extension of known mineralization and the location of numerous sulphide occurrences.
WORK DONE: GEOL 1:2000,1:1000
LINE 24.3 km
PETR 5 thin sections
SOIL 26;multielement
ROCK 202;multielement
EMGR 22.5 km;VLF
MAGG 22.5 km
REFERENCES: A.R. 05841,09360,09516,11500,12225,13501
M.I. 114P 035-BARBICAN MOUNT;114P 053-PAMPERO RIDGE

**** Tats ****

MINING DIV: Atlin ASSESSMENT REPORT 15600 INFO CLASS 4
LOCATION: LAT. 59 39 30 LONG. 134 43 30 NTS:
CLAIMS: WC 14
OPERATOR: Geddes Res.
AUTHOR: McDougall, J.
COMMODITIES: Copper,Silver,Cobalt,Zinc
DESCRIPTION: The claims are underlain by Triassic metavolcanics and minor metasediments cut by a quartz diorite stock. Steep northerly dipping, northwesterly striking bands of highly pyritized and chloritic rocks, generally fault (?) segments, are mineralized in places with chalcopyrite, magnetite, pyrite and pyrrhotite. The drill program adequately tested the horizontal extent of mineralization across one pyritic band but failed to penetrate to the desired depth.
WORK DONE: DIAD 37.5 m;4 holes,EX
SAMP 18;Au,Ag,Cu,Co
REFERENCES: A.R. 09815,10741,11500,11501,12821
M.I. 114P 003-TATS

**** Squaw Creek Placer,Sheep ****

MINING DIV: *** ASSESSMENT REPORT 15963 INFO CLASS 3
LOCATION: LAT. 59 59 24 LONG. 137 04 18 NTS:
CLAIMS: Avalanche,Julie 1,Muncaster,Nancy 1,Snowcave

OPERATOR: Arbor Res.
AUTHOR: Podolski, G.
COMMODITIES: Gold,Copper
DESCRIPTION: The claims overlie the northwest trending Duke River Fault which follows Squaw Creek. East of the fault are Upper Triassic metasediments and metavolcanics cut by Cretaceous diorite and granodiorite stocks. West of the fault are Upper Paleozoic (?) limestones, argillites and minor siltstones intruded by gabbro and diabase sills.
WORK DONE: EMAB 100.0 km;VLF,HLEM
MAGA 100.0 km
REFERENCES: A.R. 14742
M.I. 114P 004-SQUAW CREEK PLACER;114P 021-SHEEP

COAL EXPLORATION

COAL EXPLORATION

GROUNDHOG COALFIELD

C1) MOUNT KLAPPAN:

LOCATION: Lat. 57°06' Long. 128°37' NTS 104H/2, 3,6,7,
Lat. 57°23' Long. 129°15'
LICENCES: 7118-7177, 7381-7392, 7416-7432, 7487-7539,
7559-7561, 7714-7757, 8032-8053
OWNER: Gulf Can. Res.
OPERATOR: Gulf Can. Res.
DESCRIPTION: The main coal seams occur in the tentatively named Middle Klappan Sequence of the Upper Jurassic to Lower Cretaceous sediments. The structure is complex largely due to a strong thrust from the southwest. Upright open folds occur and become progressively overturned in the northwest. Drilling took place in the general area of the proposed pit.
WORK DONE: DIAD 5000m; 34 holes
Geophysical logs
Geol. detailed mapping
REFERENCES: Geol. Fieldwork 1983-81-90; 1984-432-351
Expl. in B.C. 1983-571; 1984-425; 1986-C476

PEACE RIVER COALFIELD

C3) QUINTETTE:

LOCATION: Transfer
Lat. 55°00' Long. 121°06' NTS 93J/14E,93P/3E
Grizzly
Lat. 55°00' Long. 121°04' NTS 93P/3E
Perry Creek
Lat. 55°05' Long. 121°17' NTS 93P/3
LICENCES: Transfer 3341, 3660, 3661, 7849
Grizzly 7845, 7847, 7848
Perry Creek 3601, 3602, 3604, 3605

QUINTETTE (cont'd)

OWNER: Quintette Coal
OPERATOR: Denison Mines
DESCRIPTION: TRANSFER:

1) The five minable seams are found in the middle member of the Gates formation and total some 16.0 metres. In the Transfer area there is a syncline/anticline pair with some minor thrust faulting along this southwest limb of the syncline.

WORK DONE: DIAD 1254m; 8 holes
ROTD 5061m; 46 holes
Adits 3
Geophysical logs

GRIZZLY:

2) The structure is a continuation of the Shikano anticline. The aggregate thickness of the five minable seams is reduced to about 12 metres.

WORK DONE: DIAD 545m; 4 holes
ROTD 3063m; 21 holes
Adits 3
Geophysical logs

PERRY CREEK:

3) The Gates formation coal measures are preserved in an asymmetrical N.W. - S.E. trending syncline. J_1 and J_2 SEAMS (corresponding to the Teck Bullmoose Mine to the north) have an aggregate thickness of 7.5 metres.

WORK DONE: ROTD 260 m; 5 holes
Geophysical logs

REFERENCES: N.E. Coal Study 1977-37-42
Coal in B.C. 1976-164-167
Coal in B.C. 1986 -3
Expl. in B.C. 1976-E219; 1977-E270-E271; 1979-352; 1980-562; 1982-426; 1983-574; 1984-428

C2) BULLMOOSE: (**PEACE RIVER** cont'd)

LOCATION: Lat. 55°07' Long. 121°31' NTS 93P/3,4,
LICENCES: Coal Lease No. 6
OWNERS: Canada Trustco Mortgage Co.
OPERATOR: Teck-Bullmoose
DESCRIPTION: A broad relatively shallow northwest-trending syncline occupies essentially all of the Bullmoose property. The western limb in the northern part is the eastern limb of the anticline on the Chamberlain property. Coal measures in the Gates formation contain two different seams. Within the Gething formation both the Bird and Chamberlain seams occur as well-developed coal intervals. The target area was at the S.W. end of the pit. The only seam of significance encountered was the Bird with an average thickness of about 3 metres.
WORK DONE: ROTD 476 m; 13 holes
Geophysical logs
REFERENCES: B.C. Ministry of Energy, Mines and Pet. Res. Northeast Coal Study, Report on Coal Resource Evaluation Studies, Jan. 1977, pp. 31-34;
B.C. Ministry of Energy, Mines & Pet. Res., Coal in B.C., A Technical Appraisal, 1976, pp. 204, 205;
B.C. Ministry of Energy, Mines & Pet. Res., Coal in B.C., 1986-3;
B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1976, p. E221; 1977, p. E272; 1979, p. 356,357.

ELK VALLEY COALFIELD

C4) FORDING RIVER:

LOCATION: Lat. 50°12' Long. 114°50' NTS 82J/2W
LICENCES: 330, 332, 336, 342, 356-358, 511, Leases 1, 2, 5
OWNER: Fording Coal
OPERATOR: Fording River Operations
DESCRIPTION: Fording River property is underlain by the Greenhills syncline in the west and the parallel Alexander Creek syncline in the east. They are separated by the Erickson normal fault. The east limb of the Greenhills syncline has a shallow dip to the west and is the focus of exploration and production in the Greenhills range part of the property. The east limb of the Alexander Creek syncline on average is the steeper (dips in places exceed 45 degrees to the west) and is considerably thickened by westerly dipping thrust faults. Production and exploration on Eagle Mountain are within the Alexander Creek syncline. The coal-bearing Mist Mountain formation is approximately 450 metres thick and contains roughly 10 coal seams, many of which consist of two or more separate benches over part of the property. Seams on Eagle Mountain are numbered upward from 1-seam at the base to 15-seam at the top of the formation. Rank of coals varies from medium-volatile to high-volatile A bituminous.
WORK DONE: DIAD 877 m; 2 holes
ROTD 3382m; 12 holes
Geophysical logs
REFERENCES: Coal in B.C. 1976-191
Expl. in B.C. 1975-E214-E215; 1976-E215; 1977-E263-E264; 1978-303; 1979-347; 1982-428-429; 1985-C425

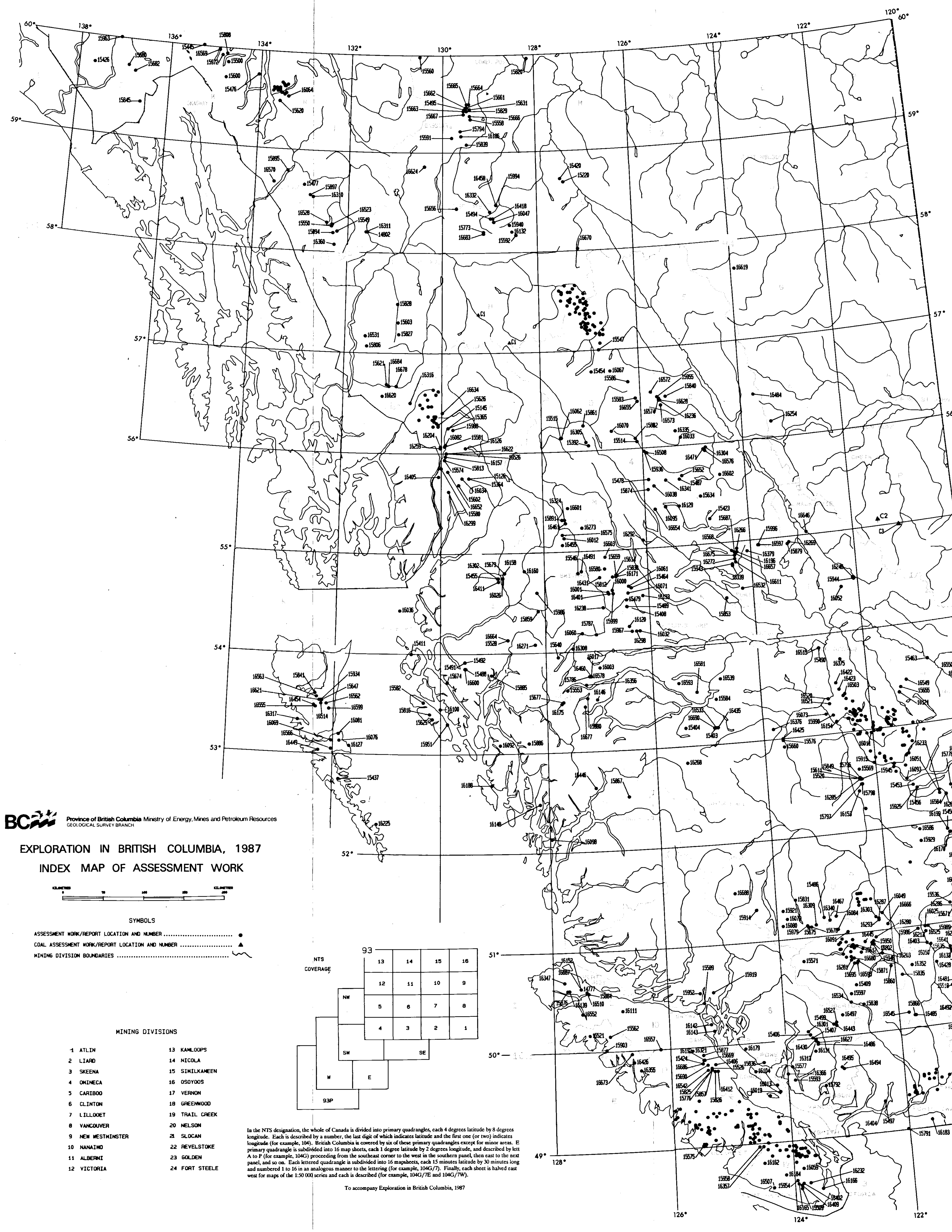
C5) GREENHILLS:

LOCATION:	Lat. 50°08' Long. 114°53' NTS 82J 2W
LICENCES:	Freehold
OWNERS:	B.C. Resources Investment Corp.
OPERATORS:	Westar Mining
DESCRIPTION:	The area is underlain by the asymmetrical Greenhills syncline, the east limb of which has a shallow dip to the west. The coal seams occur in the Mist Mountain formation, only a few of the 29 known coal seams on the property are economic, and of these, the lower seams 1, 7 & 10 are medium volatile bituminous in rank.
WORK DONE:	Greenhills north end ROTD 4381 m; 28 holes Greenhills, Big Horn Pit ROTD 1323 m; 11 holes

C6) LINE CREEK & C7) LINE CREEK EXTENSION & HORSESHOE RIDGE:

LOCATION:	Lat. 49°51' Long. 114° 46' NTS 82G 15W
LICENCES:	293, 295, 296, 297, 369, 373
OWNERS:	Shell Canada Resources Ltd.
OPERATORS:	Crows Nest Resources Ltd.
DESCRIPTION:	The property is situated on the relatively simple Alexander Creek syncline. The Mist Mountain formation contains seven coal seams thicker than 2.8 metres and have an aggregate thickness of up to 55 metres. The seams range from low to medium-volatile bituminous in rank. Exploration was carried out in i) The lower south pit area on the west limb of the syncline and ii) Line Creek extention, on the west limb of the syncline and iii) Horseshoe Ridge area on the east limb of the syncline
WORK DONE:	i) DIAD 745m; 6 holes ROTD 6095m; 52 holes ii) DIAD 1120m; 13 holes ROTD 5245m; 69 holes iii) ROTD 1944m; 15 holes Geophysical logs
REFERENCES:	Geol. Fieldwork, 1982, pp.20-26, Coal in B.C., 1986-3, p. 25.

INDICES TO PART C



Province of British Columbia Ministry of Energy, Mines and Petroleum Resources
GEOLOGICAL SURVEY BRANCH

EXPLORATION IN BRITISH COLUMBIA, 1987

INDEX MAP OF ASSESSMENT WORK

KILOMETRES 0 50 100 150 200 KILOMETRES

SYMBOLS

ASSESSMENT WORK/REPORT LOCATION AND NUMBER ●
COAL ASSESSMENT WORK/REPORT LOCATION AND NUMBER ▲
MINING DIVISION BOUNDARIES

NTS COVERAGE

MINING DIVISIONS

1	ATLIN	13	KAMLOOPS
2	LIARD	14	NICOLA
3	SKEENA	15	SIMILKAMEEN
4	OMINECA	16	OSOYOOS
5	CARIBOO	17	VERNON
6	CLINTON	18	GREENWOOD
7	LILLOOET	19	TRAIL CREEK
8	VANCOUVER	20	NELSON
9	NEW WESTMINSTER	21	SLOCAN
10	NANAIMO	22	REVELSTOKE
11	ALBERNI	23	GOLDEN
12	VICTORIA	24	FORT STEELE

In the NTS designation, the whole of Canada is divided into primary quadrangles, each 4 degrees latitude by 8 degrees longitude. Each is described by a number, the last digit of which indicates latitude and the first one (or two) indicates longitude (for example, 104). British Columbia is covered by six of these primary quadrangles except for minor areas. E primary quadrangle is subdivided into 16 map sheets, each 1 degree latitude by 2 degrees longitude, and described by lett A to P (for example, 104G) proceeding from the southeast corner to the west in the southern panel, then east to the next panel, and so on. Each lettered quadrangle is subdivided into 16 mapsheets, each 15 minutes latitude by 30 minutes long and numbered 1 to 16 in an analogous manner to the lettering (for example, 104G/7). Finally, each sheet is halved east west for maps of the 1:50 000 series and each is described (for example, 104G/7E and 104G/7W).

To accompany Exploration in British Columbia, 1987

A.R. PAGE PROPERTY NAME

NTS 082

NTS 082E01

15436	C14	Bonanza Fr.
15448	C13	Basic
15554	C14	Hek,Lucky John
15627	C13	Castle
16066	C14	Hek,Lucky John
16123	C15	Mono
16214	C15	Sara
16358	C13	Castle

NTS 082E02

15435	C19	Winner
15538	C16	Combination (L1458)
15596	C16	Crown
15607	C19	Bee
15641	C16	Eagle
15892	C18	Sunnyside,Fanny Joe
15900	C19	W2
15905	C18	Rb 1
16090	C17	Golden Crown,Winnipeg
16177	C15	Beau
16215	C18	Sappho (Cabin)
16417	C17	Lexington,City of Paris
16543	C17	Hamilton

NTS 082E03

14877	C23	Rohne Fr. (L.2676),Chukar
15405	C20	Ho
15519	C21	Lou
15918	C21	Leona
16074	C23	Kruger
16168	C20	Gold Hill
16172	C19	Belair
16290	C21	Jolly
16325	C20	Fontenoy
16493	C22	Miny
16653	C22	Victoria-Old England
16671	C22	WS,Boomerang

NTS 082E04

1987 ①