

Exploration in British Columbia

1975

British Columbia Ministry of Mines and Petroleum Resources



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PREFACE

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 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 and 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, in 1969 because of the size to which the Annual Report had grown, it was decided 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. *Geology, Exploration and Mining in British Columbia, 1975* will introduce a revised format 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 to be issued are: *Geology in British Columbia, 1975* — a record of the mapping and research of the Geological Division; *Exploration in British Columbia, 1975* — a record of the performance of the industry in exploration, and *Mining in British Columbia, 1975* — a record of mining in British Columbia and incorporating the Chief Inspector's report. Some parts of the latter that are of restricted interest will be omitted in the final bound volume.

ORGANIZATION

The order of sections in the bound volume is Mining, Exploration, and Geology and the reports that form the body of each section are arranged, where present, in the following order: lode metals, placer, structural materials and industrial minerals, and coal. Introductory statements precede the body of most parts of each section. These are not to be gathered together as a general review of the industry in the final bound volume.

Two maps (Figs. M-1 and M-2) showing the major producing mines are included in *Mining*. One showing the distribution of explored properties is in the pocket of *Exploration* (Fig. E-1).

All reports are arranged sequentially according to National Topographic System map designation. 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. Each primary quadrangle is subdivided into 16 map-sheets, each 1 degree latitude by 2 degrees longitude, and described by letters 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 map-sheets, each 15 minutes latitude by 30 minutes longitude and numbered 1 to 16 in an analogous manner to the lettering (for example, 104G/7). Finally each sheet is halved east and west for maps of the 1:50 000 series and each is described, for example, 104G/7E and 104G/7W.

The reports proceed by primary quadrangle from the southeastern part of the Province to the northwestern part. Within each primary quadrangle the order proceeds from A/1E to A/1W to A/2E, and sequentially to P/16E. In some instances, exceptions are made so that adjacent prospects are not widely separated.

An index to published base maps and air photographs may be obtained from the Lands Service, Department of the Environment.

SOURCES OF INFORMATION

A considerable amount of information in the following reports was supplied by mining and exploration companies. Their cooperation in completing and returning exploration questionnaires for each of the properties on which they worked is gratefully acknowledged by the Department and should be greatly appreciated by all users of this report. In some instances this information is augmented by staff geologists or mine inspectors.

Geological, geophysical, geochemical, drilling, and prospecting reports accepted for credit as assessment work contain a large amount of valuable information. The results of work presented in assessment reports that were accepted by April 1, 1976 are summarized and published herein. The last report summarized is Assessment Report 5738. Assessment reports accepted after April 1, concerning properties for which exploration questionnaires have already been submitted to the Department, are entered as references on the property write-ups until this manuscript is finalized for publication. Reports accepted in 1975 for

work done in 1974 are not summarized if the work was previously reported on exploration questionnaires. Because of this policy, not all assessment reports appear as references. Assessment Reports are available for study or for duplication at cost one year after the date of their submission.

Geologists and engineers on the staff of the Mineral Resources Branch prepare reports on mineralized areas, deposits, and mines which, in particular, form the body of *Geology in British Columbia* and much of *Mining in British Columbia*.

LOCATIONS

In this report a description of the property location is given as well as the latitude and longitude and NTS designation of the 1:50 000 map-sheet in which the property lies. The latitude and longitude given is either the centre of the property or the area of major work. NTS designation is that of the main showing(s) or for the majority of the claims. In cases where claims are located in more than one NTS sheet, several NTS designations are given.

NAMES

Most often the name or names given to a property are those used for the Mineral Inventory. This is often the name by which the property was originally or formerly known (for example, Glacier Gulch, Magnum). Sometimes the name or names are those of one or more of the claims that constitute the group; occasionally a name is used which is derived from the name of the company owning the property (for example, Bralorne, Granisle). Where established to a reasonable degree of confidence, the Mineral Inventory number, which appeared after the property name in 1974, has been included with the references (for example, MI 82E/SE-1). Where practicable, all names of claims comprising a property are given under the heading 'Claims.'

OWNERSHIP

Wherever possible the owner (or owners) of the claims reported is stated. For located claims the owner is taken directly from Departmental records at the time the manuscript is being prepared. Unrecorded bills of sale and outstanding option agreements sometimes make it impossible to determine the owner at a given date. For Crown grants, unless an extensive search is made, it is sometimes impossible to be certain of their ownership.

In instances when the operator (the company or individual for whom the work was done or who paid for it) is known but the owner is uncertain, then only the operator is recorded; when the owner is also the operator, then only the owner is recorded; and when the owner is not the operator and both are known, then both are recorded.

METALS EXPLORATION

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REVIEW OF EXPLORATION AND PROSPECTING

By A. Sutherland Brown and N. C. Carter

The indices of exploration for metals are uniformly lower in 1975 than in 1974 as is shown in Table E-1 to Table E-3. Table E-1 shows exploration expenditure, claims recorded, etc., from various departmental sources for an 8-year period. Table E-3 is a summary of information on metal exploration from this volume arranged by NTS quarter quadrangle against the type and amount of work.

TABLE E-1

	1968	1969	1970	1971	1972	1973	1974	1975
Exploration expenditure*	\$35,000,000	\$44,400,000	\$46,000,000	\$39,100,000	\$38,200,000	\$37,300,000	\$25,400,000	\$22,100,000
Number of companies*	389	422	481	407	389	352	228	121
Average exploration expenditure per company . . .	89 974	105 161	96 361	95 945	98 226	106 072	111 404	182 701
Claims recorded	60 384	84 665	69 546	57 778	78 901	35 659	16 971	11 751†
Certificates of work	66 229	88 954	118 633	106 704	97 573	128 641	48 071	39 403
Free miners' certificates —								
Individual	9 305	9 880	10 034	9 351	9 032	7 084	9 998	8 484
Companies	761	1 060	911	930	927	563	700	562
Average copper price (cents per pound)	54.2	66.7	58.7	46.7	44.8	83.23	85.44	\$1.283/kg (58.2 ¢/lb.)

*From returns to Mineral Development Division, Department of Mines and Petroleum Resources.

†Unit modified grid system.

The indices shown in Table E-1 mostly show a drop, ranging from 32 to 13 per cent except for average expenditure per company. This anomaly results because the number of companies exploring was down by almost 50 per cent.

Table E-2 shows detailed exploration expenditures for 1974 and 1975 expended on metals, coal, and other commodities, classified as to the type of expense. This table is prepared by the Economic and Statistics Section of the Department from questionnaires issued jointly with Statistics Canada. It shows total exploration up because of the large increase in coal exploration in contrast to the 13 per cent drop in metals exploration.

TABLE E-2. EXPLORATION EXPENDITURES, 1974 AND 1975

	Physical Work and Surveys \$	Administration, Overhead, Land Costs, Etc. \$	Construction, Machinery and Equipment, Other Capital Costs \$	Totals \$
Exploration other than at mines:				
Metals —				
1974	18,773,326	6,525,878	128,144	25,427,348
1975	16,366,152	5,298,367	442,327	22,106,846
Coal —				
1974	3,450,746	884,849	18,958	4,354,553
1975	9,955,507	3,057,843	---	13,013,350
Others —				
1974	42,706	11,134	---	53,840
1975	90,025	35,679	---	125,704
Totals —				
1974	22,266,778	7,421,861	147,102	29,835,741
1975	24,532,596	8,246,889	442,327	33,221,812

Table E-3 is constructed from returns to questionnaires mailed by the Geological Division to the Industry, augmented where warranted by information from Assessment Reports and reports of departmental personnel. The data in Table E-3 is stated in metric units this year making direct comparison difficult. Most items are lower than in 1974, however the number of properties at 409, seemingly down 12 per cent from 464, really reflects the separation of exploration at mines from other properties that has occurred as a result of the new organization of this volume. In addition, some types of work shown in Table E-3 are up, for example, rock geochemistry, trenching, rotary drilling, ground electro-magnetic, and prospecting reports. However, most types of work were down. For example, drilling of all sorts in 1975 totalled 92 802 metres, slightly less than 50 per cent of 192 935 metres drilled in 1974.

By applying reasonable cost factors to the physical work shown in Table E-3, an estimation of the total expenditure would come to \$12.5 million or about three-quarters of the total exploration costs from Table E-1, probably a reasonable percentage as grassroots exploration and some other expenditures are scarcely represented in Table E-3.

In 1975, 445 geological, geophysical, geochemical, drilling, and prospecting reports were accepted for assessment credit. Together they represent not less than \$8,481,607 of work including drilling.

TABLE E-3. SUMMARY OF EXPLORATION EFFORT*

NTS	No. of Properties	Geological Mapping (No. of surveys)	Geophysical Surveys				Geochemical Surveys		Physical			Drilling				Linecutting (line-kilometres)	Road (metres)	Prospecting (No. of Assessment Reports)
			Airborne (line-kilometres)	Induced Polarization (line-kilometres)	Ground EM + Others (line-kilometres)	Ground Magnetometer (line-kilometres)	Soil and Silt (No. of samples)	Rock Chip (No. of samples)	Trenching (metres)	Stripping (square metres)	Underground Work (metres)	Surface D.D. (metres)	Rotary (metres)	Percussion (metres)	Underground D.D. (metres)			
82/SE	8	---	---	5	50	50	---	---	---	---	---	1 939	60	---	---	---	0.2	---
82/SW	52	23	u	18.6	202.2	153.9	8 655	590	264.4	2 073	2 200	3 457.2	---	2 816	1 028	115	30	3
82/NW	40	12	---	9.2	176.4	80.7	6 539	210	3 762	80	375	13 019.4	u	54	1 370.4	128.1	10.8	9
82/NE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
83/SW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
92/SE	47	19	---	1.4	45	34.2	4 250	155	2 280	---	---	5 849.8	218.2	357	---	15.8	15	2
92/SW	30	10	u	52.4	49.8	81	2 024	50	53	---	---	2 066.6	---	---	---	50	---	6
92/NW	17	9	---	30.4	39.2	107.8	2 053	70	675	588	---	1 347	---	---	---	44.3	1	2
92/NE	54	23	---	275	85	365	7 700	550	270	127	14	4 567.3	476	3 091.8	---	210.9	7.8	2
93/SE	18	6	---	---	58.2	70	1 727	820	570	60	641	1 393	---	1 437	1 982	16.3	8.6	4
93/SW	11	5	---	136.8	19.6	225	1 983	145	18.6	---	---	1 836.6	---	2 917	---	80.8	9.7	---
93/NW	38	9	---	210.3	27.8	249.4	4 374	203	5 627	5 000	---	10 562.5	---	5 040	---	292.6	29.7	2
93/NE	2	2	---	2.5	---	---	118	---	---	---	---	---	---	---	---	---	---	---
94/SE	12	10	---	8	---	---	2 460	53	---	---	---	1 262	---	---	---	---	---	4
94/SW	25	10	350.6	46.3	---	96	3 261	153	194.4	---	---	7 718	---	---	---	99.2	5.2	2
94/NW	2	2	---	---	23.7	23.7	754	---	67	---	---	---	---	---	---	---	---	---
94/NE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
103/SE	6	1	---	u	18.4	---	4 560	---	99	---	---	194	---	---	1 050	23.6	---	---
103/SW	2	1	---	---	---	---	---	---	---	---	---	690	---	60	---	0.4	0.6	---
103/NW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
103/NE	5	5	---	3.8	---	---	39	---	9	---	6	---	---	---	624.9	---	---	---
104/SE	19	16	---	13.5	165.2	159.6	844	711	720.6	---	---	7 705	---	1 773	---	130.8	1	---
104/NW	1	5	---	---	---	---	---	u	---	---	---	---	---	---	---	---	---	---
104/NE	14	9	163	u	202	---	1 036	---	---	---	---	4 257	---	204	364.3	0.7	1	2
114/NE	6	4	---	---	325	325	---	---	200	---	---	14	---	---	---	200	---	---
TOTAL	409	181	513.6	813.2	1 487.5	2 021.3	52 377	3 710	14 810	7 928	3 236	67 878.4	754.2	17 749.8	6 419.6	1 408.5	120.6	34

*From Geological Division sources.

DISTRIBUTION OF EXPLORATION

The areal distribution of exploration work on metallic mineral properties in 1975 and 1974 can be compared by referring to the two maps of the Province (Figs. E-2 and E-3). These are prepared as in previous years and it should be noted that although they are capable of showing changes in distribution readily, they do not show changes in total number. Such changes can be seen in the table which shows most areas are down somewhat except for 92/SW (southwest Vancouver Island), 94/SE (Halfway River), and 114/NE (Tatshenshini).

Pattern

The pattern of distribution of metals exploration on properties is grossly similar to former years. The changes from the pattern in 1974 can be summarized as follows: in the southeast, exploration became somewhat broader in distribution although somewhat less intense. In particular, activity picked up in a band extending from the Arrow Lakes through Revelstoke to the Southeastern Cariboo. In the southwest, including Vancouver Island, exploration was generally more restricted areally. The Skeena Arch of Central British Columbia also experienced more restricted and less intense exploration. However, after a lapse of a year, activity and distribution picked up again in the Robb Lake (Halfway River) area of the Rockies. In the north, exploration remained fragmented into isolated areas, three of which are prominent; around Kinaskan Lake, Kutcho Creek, and the Tatshenshini River.

Reconnaissance exploration is not as easily monitored as exploration on properties but was fairly active, particularly in the Northern Rocky Mountains for zinc, Stikine and Tatshenshini areas for copper, and the East Kootenays for lead-zinc and uranium.

MAJOR EXPLORATION ACTIVITY

The important exploration activity other than geological reconnaissance is reviewed by commodity and geological type.

Porphyry Copper and Molybdenum

Porphyry copper and molybdenum prospects were investigated in a number of areas in the Intermontane Tectonic Belt and to a lesser degree in the Coast Crystalline and Insular Belts.

In the Stikine area, Texasgulf completed 6 000 metres of diamond drilling on the Red copper prospect where chalcopyrite and some gold mineralization occur in a quartz vein stockwork developed in a feldspar porphyry intrusion of unusual composition. A similar type of deposit was investigated by Canadian Industrial Gas and Oil at Ball Creek in the same general area.

A number of porphyry prospects were drilled in the Smithers area where copper and molybdenum mineralization is associated with small granitic plugs and stocks of Late Cretaceous and Tertiary age. Important prospects in this area on which significant work

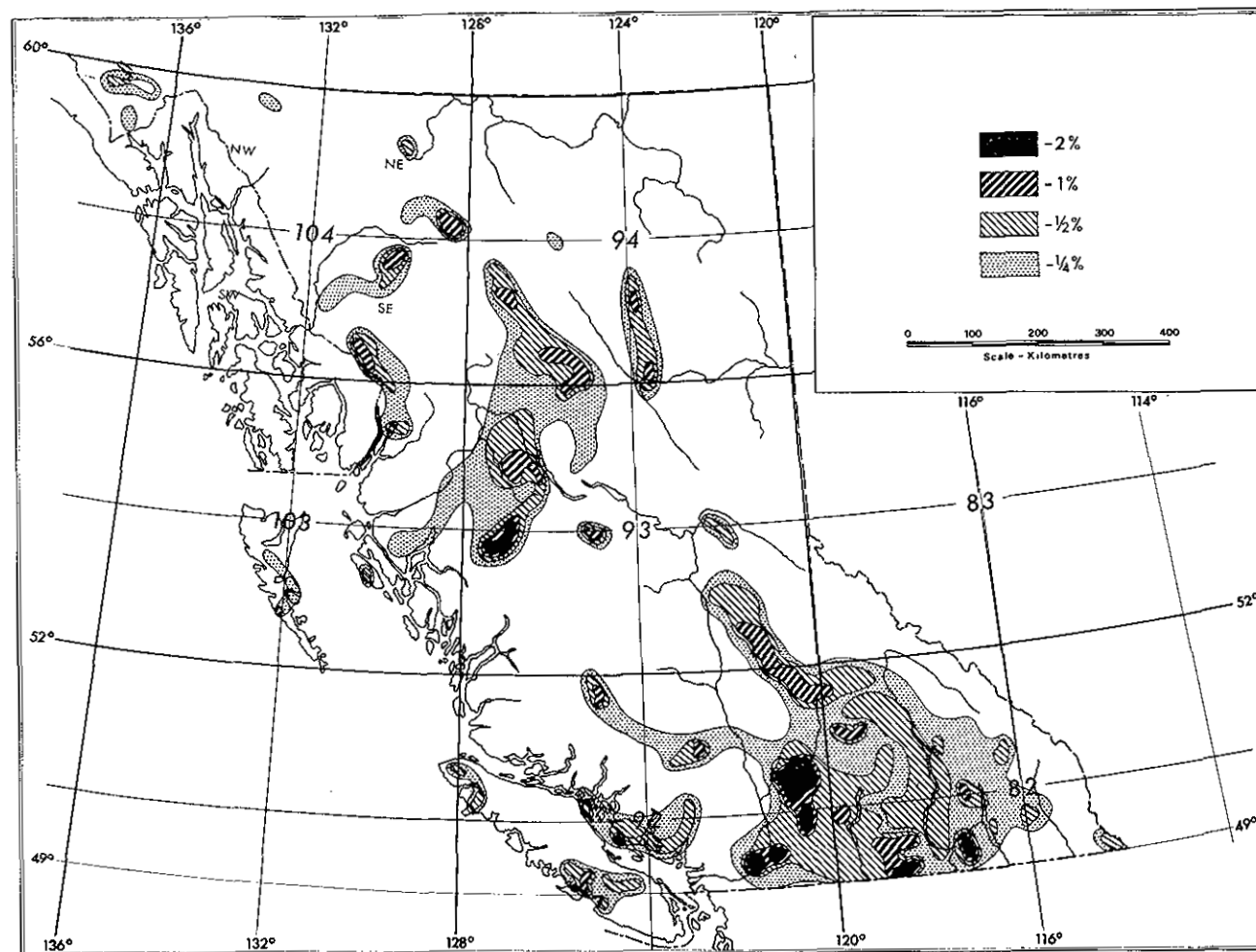


Figure E 2. Distribution of metallic mineral properties in 1975.

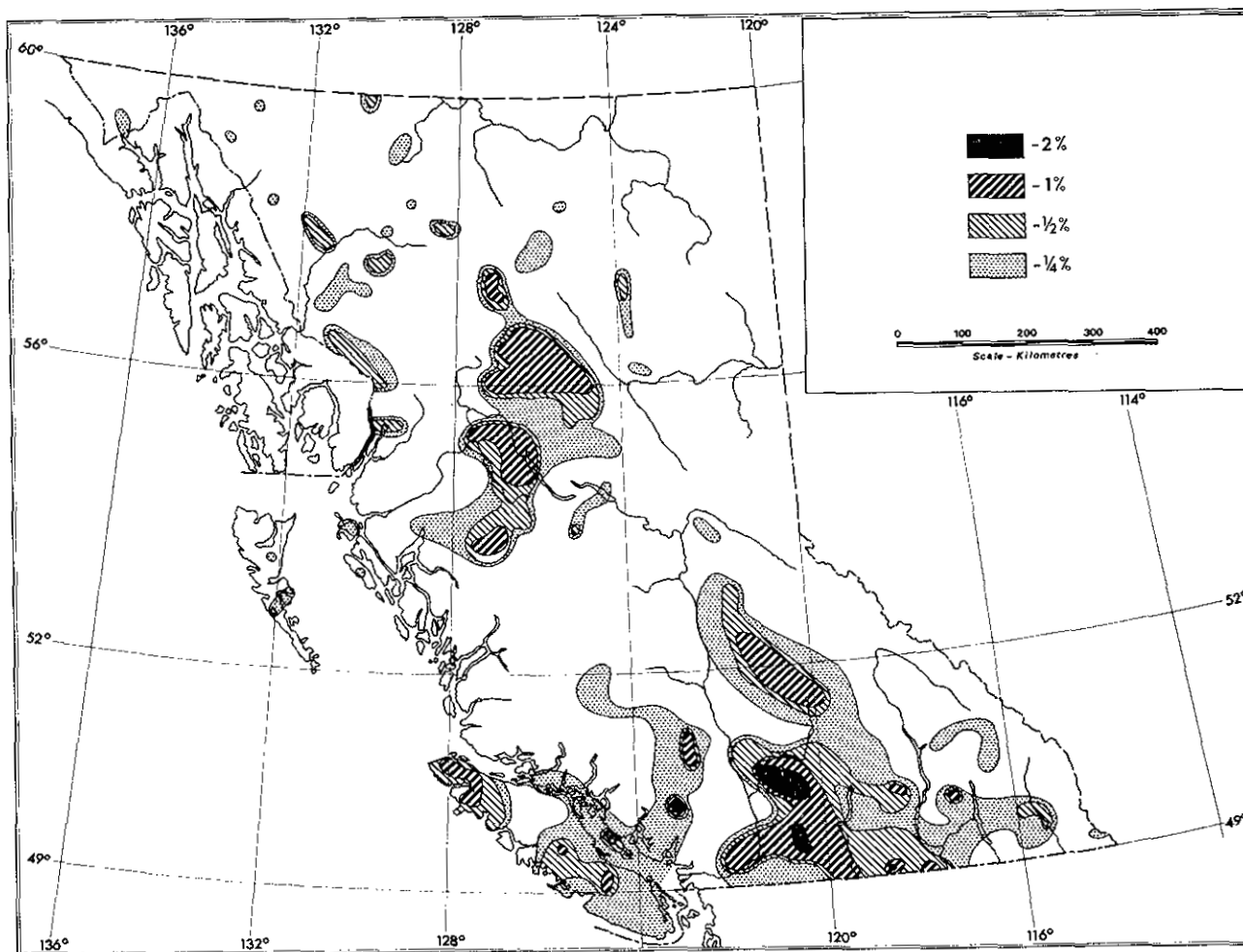


Figure E 3. Distribution of metallic mineral properties in 1974.

was done include the Big Onion (Canadian Superior), Berg (Canex Placer), and Poplar (Utah) properties. To the northeast, in the Omineca region, copper and molybdenum mineralization associated with batholiths and stocks of Jurassic and Cretaceous age were investigated at the Jean near Nation Lakes, Tam on Duckling Creek, and BAP (or Bird) near Johanson Lake by Cominco, UMEX, and B P Minerals respectively. Molybdenum mineralization in an extension of the Endako deposit (Nu-Elk or Denak) was drilled by Canex Placer.

Alkaline intrusions, coeval with enclosing volcanic rocks in the Cariboo area, are known to host copper and gold mineralization and a number of these were explored by Dupont of Canada. Noranda continued a major drilling program at their Boss Mountain molybdenum mine.

Activity in the Highland Valley was comparatively minor except for extensive underground development and diamond drilling at the OK (Alwin) deposit.

Porphyry copper and molybdenum mineralization associated with young (Oligocene–Pliocene) granitic stocks and plugs occurs in both the Coast Crystalline and Insular Belts. The Mount Washington copper deposit on Vancouver Island was investigated by Imperial Oil and B P Minerals drilled two deep holes in a very young (8 m.y.) granitic intrusion containing molybdenum mineralization at Salal Creek, northwest of Pemberton.

Porphyry-type mineralization was also investigated in the Greenwood–Kelowna area of south-central British Columbia. The Carmi prospect, in which molybdenite occurs in brecciated zones in gneissic granodiorite, was drilled by Granby.

Copper–Zinc

Renewed interest was taken in stratabound copper-zinc massive sulphide deposits as targets for exploration in British Columbia and especially in the Omineca Belt. Three such prospects were investigated during 1975, two in areas where these types of deposits were not known until a few years ago. Work by Cominco continued on the Seneca copper-zinc deposit (Harrison, Lucky Jim) east of Vancouver in which chalcopyrite and sphalerite occur in acid pyroclastic rocks of Middle Jurassic age. In the Stikine area, at Kutcho Creek, Imperial Oil and Sumitomo drilled a bedded pyrite deposit containing chalcopyrite and lesser sphalerite in chlorite and sericite schists of probable Late Paleozoic age. Stratabound copper-zinc mineralization in highly deformed Cambrian (?) phyllitic rocks in the Goldstream area of southeastern British Columbia was investigated by Noranda.

Gold–Silver

A resurgence in exploration for gold and silver deposits is directly attributable to increased prices for both these metals. Old prospects and former producers were re-investigated in the Atlin area (Engineer and Atlin Ruffner), at Cassiar (Hanna), near Stewart (Noradco and Porter Idaho), on Banks Island south of Prince Rupert, and at the Mosquito prospect adjacent to the old Caribco Gold Quartz Mine at Wells. All of these are vein-type deposits.

Replacement deposits containing gold and silver mineralization, possibly amenable to open-pit mining methods, were explored in several areas. One of these, the Carolin Mines property (Aurum, Idaho, and Pipestem) northeast of Hope, has two gold-bearing zones which are contained in Paleozoic and Upper Triassic rocks adjacent to a serpentine belt.

In the Toodoggone River area of northern British Columbia, gold-silver mineralization in a quartz-breccia zone in Lower Jurassic volcanic rocks at Black Lake was drilled by Kennco Explorations. In the same area, Dupont of Canada continued work on the Chappelle property where quartz veins contain significant values in gold and silver. A Carlin type of gold deposit was investigated on the Queen Charlotte Islands by Quintana at the Babe property. Very fine native gold is contained in brecciated and silicified rhyolite porphyry of Late Tertiary age adjacent to a major fault. Native gold in Quatsino limestone of Late Triassic age was investigated on Texada Island. South of Penticton, exploration for gold-silver mineralization was also being conducted in Tertiary acid volcanic rocks at Dusty Mac mine, which began production from a small open pit in 1975.

Lead—Zinc

Investigation of conformable lead-zinc deposits was carried out in Shuswap metamorphic rocks in southeastern British Columbia. In these deposits, galena and sphalerite occur in deformed marble and quartzite units. The Kingfisher, etc., near Mabel Lake was drilled by Colby Mines and the Ruddock Creek property (IT, TO, IN) north of Revelstoke was drilled by Cominco.

Exploration also continued in the Robb Lake area in the Northern Rocky Mountains where lead-zinc mineralization occurs in breccias developed in carbonate rocks of Middle Devonian age.

Uranium

A major drilling program for uranium was carried out by Japanese interests in the Beaverdell-Kelowna area, where secondary uranium minerals have accumulated in unconsolidated gravel and sand preserved below Miocene plateau basalts.

Major activity at properties not in production, as defined in recent years, included programs of greater than 10,000 feet of drilling or 1 000 feet of underground development. Translated into approximate metric units this would be 3 000 metres of drilling or 300 metres of development. Only seven programs exceeded these criteria and four of these were underground development, two of which were preparing for production and reported on in *Mining in British Columbia*:

- ***RUTH VERMONT** (Columbia River Mines), 82K/15W — 43 kilometres west of Spillimacheen
- PAT, GOLDSTREAM** (Noranda), 82M/9W — north of Revelstoke
- ***OK** (Alwin), 92I/6E — Highland Valley
- ***WARMAN** (Northair), 92J/3E — 11 kilometres north of Brandywine Falls
- ***MOSQUITO** (Home Oil), 93H/4E — 2.5 kilometres northwest of Wells
- BIG ONION** (Canadian Superior), 93L/15W — 17 kilometres east of Smithers
- RED, CHRIS, WINDY, SUS** (Texasgulf), 104H/12W — 9 kilometres south of Eddontenajon Lake

* Underground development and drilling

Four other programs were drilled over 2 000 metres including:

AURUM, IDAHO, PIPESTEM (Carolyn Mines), 92H/11W — near Hope

NU, ELK (Denak — Canex Placer), 93K/3E — near Endako

POPLAR (Utah), 93L/2W — 60 kilometres south of Houston

CHAPPELLE (Dupont), 94E/6E — 300 kilometres north of Smithers

DEVELOPMENT AND FEASIBILITY STUDIES

During 1975 two properties were proceeding toward production, the Warman and Afton deposits. The Warman gold-silver-lead-zinc vein deposit of Northair Mines Ltd. carried out major underground development and construction of its 275 tonnes per day concentrator and surface plant. In early fall, Teck Corporation Ltd. announced its decision to proceed to production with the Afton syenitic copper porphyry deposit. This involves a small open-pit mine, a 6 350 tonnes per day concentrator, and a top blown rotary converter smelter producing blister copper.

Work leading to feasibility studies was conducted at three properties: Boss Mountain, Berg, and Sam Goosly. At Boss Mountain extensive drilling was carried out to establish the feasibility of open-pit or underground mining of the extensive low-grade stringer ore surrounding the breccia bodies currently mined. At Berg, Canex Placer Limited proceeded with its program of drilling large diameter core for metallurgical testing of this porphyry copper-molybdenum property optioned from Kennco Explorations, (Western) Limited. At Sam Goosly the only additional study was the excavating of three trenches in the southern tail zone for bulk samples.

REPORTS ON METALS EXPLORATION

SOUTHEAST BRITISH COLUMBIA (NTS Division 82)

PENTICTON 82E

BURNT BASIN, EVA BELL

LOCATION: Lat. 49° 10.5' Long. 118° 08' (82E/1E)
Report on this property in *Mining in British Columbia, 1975.*

(82E/1W)

SD (Fig. E-1, NTS 82, No. 2)

LOCATION: Lat. 49° 07' Long. 118° 23' (82E/1W)
GREENWOOD M.D. Ten kilometres north-northeast of Grand Forks, extending north and south from Snowball Creek, between 1 050 and 1 170 metres elevation.

CLAIMS: WENDY 1 to 28.

OWNER: Terence F. Schorn.

OPERATOR: CHINOOK CONSTRUCTION & ENGINEERING LTD., 301, 1201 West Pender Street, Vancouver, B.C.

METAL: Uranium.

DESCRIPTION: Radioactive material occurs in biotite-rich sections of pegmatite lenses cutting Precambrian metasedimentary and intrusive rocks. In places quartz monzonite dykes cut the gneisses and some of the pegmatites. Within the claims worked on, a small amount of black uranium mineralization is visible with some yellow secondary minerals being found on fracture planes. At other localities in the area minor molybdenite, scheelite, chalcopryrite, pyrrhotite, sphalerite, and pyrite occurrences are reported.

WORK DONE: Surface geological mapping, 1:500, covering Wendy 1-6, 12, 14; ground radiometric survey, 2 500 line-kilometres, 10 and 5-metre grid spacing, covering same claims; geochemical survey, 74 rock-chip samples, 500 line-kilometres, 2.5-metre grid spacing covering Wendy 1-6.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 374; Assessment Report 5585; MI 82E/SE-142 to 145.

HUMMING BIRD (Fig. E-1, NTS 82, No. 3)

LOCATION: Lat. 49° 09' Long. 118° 27.5' (82E/1W)
GREENWOOD M.D. Thirteen kilometres north of Grand Forks, 200 metres west of the Granby River, on Brown Creek, between 540 and 750 metres elevation.

CLAIMS: Reverted Crown-granted claims: OK (Lot 1478); HUMMING BIRD (Lot 1369), HUMMING BIRD FR. (Lot 1249), MAMMIE (Lot 1246).

OWNER: W. B. CHANG, 1063 Balfour Avenue, Vancouver.

METALS: Gold, silver, zinc, lead.

DESCRIPTION: The claims are underlain mainly by limestone and andesitic greenstone of the Anarchist Group. Within the mineralized area, the volcanic rocks are to a certain extent carbonaceous. Massive pyrite, pyrrhotite, arsenopyrite, sphalerite, galena, and minor chalcopryrite are found as vein-fissure-type orebodies and along bedding planes within the limestone and at the limestone-andesite contact.

(82E/1W)

WORK DONE: 1974 — surface geological mapping, 1:4800; ground magnetometer survey, 1.6 line-kilometres; VLF EM survey, 6.4 line-kilometres; and geochemical survey, 109 samples covering all claims.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1925, p. 193; 1929, p. 255; 1942, p. 59; 1943, p. 63; Assessment Report 5396; MI 82E/SE-57.

GRAND (Fig. E-1, NTS 82, No. 1)

LOCATION: Lat. 49° 11' Long. 118° 26.5' (82E/1W)

GREENWOOD M.D. Sixteen and one-half kilometres north of Grand Forks, along the east bank of the Granby River, between 540 and 800 metres elevation.

CLAIM: GRAND 1.

OWNER: W. B. CHANG, 1063 Balfour Avenue, Vancouver.

DESCRIPTION: The claim area is predominantly underlain by andesitic greenstones of the Anarchist Group and granodiorite of the Nelson intrusive rocks. Mineralization (?) is found in shear zones or contacts between volcanic and intrusive rocks. Sulphides, mainly pyrite, carry low values in gold, cobalt, and copper.

WORK DONE: Surface geological mapping, 1:2400 and geochemical soil survey, 1.6 line-kilometres, 60-metre grid spacing covering Grand 1.

REFERENCE: Assessment Report 5701.

SAPPHO (CABIN) (Fig. E-1, NTS 82, No. 5)

LOCATION: Lat. 49° 00.5' Long. 118° 42' (82E/2E)

GREENWOOD M.D. Approximately 9 kilometres south of Greenwood, west of the headwaters of Norwegian Creek, 500 metres north of the International Boundary, at approximately 1 200 metres elevation.

CLAIM: PT 1 (units 1 and 2).

OWNERS: GEORGE O. M. STEWART, J. M. MacLEAN, and I. McCALLUM, 711, 475 Howe Street, Vancouver.

METALS: Copper, platinum, silver.

DESCRIPTION:

Proceeding west from the claim area, a Tertiary epiclastic breccia deposit lies in contact with Eocene Marron lavas. Underlying and to the east of the claims are black phyllites of possible Permian age containing some amphibolite phases.

Original interest centred on the southern part of the old Sappho claim (Lot 2039) where chalcopyrite disseminations and fracture fillings occur in amphibolites and in a Coryell (?) dyke containing large feldspar phenocrysts. Old assay returns of 0.02 to 0.06 ounce per ton platinum have been confirmed recently and interest has now extended to a serpentine outcrop on the northerly side of the claim.

(82E/2E)

WORK DONE: Trenching, 6 by 6 by 4 metres on PT 1.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1927, p. 234; 1967, p. 226; MI 82E/SE-147.

LEXINGTON, CITY OF PARIS (Fig. E-1, NTS 82, No. 7)

LOCATION: Lat. 49° 01' Long. 118° 37' (82E/2E)
GREENWOOD M.D. Nine kilometres south-southwest of Greenwood, extending from Rusty Mountain east to Goosmus Creek and north to McCarren Creek.

CLAIMS: CITY OF PARIS (Lot 622), LEXINGTON (Lot 645), CITY OF DENVER (Lot 1161) Crown-granted claims and approximately 26 other surveyed mineral claims, plus approximately 49 located claims including LEX, JIM, FIR, etc.

OWNERS: Lexington Mines Ltd. and Estey Agencies Ltd.

OPERATOR: AALENIAN RESOURCES LTD., 1620 Westover Road, North Vancouver.

METALS: Copper, gold, silver.

DESCRIPTION: The recent diamond drilling intersected both limonite-stained dacite porphyry carrying disseminated pyrite and some chalcopyrite as well as skarn zones with massive lenses of pyrite and chalcopyrite and serpentine.

WORK DONE: 1974 — four NQ diamond-drill holes totalling 328 metres and 12 percussion-drill holes totalling 905 metres on Lots 622, 645, and 1161 plus geochemical and geophysical surveys, a stadia survey, and road preparation (claims worked on not known).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, pp. 413-425; 1971, pp. 376-379; 1972, p. 35; Assessment Report 5378; MI 82E/SE-41, 42, 149.

BOUNDARY FALLS, TUNNEL (Fig. E-1, NTS 82, No. 8)

LOCATION: Lat. 49° 03' Long. 118° 42' (82E/2E)
GREENWOOD M.D. Four and one-half kilometres south-southwest of Greenwood, extending west from Boundary Creek at the Boundary Falls station, between 750 and 900 metres elevation.

CLAIMS: A 1 to 6 and the reverted Crown-granted claims TUNNEL (Lot 888), BOUNDARY FALLS (Lot 889), and Mineral Lease M-431 comprising DON'T KNOW (Lot 2374).

OWNERS: Estey Agencies Ltd. and W. M. Wheeler.

OPERATOR: AMIGO SILVER MINES LTD., 30, 448 Seymour Street, Vancouver.

METALS: Gold, silver, lead, (copper).

(82E/2E)

DESCRIPTION: The claims are underlain by Jurassic to Late Cretaceous limestones, phyllites, and volcanic rocks which have been metamorphosed, sheared in a northwesterly direction, and intruded by a late granitic intrusion. Limonite, pyrite, galena, and possibly tetrahedrite, carrying gold and silver values, occur in fractures in quartz, fissure-type veins, and silicified zones.

WORK DONE: VLF EM survey covering Tunnel (Lot 888), Boundary Falls (Lot 889), and A 1-6; adit driven, 31 metres, on A 1.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1897, p. 587; 1898, p. 1125; Assessment Report 5618; MI 82E/SE-45, 171.

SKOMAC

LOCATION: Lat. 49° 03.8' Long. 118° 42.5' (82E/2E)
Report on this property in *Mining in British Columbia, 1975*.

PHOENIX MINE

LOCATION: Lat. 49° 05.8' Long. 118° 35.9' (82E/2E)
Report on this property in *Mining in British Columbia, 1975*.

ORO DENORO (Fig. E-1, NTS 82, No. 6)

LOCATION: Lat. 49° 07.5' Long. 118° 33' (82E/2E)
GREENWOOD M.D. Ten kilometres east-northeast of Greenwood, extending east from the headwaters of Coltern Creek to Rathmullen Creek, between 950 and 1 200 metres elevation.

CLAIMS: ORO DENORO (Lot 692), EMMA (Lot 591), JUMBO (Lot 592), R BELL (Lot 1506), NOVELTY FR. (Lot 949), B C FR. (Lot 464s), SILVER PLUME (Lot 1945), ROCKLAND (Lot 1493), MARY B (Lot 1568), METABELLE FR. (Lot 2114), MOUNTAIN ROSE (Lot 794), MINNE MOOR (Lot 593), BLUE BELL (Lot 2136), NORTON FR. (Lot 986), ERWIN (Lot 1691), MOUNTAIN VIEW (Lot 1533), LONDON NO. 2 (Lot 465s), VASHTI (Lot 950), CORDICK (Lot 625), DUPLICATE (Lot 949), and MAY (Lot 1409) Crown-granted claims and leases plus ELMER NO. 2, SAC 1 Fraction, SAC 2 to 9, CHEMICAL Fraction, JOINER Fraction, APRIL Fraction, REMINGTON Fraction, JEEP 1, 8 to 12, and 18 Fractions, JEEP 13, 15, and 16, DENORO Fraction, MAB Fraction, MAB 5, CAP 1 to 3 Fractions, SUPER CHIEF Fraction, PRADO Fraction, JAGGED Fraction, EYE 1 to 4 Fractions, ONTARIO, BRAYFOGLE, JUMBO Fraction, NEW STAN 1 to 5, NEW STAN 3 and 4 Fractions, SLIVER Fraction, DELTA Fraction located claims.

OWNERS: Granby Mining Corporation and W. E. McArthur Jr.

OPERATOR: GRANBY MINING CORPORATION, Box 490, Grand Forks.

METALS: Copper, silver, gold, iron.

(82E/2E)

- DESCRIPTION: Chalcopyrite and pyrite, with magnetite and pyrrhotite in some sections occur in a massive garnet skarn developed from limestone of Middle Triassic age. In general the mineralization is identical to the Mother Lode and Phoenix deposits, except that zinc values are present (especially associated with the magnetite).
- WORK DONE: Surface geological mapping, 1:4800, covering all claims; drill holes logged; magnetometer survey, 68 line-kilometres, 120-metre grid spacing covering all claims; electromagnetic survey, 68 line-kilometres, 120-metre grid spacing covering all claims; VLF EM survey, 16 line-kilometres, 30-60-metre grid spacing; percussion drilling, 26 holes totalling 720 metres on Emma, Jumbo, Chemical, and Sac 2 and 3; surface and underground workings surveyed; grid cut and surveyed, 67.2 line-kilometres; road construction, 3.7 kilometres (access to drill holes); trenching 60 metres on Sac 3.
- REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 38; *B.C. Dept. of Mines & Pet. Res.*, Geology in British Columbia, 1975; MI 82E/SE-60, 62 to 64, 122.

DENERO GRANDE, JEWEL

- LOCATION: Lat. 49° 09.8' Long. 118° 36.7' (82E/2E)
Report on this property in *Mining in British Columbia*, 1975.

TEXAS, WAY (Fig. E-1, NTS 82, No. 11)

- LOCATION: Lat. 49° 02' Long. 118° 51' (82E/2W)
GREENWOOD M.D. Six kilometres south-southwest of Midway, on and extending south from Ingram Creek, at approximately 750 metres elevation.
- CLAIMS: WAY 5 to 12 and Mineral Leases M-418 and M-419, comprising TEXAS (lot 662) and GRANADA (Lot 869).
- OWNER: SANTA SARITA MINING COMPANY LIMITED, Box 94415, Richmond.
- METAL: Copper.
- DESCRIPTION: The Way claims are underlain by Triassic sedimentary and volcanic rocks of the Anarchist Group, which are invaded and in places overlain by Mesozoic-Tertiary fine-grained, greenish black monzonite to granodiorite intrusive rocks. One drill hole intersected fine, black, silicified argillite or hornfels (?) carrying a small pyrite stringer. Sparse chalcopyrite and bornite mineralization in diorite is present on the Texas claim.
- WORK DONE: 1974 — surface diamond drilling, two holes totalling 33 metres on Way 5 and 16.
- REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 37; Assessment Report 5381; MI 82E/SE-119.

(82E/2W)

ROB (Fig. E-1, NTS 82, No. 10)

LOCATION: Lat. 49° 03' Long. 118° 46' (82E/2W)
GREENWOOD M.D. Five kilometres due north of Midway, between Jolly Jack Creek and the headwaters of Bauer Creek, at approximately 800 metres elevation.

CLAIMS: ROB 1 to 8.

OWNER: John R. Lakes.

OPERATOR: J. S. HILTON, 601, 543 Granville Street, Vancouver.

DESCRIPTION: The overburden in this area is approximately 50 feet thick.

WORK DONE: 1974 — one percussion hole totalling 108 metres on Rob 1.

REFERENCE: Assessment Report 5660.

J (PEN) (Fig. E-1, NTS 82, No. 9)

LOCATION: Lat. 49° 09' Long. 118° 47' (82E/2W)
GREENWOOD M.D. Ten kilometres northwest of Greenwood, on and extending south from Wallace Creek near its head, at approximately 1 300 metres elevation.

CLAIMS: PEN (20 units), AB (16 units), JOE (12 units).

OWNERS: J. Forshaw and V. Luznar.

OPERATOR: RIO TINTO CANADIAN EXPLORATION LIMITED, 615, 555 Burrard Street, Vancouver V7X 1M8.

METALS: Zinc, (gold, silver).

DESCRIPTION: In the claim area, cherty siltstone, limestone, and sharpstone conglomerate are overlain by Tertiary dykes and flows. Pyrite and sphalerite mineralization occurs in a shear zone at the contact between sharpstone and argillaceous rocks.

WORK DONE: Surface geological mapping, 1:10 000, covering Pen (units 1-5, 10-15, 19, 20) and Joe (units 6-10); induced polarization survey (dipole-dipole, four levels), 1.5 line-kilometres, covering Pen (units 10 and 15); surface diamond drilling, two holes totalling 400 metres on Pen (unit 10); grid cut and surveyed, 3 kilometres covering Pen (units 10 and 15).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 429; Assessment Report 2925; MI 82E/SE-118.

LEE (Fig. E-1, NTS 82, No. 19)

LOCATION: Lat. 49° 04' Long. 119° 11' (82E/3E)
GREENWOOD M.D. Twenty-two kilometres east-northeast of Osoyoos, 4 kilometres north of Bridesville, on McKinney and Rice Creeks, at approximately 1 050 metres elevation.

CLAIMS: LEE 1 to 5 (totalling 49 units).

OWNER: ASARCO INCORPORATED, 504, 535 Thurlow Street, Vancouver.

DESCRIPTION: The claims cover in part a northwest-trending contact between Cretaceous granodiorite porphyry and metasedimentary and meta-volcanic rocks of the Anarchist Group. Immediately adjacent to the Lee

(82E/3E)

1 and 2 claims, on the Le Roi Crown-granted claim (Lot 1649), massive pyrrhotite and chalcopyrite occur in skarn.

WORK DONE: Topographic map (photo blow-up), 1:10 000; geochemical soil survey, approximately 250 samples, 300-metre grid spacing, 24 line-kilometres covering all claims.

BALDY, RICE (Fig. E-1, NTS 82, No. 18)

LOCATION: Lat. 49° 06' Long. 119° 10' (82E/3E)
GREENWOOD M.D. Twenty-three kilometres east-northeast of Osoyoos, on Rice Creek, between 1 100 and 1 200 metres elevation.

CLAIMS: KNIGHT RAMBLER (Lot 3015), BIG BUG (Lot 923), VERNON (Lot 759s), ISLANDER (Lot 1090) plus HAG 1 to 7 (totalling 92 units).

OWNER: Nevex Mines Ltd.

OPERATOR: CANEX PLACER LIMITED, 800, 1030 West Georgia Street, Vancouver.

METALS: Gold, copper, molybdenum, silver.

DESCRIPTION: The claim area is underlain mainly by metasedimentary rocks of the Anarchist Group in contact with a quartz diorite intrusion to the southwest. Old reports appear to indicate two different types of mineralization in the claim area. In the southern part, the old Dayton mine is reported to have carried gold, silver, and copper mineralization within bands of iron oxides and sulphides in a highly oxidized, shattered, and altered dyke. In the northern part of the area, quartz veins in metasedimentary rocks carry either gold-bearing pyrite or molybdenite.

WORK DONE: Electromagnetic and magnetometer survey, 75 line-kilometres, 200-metre grid spacing; induced polarization survey, 10 line-kilometres, 1 000-metre grid spacing; and geochemical soil survey, 50 line-kilometres, 200-metre grid spacing covering Hag 1-4.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 51; MI 82E/SW-22, 118, 127 to 129.

WS – BOOMERANG (Fig. E-1, NTS 82, No. 20)

LOCATION: Lat. 49° 15' Long. 119° 01' (82E/3E, 6E)
GREENWOOD M.D. Three kilometres due north of the Rhone station, extending west from the West Kettle River and south from Nelse Creek.

CLAIMS: BC (Lot 725s), BOOMERANG (Lot 733s), WS (Lot 2281), EAGLE FR. (Lot 2282), CHAPERONNE (Lot 875s), ICONOCLAST (Lot 734s), and DOGAN (totalling 16 units).

OWNER: D. HOPPER, 107, 325 Howe Street, Vancouver.

METALS: Gold, silver.

DESCRIPTION:

The claims are underlain by granite to granodiorite which is in some areas very pyritic, chloritic, and brecciated, and contains numerous quartz-filled fractures. Bosses or dykes of porphyritic and basaltic material are frequently present within the host rock, usually associated with pyrite along the contacts.

Quartz veins have been observed in outcrop over a distance of 600 metres on the Boomerang and WS claims. Previous work on these veins indicated some good values in gold and silver associated with pyrite and minor galena. In other parts of the property, minor pyrite and chalcopyrite have been noted in quartz gash veins but assay returns are very low.

WORK DONE: 1974 and 1975 — geochemical survey, approximately 200 soil and rock samples analysed for copper, silver, and gold.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1913, pp. 157, 158; 1946, p. 133; Assessment Report 5621; MI 82E/SW-63.

SUE (Fig. E-1, NTS 82, No. 21)

LOCATION: Lat. 49° 01' Long. 119° 22' (82E/3W)
OSOYOOS M.D. Seven kilometres east of Osoyoos, on the south fork of Haynes Creek, extending south to Highway 3.

CLAIMS: SUE 13, 15, 31 to 38.

OWNER: VENTORA RESOURCES LTD. (formerly White River Mines Ltd.), 1055 West Georgia Street, Vancouver.

DESCRIPTION: The area is underlain mainly by gneissic quartz diorite. The contact between this intrusion and greywackes of the Anarchist Group is fractured and cut by irregular, granitic veins. Pyrrhotite, carried in the contact zone, is the only sulphide recognized on the property.

WORK DONE: Prospecting and rock geochemical sampling (28 samples taken and 13 assayed) covering all claims; trenching, 25 cubic metres on Sue 37; stripping, 40 cubic metres on Sue 31 and 32.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 42; Assessment Report 5460.

NIKKI (Fig. E-1, NTS 82, No. 22)

LOCATION: Lat. 49° 00' Long. 119° 38' (82E/4E)
OSOYOOS M.D. Twelve kilometres west-southwest of Osoyoos, extending along the International Boundary, at Monument 113, at approximately 1 000 metres elevation.

CLAIMS: NIKKI 1 to 8.

OWNER: BONA VISTA MINING CORPORATION LTD., 207, 470 Granville Street, Vancouver.

METALS: Silver, lead, zinc, copper.

DESCRIPTION: The claims are mainly underlain by a granite-syenite stock in contact with metamorphic rocks to the south. Within the intrusion, quartz-

(82E/4E)

filled fractures and joints carry veinlets and clusters of pyrite, galena, and sphalerite, with some chalcopyrite.

WORK DONE: Reconnaissance surface geological mapping, 1:12 000 covering all claims and peripheral area.

REFERENCES: *B.C. Dept. of Mines and Pet. Res.*, GEM, 1974, p. 52; Assessment Report 5250; MI 82E/SW-125.

HORN SILVER

LOCATION: Lat. 49° 03' Long. 119° 41' (82E/4E)
Report on this property in *Mining in British Columbia, 1975*.

SUSIE

LOCATION: Lat. 49° 13' Long. 119° 36' (82E/4E)
Report on this property in *Mining in British Columbia, 1975*.

SNO (Fig. E-1, NTS 82, No. 23)

LOCATION: Lat. 49° 03' Long. 119° 53' (82E/4W)
OSOYOOS M.D. Eighteen kilometres south-southwest of Keremeos on the west side of Snowy Mountain, near the head of Juniper Creek, between 1 950 and 2 460 metres elevation.

CLAIMS: SNO 1 to 16.

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ont.

METALS: Copper, molybdenum, tungsten, lead.

DESCRIPTION:

The claims are underlain by argillites and volcanic tuffs of Shoemaker and Old Tom Formations which were intruded by dioritic phases of the Kruger syenite, and folded and thermally metamorphosed to high-grade hornblende hornfels facies adjacent to the contact. These metamorphic rocks include biotite hornfels, cherts, greenstones, amphibolites, and isolated, discontinuous areas of skarn. The diorite has been intruded by monzonite of the Similkameen batholith in the eastern part of the area and by a major set of pegmatite veins.

Mineralization found on the property includes occurrences of low concentrations of malachite, chalcopyrite, galena, and molybdenite in veins and rare occurrences of low concentrations of molybdenite and scheelite and strong pyrite development within the high-grade hornfels zone.

WORK DONE: Surface geological mapping, 1 centimetre equals 48 metres; geochemical survey, 483 soil samples, 75 rock samples, and 159 stream sediment samples, 38 line-kilometres, 33-metre on 122-metre grid spacing covering all claims.

REFERENCES: Assessment Report 5676; MI 82E/SW-134.

(82E/4W)

JUN (Fig. E-1, NTS 82, No. 24)

LOCATION: Lat. 49° 04' Long. 119° 55' (82E/4W)
OSOYOOS M.D. Sixteen kilometres south-southwest of Keremeos, 4 kilometres northwest of Snowy Mountain, between 1 800 and 2 250 metres elevation.

CLAIMS: JUN 1 to 12.

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ont.

METALS: Copper, zinc.

DESCRIPTION: Cherts, argillites, and greenstones have been intruded by medium-grained hornblende diorite, producing a 300-metre-wide hornfelsed aureole. Pyrite and copper-zinc mineralization is present within the greenstone units and in contact skarns.

WORK DONE: Surface geological mapping, 1 centimetre equals 48 metres; geochemical survey, 488 soil samples, 27 rock samples, and 29 stream sediment samples, 31.3 line-kilometres, 33-metre on 122-metre grid spacing covering all claims.

REFERENCE: MI 82E/SW-135.

GIL, PA (Fig. E-1, NTS 82, No. 25)

LOCATION: Lat. 49° 08' Long. 119° 56' (82E/4W)
OSOYOOS M.D. Eleven kilometres southwest of Keremeos, covering the headwaters of Gillanders Creek, between 1 500 and 2 220 metres elevation.

CLAIMS: GIL 1 to 26, LIG 1 to 18, LI 1 to 20, LG 1 to 3 (totalling 18 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ontario.

METALS: Tungsten, molybdenum, zinc, copper.

DESCRIPTION:

The property is underlain by a tightly folded succession of argillite, chert, greenstone, and limestone of the Shoemaker and Old Tom Formations. High-grade thermal metamorphism has resulted in a hornfelsed texture in the rocks, producing extensive skarn. Three ages of felsic dykes of varying composition occur in the hornfelsed zone. There has been a high degree of oxidation throughout the area.

Two types of mineral deposits are present within the claim area. Pyrite, pyrrhotite, scheelite, and molybdenum mineralization accompanied by small amounts of sphalerite occur in skarn horizons and in the argillites, immediately adjacent to these skarn zones, malachite staining and rare chalcopryrite are present. In the felsic dykes and their associated quartz veins, pyrite and molybdenite with rare chalcopryrite are found.

WORK DONE: Surface geological mapping, 1 centimetre equals 48 metres; geochemical survey, 854 soil samples, 87 rock samples, and 55 stream sediment samples, 57 line-kilometres, 33-metre on 122-metre grid spacing covering GIL 11, 12, 19-26, LIG 1-18, LI 1-20, and LG 2, 3; surface diamond drilling, three holes totalling 254 metres on LG 2; road

(82E/5W)

construction, 22.5 kilometres (between Indian Reserve 13 and the property — LG 1 and 2 claims).

REFERENCES: *Dept. of Mines & Pet. Res.*, GEM, 1973, p. 45; 1974, p. 54; Assessment Reports 5573, 5677, 5787; MI 82E/SW-105, 122.

DIVIDEND (Fig. E-1, NTS 82, No. 26)

LOCATION: Lat. 49° 22' Long. 119° 52' (82E/5W)
OSOYOOS M.D. Eighteen kilometres north of Keremeos, covering Dividend Mountain between Keremeos and South Keremeos Creeks.

CLAIMS: JO 3 and 4, KIM 1 to 6, SEL 1 to 42.

OWNER: SOUTHCAN MINING LIMITED, 605, 535 Thurlow Street, Vancouver.

METAL: Copper.

DESCRIPTION: Irregular skarn-type deposits, carrying pyrrhotite, magnetite, and copper sulphides, are present in the claim area. These occurrences often lie close to the contact of dykes and/or larger intrusive bodies with limy metasedimentary rocks of the Independence and Shoemaker Formations.

WORK DONE: Geochemical soil survey, approximately 400 samples collected and analysed for gold and copper, covering Sel 13-20, Kim 1-6, and Jo 4.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 55; Assessment Report 5574; MI 82E/SW-124.

DUSTY MAC

LOCATION: Lat. 49° 21' Long. 119° 33' (82E/5E)
Report on this property in *Mining in British Columbia, 1975*.

AU (Fig. E-1, NTS 82, No. 27)

LOCATION: Lat. 49° 17' Long. 119° 19' (82E/6W)
OSOYOOS M.D. Twenty kilometres northeast of Osoyoos, on Fish Creek, 4 kilometres upstream from its confluence with Vaseux Creek.

CLAIMS: AU 1 to 6, RAIN 1 and 2, GOLD 9 and 10.

OWNERS: K. G. EWERS, R. W. McLEAN, and K. G. THOMPSON, Box 106, Hody Drive, Okanagan Falls V0H 1R0.

METALS: Gold, silver.

DESCRIPTION: Tertiary andesite porphyry is traversed by a northeast-trending, rusty shear zone, 30 metres wide, containing bands of silicified rock, calcite-cemented quartz breccia, and calcite veinlets. Sparse, very fine-grained pyrite is also present.

WORK DONE: Linecutting; bulldozer trenching; four hand trenches, totalling approximately 30 metres in length; geological mapping, 1:1200; geochemical sampling, 21 chip samples covering AU 1, 3, and 4.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 56; Assessment Report 5702; MI 82E/SW-112.

(82E/6E)

DOORN (ARGENTIA) (Fig. E-1, NTS 82, No. 28)

LOCATION: Lat. 49° 24.5' Long. 119° 07' (82E/6E)
GREENWOOD M.D. Three kilometres south-southeast of Beaverdell, on Logan Creek approximately 1 kilometre west of the West Kettle River.

CLAIMS: RON 2 and 4, DOORN 8 to 13, 15, 18, 19.

OWNER: ARGENTIA MINES LTD., 205, 1460 Pandosy Street, Kelowna.

METALS: Gold, silver, copper.

DESCRIPTION: Doorn 8 and 10 are underlain by Nelson granodiorite. On Doorn 8 a northwest-striking chloritic shear zone has been injected by quartz veins and irregular andesite dykes. The veins dip 60 to 70 degrees southwest, are from 5 centimetres to 93 centimetres wide, and carry pyrite, less chalcopyrite and bornite, and sporadic galena, sphalerite, native gold, and bismuth tellurides. On Doorn 10 a northwest-dipping shear zone 7.5 centimetres wide carries values in gold, silver, and copper.

WORK DONE: Surface geological mapping, 1:1200; magnetometer survey, 4.8 line-kilometres covering Doorn 8-11.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 47; Assessment Report 5441; MI 82E/SW-115, 136.

HIGHLAND BELL MINE

LOCATION: Lat. 49° 26' Long. 119° 04' (82E/6E)
Report on this property in *Mining in British Columbia, 1975* and *Geology in British Columbia, 1975*.

KET (LOU) (Fig. E-1, NTS 82, No. 14)

LOCATION: Lat. 49° 23' Long. 118° 53' (82E/7W)
GREENWOOD M.D. Twenty-five kilometres north-northeast of West-bridge, on the west side of the Kettle River, at approximately 1 000 metres elevation.

CLAIMS: KET (units 1, 16, and 17).

OWNER: TECK CORPORATION LTD., 14th Floor, 1199 West Hastings Street, Vancouver.

METAL: Copper.

DESCRIPTION: Tertiary bedded tuffs of the Kettle River Formation carry minor malachite.

WORK DONE: VLF EM survey, 2.52 line-kilometres, 120-metre grid spacing and geochemical soil survey, 83 samples, 2.52 line-kilometres, 120-metre grid spacing covering Ket (units 1, 16, and 17).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 303; MI 82E/SE-176.

(82E/7W)

HOODOO (Fig. E-1, NTS 82, No. 12)

LOCATION: Lat. 49° 24' Long. 118° 56' (82E/7W)
GREENWOOD M.D. Twenty-five and one-half kilometres north of Westbridge, on Crouse Creek, at approximately 1 000 metres elevation.

CLAIMS: HOODOO (units 1, 2, 15, and 16).

OWNER: TECK CORPORATION LTD., 14th Floor, 1199 West Hastings Street, Vancouver.

DESCRIPTION: Altered quartz monzonite contains minor pyrite.

WORK DONE: Geochemical soil survey, 69 samples, 1.03 line-kilometres covering Hoodoo (units 2 and 15).

GUT (Fig. E-1, NTS 82, No. 13)

LOCATION: Lat. 49° 25' Long. 118° 56' (82E/7W)
GREENWOOD M.D. Twenty-eight kilometres north of Westbridge, on Crouse Creek, due east of Crystal Mountain, at approximately 1 200 metres elevation.

CLAIMS: GUT (units 1 and 16).

OWNER: TECK CORPORATION LTD., 14th Floor, 1199 West Hastings Street, Vancouver.

METAL: Gold.

DESCRIPTION: The claim is underlain by greenstone of the Anarchist Group, granodiorite and diorite of the Nelson intrusions, and andesite of the Tertiary Phoenix Group. Arsenopyrite and pyrite mineralization is present.

WORK DONE: Magnetometer and VLF EM surveys, 4.47 line-kilometres, 60-metre grid spacing and geochemical soil survey, 85 samples, 0.9 line-kilometres, 60-metre grid spacing covering Gut (units 1 and 16); hand trenching, 126 metres on Gut (unit 1).

REFERENCE: MI 82E/SE-175.

WSW (Fig. E-1, NTS 82, No. 15)

LOCATION: Lat. 49° 29' Long. 118° 23' (82E/8W)
GREENWOOD M.D. Forty-nine kilometres north of Grand Forks, on the east side of Burrell Creek, approximately 1 kilometre north of the mouth of St. Annes Creek, at approximately 750 metres elevation.

CLAIM: WSW 1.

OWNER: WALTER A. BULLER, 2833 Maple Street, Abbotsford.

METALS: Gold, silver, copper, lead, zinc.

DESCRIPTION:

Greenstone, impure limestone, greywacke, and argillite of the Anarchist Group have been intruded by diorite and granodiorite of the Nelson intrusive rocks, and all units have been intruded by slightly radioactive pulaskite dykes.

Two main showings of chalcopyrite, bornite, chalcocite, pyrite, galena, and sphalerite are present in quartz-calcite veinlets within the greenstone and limestone, and some smears of

(82E/8W)

native copper occur along joint and shear planes. Panning of the dirt in the vicinity of the veins has shown gold and native silver. Throughout the claim area, scattered occurrences of pyrite, pyrrhotite, and minor chalcopyrite are present.

WORK DONE: 1974 and 1975 — geological mapping, 1:600 and 1:3000; three packsack diamond-drill holes totalling approximately 8 metres; 18 geochemical soil samples; six hand trenches totalling approximately 18 metres in length with an average width of 1 metre and depth of 0.6 metre on WSW 1.

REFERENCES: Assessment Report 5535; MI 82E/SE-177.

VAN (BURR) (Fig. E-1, NTS 82, No. 16)

LOCATION: Lat. 49° 29.5' Long. 118° 23.1' (82E/8W)

GREENWOOD M.D. Fifty kilometres north of Grand Forks, on the east side of Burrell Creek, approximately 2 kilometres north of the mouth of St. Annes Creek.

CLAIMS: BURR 1 to 4.

OWNER: WALTER A. BULLER, 2833 Maple Street, Abbotsford.

METALS: Zinc, copper.

DESCRIPTION: Pyrite, sphalerite, and chalcopyrite are present in a highly fractured zone in porphyritic granite of the Nelson intrusive rocks near the contact with granodiorite of the Valhalla intrusive rocks. The host rock is moderately to intensely altered and is in parts heavily sericitized. The copper and zinc mineralization appears to be zoned.

WORK DONE: 1974 and 1975 — geological mapping, 1:6000; five packsack diamond-drill holes totalling approximately 9 metres on Burr 1-4; 1972 and 1973 — 138 geochemical soil and rock samples and one stream sample were taken.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 398; Assessment Report 5514; MI 82E/SE-136.

LJ (Fig. E-1, NTS 82, No. 17)

LOCATION: Lat. 49° 30' Long. 118° 22' (82E/8W, 9W)

GREENWOOD M.D. Fifty-one kilometres north of Grand Forks, 1 kilometre east of Burrell Creek, between 850 and 1 000 metres elevation.

CLAIM: LJ 1.

OWNER: WALTER A. BULLER, 2833 Maple Street, Abbotsford.

METALS: Gold, silver, lead, copper, molybdenum, (iron).

DESCRIPTION: Magnetite, pyrite, galena, and chalcopyrite occur in shattered quartz veinlets in granodiorite of the Nelson intrusive rocks. Tourmaline and free gold were also noted in the main showing as were bornite, chalcocite, and molybdenite in some of the smaller showings. A few small pegmatite and aplite dykes and more abundant, slightly radioactive pulaskite (?) dykes are present within the host rock.

(82E/9W)

WORK DONE: 1974 and 1975 – geological mapping, 1:3000; one trench approximately 2.4 metres long on LJ 1.

REFERENCES: Assessment Report 5513; MI 82E/SE-178.

DOE, BEAR (Fig. E-1, NTS 82, No. 38)

LOCATION: Lat. 49° 31' Long. 118° 22' (82E/9W)

GREENWOOD M.D. Fifty-three kilometres north of Grand Forks, extending south from the junction of Burrell and Franklin Creeks, at approximately 1 000 metres elevation.

CLAIMS: ALCO (20 units), ALCO 2 (6 units), ALCO 3 (4 units).

OWNER: RIO TINTO CANADIAN EXPLORATION LIMITED, 615, 555 Burrard Street, Vancouver V7X 1M8.

METALS: Copper, molybdenum.

DESCRIPTION: Low-grade, porphyry-type, quartz-chalcopyrite-molybdenite mineralization occurs as fracture fillings in Nelson granodiorite.

WORK DONE: Surface geological mapping, 1:5000 and geochemical soil survey, 112 samples, 5 line-kilometres, 50-metre grid spacing covering Alco 2 claim block.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 310 (COPPER NO. 2); MI 82E/NE-13, 14.

FUKI, DONEN

LOCATION: Lat. 49° 33' Long. 118° 52' (82E/10W)

Report on this property in *Geology in British Columbia*, 1975.

CARMI MOLYBDENUM (DOE, IVY O) (Fig. E-1, NTS 82, No. 29)

LOCATION: MULLINS HILL –

Lat. 49° 30' Long. 119° 02' (82E/11E)

GREENWOOD M.D. The Ivy O and Mary claims lie 7 kilometres east-northeast of Carmi, on the south slope of Mullins Hill, at approximately 1 100 metres elevation.

CARMI –

Lat. 49° 31' Long. 119° 10' (82E/11E)

GREENWOOD M.D. The Carmi molybdenum property lies 2 to 3 kilometres northwest of Carmi, extending south from Wilkinson and Saunier Creeks.

CLAIMS: MULLINS HILL – IVY O 2, 4 to 9 and MARY 119, 122, and 123.

CARMI – DOE, IVY, TOM, MY, HUCK, LINDA, LANG, MARY O, CAPCO, MARC, etc., totalling 159 claims and NDP 1 (12 units).

OWNERS: Vestor Explorations Ltd. and Kennco Explorations, (Western) Limited.

OPERATOR: GRANBY MINING CORPORATION, 1700, 1050 West Pender Street, Vancouver.

METALS: Molybdenum, copper, gold.

(82E/11E)

DESCRIPTION:

Molybdenite occurs in a gneissic granodiorite breccia of the Shuswap Complex. Most of the molybdenite in the E zone is disseminated throughout the breccia fragments as well-developed rosettes. The breccia consists of very angular fragments of granodiorite gneiss. There is considerable rotation between fragments and the matrix consists primarily of quartz or quartz feldspar. Minor amounts of molybdenite, pyrite, and chalcopyrite occur in the matrix. Uraninite occurs somewhat sporadically, principally as small grains disseminated through the granodiorite. Uraninite is always accompanied by purple fluorite.

On the Ivy O 8 claim, small, lency masses of pyrite, chalcopyrite, and molybdenite in garnet skarn are present with a granitic intrusion.

WORK DONE: Induced polarization survey, 2.6 line-kilometres, 120-metre grid spacing covering Huck 1, 2, Linda 3-5, and My 1; percussion drilling, six holes totalling 600 metres on Doe 2 and 4; one hole totalling 100 metres on Huck 2; two holes totalling 200 metres on Lang 2 Fraction; two holes totalling 183 metres on Ivy O 9.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 60; Assessment Reports 5430, 5519; MI 82E/NW-36, 37 and 82E/SW-104; report also in *Geology in British Columbia, 1975*.

ROSEMONT (Fig. E-1, NTS 82, No. 30)

LOCATION: Lat. 49° 31' Long. 119° 00' (82E/11E)
GREENWOOD M.D. Approximately 10 kilometres northeast of Beaverdell.

CLAIMS: QUIS 1 to 4.

OWNER: H. O. Plank.

OPERATORS: H. O. PLANK, Box 413, Penticton and L. HADLEY, Box 102, Okanagan Falls.

METALS: Gold, silver.

DESCRIPTION: The claims are underlain by the Wallace Formation consisting largely of granitized sedimentary rocks, some of which are limy, which have been intruded and surrounded by quartz diorite. Pyrite and pyrrhotite with minor chalcopyrite are present in the silicified wallrock.

WORK DONE: 1974 — two packsack diamond-drill holes, approximately 20 metres on Quis 3.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 50; Assessment Report 5525; MI 82E/NW-46.

FAP (Fig. E-1, NTS 82, No. 32)

LOCATION: Lat. 49° 37' Long. 119° 51' (82E/12W)
OSOYOOS M.D. Twelve kilometres west of Summerland, astride Trout Creek and the Canadian Pacific Railway tracks, at 800 metres elevation.

(82E/12W)

CLAIMS: FAP 1 and 2, SUN 1 and 2.
OWNER: AUSTRO-CAN EXPLORATIONS LTD., 2050, 777 Hornby Street, Vancouver.
METAL: Copper.
DESCRIPTION: The claims are underlain by greenish grey, siliceous dolomite, carrying minor pyrite and chalcopyrite intruded by fenite (?).
WORK DONE: 1974 — one diamond-drill hole totalling approximately 40 metres on Fap 2.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 52; Assessment Report 5445; MI 82E/NW-48.

ARNIE (X) (Fig. E-1, NTS 82, No. 31)

LOCATION: Lat. 49° 39' Long. 119° 58' (82E/12W)
OSOYOOS M.D. Twenty kilometres west-northwest of Summerland, between Lost Chain, Bear Paw, and Trout Creeks, at approximately 1 200 metres elevation.
CLAIMS: ARNIE 4 to 7, JOHN 1 to 3, 8, COL 1 to 30, 35 to 98, COL 31 and 32 Fractions.
OWNERS: Cro-Mur Mining and Exploration Co. Ltd. and Canadian Occidental Petroleum Ltd.
OPERATOR: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ont.
METALS: Copper, molybdenum.
DESCRIPTION: Within the claim area, a heterogeneous diorite has been intruded by a coarse-grained granodiorite. A contact metamorphic zone of hornblende porphyry as well as an early mafic (biotite-rich) granodiorite phase occurs at the margin of the granodiorite. Pyrite, chalcopyrite, and molybdenite, with some malachite staining, occur as disseminations in the sheared, mafic granodiorite phase.
WORK DONE: Surface geological mapping, 1 centimetre equals 48 metres and geochemical survey, 1 803 soil samples, 210 rock samples, and 189 stream sediment samples, 113 line-kilometres, 33-metre on 122-metre grid spacing covering all claims; surface diamond drilling, three holes totalling 275 metres on John 3 and Arnie 3 and 7; road construction, 0.5 kilometre on John 3 and Arnie 3 and 7 claims.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 61; Assessment Reports 5571, 5572, 5686; MI 82E/NW-14.

SIL (Fig. E-1, NTS 82, No. 35)

LOCATION: Lat. 49° 50' Long. 119° 51' (82E/13W)
OSOYOOS M.D. Twenty-five kilometres west of Kelowna, 1 kilometre northwest of Silver Lake, on the southeast slope of Wilson Mountain, at approximately 1 260 metres elevation.
CLAIMS: SIL 1 to 20.

(82E/13W)

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ont.

METALS: Copper, zinc, molybdenum.

DESCRIPTION:

A narrow band of andesitic, dacitic, rhyodacitic, and rhyolite tuffs and interlayered argillites extends across the southwest part of the claim area, intruded by monzonite on the northeast and by granodiorite on the southwest. The volcanic rocks have been pervasively altered by chloritic epidote-quartz-carbonate-pyrite fractures.

Pyrite, pyrrhotite, chalcopyrite, and sphalerite occur as disseminations, fracture fillings, pods, and nearly massive lenses in the volcanic rocks. These sulphides as well as a minor occurrence of molybdenite are also present within the quartz-carbonate veins.

WORK DONE: Surface diamond drilling, one hole totalling 92.4 metres on Sil 5; 1 kilometre of road on Sil 5 reconstructed.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 62, 63; MI 82E/NW-49.

MAURICE (Fig. E-1, NTS 82, No. 33)

LOCATION: Lat. 49° 55' Long. 119° 49' (82E/13W)
VERNON M.D. Twenty-three kilometres west of Kelowna, extending northwest from Jackpine Lake, at approximately 1 300 metres elevation.

CLAIMS: MAURICE 1 to 4.

OWNER: M. R. CHAPLIN, Box 737, Westbank.

METALS: Molybdenum, copper, gold.

DESCRIPTION: Veins are present in granodiorite.

WORK DONE: Stripping, approximately 2 000 square metres on Maurice 4.

REFERENCE: MI 82E/NW-50.

TRE (Fig. E-1, NTS 82, No. 34)

LOCATION: Lat. 49° 56' Long. 119° 59' (82E/13W)
OSOYOOS and NICOLA M.D. Thirty-five kilometres west of Kelowna, 6.4 kilometres north of the Brenda mine, covering the headwaters of Trepanier Creek, at approximately 1 500 metres elevation.

CLAIMS: TRE 1 to 6, TRE 9 to 18 and TRE 7 (2 units), TRE 8 (2 units), TRE 19 (8 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ont.

METALS: Copper, molybdenum.

DESCRIPTION:

The property is underlain by a porphyritic quartz diorite phase of the Brenda stock. Two areas of brecciated quartz diorite, probably intrusive breccias, were mapped in the northern part of the claim group. Alteration assemblages of quartz-hematite-pyrite,

(82E/13E)

chlorite-epidote-K-feldspar, biotite-chalcopyrite, and chlorite are generally confined to fractures and/or the surrounding narrow envelopes.

Chalcopyrite is found mainly as very thin fracture fillings with biotite. Malachite is frequently associated with these mineralized fractures. Molybdenite, found in fewer locations than the chalcopyrite, is generally associated with quartz and hematite fractures as small, rich concentrations.

WORK DONE: Surface geological mapping, 1 centimetres equals 48 metres and geochemical survey, 671 soil samples, 85 rock samples, and 40 stream sediment samples, 29 line-kilometres, 33-metre by 122-metre grid spacing covering Tre 1-6, 9-19; surface diamond drilling, two holes totalling 245.5 metres on Tre 1 and 13; road construction, 0.5 kilometre on Tre 1 and 11.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 64; Assessment Reports 5685, 5691; MI 82E/NW-8.

JB (Fig. E-1, NTS 82, No. 36)

LOCATION: Lat. 49° 58' Long. 119° 44' (82E/13E)

VERNON M.D. Nineteen kilometres northwest of Kelowna, 2 kilometres west of Lambly Lake, at approximately 1 300 metres elevation.

CLAIMS: JB 4, 6, 12 to 18, 20 to 22, PETE Fraction, JOE Fraction.

OWNERS: A. W. McGUIRE, Box 1143, Merritt and G. L. Oates, 2337 Marine Drive, West Vancouver.

WORK DONE: 1974 — linecutting, 7 200 metres on JB 6.

REFERENCE: Assessment Report 5503.

PB (Fig. E-1, NTS 82, No. 37)

LOCATION: The PB claims are divided into three groups:

PB 189 to 214, 217 to 259 —

Lat. 49° 49' Long. 119° 12' (82E/14E)

OSOYOOS and VERNON M.D. Twenty-one kilometres east-southeast of Kelowna, covering Browne and Fish Lakes and the headwaters of Grouse Creek.

PB 81 to 148, 152, 154 to 179 —

Lat. 49° 45' Long. 119° 08' (82E/11E, 14E)

GREENWOOD M.D. Twenty-seven kilometres southeast of Kelowna, on Kallis Creek, east of Hydraulic and Haynes Lakes.

PB 260 to 289 —

Lat. 49° 47' Long. 119° 03' (82E/14E)

GREENWOOD M.D. Thirty-two kilometres east-southeast of Kelowna, extending along the northwest side of the West Kettle River, opposite the mouth of Campin Creek.

CLAIMS: PB 81 to 148, 152, 154 to 179, 189 to 214, 217 to 289.

OWNER: NISSHO-IWAI CANADA LTD., 801, 1111 West Hastings Street, Vancouver V6E 2K1.

(82F/3E)

METAL: Uranium.

DESCRIPTION: Four rock units are common to all the Pb claims: the Monashee Group which is intruded by the Valhalla plutonic rocks, the Kettle River Formation, and the Plateau Basalt Formation which averages 38 metres thickness in drill holes. Uraniferous horizons are found in the basal sandstone, coaly sandstone, and conglomerate of the Plateau Basalt Formation of Tertiary (Miocene ?) age but the uranium mineralization has not yet been identified.

WORK DONE: Surface geological mapping, 1:31 680 covering PB 81-140 and 250-289; surface diamond drilling, 11 holes totalling 773 metres on PB 102, 108, 109, 115, 116 and 18 holes totalling 685 metres on PB 252, 254, 263, 267, 269, 270, 271, 273, 275, 277, 278, and 279.

REFERENCES: *Dept. of Mines & Pet. Res.*, GEM, 1974, p. 64; Assessment Reports 5570, 5582.

NELSON 82F

HB MINE

LOCATION: Lat. 49° 09' Long. 117° 12' (82F/3E)
Report on this property in *Mining in British Columbia, 1975*.

NUGGET

LOCATION: Lat. 49° 10' Long. 117° 07' (82F/3E)
Report on this property in *Mining in British Columbia, 1975*.

M (Fig. E-1, NTS 82, No. 40)

LOCATION: Lat. 49° 14' Long. 117° 08' (82F/3E)
NELSON M.D. Twelve kilometres east-northeast of Salmo, on Howard and Active Creeks, at 1 500 metres elevation.

CLAIMS: M 1 to 18.

OWNER: D. C. WING, 3323 East 58th Avenue, Vancouver.

METALS: Lead, zinc.

DESCRIPTION: Massive to disseminated pyrite, pyrrhotite, sphalerite, and galena and minor chalcopyrite occur in grey and crystalline limestones and interbedded argillites.

WORK DONE: Surface diamond drilling, two holes totalling 17 metres on M 1.

REFERENCES: Assessment Report 5321; MI 82F/SW-240.

(82F/3E)

JACKPOT (Fig. E-1, NTS 82, No. 41)

LOCATION: Lat. 49° 15' Long. 117° 09' (82F/3E)
NELSON M.D. Ten kilometres northeast of Salmo, extending west from Spot Creek, a tributary of Active Creek.

CLAIMS: INK SPOT, JACKPOT, ACE, JAMESONITE, CANADIAN BOY, CANADIAN GIRL, TWO SPOT, SPOT Fraction, CHIEF, JAY, CHIEF Fraction, JAY Fraction, JAMESONITE Fraction, ELM 5 Fraction, RUSH 1, RUSH 1 Fraction, and HUNTER V (Lot 2212), DOUBLE STANDARD (Lot 2213), MERCIA Fraction (Lot 2224), ELDORADO (Lot 5198), CHIHUAHUA (Lot 5199), CARMENCITA (Lot 5201).

OWNER: New Jersey Zinc Exploration Company (Canada) Ltd.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver.

METALS: Lead, zinc.

DESCRIPTION: Isoclinally folded Lower Cambrian carbonate rocks in the south Kootenay Arc host lead-zinc mineralization in dolomite envelopes. The massive sulphides occur in the F₂ fold axis and are described as a concordant Salmo subtype deposit.

WORK DONE: Underground geological mapping, 1:240 covering Two Spot; underground diamond drilling, 27 holes totalling 1 028 metres on Two Spot.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 68; MI 82F/SW-12 to 15.

ARLINGTON, CANADIAN KING (Fig. E-1, NTS 82, No. 42)

LOCATION: Lat. 49° 14' Long. 117° 18' (82F/3W)
NELSON M.D. Five kilometres north-northwest of Salmo, covering Keystone Mountain, between Erie, Rest, and Boulder Mill Creeks, at approximately 1 200 metres elevation.

CLAIMS: ARLINGTON (Lot 3648), ARLINGTON FR. (Lot 3649), CANADIAN KING (Lot 4196), MICAWBER (Lot 4443), MAGGIE (Lot 617), ARMOUR PLATE (Lot 4186), BROAD AXE (Lot 4198), GOLD STANDARD (Lot 4199), HENRY CLAY (Lot 4200), DIRECTORATE (Lot 4442), MICAWBER FR. (Lot 4444), LA DORA (Lot 4459), STRONTIAN (Lot 4460), LA DORA FR. (Lot 4461), MSC (Lot 4623), DIRECTORATE FR. (Lot 4882), ORIGINAL (Lot 5120), FEE DONALD (Lot 5124), ORIGINAL FR. (Lot 5125), NELLIE N (Lot 6057), IRON ARM (Lot 4197), HOULTON (Lot 4626), PRINCESS NO. 1 (Lot 4627), AGNESS (Lot 6060), CORNELIA (Lot 10614) plus REST 1 to 4 (totalling 72 units).

OWNER: Erie Mines Limited.

OPERATOR: SHALMAR RESOURCES LTD., 2965 Glen Lake Road, Victoria.

METALS: Gold, silver, lead, zinc.

DESCRIPTION: A gently dipping series of moderately folded, Lower Jurassic argillites and conglomerates contain a low-angle quartz vein system carrying sulphide mineralization in the folded zones.

(82F/3W)

WORK DONE: VLF EM survey, 4.8 line-kilometres, 240-metre grid spacing and 10.4 line-kilometres, 120-metre grid spacing; geochemical survey, 667 soil samples, 20.16 line-kilometres, 240-metre grid spacing and 230 soil samples, 6.55 line-kilometres, 120-metre grid spacing; linecutting, 36.32 line-kilometres covering Crown-granted claims; surface diamond drilling, five holes totalling 368.4 metres (claims not known).

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1900 to 1964; *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 441; *Geol. Surv., Canada*, Mem. 172, pp. 75, 76; Mem. 308, p. 170 (CLUBINE—COMSTOCK); MI 82F/SW-200, 203, 205.

ANNEX, REEVES MacDONALD MINE

LOCATION: Lat. 49° 01' Long. 117° 22' (82F/3W)
Report on this property in *Mining in British Columbia, 1975*.

SUNSET (Fig. E-1, NTS 82, No. 43)

LOCATION: Lat. 49° 00' Long. 117° 51' (82F/4W)
TRAIL CREEK M.D. Seven kilometres south of the Rossland municipal boundary, extending north from the International Boundary on the west side of Little Sheep Creek, at approximately 1 000 metres elevation.

CLAIMS: SUNSET (Lot 6563), LONE STAR (Lot 4675), PAT 1 to 22.

OWNER: BOW RIVER RESOURCES LTD., 333, 885 Dunsmuir Street, Vancouver.

METALS: Silver, lead, zinc, copper.

DESCRIPTION: Argillites, siltstones, greywacke, and limestones of the Mount Roberts Formation and the Rossland Group of basic flows, breccias, and augite porphyry carry lenses containing galena, sphalerite, and chalcopyrite.

WORK DONE: Surface geological mapping, 1 centimetre equals 47.2 metres and induced polarization survey, 4.54 line-kilometres, 30-metre grid spacing covering Lone Star and Pat claims; trenching, 12 metres on Pat 6; stripping, 60 square metres on Pat 6.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 69; Assessment Report 5776; MI 82F/SW-160.

BLUEBIRD

LOCATION: Lat. 49° 04' Long. 117° 48' (82F/4W)
Report on this property in *Mining in British Columbia, 1975*.

IXL

LOCATION: Lat. 49° 04' Long. 117° 50' (82F/4W)
Report on this property in *Mining in British Columbia, 1975*.

(82F/4W)

MIDNIGHT

LOCATION: Lat. 49° 04' Long. 117° 50' (82F/4W)
Report on this property in *Mining in British Columbia, 1975*.

WHITEWATER (Fig. E-1, NTS 82, No. 44)

LOCATION: Lat. 49° 23' Long. 117° 26' (82F/6W)
NELSON M.D. Fifteen kilometres southwest of Nelson, at the head of Snowwater and Midas Creeks.

CLAIMS: BEAR 1 to 6, TERRY Fraction, FERRY 2 Fraction, TERRY 1 to 5 plus Mineral Leases M-121, M-122, M-131, and M-153 including WHITEWATER (Lot 529), COLUMBIA FR. (Lot 3136), and SNOW WATER (Lot 3137).

OWNER: Margaret Whitelock.

OPERATOR: CORDILLERAN ENGINEERING LIMITED, 1418, 355 Burrard Street, Vancouver.

METALS: Gold, silver.

DESCRIPTION: Although early reports indicated quartz veins within granitic rocks and Rossland Group volcanic rocks, recent work has been centred on pyrite-bearing quartz float. The origin of this float as yet has not been located.

WORK DONE: Geochemical survey, 8 rock chip samples and 11 stream sediment samples on Snow Water (Lot 3137).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 439; Assessment Report 5558; MI 82F/SW-222.

COTTONWOOD (Fig. E-1, NTS 82, No. 45)

LOCATION: Lat. 49° 25' Long. 117° 16' (82F/6W)
NELSON M.D. Seven kilometres south of Nelson, on Gold Creek, 800 metres southwest of Cottonwood Creek, at approximately 1 450 metres elevation.

CLAIMS: KENA 1 to 32.

OWNER: O. Janout.

OPERATOR: LACANEX MINING COMPANY LIMITED, 312, 409 Granville Street, Vancouver.

METALS: Copper, gold.

DESCRIPTION: The claims are underlain by metavolcanic rocks (siliceous andesite to chlorite schist) of the Lower Jurassic Rossland Group intruded by dykes related to the Silver King phase of the Nelson batholith. Pyrite, chalcopyrite, and minor amounts of bornite are found along foliation planes and as disseminations in the andesite and schists.

WORK DONE: Surface geological mapping, 1 centimetre equals 48 metres covering Kena 1-25; EM 16 survey, 6.4 line-kilometres, 120 by 30-metre grid spacing covering Kena 9, 10, 16-25; geochemical soil survey, 517

(82F/6E)

samples, 15 300 line-kilometres, 240 by 30-metre grid spacing with detailed lines 220 by 30 metres; old adit sampled on Kena 22.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 71, 72; Assessment Report 5665; MI 82F/SW-237.

YANKEE GIRL, DUNDEE (Fig. E-1, NTS 82, No. 46)

LOCATION: Lat. 49° 17' Long. 117° 11' (82F/6E)

NELSON M.D. Two to 3 kilometres east of Ymir, between Oscar and Ymir Creeks, at approximately 1 350 metres elevation.

CLAIMS: Twenty-four Crown-granted claims including the YANKEE GIRL (Lot 7712).

OWNER: BURLINGTON MINES & ENTERPRISES LTD., 410, 470 Granville Street, Vancouver.

METALS: Gold, silver, lead, zinc, cadmium.

DESCRIPTION: In the claim area, quartz fissure veins cut diagonally across the trend of Pend-d'Oreille schists. Pyrite, galena, and sphalerite occur at the acute-angled intersections of the fissure veins with granitic tongues of the Nelson batholith.

WORK DONE: Clearing and retimbering 2800 level and 1235 level portals.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1968, p. 240; *Geol. Surv., Canada*, Mem. 94, pp. 107-116; MI 82F/SW-67, 68.

EUPHRATES (Fig. E-1, NTS 82, No. 47)

LOCATION: Lat. 49° 23' Long. 117° 12' (82F/6E)

NELSON M.D. Twelve kilometres south-southeast of Nelson, extending southeast from the Salmo River, below the mouth of Clearwater Creek, at approximately 1 150 metres elevation.

CLAIMS: TRAM 1 to 8.

OPERATOR: BARKER RESOURCES LTD., c/o Cochrane Consultants Ltd., 4882 Delta Street, Delta.

METALS: Gold, silver, lead, zinc.

DESCRIPTION: Quartz veins, with minor chlorite and carbonate, carrying galena, sphalerite, pyrite, arsenopyrite, native silver, and native gold, occur in greenstone of the Elise Formation. The greenstone is noticeably altered near the vein walls.

WORK DONE: Surface work, standard transit and chain, 1:1200, on Tram 1-8.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 65; Assessment Report 5721; MI 82F/SW-186.

CATHERINE (Fig. E-1, NTS 82, No. 48)

LOCATION: Lat. 49° 26.5' Long. 117° 15' (82F/6E)

NELSON M.D. Six kilometres south-southeast of Nelson, 1 kilometre east of Highway 6, at approximately 1 200 metres elevation.

(82F/9E)

CLAIM: CATHERINE (Lot 4437).
OWNERS: C. F. GRAHAM and D. R. COCHRANE, c/o Cochrane Consultants Ltd., 4882 Delta Street, Delta.
METALS: Gold, silver, lead.
DESCRIPTION: In the claim area, greenstone of the Elise Formation has been intruded by a small granitic plug of the Nelson batholith. Pyrite and galena with free gold occur in a quartz vein within the intrusive rocks.
WORK DONE: Surface geological mapping, 1:600, covering a portion of the Catherine claim.
REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1928, p. 320; 1936, p. E44; MI 82F/SW-209.

KING (Fig. E-1, NTS 82, No. 51)

LOCATION: Lat. 49° 33' Long. 116° 01' (82F/9E)
FORT STEELE M.D. Thirteen kilometres southeast of the saw mill on St. Mary Lake, on the road between Lisbon and Perry Creeks, at approximately 1 300 metres elevation.
CLAIM: KING 1.
OWNER: HELMUT W. ZIEMAND, Box 1173, High River, Alta.
DESCRIPTION: The claim is underlain by Creston argillite, which is up-faulted against Cambrian argillite and quartzite immediate north of the claim. Near the fault the Creston is intruded by dykes of granodiorite and olivine gabbro.
WORK DONE: Surface geological mapping, 1:3600, covering King 1.
REFERENCE: *Assessment Report 5362.*

SULLIVAN MINE

LOCATION: Lat. 49° 43' Long. 116° 00' (82F/9E; 82G/12W)
Report on this property in *Mining in British Columbia, 1975.*

DIANNE (Fig. E-1, NTS 82, No. 53)

LOCATION: Lat. 49° 30.5' Long. 116° 40' (82F/10E)
NELSON M.D. Twenty-one kilometres south-southeast of the Crawford Bay settlement, on the ridge separating the headwaters of La France Creek from Lockhart Creek.
CLAIMS: DIANNE 1 and 2, MICHELLE 1 and 2.
OWNER: DAVID WIKLUND, Box 81, Boswell.
WORK DONE: Soil sampling on Dianne 1 and 2, 108 samples analysed for lead and zinc.
REFERENCE: *Assessment Report 5651.*

(82F/10E)

SANDY (Fig. E-1, NTS 82, No. 54)

LOCATION: Lat. 49° 32' Long. 116° 39.5' (82F/10E)
NELSON M.D. Nineteen kilometres southeast of the Crawford Bay settlement, extending west from the southern tributary of La France Creek, approximately 100 metres south of the main creek.

CLAIMS: SANDY 1 and 2.

OWNER: DAVID WIKLUND, Box 81, Boswell.

WORK DONE: Soil sampling on Sandy 1, 50 samples analysed for lead and zinc.

REFERENCE: Assessment Report 5632.

TREN (Fig. E-1, NTS 82, No. 55)

LOCATION: Lat. 49° 33' Long. 116° 39.5' (82F/10E)
NELSON M.D. Eighteen kilometres southeast of the Crawford Bay settlement, extending south from La France Creek along its southern tributary, at approximately 1 500 metres elevation.

CLAIMS: TREN 1 to 4.

OWNER: R. G. TRENAMAN, 4399 Eagle Nest Crescent, Prince George V2M 4Y5.

WORK DONE: Soil sampling on Tren 2, 100 samples analysed for cold extractable total heavy metal.

REFERENCE: Assessment Report 5710.

ARLINGTON

LOCATION: Lat. 49° 47' Long. 117° 22' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

MORNING STAR

LOCATION: Lat. 49° 47' Long. 117° 26' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

OTTAWA (Fig. E-1, NTS 82, No. 49)

LOCATION: Lat. 49° 47.5' Long. 117° 24' (82F/14W)
SLOCAN M.D. Five and one-half kilometres east-northeast of Slocan, extending north from Springer Creek between Little Tim and Algiers Creek, at approximately 1 500 metres elevation.

CLAIMS: OTTAWA (Lot 4968), HAMILTON, TORONTO, JINNIE (also JAMIE), BLOSSOM FR. (Lots 4771 to 4774), MORRIS (Lot 5273), HAMILTON FR. (Lot 5968), ARICLE, MAYETA, LOUISVILLE (Lots 6459 to 6461), ALMA B (Lot 6922), I WONDER (Lot 6928), ABC FR. (Lot 6930), MAYETA FR. (Lot 6933), TRIUNE (Lot 8770), HAMILTON FR. (Lot 14467), DOUBLE CROSS FR. (Lot 14806).

(82F/14W)

OWNER: SLOCAN DEVELOPMENT CORPORATION LIMITED, 2002, 1177
West Hastings Street, Vancouver V6E 2K3.
METALS: Silver, lead, zinc, copper.
DESCRIPTION: Sulphide-bearing quartz veins and lenses occur within a breccia zone in
granitic rocks of the Nelson batholith. The mineralization includes
mainly argentite, native silver, and tetrahedrite, with some pyrite,
galena, and sphalerite, and lesser amounts of chalcopyrite.
WORK DONE: Underground work, 2.1 kilometres on Hamilton Fr.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 73; *Geol. Surv.,
Canada*, Mem. 184, pp. 182, 183; MI 82F/NW-155.

ENTERPRISE

LOCATION: Lat. 49° 49' Long. 117° 20' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

LITTLE TIM

LOCATION: Lat. 49° 49' Long. 117° 22' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

EASTMONT

LOCATION: Lat. 49° 50' Long. 117° 19' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

KALISPELL

LOCATION: Lat. 49° 52' Long. 117° 25' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

GALENA FARM

LOCATION: Lat. 49° 56' Long. 117° 22' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

RED DEER VALLEY

LOCATION: Lat. 49° 57' Long. 117° 21' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

WESTERN EX

LOCATION: Lat. 49° 57' Long. 117° 21' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

(82F/14W)

SILMONAC

LOCATION: Lat. 49° 58' Long. 117° 15' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

HECLA MINE

LOCATION: Lat. 49° 58' Long. 117° 17' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

BOSUN

LOCATION: Lat. 49° 58' Long. 117° 22' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

VICTOR (VIOLAMAC)

LOCATION: Lat. 50° 00' Long. 117° 16' (82F/14W)
Report on this property in *Mining in British Columbia, 1975*.

SCRANTON MINE

LOCATION: Lat. 49° 47' Long. 117° 04' (82F/14E)
Report on this property in *Mining in British Columbia, 1975*.

INDEX (Fig. E-1, NTS 82, No. 50)

LOCATION: Lat. 49° 51' Long. 117° 08' (82F/14E)
SLOCAN M.D. Nineteen kilometres southeast of Silverton, extending south from Desmond Creek, at approximately 1 350 metres elevation.
CLAIMS: DEX 1 to 5.
OWNER: ANDEX MINES LTD., 305, 543 Granville Street, Vancouver.
METALS: Silver, lead, zinc.
DESCRIPTION: Quartz veins, carrying pyrite, galena, sphalerite, and arsenopyrite, occur within a shear zone in tightly folded and brecciated metamorphosed argillites and limestone in close proximity to a granitic intrusion.
WORK DONE: Trenching, 6 metres on Dex 2.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 59; MI 82F/NW-101.

COPA (Fig. E-1, NTS 82, No. 56)

LOCATION: Lat. 49° 52' Long. 116° 46' (82F/15W)
SLOCAN M.D. Thirteen kilometres north-northeast of Riondel, astride Bernard Creek, 6 kilometres east of Kootenay Lake, at approximately 1 200 metres elevation.

(82F/16E)

CLAIMS: COPA 1 to 16, OPZN 3 to 8.
OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver.
DESCRIPTION: The property is underlain by Windermere sedimentary rocks of Late Proterozoic age which dip moderately to steeply to the west. The sedimentary rocks consist of quartzites, paragneisses, schists, and magnesian limestones.
WORK DONE: Geochemical soil survey, 183 samples, 5.3 line-kilometres, 30-metre by 120-metre grid spacing, covering OPZN 3-8.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 77; Assessment Report 5688.

NINE LAKE (Fig. E-1, NTS 82, No. 57)

LOCATION: Lat. 49° 59' Long. 116° 12' (82F/16E)
FORT STEELE M.D. Thirty-six kilometres north-northeast of Kimberley on Greenland Creek, a tributary of Skookumchuck River, between 1 800 and 2 400 metres elevation.
CLAIMS: NINE LAKE 41, 52, 57 to 72, 86, 90 to 96, 98, 101 to 110, BA 1 to 4, 7 to 28, NINE LAKE 150 (units 1 to 3, 15, 16), NINE LAKE 151 (units 1 to 4, 14 to 16).
OWNER: KERR ADDISON MINES LTD., 405, 1112 West Pender Street, Vancouver V6E 2S1.
METALS: Tungsten, molybdenum.
DESCRIPTION: Light grey to light brown, thin to thick-bedded micaceous quartzite and siltstone have been intruded by diorite sills and quartz monzonite of the White Creek batholith. Mineralization occurs in fractures, quartzite veins, and shears in the diorite sills and quartzite units.
WORK DONE: Geochemical soil survey, 409 samples, 6.42 line-kilometres, 120-metre grid spacing covering Nine Lake 93, 105, 107, 109, BA 24-16, Nine Lake 150 (units 1-3), and Nine Lake 151 (units 1-3, 14-16); surface diamond drilling, one hole totalling 154.4 metres on Nine Lake 150 (unit 1).
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 82; MI 82F/NE-132.

FERNIE 82G

FORUM (Fig. E-1, NTS 82, No. 58)

LOCATION: Lat. 49° 01' Long. 114° 04' (82G/1E)
FORT STEELE M.D. Two kilometres west of the north end of Cameron Lake, covering the head of Akamina Creek to Forum Lake, at approximately 1 950 metres elevation.
CLAIMS: FORUM 2 to 8, 11 to 16.
OWNER: GOBLE SYNDICATE, Box 763, Cardston, Alta.
METALS: Copper, silver.

(82G/1E)

DESCRIPTION: Finely disseminated bornite and chalcocite occur within a blue-grey, algal dolomite bed in the redbeds of the Phillips Formation of the Precambrian Belt Supergroup.

WORK DONE: 1974 and 1975 -- surface diamond drilling, four holes totalling 95 metres on Forum 12; some geophysical work during 1975.

REFERENCES: Assessment Report 5695; MI 82G/SE-45.

OPAL (Fig. E-1, NTS 82, No. 59)

LOCATION: Lat. 49° 00' Long. 114° 13' (82G/1E)

FORT STEELE M.D. Nineteen kilometres east of Flathead, extending north from the International Boundary down the southeast end of Starvation Valley, at approximately 2 100 metres elevation.

CLAIMS: OPAL 1 to 9.

OWNER: Goble Syndicate.

OPERATOR: KINTLA EXPLORATIONS LIMITED, 11420 -- 73rd Avenue, Edmonton, Alta.

METALS: Copper, silver, lead.

DESCRIPTION: Bornite, chalcocite, and covellite, with malachite and azurite, occur in grey quartzites and sandstones with redbeds of the Grinnell Formation. The redbeds have been cut by a quartz diorite sill-dyke system carrying blobs and veinlets of galena and chalcopyrite.

WORK DONE: 1974 and 1975 -- surface diamond drilling, three holes totalling 65 metres on Opal 7; some geophysical work during 1975.

REFERENCES: Assessment Report 5696; MI 82G/SE-46.

LIN (Fig. E-1, NTS 82, No. 60)

LOCATION: Lat. 49° 03' Long. 114° 16' (82G/1W)

FORT STEELE M.D. Sixteen kilometres east-northeast of Flathead, extending north from Starvation Peak to the south side of Kishinena Creek, at approximately 2 550 metres elevation.

CLAIMS: LIN 13, 14, 16, 18, 20 to 26.

OWNER: Goble Syndicate.

OPERATOR: KINTLA EXPLORATIONS LIMITED, 11420 -- 73rd Avenue, Edmonton, Alta.

METALS: Copper, silver.

DESCRIPTION: Covellite, bornite, and chalcocite are present in quartzites and sandstones within redbeds of the Grinnell Formation of the Precambrian Belt Supergroup. The beds dip to the northeast forming part of the Lewis thrust.

WORK DONE: Surface diamond drilling, four holes totalling 95 metres on Lin 21; some geophysical work.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 478; Assessment Report 5694; MI 82G/SE-8, 11.

(82G/1W)

COMMERCE (Fig. E-1, NTS 82, No. 61)

LOCATION: Lat. 49° 11' Long. 114° 22' (82G/1W)
FORT STEELE M.D. Approximately 6 kilometres east of the Flathead River, covering the headwaters of Commerce Creek, at approximately 2 100 metres elevation.

CLAIMS: COMMERCE 1 to 16, 19 to 39, 41 to 48, 50 to 91.

OWNER: KINTLA EXPLORATIONS LIMITED, 11420 — 73rd Avenue, Edmonton, Alta.

METALS: Gold, silver, copper.

DESCRIPTION: In the claim area, sedimentary copper-silver mineralization occurs in the redbeds of the Grinnell and Phillips Formations. These have been intruded by a syenite plug, in places brecciated, and numerous dykes and sills carrying low-grade gold. The area has been highly altered, with much pyrite, pyrrhotite, and arsenopyrite present.

WORK DONE: 1974 — surface diamond drilling, four holes totalling 124 metres on Commerce 4 and 6; 1975 — some geophysical work; road repairs.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 78; Assessment Report 5560; MI 82G/SE-6, 39, 41 to 43.

RIMROCK (Fig. E-1, NTS 82, No. 62)

LOCATION: Lat. 49° 20' Long. 115° 09' (82G/6E)
FORT STEELE M.D. Five kilometres north-northeast of Elko, extending east from the upper part of Caithness Creek, at approximately 1 200 metres elevation.

CLAIMS: RIMROCK 1 to 57, 101 to 128.

OWNER: R. H. STANDFIELD, 460 Wilderness Drive SE., Calgary, Alta.

METAL: Copper.

DESCRIPTION: Minor copper staining and chalcopyrite mineralization occur in light to dark grey banded limestone.

WORK DONE: 1974 — surface diamond drilling, three holes (seven-eighth-inch diameter) totalling 306 metres on Rimrock 3 and 4.

REFERENCES: Assessment Report 5442; MI 82G/SW-41.

CEDAR, CORONADO (Fig. E-1, NTS 82, No. 63)

LOCATION: Lat. 49° 44' Long. 115° 29' (82G/11W)
FORT STEELE M.D. Sixteen kilometres northeast of Fort Steele, extending south from East Wild Horse River, between 1 200 and 2 100 metres elevation.

CLAIMS: CEDAR 1, 3, 7, 10, 22, 23, 28, 29, COR 1 and 2, NEW COR 1 and 2 Fractions, NEW COR 3 to 9, 11, 13, CEDAR EXTENSION 1 to 14, Mineral Lease M-50.

OWNERS: D. L. Pighin, E. Frost, and Cominco Ltd.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver.

METALS: Copper, silver.

(82G/12W)

DESCRIPTION: The claims are underlain by Jubilee dolomite, slate, and argillite of Cambrian age that represent a facies transition or a paleokarst system. Although tetrahedrite was originally discovered as blebs and veinlets in dolomite breccia of the Jubilee Formation, the recent drilling reported only pyrite and magnetite mineralization in tremolitic dolomite.

WORK DONE: Surface diamond drilling, three holes totalling 690 metres on Cedar 10 and Mineral Lease M-50; rotary drilling (BQ) totalling 60 metres; road construction, 0.2 kilometre on Mineral Lease M-50.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 80, 81; Assessment Report 5436, 5584; MI 82G/N-18, 60, 68.

RIGEL, POLARIS (Fig. E-1, NTS 82, No. 65)

LOCATION: Lat. 49° 37' Long. 115° 57' (82G/12W)
FORT STEELE M.D. Fourteen kilometres northwest of Cranbrook, on the St. Mary River, immediately south of Marysville, at approximately 1 000 metres elevation.

CLAIMS: POLARIS 60, 62, 64, 72 to 80, 101 to 112, 131 to 141, RIGEL 2, 4, 6, 8, 17 to 46.

OWNER: Texasgulf Inc.

OPERATOR: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Lead, zinc.

DESCRIPTION: In the claim area, clastic sedimentary rocks of the Aldridge Formation are cut by dioritic Moyie sills. Sparse galena and sphalerite with some pyrite and pyrrhotite occur along bedding planes and in veinlets in Aldridge siltstone.

WORK DONE: Surface diamond drilling, two holes totalling 403 metres on Rigel 17 and 19.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 85, 86; Assessment Report 5634; MI 82G/N-70.

KIM (Fig. E-1, NTS 82, No. 64)

LOCATION: Lat. 49° 40' Long. 115° 52' (82G/12W)
FORT STEELE M.D. Eight kilometres east of Kimberley, extending down the northeast slope of Lone Pine Hill to within 1 kilometre of McGinty Lake, at approximately 1 150 metres elevation.

CLAIMS: KIM 29 to 32, 49 to 54, 71 to 76, 154, 166 to 175, 184 to 190, 198 to 203.

OWNER: Imperial Oil Enterprises Ltd.

OPERATOR: CHEVRON STANDARD LIMITED, 901, 355 Burrard Street, Vancouver.

METALS: Lead, zinc.

DESCRIPTION: The claims are underlain by alternating bands of quartzite and argillite, presumed to be part of the Middle Aldridge Formation. Graded bedding

(82K/2W)

was interpreted as being formed by turbidite flows. Although traces of lead and zinc mineralization were found in the core holes drilled in 1969, no base metals were seen in the 1975 core.

WORK DONE: Surface diamond drilling, one hole totalling 161 metres on Kim 53.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 346; Assessment Report 5638.

LARDEAU 82K

GALAXY, MILDEW (Fig. E-1, NTS 82, No. 66)

LOCATION: Lat. 50° 03' Long. 116° 55' (82K/2W)

SLOCAN M.D. Ten kilometres south of the Lardeau post office, on the west side of Kootenay Lake opposite Fry Point.

CLAIMS: GALAXY, MILDEW, SPADE.

OWNER: D. C. GORDON, Johnson's Landing.

DESCRIPTION: Interleaved mica schist, greenstone, quartzite, limestone, and granite sheets underlie the east part of the claims. Some concordant quartz veins carry minor pyrite and sphalerite.

WORK DONE: 1974 — prospecting on Galaxy and Mildew; hand stripping.

REFERENCE: Assessment Report 5337.

CRAIGIE FR. (Fig. E-1, NTS 82, No. 69)

LOCATION: Lat. 50° 00' Long. 117° 10' (82K/3E)

SLOCAN M.D. Fourteen kilometres east of New Denver, on the west side of Stenson Creek, at approximately 1 800 metres elevation.

CLAIMS: CRAIGIE FR., CUSTER FR.

OWNER: RONALD SAALFELD, Box 341, Kaslo.

DESCRIPTION: The recent drilling intersected slaty to carbonaceous argillite containing thin stringers of pyrite and calcite.

WORK DONE: Surface diamond drilling, one hole totalling 15 metres on Craigie Fr.

REFERENCES: *Geol. Surv., Canada*, Mem. 184, pp. 210, 211; Assessment Report 5644.

WASHINGTON

LOCATION: Lat. 50° 00' Long. 117° 13' (82K/3E)

Report on this property in *Mining in British Columbia, 1975*.

ANTOINE

LOCATION: Lat. 50° 00' Long. 117° 12' (82K/3E)

Report on this property in *Mining in British Columbia, 1975*.

(82K/3E)

WHITE WATER

LOCATION: Lat. 50° 03' Long. 117° 08' (82K/3E)
Report on this property in *Mining in British Columbia, 1975*.

McALLISTER (Fig. E-1, NTS 82, No. 72)

LOCATION: Lat. 50° 03' Long. 117° 14' (82K/3E)

SLOCAN M.D. Eleven kilometres northeast of New Denver, on the northwest side of London Ridge, on McEllis and Chatham Creeks, at approximately 1 800 metres elevation.

CLAIMS: REDGEWAY, SILVER QUEEN, SILVER KING, ROWSE FR. (Lots 11898 to 11901).

OWNER: Slocan Silver Mines Ltd.

OPERATOR: PREMIER RESOURCES LTD., 410, 470 Granville Street, Vancouver.

METAL: Silver.

DESCRIPTION: Dry silver ore, principally tetrahedrite, occurs in a quartz vein within quartzites, argillites, limestones, and slates of the Slocan Group.

WORK DONE: Regrading and widening of mine road, 5.6 kilometres; bulldozing for portal on No. 6 level; driving of tunnel on No. 6 level, 21 metres.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, pp. 454, 455; *Geol. Surv., Canada*, Mem. 184, pp. 79-81; MI 82K/SW-25.

PANAMA, SILVER GLANCE

LOCATION: Lat. 50° 04' Long. 117° 12' (82K/3E)
Report on this property in *Mining in British Columbia, 1975*.

GARNET, ROBIN, MAYFLOWER (Fig. E-1, NTS 82, No. 70)

LOCATION: Lat. 50° 04' Long. 117° 07' (82K/3E)

SLOCAN M.D. Nineteen kilometres east-northeast of New Denver, extending west from the west fork of Lyle Creek to Whitewater Creek.

CLAIMS: CONNIE FR. (Lot 5818), WHISTLER (Lot 5614), PAISLEY (Lot 5612), EMERALD FR. (Lot 5821), RUBY FR. (Lot 5820), GARNET (Lot 2842), ROBIN (Lot 2509), WILD SWAN (Lot 2510), MAYFLOWER (Lot 4458), VIRGINIA (Lot 3337), CUBA (Lot 5609).

OWNER: PETER LEONTOWICZ, R.R. 1, New Denver.

METALS: Gold, silver, lead, zinc, copper.

DESCRIPTION: The claims are mainly underlain by Kaslo greenstone and a large serpentinite sill. Slocan slates underlie the Mayflower claim. The rocks strike northwest and are transected by northeast-striking joints on the Robin, Garnet, and Ruby claims. Chalcopyrite occurs along these joints, and near them quartz veins carrying pyrite, chalcopyrite, and some free gold have been injected along rock contacts. Pods of sphalerite, galena, and tetrahedrite occur along the Kaslo-Slocan contact.

(82K/3E)

WORK DONE: 1974 — prospecting covering Connie Fr., Whistler, Paisley, Emerald Fr., Ruby Fr., Garnet, Robin, Wild Swan, and Mayflower.

REFERENCES: Assessment Report 5401; MI 82K/SW-76 to 78.

PERTH (Fig. E-1, NTS 82, No. 73)

LOCATION: Lat. 50° 10' Long. 117° 11' (82K/3E)

SLOCAN M.D. Twenty-two kilometres northeast of New Denver, 0.5 kilometre north of Cooper Creek, on the south side of Mount Cooper, at 1 500 metres elevation.

CLAIMS: PERTH (Lot 8794), PYRITE (Lot 8793).

OWNER: Otakar Janout.

OPERATOR: BRASCAN RESOURCES LIMITED, 502, 1155 West Pender Street, Vancouver.

METALS: Copper, zinc.

DESCRIPTION: Volcanic rocks carry pyrite and pyrrhotite with variable amounts of chalcopyrite and sphalerite.

WORK DONE: Prospecting; three samples assayed for gold, silver, copper, and zinc covering Perth and Pyrite.

REFERENCES: Assessment Report 5636; MI 82K/SW-79.

SHANNON

LOCATION: Lat. 50° 05' Long. 117° 35' (82K/4E)

Report on this property in *Mining in British Columbia*, 1975.

BS, PHD (JOHN) (Fig. E-1, NTS 82, No. 74)

LOCATION: Lat. 50° 28' Long. 117° 07' (82K/6E)

SLOCAN M.D. Fifty-five kilometres northeast of Nakusp, on the eastern side of Mount Johnson, at approximately 2 100 metres elevation.

CLAIMS: JOHN 1 to 10.

OWNER: SPROATT SILVER MINES LTD., 333, 885 Dunsmuir Street, Vancouver.

METALS: Zinc, silver, lead, gold.

DESCRIPTION: Tightly folded bands of limestone, close to a greenschist contact, carry lenses of brown-weathering dolomite containing sphalerite, galena, and tetrahedrite.

WORK DONE: Geochemical soil survey, 200 samples, 2 line-kilometres, 60-metre grid spacing and trenching on John 3 and 5.

REFERENCES: Assessment Report 86, 5736; MI 82K/SW-80, 81.

(82K/8W)

RAD (Fig. E-1, NTS 82, No. 67)

LOCATION: Lat. 50° 25' Long. 116° 24' (82K/8W)
GOLDEN M.D. Twenty-seven kilometres west-southwest of Invermere, astride Delphine Creek, at approximately 1 590 metres elevation.

CLAIMS: MORIA A1, MORIA 2 to 5, NEW 1 to 5, US 1 to 4, RAD 1, 3 to 5, 16, 17, 28, 40, 41.

OWNER: Medesto Exploration Ltd.

OPERATOR: MORIA MINING LTD., 2, 215A — 10th Street NW., Calgary, Alta. T2N 1V5.

METALS: Silver, lead, (zinc).

DESCRIPTION: The claims are underlain by dolomitic limestone, argillite, slate, and quartzite of the Mount Nelson Formation, a sequence of Precambrian sedimentary rocks of the Purcell Supergroup. Silver and lead mineralization occurs in fractures and faults associated with a granodiorite intrusion and with the Mount Nelson Formation.

WORK DONE: Seismic survey; electromagnetic survey, 30-metre by 15-metre grid spacing; geochemical soil survey, 136 samples, 30-metre by 7.5-metre grid spacing covering Rad 40, 41 and US 1, 2.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 91; Assessment Report 5542; MI 82K/SE-27.

REDMAC (Fig. E-1, NTS 82, No. 68)

LOCATION: Lat. 50° 30' Long. 116° 27' (82K/8W, 9W)
GOLDEN M.D. Twenty-nine kilometres west of Invermere, extending south from the confluence of Red Line Creek and McDonald Creek.

CLAIMS: REDMAC 1 to 19 (5 to 19 have forfeited).

OWNERS: V. Winsor, W. Konkin, V. Bostock.

OPERATOR: LONGBAR MINERALS LTD., 12225 — 105th Avenue, Edmonton, Alta.

METALS: Lead, silver.

DESCRIPTION: Sedimentary rocks of the Upper Purcell Dutch Creek Formation carry lead-silver mineralization.

WORK DONE: VLF EM, Crone JEM, and magnetometer surveys covering Redmac 1-4.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 84; Assessment Report 5642; MI 82K/NE-59.

GROTTO (Fig. E-1, NTS 82, No. 75)

LOCATION: Lat. 50° 34' Long. 116° 21' (82K/9W)
GOLDEN M.D. Twenty-three kilometres west-northwest of Invermere, extending north from Horsethief Creek, opposite the mouth of Gopher Creek, at approximately 1 350 metres elevation.

CLAIMS: GROTTO 1 to 25, 30 Fraction.

OWNER: Grotto Silver Mines Ltd.

(82K/9W)

OPERATOR: COMINCO LTD., 2450 Cranbrook Street, Cranbrook V1C 3T4.
METALS: Silver, lead, zinc.
DESCRIPTION: Disseminated pyrite, galena, sphalerite, and smithsonite occur in fractures and carbonate breccia in dolomites of the Jubilee and Beaverfoot (Brisco ?) Formations.
WORK DONE: Surface geological mapping, 1:9600 covering all claims; surface diamond drilling four holes totalling 272 metres on Grotto 1 and 2; rotary drilling; topography mapped; road construction, 0.2 kilometre on Grotto 1 and 2.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 74; Assessment Report 5543; MI 82K/NE-17.

BALTIC (Fig. E-1, NTS 82, No. 76)

LOCATION: Lat. 50° 38' Long. 116° 19' (82K/9W)
GOLDEN M.D. Twenty-five kilometres northwest of Invermere, north of Mount Forster, on Forster Creek, at approximately 1 400 metres elevation.
CLAIMS: BALTIC 1 to 37.
OWNERS: G. Larrabee, A. Louie, and Cominco Ltd.
OPERATOR: COMINCO LTD., 2450 Cranbrook Street, Cranbrook.
METALS: Silver, lead, zinc.
DESCRIPTION: Fossiliferous dolomite and sandy dolomite overlie a basement high of Cambrian Jubilee dolomites and Horsethief conglomerates. Pyrite, galena, sphalerite, and smithsonite occur in fossiliferous dolomite breccia at the base of a cherty clastic unit of the Ordovician Beaverfoot (Brisco ?) Formation.
WORK DONE: Surface geological mapping, 1:960 covering all claims; geochemical soil survey, 500 samples, 17.6 line-kilometres, 60-metre by 30-metre grid spacing covering Baltic 2 and 15; core assays, 69 covering Baltic 2 and 15; surface diamond drilling, seven holes, 539 metres on Baltic 2 and 15; rotary drilling; topography mapped; chain and compass survey; road construction, 2 kilometres on Baltic 2 and 3.
REFERENCES: Assessment Report 5555; MI 82K/NE-64.

LUCKY BOY, COPPER CHIEF (Fig. E-1, NTS 82, No. 80)

LOCATION: Lat. 50° 38' Long. 117° 36' (82K/12E)
REVELSTOKE M.D. Four kilometres west of Trout Lake village, on and extending east from Wilkie Creek, at approximately 1 350 metres elevation.
CLAIMS: CH (Lot 4741), XYZ (Lot 4742), CD (Lot 4743), BLUE JAY (Lot 4744), DOUBTFUL (Lot 4745), LB (Lot 5423); Mineral Lease M-24 comprising HORSESHOE (Lot 5342); ANEX, LB Fraction, LUCKY JAY 1 to 3, 6, 7, 9 to 11, ROVER 2 to 7, COPPER CHIEF MOLY, COPPER CHIEF MOLY 1 and 2, TL 1 (units 1, 2, 15, 16), TL 2 (units 1, 2, 15 to 18), TL 3 (unit 1).

(82K/13E)

OWNERS: Alan Marlow and Beulah M. Oakey.
OPERATOR: NEWMONT MINING CORPORATION OF CANADA LIMITED, 1230,
355 Burrard Street, Vancouver V6C 2G8.

METALS: Molybdenum, silver, lead, zinc, tungsten.

DESCRIPTION:

The property is underlain predominantly by a series of phyllite, argillite, and impure quartzite, containing bands of limestone-dolomite skarn. These rocks have been intruded by a small granodiorite stock.

Molybdenite and minor pyrite occur in quartz veins contained within the stock and continuing out into the adjacent schists. Disseminated pyrite and pyrrhotite are widespread in the schists, and traces of chalcopyrite can be seen in some areas. Heavy pyrrhotite, along with some scheelite, occurs in the skarn. Quartz veins of the old Lucky Boy and Copper Chief mines carry galena, sphalerite, tetrahedrite, chalcopyrite, and pyrite.

WORK DONE: Surface geological mapping, 1:1200 and 1:2400 covering Anex, CH, XYZ, Lucky Jay 1, 3, 6, 7, 9-11, Copper Chief Moly, Copper Chief Moly 1; magnetometer survey, 2 line-kilometres, 60-metre grid spacing covering Anex and CH; geochemical soil survey, 874 samples, 26 line-kilometres, 60-metre grid spacing covering Lots 4741 to 4745 and 5423, Mineral Lease M-24, Anex, LB, Lucky Jay 1-3, 6, 7, 9-11, Copper Chief Moly, Copper Chief Moly 1, 2, and Rover 4-6.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 465; *B.C. Dept. of Mines & Pet. Res.*, Bull. 45, pp. 59-64; Assessment Report 5598; MI 82K/NW-3, 4, 87.

TREADWELL (Fig. E-1, NTS 82, No. 82)

LOCATION: Lat. 50° 47.5' Long. 117° 38.5' (82K/13E)
REVELSTOKE M.D. Eight kilometres northeast of Beaton, at the old Camborne millsite and mine office on Pool Creek.

CLAIMS: TREADWELL (Lot 5402), CAM (1 unit).

OWNERS: C. NELSON, D. HOPPER, P. DUPRAS, D. REINKE, S. VISSER, c/o
828 West Hastings Street, Vancouver.

METALS: Gold, silver (in tailings).

DESCRIPTION: The area being worked on comprises the tailings dump of the old Sunshine Lardeau Mines Ltd., which milled material from various properties in the area.

WORK DONE: Mineral content of old tailings pond checked; 32 samples assayed for gold and silver covering Treadwell and Cam.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., numerous references under Spider mine; Assessment Report 5690.

(82K/13E)

OYSTER, CRITERION, EVA (Fig. E-1, NTS 82, No. 81)

LOCATION: Lat. $50^{\circ} 48'$ Long. $117^{\circ} 37'$ (82K/13E)
REVELSTOKE M.D. Nine kilometres northeast of Beaton, immediately east of Camborne, between Pool and Selkirk Creeks.

CLAIMS: HIGHLAND MARY (Lot 5171), EVA (Lot 5172), OYSTER (Lot 5416), CRITERION (Lot 5417), ROSSLAND (Lot 4775), CHOLLA (Lot 5399), MERIDIAN FR. (Lot 8713), etc., totalling 30.

OWNERS: N. L. Rasmussen and Guy Allan.

OPERATOR: IMPALA RESOURCES LTD., 315, 610 Eighth Avenue SW., Calgary, Alta.

METALS: Gold, silver.

DESCRIPTION: Several gold-bearing quartz veins strike northwest through meta-sedimentary rocks of the Lardeau Group.

WORK DONE: 1974 — Located old workings and traced out the veins; nine vein samples and seven dump samples taken.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1968, p. 265; *Geol. Surv., Canada*, Mem. 161, pp. 35-39; Assessment Report 5172; MI 82K/NW-64 to 66.

ATLAS (RR) (Fig. E-1, NTS 82, No. 77)

LOCATION: Lat. $50^{\circ} 56'$ Long. $116^{\circ} 57'$ (82K/15W)
GOLDEN M.D. Forty-one kilometres west of Spillimacheen, extending south from the Ruth Vermont property, on Crystal Creek, the northern tributary of Crystalline Creek, at approximately 1 740 metres elevation.

CLAIMS: BR 2, 3, 6, 8, 10, 14 to 16, RR 1 to 24, ML 1 and 2, RJR 1 to 14, 21, 22.

OWNERS: R. Renn (Mr. and Mrs.).

OPERATOR: MEDESTO EXPLORATION LTD., 4, 215A — 10th Street NW., Calgary, Alta. T2N 1V5.

METALS: Lead, silver, zinc.

DESCRIPTION: Within the claim area, argillite is the most prominent rock type although both limestones and quartzites are present. Scattered occurrences of galena were observed in both quartzites and argillites.

WORK DONE: 1974 — reconnaissance surface geological mapping, 1:1200 and geochemical soil survey, 901 samples, 7.2 line-kilometres, 7.5-metre by 60-metre grid spacing covering RR 1, 2, 21, and 22; 1975 — surface diamond drilling, four holes totalling 80 metres on RR 1, 2, and 21.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1966, pp. 236, 237; Assessment Report 5446; MI 82K/NE-10.

(82K/16W)

BEVERLY MINE (Fig. E-1, NTS 82, No. 79)

LOCATION: Lat. 50° 57' Long. 116° 28' (82K/16W)
GOLDEN M.D. Eight kilometres northwest of Spillimacheen, on the northeast slope of Jubilee Mountain, at approximately 1 500 metres elevation.

CLAIMS: LUCK 1 to 12, SILVER KING (Lot 648), LANCASTER (Lot 1112), MOUNTAIN DAISY (Lot 647), CORNWALL (Lot 15305), WINCHESTER (Lot 15304), LONDON (Lot 15303), HORSESHOE (Lot 266), ATLANTA (Lot 134), FERMONAGH FR. (Lot 15306), and TM 1 (units 1 and 2), TM 2 (units 1 to 3), TM 3 (units 1 to 3), TM 4 (units 1 to 3), TM 5 (units 1 and 2).

OWNERS: Peter Klau, Beverley Mines Limited, and DeKalb Mining Corporation.

OPERATOR: DeKALB MINING CORPORATION, 6th Floor, 630 Sixth Avenue SW., Calgary, Alta. T2P 0S8.

METALS: Lead, silver, zinc, copper, gold.

DESCRIPTION: Disseminated galena, sphalerite, chalcopryite, and chalcocite occur in a breccia matrix within dolomitic limestone of the Jubilee Formation of Upper Cambrian age.

WORK DONE: Surface geological mapping, 1:2400 covering all claims; electromagnetic survey, 3.9 line-kilometres, 60-metre grid spacing covering Lot 15303 and Luck 2; geochemical soil survey, 800 samples, 12 line-kilometres, 60-metre grid spacing covering Winchester, London, Luck 2 and 4, TM 1 (units 1 and 2), TM 2 (units 1 and 2), and TM 3 (units 1 and 2); surface diamond drilling, 12 holes totalling 960 metres on London and TM 4 (unit 1); surface workings surveyed; linecutting, 12 line-kilometres covering London, Winchester, Luck 2 and 4, and TM 1 to 4; road construction, 1 kilometre on TM 4 (units 1 and 2).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 85; MI 82K/NE-1, 28.

VERNON 82L

ST. PAUL (TOUGHNUT, MINERVA) (Fig. E-1, NTS 82, No. 83)

LOCATION: Lat. 50° 09' Long. 118° 27' (82L/1W)
VERNON M.D. Thirty-eight kilometres east-southeast of Lumby, on the north slope of Monashee Mountain above Yeoward Creek, between 1 500 and 1 800 metres elevation.

CLAIMS: BLACK BESS, MINERVA, ZILPAH, TOUGHNUT (Lots 4186 to 4189) plus SNOWSHOE, SKB, SNOW, GREAT 1 to 3, HOPEFUL (4 units).

OWNERS: St. Paul Mines Ltd. and Coast Interior Ventures Ltd.

OPERATOR: COAST INTERIOR VENTURES LTD., 534, 789 West Pender Street, Vancouver.

METALS: Silver, gold, copper, zinc, lead, antimony, arsenic.

DESCRIPTION: Argillites and limestones of Upper Paleozoic to Upper Triassic age are

(82L/3E)

intruded by sill-like bodies of altered diorite. Quartz vein stockworks with disseminations, stringers, lenses, and pods of various sulphides, sulpharsenides, and sulphosalts cut all rock types. Mineralization is disseminated in country rock.

WORK DONE: Surface geological mapping, 1:7200, covering Toughnut; trenching, 180 metres on Great 1-3.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 88; MI 82L/SE-10, 22.

COPPER KING (KIK; PETE) (Fig. E-1, NTS 82, No. 84)

LOCATION: Lat. 50° 03' Long. 119° 14' (82L/3E)
VERNON M.D. Twelve kilometres east of Winfield, covering Swalwell Lake, between 1 329 and 1 440 metres elevation.

CLAIMS: PETE 1 to 27.

OWNER: Westley Mines Limited.

OPERATOR: GRANGES EXPLORATION AKTIEBOLAG, 1060, 1055 West Hastings Street, Vancouver.

METALS: Copper.

DESCRIPTION: The claims are underlain by grey granite gneisses and basalts. According to the owner and operator, the Pete claims cover in part the old Copper King group which was reported to have traces of copper mineralization and specks of native copper. However, recent work has noted only pyrite and magnetite.

WORK DONE: Induced polarization survey, 6.72 line-kilometres, 120-metre grid spacing, covering Pete 7-11, 18, 21-25; geochemical soil survey, 89 samples covering Pete 17, 19, 21, 24, 26, 27; percussion drilling, four holes totalling 360 metres on Pete 11, 20, 21, and 24; linecutting, 17 line-kilometres covering Pete 7-11, 13, 15, 18, 21-25.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1973, pp. 99; Minister of Mines, B.C., Ann. Rept., 1929, p. 249; Assessment Report 5412; MI 82L/SW-41.

WHIT (Fig. E-1, NTS 82, No. 85)

LOCATION: Lat. 50° 13' Long. 119° 38' (82L/4E)
VERNON M.D. Twenty-five kilometres west-southwest of Vernon, on the south side of Whiteman Creek valley, between 1 400 and 1 600 metres elevation.

CLAIMS: WHIT 1 to 18, WHIT 19 (4 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ontario.

DESCRIPTION: The property is underlain predominantly by a latite porphyry marginal phase of a zoned syenite intrusion overlain in the southwest corner by unconformable, felsic to mafic volcanic rocks. The age of both the syenite and the volcanic rocks is obscure. The only mineralization found in the claim area is pyrite, accompanied by chlorite, limonite,

(82L/4W)

and jarosite, occurring in an extensive alteration zone of bleaching, silicification, and sericitization.

WORK DONE: Surface geolgocial mapping, 1:4800; geochemical survey, 329 soil samples, 23 rock samples, and 45 stream sediment samples, 20.3 line-kilometres, 33-metre on 122-metre or 244-metre grid spacing; and linecutting, 19.6 line-kilometres covering Whit 1-18.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1968, p. 223 (PAT); Assessment Report 5692.

ALFY, BEAR (Fig. E-1, NTS 82, No. 86)

LOCATION: Lat. 50° 00' Long. 119° 46' (82L/4W)

VERNON and NICOLA M.D. Twenty-six kilometres west of Winfield, covering the western half of Whiterocks Mountain from Tadpole Lake to the head of Bit Creek.

CLAIMS: ALFY 1 to 18, POP 1, 4, 6 to 10, DON 1 to 13, CHARLIE 3, 4, 6, 8 to 14, 16, BEAR 1 to 10, 13, 15, 17, 20 to 36, 46 to 53, BEAR 19 Fraction.

OWNER: ROCKEL MINES LTD., 704, 850 West Hastings Street, Vancouver.

METALS: Copper, silver, molybdenum.

DESCRIPTION: Pyrite and chalcopyrite are locally disseminated in gabbros and pyroxenites. Some molybdenite fracture filling was noted in one section of drill core.

WORK DONE: Surface diamond drilling, three AQ holes totalling 359 metres on Alfy 1, 2, and 6.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 89; Assessment Reports 5341, 5568; MI 81L/SW-5, 9 and 82E/NW-7.

JIM (DEL) (Fig. E-1, NTS 82, No. 87)

LOCATION: Lat. 50° 25' Long. 119° 48' (82L/5W)

KAMLOOPS M.D. Seven kilometres south of Westwold, on and north of Adelphi Creek 1 kilometre east of the Salmon River, at approximately 900 metres elevation.

CLAIMS: DEL (6 units).

OWNER: TECK CORPORATION LTD., 14, 1199 West Hastings Street, Vancouver V6E 2K5.

METAL: Molybdenum.

DESCRIPTION: Granodiorite contains molybdenite in dry fractures.

WORK DONE: Prospecting map, 1:2400.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 80; MI 82L/SW-52.

MOUNT VERNON (Fig. E-1, NTS 82, No. 88)

LOCATION: Lat. 50° 17' Long. 119° 10' (82L/6E)
 VERNON M.D. Six kilometres east of Vernon, on the north side of Vernon Hill, covering the headwaters of Bate and Brookside Creeks, at approximately 1 050 metres elevation.

CLAIMS: ANNE, DCK, SILVER STREAK, etc. claims restaked as VI (9 units), VH (12 units), VJ (16 units), VK (9 units).

OPERATOR: CANADIAN SUPERIOR EXPLORATION LIMITED, Box 100, Smithers.

METALS: Copper, molybdenum.

DESCRIPTION: Chalcopyrite and molybdenite occur within schists and gneisses controlled largely by Jurassic dykes. The claims are underlain predominantly by Monashee gneisses contacting Permian Cache Creek Group rocks at the junction of several fault systems.

WORK DONE: Surface geological mapping, 1:2400; geochemical survey, 67 rock samples; topography mapped, 1:4800, covering all claims; percussion drilling, eight holes totalling 594 metres; road construction, 0.8 kilometre.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 101; Assessment Report 5432; MI 82L/SW-8.

CHAPUT (Fig. E-1, NTS 82, No. 89)

LOCATION: Lat. 50° 16' Long. 118° 57' (82L/7W)
 VERNON M.D. On the northeast side of the village of Lumby, on both sides of Bessette Creek, at approximately 700 metres elevation.

CLAIMS: CHAPUT 5 to 12, BEE 1 to 8, FOX 1, 2, 4, 7, 8, 10.

OWNERS: W. Chaput, E. Chaput, and S. Kostiuk.

OPERATOR: ALBERTA GYPSUM LTD., 615, 330 Ninth Avenue SW., Calgary, Alta. T2P 1K7.

METALS: Lead, gold, silver, zinc, copper.

DESCRIPTION: The property is underlain by metamorphosed sedimentary rocks of the Cache Creek Group and older rocks of the Monashee Group. The ore occurs as a quartz vein type of deposit carrying erratic values in galena, argentite, sphalerite, minor chalcopyrite, pyrite, and pyrrhotite.

WORK DONE: Trenching, 180 metres covering Chaput claims.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 90; MI 82L/SE-6.

KING, DOLLY (Fig. E-1, NTS 82, No. 93)

LOCATION: Lat. 50° 41' Long. 118° 45' (82L/10)
 VERNON M.D. Eight kilometres north of the settlement of Kingfisher, on Kingfisher Creek, 6 kilometres west of Mabel Lake.

CLAIMS: KING 1 to 14, DOLLY 1 to 8.

OWNER: D. W. Philip.

(82L/10E)

OPERATOR: GROVE EXPLORATIONS LTD., Box 11138, 2002 West Georgia Street, Vancouver.
DESCRIPTION: The claims are underlain by gneisses of the Monashee Group.
WORK DONE: Geochemical survey, 124 soil samples analysed for lead covering King 5-8 and Dolly 7, 8.
REFERENCE: Assessment Report 5687.

KINGFISHER, BRIGHT STAR (Fig. E-1, NTS 82, No. 94)

LOCATION: Lat. 50° 44' Long. 118° 44' (82L/10E)
VERNON M.D. Twenty kilometres southeast of Sicamous, 9 kilometres west of the head of Mabel Lake, on Kingfisher Creek, between 600 and 900 metres elevation.
CLAIMS: FC 1 to 13, FX 2 to 22, 24, 25, EX 1 to 7, M 4 to 9.
OWNER: COLBY MINES LTD., 519, 409 Granville Street, Vancouver.
METALS: Lead, zinc, (silver, copper).
DESCRIPTION: The claim area lies within high-grade metamorphic rocks of the Shuswap Complex. Sphalerite and pyrrhotite, with minor pyrite and galena, occur within a central marble unit and the associated calc-silicate gneisses and quartzites.
WORK DONE: Surface diamond drilling, six holes totalling 145 metres on FX 21 and FC 10.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 91-94; MI 82L/NE-4 to 9; *see also* Mining in British Columbia, 1975.

R (Fig. E-1, NTS 82, No. 95)

LOCATION: Lat. 50° 45' Long. 118° 41' (82L/10E)
VERNON M.D. Twenty-three kilometres east-southeast of Sicamous, on the east arm of Kingfisher Creek, at approximately 750 metres elevation.
CLAIMS: R 1, D 1 to 3, 5 to 10, MO 1 to 5, 9, 10.
OWNER: Mrs. L. Malcolm.
OPERATOR: COLBY MINES LTD., 519, 409 Granville Street, Vancouver.
METALS: Lead, zinc.
WORK DONE: Linecutting, 5.4 line-kilometres of grid covering R 1, D 3, and D 7.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 298 (BRIGHT STAR); Assessment Report 5369; MI 82L/NE-19.

PEM (Fig. E-1, NTS 82, No. 90)

LOCATION: Lat. 50° 46' Long. 119° 58' (82L/13W)
KAMLOOPS M.D. Twenty kilometres west-southwest of Chase, covering the headwaters of Paul Creek.
CLAIMS: PEM 1, 2, 5, 6, 13, 15, 17, 27 to 32, 34, 36, 41 to 49.

(82L/14W)

OWNER: DRESSER INDUSTRIES, INC., Minerals Division, 525, 404 Sixth Avenue SW., Calgary, Alta. T2P 0R9.

DESCRIPTION: The recent drill hole intersected volcanic breccia, conglomerate, and shale. Some graphite and minor pyrite were encountered.

WORK DONE: 1974 — surface diamond drilling, one BQ hole totalling 235 metres on Pem 32.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 94, 95; Assessment Report 5399.

IRON POT (PEARLMARIE) (Fig. E-1, NTS 82, No. 91)

LOCATION: Lat. 50° 58' Long. 119° 28' (82L/14W)
KAMLOOPS M.D. Seven and one-half kilometres north of Shuswap Lake, extending west from Scotch Creek along a small east-flowing tributary, at approximately 600 metres elevation.

CLAIMS: PEARLMARIE 1 to 24.

OWNER: GROVER C. WILLIAMS, 4203 Vandyke Place NW., Calgary, Alta. T3A 0J7.

METAL: Copper.

DESCRIPTION: The claims are underlain by quartzites of the Shuswap Complex which have been intruded by basaltic dykes. Both rock types carry chalcopyrite mineralization.

WORK DONE: 1974 and 1975 — prospecting over Pearlmarie 1-8.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1930, pp. 188, 189; Assessment Reports 5433, 5682; MI 82L/NW-15.

(82L/14W)

SILVER KING — SILVER QUEEN (Fig. E-1, NTS 82, No. 92)

LOCATION: Lat. 50° 58' Long. 119° 27' (82L/14W)
KAMLOOPS M.D. Eight kilometres north of the Scotch Creek post office on Shuswap Lake, on Scotch Creek, at approximately 450 metres elevation.

CLAIMS: SILVER KING, SILVER QUEEN, LITTLE VALLEY, COPPER KING, COPPER QUEEN, etc., totalling nine claims.

OWNER: F. C. Hall.

OPERATOR: NORANDA EXPLORATION COMPANY, LIMITED, 1050 Davie Street, Vancouver.

METALS: Silver, lead, zinc.

WORK DONE: 1974 and 1975 — Electromagnetic survey and geochemical soil survey, 120 samples assayed for lead, zinc, silver covering Silver Queen and Silver King.

REFERENCES: Assessment Report 5452; MI 82L/NW-44.

SEYMOUR ARM 82M**ERIC (Fig. E-1, NTS 82, No. 96)**

LOCATION: Lat. 51° 14' Long. 118° 06' (82M/1E)
 REVELSTOKE M.D. Twenty-six kilometres north of Revelstoke, on the north side of a west-flowing tributary of LaForme Creek, at approximately 2 100 metres elevation.

CLAIMS: FLORA BELL, GRANDVIEW, MORNING STAR, EUREKA, EASTERN STAR (Lots 9121 to 9125), ERIC 2, A&E 6 FR., ERIC 4, ERIC 8 (Lots 15617 to 15619, 15634).

OWNER: R.H.D. Philp.

OPERATOR: LeMANS RESOURCES LTD., 101, 325 Howe Street, Vancouver.

DESCRIPTION: Within the claim area, schists, phyllites, and greenstones of the Hamill Group form a sheared contact with limestone of the Badshot Formation.

WORK DONE: Reconnaissance prospecting and stream geochemical sampling covering Eric 2, 4, 8, Flora Bell, Grandview, Morning Star, Eureka, and Eastern Star.

REFERENCE: Assessment Report 5724.

FLUKE (Fig. E-1, NTS 82, No. 97)

LOCATION: Lat. 51° 04' Long. 119° 15' (82M/3)
 KAMLOOPS M.D. Thirteen kilometres west of Seymour Arm, on the north slope of Crowfoot Mountain, near the head of Onyx Creek, at approximately 1 740 metres elevation.

CLAIMS: FLUKE 13 and 14.

OWNER: RESOURSEX LTD., c/o 414, 630 Eighth Avenue SW., Calgary, Alta.

DESCRIPTION: The claims are underlain by phyllites, quartzites, greenstones, gneisses, and marble of the Monashee Group.

WORK DONE: Prospecting and sampling covering Fluke 13 and 14.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 85.

WALLACE (VIC) (Fig. E-1, NTS 82, No. 98)

LOCATION: Lat. 51° 03' Long. 119° 41' (82M/4E)
 KAMLOOPS M.D. Two kilometres east of Adams Lake, 3 kilometres due west of Nikwikaia Lakes, at approximately 950 metres elevation.

CLAIMS: KATHY 3 and 5.

OWNER: D. K. BRAGG, 3567 West 27th Avenue, Vancouver V6S 1P9.

METALS: Silver, copper, lead, zinc.

DESCRIPTION: Metamorphic rocks of the Shuswap Complex carry hydrothermal quartz veins containing pyrite, chalcopyrite, sphalerite, and galena, with minor gold values present.

WORK DONE: Trenching, 9.1 cubic metres on Kathy 5.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 437; MI 82M-19.

(82M/4)

AGATE (Fig. E-1, NTS 82, No. 99)

LOCATION: Lat. 51° 05' Long. 119° 45' (82M/4)
KAMLOOPS M.D. On Skwaam Bay and the west side of Adams Lake, at approximately 750 metres elevation.

CLAIMS: TAC 1 to 4, VAL 1 to 4, TEE 1 to 4, ASTRO 1 to 4, RAD 1 to 4, IB 1 to 8, KAREN 1 to 10, AGATE 1 to 7, JOE 1 and 2, KEN 1.

OWNERS: Adams Lake Mining Ltd. and G. W. Bennett.

OPERATOR: ADAMS LAKE MINING LTD., 2173 Dundas Street, Vancouver.

METALS: Lead, zinc, silver.

DESCRIPTION: Chlorite-sericite-talc schists are cut by quartz veins and replacements parallel to foliation containing pyrite, sphalerite, and galena. A diorite dyke was noted in one hole.

WORK DONE: 1974 — surface diamond drilling, five holes totalling 365 metres on Joe 1, 2 and Agate 7.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 86; Assessment Report 5226; MI 82M-53.

ENARGITE (NORTH STAR) (Fig. E-1, NTS 82, No. 100)

LOCATION: Lat. 51° 21' Long. 119° 59' (82M/5W)
KAMLOOPS M.D. Twenty-eight kilometres south of the Canadian Pacific Railway flagstop of Birch Island, on Birk Creek, at approximately 1 350 metres elevation.

CLAIMS: ENARGITE 1 to 6, 9 to 12, ENARGITE 7, 8, 13 to 40, B&T 1 to 10.

OWNERS: Kam Creed Mines Ltd. and R. A. Rabbitt.

OPERATORS: D. L. RABBITT, RR 4, Salmon Arm and R. A. RABBITT, 269 Cherry Avenue, Kamloops.

METALS: Silver, lead, zinc, copper.

DESCRIPTION: Phyllites, quartzites, limestones, and conglomerates of the Shuswap Complex are cut by irregular veins and lenses of quartz carrying galena, sphalerite, pyrite, and chalcopyrite, with minor gold values.

WORK DONE: 1974 — linecutting, 6.4 kilometres of grid; stripping, 27 metres; road construction, 210 metres (access); 1975 — trenching, 3 400 metres on Enargite 1-4 and Enargite 26.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 97; Assessment Report 5363; MI 82M-64, 65.

PAT, GOLDSTREAM (Fig. E-1, NTS 82, No. 101)

LOCATION: Lat. 51° 38' Long. 118° 27' (82M/9W)
REVELSTOKE M.D. On the south side of the Goldstream River, at its confluence with French, Brewster, and McCulloch Creeks, at approximately 945 metres elevation.

CLAIMS: PAT 1 to 67, PAT 1 Fraction plus PAT 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, and 1200 (130 units).

OWNERS: G. Bried, B. Bried, and F. King.

(82M/14W)

TRIO (Fig. E-1, NTS 82, No. 106)

LOCATION: Lat. 51° 50' Long. 119° 20' (82M/14W)
KAMLOOPS M.D. Six kilometres north of Avola, on the west slope of the North Thompson Valley, at approximately 1 300 metres elevation.

CLAIMS: TRIO 1 to 6.

OWNER: CONSTANCE MELENKO, Lund.

METALS: Copper, molybdenum, lead, zinc.

DESCRIPTION: A rock bluff of sericite schist on Trio 1 and 2 is malachite-stained, and contains pyrite and chalcopyrite. Molybdenite occurs in quartz veins in granitic rocks on Trio 3 to 6, accompanied by pyrite, galena, and sphalerite in a vein on Trio 3.

WORK DONE: 1973 and 1974 – prospecting, Trio 1-6; digging seven test pits; drilling four test holes.

REFERENCES: Assessment Report 5125; MI 82M-142.

IT, TO (RUDDOCK CREEK) (Fig. E-1, NTS 82, No. 107)

LOCATION: Lat. 51° 47' Long. 118° 54' (82M/15W)
KAMLOOPS and REVELSTOKE M.D. Twenty-seven kilometres east of the Avola post office, on the western slope of Gordon Horne Peak, between Oliver Creek and the head of Ruddock Creek, at approximately 2 280 metres elevation.

CLAIMS: IT 1 to 16, 19 to 24, 27 to 30, 33 to 44, 59, 61, 83 to 85, TO 9 to 14, IN 2 to 19.

OWNER: Falconbridge Nickel Mines Limited.

OPERATOR: COMINCO LTD., 22, 200 Granville Square, Vancouver.

METALS: Zinc, lead, silver.

DESCRIPTION: Contorted layers and lenses of sphalerite and minor galena, pyrrhotite, and fluorite occur in highly metamorphosed calcareous and non-calcareous schists and gneisses of the Shuswap Complex.

WORK DONE: Surface diamond drilling, one hole totalling 683.1 metres on IT 4.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1973, p. 118; Assessment Report 5625; MI 82M-82 to 84.

PRINCETON — KAMLOOPS
(NTS Division 92H and 92I)

HOPE 92H

NOLA (Fig. E-1, NTS 92H, No. 1)

LOCATION: Lat. 49° 07' Long. 120° 20' (92H/1W)
OSOYOOS M.D. The property is centred 1.5 kilometres north of McBride Creek and 2.5 kilometres west of the Ashnola River, 39 kilometres south-southeast of Princeton.

CLAIMS: NOLA, ASH, JAM, Q, CAR, totalling approximately 100.

OWNER: Craigmont Mines Limited.

OPERATOR: PRISM RESOURCES LIMITED, 805, 850 West Hastings Street, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: A sequence of acid volcanic rocks of probable Kingsvale age is intruded by quartz porphyry and by a plug of biotite quartz monzonite. Fracturing and pyritization are strong and extensive. Quartz vein stockwork and (or) pervasive silicification are locally strong. Sericitization and kaolinization are also present. Mineralization consists of abundant and widespread pyrite with minor chalcopyrite, molybdenite, and possibly chalcocite. Malachite and ferrimolybdenite are alteration products of chalcopyrite and molybdenite. A brief examination of the property indicated that fracturing and wallrock alteration crudely conform to a circular pattern centred on a small body of quartz monzonite.

WORK DONE: Petrographic evaluation of 60 rock samples covering Nola 7-14, 21, 23, 25, 27.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 123; Assessment Report 5610; MI 92H/SE-94.

TAN (Fig. E-1, NTS 92H, No. 60)

LOCATION: Lat. 49° 01' Long. 121° 47' (92H/4W)
NEW WESTMINSTER M.D. Eight kilometres from Chilliwack River Road which is a paved road approximately 16 kilometres south of Chilliwack, between 300 and 1 450 metres elevation.

CLAIMS: TAN 1 to 14, 17 to 50, AX 1 to 6, SO 1 to 9, DANE 1 (9 units).

OWNER: GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD., 715 Fifth Avenue SW., Calgary, Alta. T2P 2X7.

METALS: Zinc, copper.

DESCRIPTION: Sphalerite, pyrite, and chalcopyrite are associated with a Permo-Pennsylvanian series of subaqueous volcanic and related sedimentary rocks.

(92H/5W)

WORK DONE: Surface geological mapping, 1:1200 and 1:12 000; electromagnetic survey covering main showings; geochemical survey, 370 soil samples and 199 stream samples covering all claims; surface diamond drilling, seven holes totalling 390 metres on main showings.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 102; MI 92H/SW-85.

VALLEY VIEW (PF – MIDNIGHT) (Fig. E-1, NTS 92H, No. 10)

LOCATION: Lat. 49° 16' Long. 121° 51' (92H/5W)

NEW WESTMINSTER M.D. Six kilometres west-northwest of Agassiz, on the south side of Mount Woodside, at approximately 300 metres elevation.

CLAIMS: NOREEN (units 1 to 6).

OWNER: GOLD-ANGEL RESOURCES INC., 207, 470 Granville Street, Vancouver.

METALS: Copper, silver, gold.

DESCRIPTION: Chalcopyrite, with associated bornite and pyrite, occurs in a shear zone in fractured metasedimentary and volcanic rocks.

WORK DONE: Electromagnetic survey, three lines across mineralized structures and along road, 180-metre grid spacing; stripping; road and bridge repair on Noreen, unit 3.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 105; MI 92H/SW-15.

SENECA (HARRISON, LUCKY JIM) (Fig. E-1, NTS 92H, No. 14)

LOCATION: Lat. 49° 19' Long. 121° 57' (92H/5W)

NEW WESTMINSTER M.D. Twelve kilometres west of Harrison Hotsprings, 2 kilometres north of the Chehalis bridge, at approximately 300 metres elevation.

CLAIMS: HARRISON, LUCKY JIM, BONANZA, CHEHALIS, DOROTHY, JOY, LH, LYN, POT, HILL, C, H, HW, SNO, MZ, ZIP, AS plus S 2 (10 units), totalling approximately 190.

OWNERS: Cominco Ltd. and Zenith Mining Corporation Ltd.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver.

METALS: Silver, gold, copper, lead, zinc.

DESCRIPTION: A Kuroko-type, stratiform, syngenetic massive sulphide deposit is associated with felsic volcanic rocks. The deposit sits on a thick pile of acid volcanic rocks immediately underlain by a tuff-coarse pyroclastic sequence. Overlying units consist of andesitic-dacitic volcanic flows. Numerous acid intrusions cut structures.

WORK DONE: Surface working surveyed (drill holes and roads), 1:1200; geochemical survey (cold extractable copper), 400 samples, 60-metre grid spacing; road construction, 0.5 kilometre; plus surface geological mapping (two), 1:2400; surface diamond drilling, six holes totalling 1 000 metres; and trenching, 100 metres on Lucky Jim.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 102, 103; Assessment Reports 5476, 5627; MI 92H/SW-13.

(92H/5W)

ARANY, EMILE (RYE) (Fig. E-1, NTS 92H, No. 11)

LOCATION: Lat. 49° 20' Long. 121° 51' (92H/5W)
NEW WESTMINSTER M.D. Five kilometres northwest of Harrison
Hot Springs and 2.5 kilometres southeast of Weaver Lake.

CLAIMS: RYE 1 to 7, 13, 15, WOODY 1 to 5.

OWNER: AARON MINING LTD., 120, 890 West Hastings Street, Vancouver.

METALS: Silver, gold, (copper, lead, zinc).

DESCRIPTION: Medium grey andesite is transected by numerous veins of quartz-calcite
which contain pyrite.

WORK DONE: 1974 – four BQ diamond-drill holes totalling 222.9 metres on Rye 2;
1975 – nine percussion holes totalling 129 metres on Rye 2.

REFERENCES: B.C. *Dépt. of Mines & Pet. Res.*, GEM, 1969, p. 195; Assessment
Reports 5421, 5735; MI 92H/SW-70.

CON (Fig. E-1, NTS 92H, No. 15)

LOCATION: Lat. 49° 21' Long. 121° 50' (92H/5W)
NEW WESTMINSTER M.D. On the west shore of Harrison Lake, 2
kilometres east of Weaver Lake.

CLAIMS: CON 1 to 16.

OWNER: D. S. Ashe.

OPERATOR: D.S. ASHE CONTRACTING LTD., 6470 Cabeldu Crescent, Delta.

WORK DONE: Percussion drilling, seven holes totalling 228 metres on Con 2.

REFERENCE: Assessment Report 5450.

IAM (Fig. E-1, NTS 92H, No. 13)

LOCATION: Lat. 49° 22' Long. 121° 54' (92H/5W)
NEW WESTMINSTER M.D. Approximately 11 kilometres northwest
of Harrison Hot Springs and 2 kilometres northwest of Weaver Lake.

CLAIMS: IAM 1 to 4, 9, 11 to 24, MARY J 1 to 4, DOT 1 to 3, SIR 4 to 6.

OWNER: Isaac Miller.

OPERATOR: RIO TINTO CANADIAN EXPLORATION LIMITED, 615, 555
Burrard Street, Vancouver.

METALS: Zinc, copper, lead.

DESCRIPTION: Most of the property is underlain by andesite, andesite breccia, and
andesite agglomerate of the Harrison Lake Formation. In the vicinity of
claims IAM 1, 2, and 3, a narrow band (30 to 60 metres wide) of
rhyolite agglomerate was observed. Mineralization, consisting of black
sphalerite with minor chalcopryite and galena, occurs with barite as
fragment coatings and as veinlets and stringers in the rhyolite
agglomerate.

(92H/5W)

WORK DONE: Reconnaissance EM-16 survey over two short lines; geochemical survey, five stream sediment samples analysed for copper, molybdenum, lead, and zinc covering IAM 1-4, 14-17.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 265; Assessment Report 5597; MI 92H/SW-83.

SF (Fig. E-1, NTS 92H, No. 9)

LOCATION: Lat. 49° 25' Long. 121° 53' (92H/5W)
NEW WESTMINSTER M.D. Twenty-one kilometres north-northeast of Harrison Mills and 3.2 kilometres west of Harrison Lake, straddling Cartmell Creek, at approximately 600 metres elevation.

CLAIMS: SF 1 to 20.

OWNER: SWIM LAKE MINES LTD., 600, 789 West Pender Street, Vancouver.

METAL: Zinc.

DESCRIPTION: Sphalerite and pyrite occur in acid volcanic tuffs of the Harrison Lake Formation.

WORK DONE: VLF EM survey, 14.24 line-kilometres, 240-metre grid spacing; gravity survey, 14.24 line-kilometres, 240-metre grid spacing; and linecutting, 14.24 line-kilometres covering SF 7-20.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 103; Assessment Report 5738; MI 92H/SW-87.

SASQUATCH (Fig. E-1, NTS 92H, No. 12)

LOCATION: Lat. 49° 27' Long. 121° 51' (92H/5W)
NEW WESTMINSTER M.D. On the west shore of Harrison Lake, at the mouth of Simms Creek.

CLAIMS: SASQUATCH 1 to 34.

OWNER: H. V. Barley.

OPERATORS: DELPHI RESOURCES LTD., 216, 470 Granville Street, Vancouver and QUINTANA MINERALS CORPORATION, 1215 Two Bentall Centre, Vancouver.

METALS: Copper, silver, lead, zinc.

DESCRIPTION: The property is underlain by predominantly volcanic rocks of the Harrison Lake Formation. Some shale is interbedded with tuff in the southwest. A broad band of lapilli tuff and agglomerate strikes northwest through the centre of the claim area. Vuggy quartz-carbonate veinlets in the northeastern part of the band carry sphalerite, chalcopryite, and galena. The lapilli tuff and agglomerate dip southwest about 20 degrees and are bounded by a fault in Simms Creek on the northeast. A band of the tuff, 360 metres wide, adjacent to the fault is strongly altered to clay minerals, sericite, pyrite, quartz, and chlorite. The sulphide-bearing veins, which also carry barite, are confined to this altered band.

(92H/5W)

WORK DONE: 1973 — surface geological mapping, 1:12 000; geochemical soil survey, 100 samples taken at 60 by 120-metre grid spacing and 42 taken at 120-metre intervals on reconnaissance lines covering all claims; 1974 — surface geological remapping, 1:1200 covering Sasquatch 4, 6, 8, 15, 17-22; linecutting, 1.6 line-kilometres and horizontal shootback EM survey, 3.2 line-kilometres covering Sasquatch 4, 6, 8, 15, 17, 19, 20.

REFERENCES: Assessment Reports 5349, 5415, 5427; MI 92H/SW-94.

KU (Fig. E-1, NTS 92H, No. 8)

LOCATION: Lat. 49° 29' Long. 121° 59' (92H/5W)
NEW WESTMINSTER M.D. Twenty-seven kilometres north of Harrison Mills, 2 kilometres northeast of the north end of Chehalis Lake, at approximately 1 000 metres elevation.

CLAIMS: KU 1 to 52, KU 1 and 2 Fractions.

OWNER: Standard Oil Company of British Columbia Limited.

OPERATOR: CHEVRON STANDARD LIMITED, 901, 355 Burrard Street, Vancouver V6C 2G8.

METALS: Zinc, copper.

DESCRIPTION: Minor sphalerite and chalcopryrite occur at the contact area between Harrison Lake Formation (mainly pyroclastic rocks) and overlying Echo Island Formation (mainly sedimentary rocks).

WORK DONE: Induced polarization survey, 13 line-kilometres, 160 and 80-metre by 66-metre grid spacing covering KU 5, 6, 8-15, 27, 28, 33-41; electromagnetic survey, 5 line-kilometres, 160 and 80-metre by 66-metre grid spacing covering KU 4, 6, 13, 14, 32, 34, 39, 40; minor soil sampling.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 104; Assessment Report 5755.

GEO (Fig. E-1, NTS 92H, No. 7)

LOCATION: Lat. 49° 20' Long. 121° 44' (92H/5E)
NEW WESTMINSTER M.D. Five kilometres northeast of Harrison Hot Springs, on the east shore of Harrison Lake, at approximately 300 metres elevation.

CLAIMS: GEO 1 to 6.

OWNER: GEORGE A. MacDONALD, 2135 Anita Drive, Port Coquitlam.

METAL: Gold.

DESCRIPTION: Gold with minor sulphides occurs in quartz veins in laminated grey, brown, and black siltstones, mudstones, and argillites.

WORK DONE: Surface geological mapping, 1:6000 covering Geo 1, 2, 4, 6 and surface showing at 1:600.

REFERENCE: MI 92H/SW-92.

(92H/6)

KING (Fig. E-1, NTS 92H, No. 18)

LOCATION: Lat. 49° 29' Long. 121° 15' (92H/6)
NEW WESTMINSTER M.D. Seventeen kilometres northeast of Hope, straddling the Coquihalla River between Dewdney and Ladner Creeks, at approximately 350 metres elevation.

CLAIMS: KING 1 to 10, 15 to 18.

OWNER: GEOR MINE AND OIL LTD., 404, 1139 Barclay Street, Vancouver.

METALS: Copper, gold, silver.

DESCRIPTION: Chalcopyrite, pyrite, pyrrhotite, and arsenopyrite with associated gold and silver occur in phyllite and argillite which are intruded by quartz diorite.

WORK DONE: 1974 — linecutting, geochemical soil survey, and electromagnetic survey covering King 1-10, 15-18; 1975 — surface diamond drilling, four holes totalling approximately 130 metres on King 3 and 5.

REFERENCE: Assessment Report 5448.

AUFEAS (JUMBO; CAM) (Fig. E-1, NTS 92H, No. 22)

LOCATION: Lat. 49° 21' Long. 121° 29' (92H/6W)
NEW WESTMINSTER M.D. Five kilometres southwest of Hope, on the west side of Silverhope Creek at Wardle Creek, between 200 and 400 metres elevation.

CLAIMS: CAM 1 to 5, CAM EXT 1 to 3, RAM 1.

OWNER: CAMROCK MINES LTD., Box 2006, Hope.

METALS: Gold, silver, copper, arsenic.

DESCRIPTION: The country rock is granodiorite of the Coast Plutonic Complex. Locally on the property it is sheared and traversed by fissures running north 85 degrees east, dipping 40 to 50 degrees southeast. The fissure veins have an average width of 20 centimetres and contain arsenopyrite and chalcopyrite carrying gold and silver values in quartz gangue.

WORK DONE: Road repair on Cam 1, 2, and 4; trenching, 5 metres on Cam 2.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 113, 114; MI 92H/SW-36.

HOPE (Fig. E-1, NTS 92H, No. 62)

LOCATION: Lat. 49° 27' Long. 121° 16' (92H/6W)
NEW WESTMINSTER M.D. Two kilometres northeast of the confluence of Deneau Creek and the Coquihalla River, at approximately 150 metres elevation.

CLAIMS: HOPE 1 to 6.

OWNER: GRAND WEST MINES LTD., 4086 West 17th Avenue, Vancouver.

WORK DONE: Trenching, 13.36 cubic metres on Hope 5 and 6.

(92H/6W)

EVE, TAX (Fig. E-1, NTS 92H, No. 20)

LOCATION: Lat. 49° 28' Long. 121° 16' (92H/6W)
NEW WESTMINSTER M.D. At the junction of Coquihalla River and
Fifteen Mile Creek, 1.5 kilometres north of Jessica station.
CLAIMS: EVE 22, TAX 51 to 56, N 22 to 29, G 1 and 2, GWH 2 (North Group).
OWNER: Mountain Pass Mines Ltd.
OPERATOR: M. M. MENZIES, 468 Granville Square, 200 Granville Street,
Vancouver.
WORK DONE: Three EX holes totalling 105 metres on GWH 2.
REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1972, p. 116; Assessment
Report 5486.

EMANCIPATION (Fig. E-1, NTS 92H, No. 19)

LOCATION: Lat. 49° 29' Long. 121° 16' (92H/6W)
NEW WESTMINSTER M.D. Seventeen kilometres northeast of Hope,
on the west side of the Coquihalla River, 2.5 kilometres north of Jessica
station.
CLAIMS: HOPE 1 to 32, Mineral Lease M-35 (RAYMOND, Lot 1299 and
SUNSHINE, Lot 1300).
OWNERS: K. Warren Geiger and J. A. Stewart.
OPERATOR: LONGBAR MINERALS LTD., 12225 - 105th Avenue, Edmonton,
Alta.
METALS: Gold, silver, copper.
DESCRIPTION: A shattered and faulted quartz vein, ranging in width from 1.5 to 3.7
metres, cuts Ladner slates in the footwall and Cache Creek greenstones
in the hangingwall, over a strike length of 78 metres. Erratic gold and
silver values are present.
WORK DONE: 1974 - underground mapping, upper adit of Emancipation mine;
geochemical soil and rock survey (assays of selected samples) covering
Hope 1-5, 20-22, 24, 26, 28.
REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 113; Assessment
Report 5440; MI 92H/SW-34.

BD (Fig. E-1, NTS 92H, No. 61)

LOCATION: Lat. 49° 29' Long. 121° 16.5' (92H/6W)
NEW WESTMINSTER M.D. At the head of Fifteen Mile Creek, 2
kilometres west of the Coquihalla River.
CLAIMS: BD 1 to 6.
OWNER: MARVIN SHERMAN, General Delivery, Whitehorse, Yukon Territory.
WORK DONE: Magnetometer survey covering all claims.
REFERENCE: Assessment Report 5770.

(92H/6E)

TOY, EVE (Fig. E-1, NTS 92H, No. 21)

LOCATION: Lat. 49° 26' Long. 121° 14' (92H/6E)
NEW WESTMINSTER M.D. Sixteen kilometres east-northeast of Hope, 2 kilometres north of Sowaqua Creek, 4 kilometres from its junction with the Coquihalla River.

CLAIMS: TOY 3 to 9, EVE 1 and 2 (South Group).

OWNER: Mountain Pass Minerals Ltd.

OPERATOR: M. M. MENZIES, 468 Granville Square, 200 Granville Street, Vancouver.

WORK DONE: Six trenches totalling 33 metres on Toy 7 and 9.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 266; Assessment Report 5486.

ST. PATRICK (Fig. E-1, NTS 92H, No. 16)

LOCATION: Lat. 49° 24' Long. 121° 14' (92H/6E)
NEW WESTMINSTER M.D. Fifteen kilometres east of Hope, on the south side of Sowaqua Creek, 5 kilometres from the Coquihalla River, at approximately 500 metres elevation.

CLAIMS: A&W 1 to 12.

OWNER: LABARON GOLD MINES LTD., 5707 Monarch Street, Burnaby.

METALS: Gold, (platinum).

WORK DONE: Road construction, approximately 8.8 kilometres (between closest access and site of property).

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1933, p. 177; MI 92H/SW-44.

SILVERTIP (Fig. E-1, NTS 92H, No. 23)

LOCATION: Lat. 49° 16.5' Long. 120° 45' (92H/7)
SIMILKAMEEN M.D. Twenty-six kilometres southwest of Princeton, on Whipsaw Creek, at approximately 1 650 metres elevation.

CLAIMS: SILVERTIP 1 and 2, OK 1 to 5, Mineral Lease M-30 (Lots 172 and 1549 to 1556).

OWNERS: F. Christian and A. O. Sylvester.

OPERATOR: SILVERTIP EXPLORATIONS LTD., Princeton.

METALS: Gold, silver, copper, lead, zinc.

DESCRIPTION: Galena, sphalerite, chalcopryrite, argentite, pyrrhotite, pyrite, and bornite occur in veins in chloritic schist.

WORK DONE: Surface diamond drilling, four holes totalling 180 metres on OK 1 and 2.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 118; MI 92H/SE-120.

(92H/7W)

ASH (Fig. E-1, NTS 92H, No. 4)

LOCATION: Lat. 49° 23' Long. 120° 55' (92H/7W)
SIMILKAMEEN M.D. Two and one-half kilometres east-northeast of the junction of Podunk Creek and the Similkameen River.

CLAIMS: ASH 9 to 12.

OWNER: S. YOUNG, 705, 850 West Hastings Street, Vancouver.

METALS: Molybdenum, copper.

DESCRIPTION: Eagle granodiorite is intruded by 0.5 to 3-metre-wide, undeformed, northeast-trending andesitic and syenitic dykes. A syenite dyke is stained with malachite and contains disseminated chalcopyrite. The Eagle granodiorite includes several large milky white quartz-muscovite blebs which are irregularly mineralized with ferromolybdenite, molybdenite, pyrite, and with minor chalcopyrite and malachite.

WORK DONE: Surface geological mapping covering Ash 9-12.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 273; Assessment Report 5583; MI 92H/SE-100.

FIVE FISSURES (Fig. E-1, NTS 92H, No. 3)

LOCATION: Lat. 49° 16' Long. 120° 44' (92H/7E)
SIMILKAMEEN M.D. Twenty-six kilometres southwest of Princeton, on Whipsaw Creek.

CLAIMS: MAE 1 to 21, 36 to 47, MIKE 1 and 2.

OWNER: Whipsaw Resources Ltd.

OPERATOR: NEWCONEX CANADIAN EXPLORATION LTD., 808, 525 Seymour Street, Vancouver.

METALS: Silver, lead, zinc, copper, gold.

DESCRIPTION: Metavolcanic and metasedimentary rocks of the Nicola Group are intruded by the Eagle granodiorite body and a swarm of Tertiary porphyritic dykes. Sphalerite, galena, pyrite, and chalcopyrite occur along two north-northwest-trending fault zones.

WORK DONE: 1974 — geochemical survey, 45 soil, silt, and rock samples analysed for gold and silver and 11 samples assayed for gold and silver covering Mae 1-5, 36-47.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 114, 115; Assessment Report 5491; MI 92H/SE-73, 97, 98, 128.

ENTERPRISE, RECO, MARQUIS OF LORNE (Fig. E-1, NTS 92H, No. 2)

LOCATION: Lat. 49° 17' Long. 120° 32' (92H/7E)
SIMILKAMEEN M.D. Six and one-half kilometres south of the Similkameen mine, astride the Similkameen River at Saturday and Sunday Creeks, at approximately 1 050 metres elevation.

CLAIMS: ENTERPRISE (Lot 644), RECO (Lot 1509), LIVE OAK NO. 1 (Lot 2934), LEMON NO. 16 (Lot 2005), JUNIPER (Lot 2289), ALDER NO. 1 (Lot 2932), SEATTLE (Lot 2305), SUMMIT FR. (Lot 2297),

(92H/7E)

POPLAR NO. 1 (Lot 2933), PEN MAR (Lot 2293), EDNA (Lot 2309), TACOMA (Lot 2306), SNOQUALMIE (Lot 2294), WILLOW NO. 1 (Lot 2935), BURR OAK (Lot 2937), DOGWOOD NO. 1 (Lot 2936), BALSAM NO. 1 (Lot 2626), BALSAM FR. (Lot 2633), SPRUCE NO. 1 (Lot 2627), HERCULES (Lot 1511), GOOD CHEER (Lot 2002), LEMON NO. 15 (Lot 2004), PERISCOPE FR. (Lot 2307), MOTHER LODE (Lot 2290), SKAGIT NO. 3 FR. (Lot 2628), SKAGIT NO. 1 FR. (Lot 2629), BLUE BIRD (Lot 2574), QUEEN ALEXANDRIA (Lot 2753), ALDER FR. (Lot 2632), COLUMBIA NO. 1 FR. (Lot 2930), SNAKE NO. 1 FR. (Lot 2931), LEMON NO. 11 (Lot 2003), SAINT LOUIS FR. (Lot 2308), SMUGGLER (Lot 646), JOHNSTON (Lot 645) Crown-granted claims and CMAG 1 to 33 and MARQUIS OF LORNE FR. located claims.

OWNER: AQUITAINE COMPANY OF CANADA LTD., 540 Fifth Avenue SW., Calgary, Alta.

METAL: Copper.

DESCRIPTION: Pyrite, pyrrhotite, and chalcopyrite occur disseminated and in veinlets in andesitic flows, tuffs, and volcanogenic sedimentary rocks belonging to the Nicola Group.

WORK DONE: Induced polarization survey, 38.4 line-kilometres, 120-metre grid spacing covering CMAG 1-12 and all Crown-granted claims except Lots 2003, 2005, 2626, 2627, 644, 1509, 1511, 2289; geochemical survey, 101 soil samples, 12.12 line-kilometres, 120-metre grid spacing covering Smuggler, Saint Louis Fr., Johnston, Blue Bird, Mother Lode, Periscope Fr., Queen Alexandria, Columbia No. 1 Fr., Snake No. 1 Fr., Alder Fr., Skagit No. 1 Fr., Skagit No. 3 Fr., Good Cheer, Lemon No. 15, Marquis of Lorne Fr.; surface diamond drilling, three holes totalling 807.3 metres on Johnston (Lot 645), Edna (Lot 2309), Live Oak No. 1 (Lot 2934); road construction, 1.22 kilometres on Johnston (Lot 645), Saint Louis Fr. (Lot 2308), Edna (Lot 2309), Alder Fr. (Lot 2632), and Live Oak No. 1 (Lot 2934).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, pp. 269, 270; Assessment Reports 5480, 5768; MI 92H/SE-29, 30, 31, 44, 45, 92, 114, 121.

SIMILKAMEEN MINE

LOCATION: Lat. 49° 20' Long. 120° 33' (92H/7E)
Report on this property in *Mining in British Columbia, 1975*.

GOLDROP (Fig. E-1, NTS 92H, No. 24)

LOCATION: Lat. 49° 20' Long. 120° 37' (92H/7E)
SIMILKAMEEN M.D. Sixteen kilometres southwest of Princeton, on the north side of Whipsaw Creek, at approximately 1 050 metres elevation.

CLAIMS: GOLDROP 1 to 6.

(92H/8W)

OWNER: H. P. Huff.
OPERATOR: SILVERTIP EXPLORATIONS LTD., Princeton.
METALS: Gold, silver, copper, lead, zinc.
WORK DONE: Surface diamond drilling, four holes totalling 165 metres on Goldrop 2.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 115; MI 92H/SE-124.

COPPER FARM (Fig. E-1, NTS 92H, No. 5)

LOCATION: Lat. 49° 26' Long. 120° 24' (92H/8W)
SIMILKAMEEN M.D. Approximately 8 kilometres east of Princeton,
1 kilometre south of the Similkameen River.
CLAIMS: BARB 1 to 4.
OWNER: Vernon L. Paulger.
OPERATORS: VERNON L. PAULGER, 897 Lethbridge Avenue, Kamloops and
PECHINEY DEVELOPMENT LIMITED, 704, 744 West Hastings
Street, Vancouver.
METAL: Copper.
DESCRIPTION: Andesites and agglomerates in contact with granodiorite underlie the
claims. Chalcopyrite occurs in association with quartz veins within a
north-trending shear zone which cuts the volcanic rocks.
WORK DONE: Magnetometer survey, 5.6 line-kilometres covering Barb 1-4.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 119; Assessment
Report 5536; MI 92H/SE-91.

LP (Fig. E-1, NTS 92H, No. 25)

LOCATION: Lat. 49° 35' Long. 120° 37' (92H/10E)
SIMILKAMEEN M.D. Sixteen kilometres northwest of Princeton, at
the headwaters of Knudson Creek, at approximately 1 350 metres
elevation.
CLAIMS: LP 5 to 14.
OWNER: AVALANCHE INDUSTRIES LTD., 904, 510 West Hastings Street,
Vancouver.
DESCRIPTION: Spences Bridge rhyolite and andesite breccia underlie the northeastern
half of LP 9 to 12 and are succeeded to the southwest by massive
andesite. Pyritic rhyolite porphyry is exposed in the extreme northwest
corner.
WORK DONE: 1974 — geological remapping, 1:2400, covering LP 9, 12-14.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 140; Assessment
Reports 4848, 5418.

NU (Fig. E-1, NTS 92H, No. 26)

LOCATION: Lat. 49° 36' Long. 120° 34' (92H/10E)
SIMILKAMEEN M.D. Sixteen kilometres north-northwest of
Princeton, on the east side of Highway 5, 1 kilometre east of McCaffrey
Lake.

(92H/10E)

CLAIMS: NU 14 to 17, 29 to 34.
OWNER: BRONSON MINES LTD., 1561 West 26th Avenue, Vancouver V6J 2X1.
DESCRIPTION: The area is underlain by pyritized Nicola volcanic rocks, in contact with a granodiorite intrusion. The rocks are extensively faulted, but no significant mineralization is present.
WORK DONE: 1974 — geochemical survey, 497 soil samples taken at 30-metre intervals along a grid and analysed for copper, covering NU 14-17 29-34.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 144; Assessment Report 5464.

AXE

LOCATION: Lat. 49° 39' Long. 120° 32' (92H/10E)
Report on this property in *Geology in British Columbia*, 1975.

AURUM, IDAHO, PIPESTEM (Fig. E-1, NTS 92H, No. 30)

LOCATION: Lat. 49° 31' Long. 121° 18' (92H/11W)
NEW WESTMINSTER M.D. Eleven kilometres southeast of Yale and 9 kilometres east of Emory Bar, between 900 and 1 500 metres elevation.
CLAIMS: AURUM 1 to 6 (Lots 1236 to 1241), IDAHO and TRAMWAY (Lots 1234 and 1235), HOME GOLD 1 to 15, GOLD STAR 1 to 4, CABIN 1 to 14, CABIN 20 and 21 Fractions, SYLVIA Fraction, CARO 1 to 27, 29, 30.
OWNERS: Precambrian Shield Resources Limited, Numac Oil & Gas Ltd., and Carolin Mines Ltd.
OPERATOR: PRECAMBRIAN SHIELD RESOURCES LIMITED, 11th Floor, 9945 — 108th Street, Edmonton, Alta. T5K 2G6.
METALS: Gold, silver, copper.
DESCRIPTION: Report on this property in *Geology in British Columbia*, 1975.
WORK DONE: Surface geological mapping, 1:6000 and 1:600 covering McMaster zone; magnetometer survey, 20 line-kilometres, 15 by 120-metre grid spacing covering north third of the property; geochemical soil survey, reconnaissance at 15 by 120-metre grid spacing and detailed at 15 by 30-metre grid spacing, 35 line-kilometres covering north portion of claims; surface diamond drilling, seven holes totalling 517.9 metres on McMaster zone and six holes totalling 1 800 metres on Idaho zone; road construction, 2 kilometres between Idaho and McMaster zones; trenching, 250 metres on McMaster zone.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 123, 124; MI 92H/NW-3, 6 to 11, 13, 14.

(92H/11W)

KIM (Fig. E-1, NTS 92H, No. 58)

LOCATION: Lat. 49° 31' Long. 121° 21' (92H/11W)
NEW WESTMINSTER M.D. Five kilometres east of Emory Bar, in Suka Creek valley.

CLAIMS: KIM 1 to 16.

OWNER: E. EVANS, 11682 — 64A Avenue, Surrey,

DESCRIPTION: The claims lie immediately west of the Coquihalla serpentine band and straddle a gneiss/Hozameen metasedimentary rock contact.

WORK DONE: Cursory geological reconnaissance over Kim 9-12; six stream samples analysed for copper, silver, gold.

REFERENCE: Assessment Report 5718.

NORM (Fig. E-1, NTS 92H, No. 32)

LOCATION: Lat. 49° 32' Long. 121° 20' (92H/11W)
NEW WESTMINSTER M.D. Seventeen kilometres east-southeast of Yale, on Spider Peak.

CLAIMS: NORM 1 to 4.

OWNER: E. N. ASCROFT, 1878 West 37th Avenue, Vancouver.

DESCRIPTION: The Norm claims straddle a serpentine band and a basic extrusive/intrusive complex which include altered metamorphic rocks. Carbonate rock, prominent on Spider Peak, is cut by a network of quartz-carbonate stringers which have the appearance of a spider's web, hence the name of the peak.

WORK DONE: Magnetometer survey; geochemical soil survey, 33 samples analysed for gold covering Norm 1-4.

REFERENCE: Assessment Report 5617.

HILLSBAR (Fig. E-1, NTS 92H, No. 31)

LOCATION: Lat. 49° 32' Long. 121° 22' (92H/11W)
NEW WESTMINSTER M.D. Five kilometres southeast of Yale, on Qualark Creek, at approximately 800 metres elevation.

CLAIMS: HILLSBAR 1 to 3, ME 1 to 14, MI (units 1 to 4).

OWNER: CAROLIN MINES LTD., 811, 850 West Hastings Street, Vancouver.

METAL: Gold.

DESCRIPTION: Gold occurs in quartz veins exposed in the old Hillsbar adit, in argillaceous schist, slate, and chert of the Hozameen Group, on the west flank of the Coquihalla serpentine belt.

WORK DONE: Surface geological mapping, 1:600, covering Hillsbar and ME; geochemical survey, 50 rock and soil samples at random grid spacing covering all claims; gold analysed from test pits; surface work, 17 test pits, approximately 2 metres deep.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1927, p. 209; MI 92H/NW-38.

(92H/12E, 5E)

NI (Fig. E-1, NTS 92H, No. 6)

LOCATION: Lat. 49° 31' Long. 121° 40' (92H/12E, 5E)
NEW WESTMINSTER M.D. On the east side of Harrison Lake in the vicinity of Talc and Cogburn Creeks, at approximately 900 metres elevation.

CLAIMS: NI, totalling approximately 344.

OWNER: GIANT EXPLORATIONS LIMITED, 900, 837 West Hastings Street, Vancouver.

METALS: Nickel, copper.

DESCRIPTION: Pyrite, pyrrhotite, chalcopyrite, and pentlandite are disseminated in *basic and ultrabasic intrusions into sedimentary and volcanic rocks*. The lithic complex has a northwest elongation within the framework of regional structural trends. The rocks occur within the Coast Plutonic Complex near its contact with the Chilliwack Group.

WORK DONE: Electromagnetic survey, 6.41 line-kilometres, 15-metre grid spacing covering NI 256, 258, 263 Fraction, and 717 Fraction.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 153, 154; Assessment Report 5527; MI 92H/NW-28, 42, 43, 45 and MI 92H/SW-81.

MEG (HLM) (Fig. E-1, NTS 92H, No. 33)

LOCATION: Lat. 49° 43' Long. 121° 44' (92H/12E)
NEW WESTMINSTER M.D. Twenty-two kilometres west-northwest of Spuzzum, at the head of Clear Creek, between 750 and 1 400 metres elevation.

CLAIMS: GEM 1 (units 1, 2, 15, 16), GEM 2 (units 1, 2, 15, 16), GEM 3 (units 1, 2, 15, 16), GEM 4 (unit 1).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L6.

METAL: Molybdenum.

DESCRIPTION: The property lies in an area underlain by schists and gneisses intruded by a granite plug and a circular breccia pipe. Molybdenite occurs in a fracture and quartz vein stockwork.

WORK DONE: Topography mapped, 1:4800.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1963, p. 91; 1964, p. 143; 1965, p. 219; 1966, p. 61; 1967, p. 67; *Geol. Surv., Canada*, Paper 69-47, p. 68; MI 92H/NW-1, 34 to 37.

DUC (Fig. E-1, NTS 92H, No. 59)

LOCATION: Lat. 49° 47' Long. 121° 18' (92H/14W)
NEW WESTMINSTER M.D. Eleven kilometres southeast of Boston Bar, on Uztlius Creek.

CLAIMS: DUC 1 to 24.

OWNER: D. U. Christie.

OPERATOR: QUINTANA MINERALS CORPORATION, 1215, 555 Burrard Street, Vancouver.

(92H/14W)

METALS: Copper, molybdenum.

DESCRIPTION: The property is underlain mainly by a sequence of volcanic rocks spatially located between the Jackass Mountain Group conglomerates on the west and the Eagle granodiorite stock to the east. Copper mineralization, apparently associated with a breccia pipe within rhyolite, occurs principally as chalcopryite, with minor amounts of malachite, chalcocite, and molybdenite. Pyrite in the 5 to 10 per cent range occurs as both fracture fillings and disseminations in the breccia pipe which is located in the southern part of the property on Duc 19 and 20.

WORK DONE: Surface geological mapping, 1:4800, covering all claims.

REFERENCES: Assessment Report 5742; MI 92H/NW-49.

GOSSAN (Fig. E-1, NTS 92H, No. 35)

LOCATION: Lat. 49° 55' Long. 121° 16' (92H/14W)
NICOLA M.D. Fourteen kilometres northeast of Boston Bar, on the north side of Spius Creek.

CLAIMS: GOSSAN 1 to 16.

OWNER: BRASCAN RESOURCES LIMITED, 502, 1155 West Pender Street, Vancouver.

METAL: Copper.

DESCRIPTION: The claims are underlain mainly by coarse-grained Eagle granodiorite which is intruded by small bodies of feldspar porphyry and by dykes. Pyrite and minor chalcopryite occur disseminated, as fracture fillings, and in quartz feldspar veins in both granodiorite and porphyry.

WORK DONE: 1974 — prospecting eight claims; 1 890 metres of machine trenching; 2 500 metres of road rebuilt, covering Gossan 1-9, 11-14, 16.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 373; Assessment Report 3052, 5389; MI 92H/NW-27.

BROD (Fig. E-1, NTS 92H, No. 29)

LOCATION: Lat. 49° 48' Long. 120° 58' (92H/15W)
NICOLA M.D. Seven kilometres west-southwest of Brookmere, on the west side of Coldwater River, between 1 000 and 1 500 metres elevation.

CLAIMS: BROD 1 to 9.

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 807, 161 Eglinton Avenue East, Toronto, Ontario.

METALS: Copper, zinc.

DESCRIPTION: Chloritic schists, sericite-quartz schists, and an andesite-rhyolite unit are intruded by porphyritic dacite sills. Mineralization consists of pyrite and associated limonite, chlorite, sericite, and carbonate with epidote alteration.

(92H/15E)

WORK DONE: Surface geological mapping, 1:4800; geochemical survey, 319 soil samples, 38 rock samples, and 88 stream sediment samples, 19.2 line-kilometres, 33 by 122-metre grid spacing covering Brod 1-9.

MOB (Fig. E-1, NTS 92H, No. 36)

LOCATION: Lat. 49° 46' Long. 120° 37' (92H/15E)
NICOLA M.D. Eight kilometres southwest of Missezula Lake, immediately north of Hornet Lake, on the east side of Highway 5, at approximately 1 100 metres elevation.

CLAIMS: MOB 1 to 20.

OWNER: BRONSON MINES LTD., 534, 470 Granville Street, Vancouver.

METALS: Copper, lead.

WORK DONE: Surface diamond drilling, five holes totalling 44.1 metres on Mob 2, 8, 14.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 124; Assessment Report 5507; MI 92H/NE-140.

STRIKE, LORNA (LOG) (Fig. E-1, NTS 92H, No. 28)

LOCATION: Lat. 49° 47' Long. 120° 33.5' (92H/15E)
NICOLA M.D. Thirty-six kilometres north of Princeton, 3 kilometres west of Missezula Lake, between 1 250 and 1 300 metres elevation.

CLAIMS: LOG 1 (units 1 to 3, 14 to 19, 25 to 27), LOG 2 (units 1 to 4, 13 to 20, 24 to 27), LOG 3 (units 1 to 4, 13 to 20), LOG 4 (units 1 to 4, 13 to 20, 24 to 27).

OWNER: BETHLEHEM COPPER CORPORATION, 2100, 1055 West Hastings Street, Vancouver V6E 2H8.

METAL: Copper.

DESCRIPTION:

The property is mainly underlain by Upper Triassic Nicola volcanic rocks and their associated intrusions. It lies within an area which is at present undergoing a detailed geological mapping program by the Department of Mines and Petroleum Resources.

Rocks on the claim block belong to the central belt of the Nicola Group which is bounded on the west by the Allison Lake pluton and on the east by a major fault system called the Summers Creek fault. Faults on the property tend to follow a northerly regional trend and share the steep dips of both this fault zone and the Allison fault to the west. Dips on the property are generally to the east since it lies on the west limb of a major syncline; the axis of this syncline strikes northerly and lies on the east side of Missezula Lake.

The detailed mapping of this area, recently completed by the Department of Mines and Petroleum Resources (Preliminary Map No. 17), shows that the new claim block boundaries almost entirely surround an intrusive body which is roughly triangular in shape. This body, which varies in composition from a medium-grained syenodiorite to monzonite, is truncated on the east by a northwest-trending fault. It intrudes a largely

subaqueous assemblage of green flows, flow breccia, tuffs, and minor sedimentary units and, being similar in composition to the volcanic rocks, it is thought to be about the same age. It contains several occurrences of chalcopyrite mineralization.

Pyrite is fairly common and occurs in disseminated fine grains. Chalcopyrite is also present although to a lesser degree and occurs in the form of fine-grained specks or disseminations.

WORK DONE: Surface diamond drilling, four holes totalling 351.13 metres on Log 54, 63, and 64 (prior to abandonment); rotary drilling, 218.24 metres on Log 4 (unit 2); drill hole control survey, 1:6000.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 125; Assessment Report 5601; MI 92H/NE-115, 118.

PAR (Fig. E-1, NTS 92H, No. 27)

LOCATION: Lat. 49° 48' Long. 120° 38' (92H/15E)
NICOLA M.D. Fourteen kilometres south of Aspen Grove village, on the west side of Highway 5, at approximately 900 metres elevation.

CLAIMS: PAR 1 to 8, 20, 22.

OWNER: Tormont Mines Ltd.

OPERATOR: ANDREW ROBERTSON, Box 11107, Royal Centre, 1055 West Georgia Street, Vancouver V6E 3P3.

WORK DONE: Surface diamond drilling, one hole totalling 32.1 metres on Par 4.

REFERENCE: *Minister of Mines, B.C.*, Ann. Rept., 1965, p. 157.

AU PYRAMID (Fig. E-1, NTS 92H, No. 63)

LOCATION: Lat. 49° 57' Long. 120° 31' (92H/15E)
NICOLA M.D. Two kilometres east-northeast of Pothole Lake, 7 kilometres east-northeast of Aspen Grove.

CLAIMS: AU PYRAMID (20 units).

OWNER: Harry Nesbitt.

OPERATOR: NEW PYRAMID GOLD MINES INC., 300, 890 West Pender Street, Vancouver.

METALS: Gold, copper.

WORK DONE: Surface diamond drilling, two holes totalling 86.4 metres on Au Pyramid (unit 4).

REFERENCE: Assessment Report 5766.

HALO, BROATCH (Fig. E-1, NTS 92H, No. 64)

LOCATION: Lat. 49° 57' Long. 120° 35' (92H/15E)
NICOLA M.D. Three kilometres northeast of Aspen Grove.

CLAIMS: HALO 1 to 6, HALO Fraction, HALO 2 Fraction, BROATCH 1 to 4, RAM Fraction, EX 1 and 2, EX 1 Fraction, TOUCH 1 to 8.

OWNER: DAVID MINERALS LTD., 3620 Cambridge Avenue, Vancouver.

south side of Promontory Hills.

CLAIMS: CHALCO 6, 14 to 17, 38, 45, 46.

OWNER: MARIE-PAULE F. McANDREW, 212, 14840 – 105th Avenue, Surrey.

WORK DONE: Surface geological mapping, 1:31 680; geochemical survey, 37 soil samples and 2 rock samples analysed for copper and mercury covering all claims.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 144; Assessment Report 5771.

(92H/16W)

METAL: Copper.
DESCRIPTION: Of economic interest on the property is the Big Kid breccia, consisting of altered, brecciated diorite, with silicification, carbonitization, and sections mineralized with magnetite, pyrite, chalcopyrite, bornite, and chalcocite.
WORK DONE: Petrographic analysis of samples taken on one-day geological examination of Halo 3-6.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 138; Assessment Report 5719; MI 92H/NE-71 to 76.

SIWASH (Fig. E-1, NTS 92H, No. 65)

LOCATION: Lat. 49° 49' Long. 120° 23.5' (92H/16W)
SIMILKAMEEN M.D. On Siwash Creek, 10 kilometres east of the north end of Missezula Lake.
CLAIMS: SIWASH 1 to 4.
OWNER: D. E. Agur.
OPERATOR: UTAH MINES LTD., 412, 510 West Hastings Street, Vancouver.
METAL: Copper.
WORK DONE: 1974 — induced polarization survey, geological mapping covering an area of 1 by 17 kilometres, analyses of 81 rock samples, and channel sampling covering Siwash 1-4.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 140; Assessment Reports 4077, 5547; MI 92H/NE-111.

BRENDA MINE

LOCATION: Lat. 49° 53' Long. 120° 00.5' (92H/16E)
Report on this property in *Mining in British Columbia, 1975*.

ASHCROFT 92I

CABOT (Fig. E-1, NTS 92I, No. 37)

LOCATION: Lat. 50° 01' Long. 120° 36' (92I/2E)
NICOLA M.D. Fifteen kilometres southeast of Merritt, on the east side of Highway 5, immediately east of Corbett Lake.
CLAIMS: CABOT 1 to 8.
OWNER: J. R. Krushnisky.
OPERATOR: SONIC ENTERPRISES, 890 West Pender Street, Vancouver.
WORK DONE: Linecutting, approximately 18 line-kilometres on Cabot 1-8.
REFERENCE: Assessment Report 5544.

(92I/2E)

MINT (Fig. E-1, NTS 92I, No. 38)

LOCATION: Lat. 50° 02' Long. 120° 31' (92I/2E)
NICOLA M.D. Twenty kilometres southeast of Merritt, on Quilchena Creek immediately south and southeast of Indian Reserve 7.

CLAIMS: QUIL 1 to 16, QUIL 17 (10 units), QUIL 18 (6 units), QUIL 19 (6 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD. 801, 161 Eglinton Avenue East, Toronto, Ontario.

METALS: Copper, molybdenum.

DESCRIPTION:

The northwestern section of the property is underlain by the Quilchena pluton, a subsidiary stock of the Pennask batholith which intrudes the Nicola Group of volcanic and sedimentary rocks of Upper Triassic age. Two porphyritic stages of the quartz monzonite were observed with the majority consisting of quartz phenocrysts set in a hydrothermally altered biotite-quartz feldspar matrix. The central zone of the pluton has undergone argillic alteration while the borders have been subjected to phyllic alteration. Intense shearing with limonitic cavities after pyrite and quartz veining networks are very common throughout the intrusive rocks. Secondary K-feldspar and silicification form alteration envelopes around the quartz veins; chalcopyrite, pyrite, minor molybdenite, malachite, and minor azurite are the economic minerals located within or immediately surrounding these hydrothermal veins. The rock geochemistry indicates that all of the rocks sampled from the property and surrounding area were virtually barren of copper and molybdenum and that the mineralization of economic interest is restricted to the quartz veins. The economic mineralization increased toward the centre of the pluton and with depth of emplacement.

WORK DONE: Linecutting; surface geological mapping, 1 centimetre equals 48 metres; geochemical survey, 806 soil samples, 26 rock samples, and 40 stream sediment samples, 48.5 line-kilometres, 33 by 122-metre grid spacing covering Quil 1-16 and parts of 17-19.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 274; Assessment Report 5675; 92I/SE-84.

CHALCO (Fig. E-1, NTS 92I, No. 66)

LOCATION: Lat. 50° 10' Long. 120° 57' (92I/2W)
NICOLA M.D. Five kilometres southwest of the Craigmont mine, south side of Promontory Hills.

CLAIMS: CHALCO 6, 14 to 17, 38, 45, 46.

OWNER: MARIE-PAULE F. McANDREW, 212, 14840 — 105th Avenue, Surrey.

WORK DONE: Surface geological mapping, 1:31 680; geochemical survey, 37 soil samples and 2 rock samples analysed for copper and mercury covering all claims.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 144; Assessment Report 5771.

(92I/2W)

FL (Fig. E-1, NTS 92I, No. 39)

LOCATION: Lat. 50° 12' Long. 120° 53' (92I/2W)
NICOLA M.D. Twelve kilometres northwest of Merritt, 600 metres east of the 2600 portal of the Craigmont mine.

CLAIMS: FL 1 to 8, FL 9 and 10 Fractions.

OWNER: GEORGE CRESSY, Box 406, Merritt.

DESCRIPTION: Rock outcrops of Nicola aspect occur in the valley of Stumbles Creek, 1 050 to 1 600 metres north of the Craigmont mine road.

WORK DONE: 1974 — prospecting of eight claims; 1975 — 13 line-kilometres of linecutting covering all claims.

REFERENCES: Assessment Reports 5373, 5788.

CRAIGMONT MINE

LOCATION: Lat. 50° 12.5' Long. 120° 55.5' (92I/2W)
Report on this property in *Mining in British Columbia, 1975*.

BETTY LOU (Fig. E-1, NTS 92I, No. 40)

LOCATION: Lat. 50° 12' Long. 120° 59' (92I/2W)
NICOLA M.D. Seventeen kilometres northwest of Merritt, on the northwest slope of Promontory Hills.

CLAIMS: BETTY LOU 2, 4, 6, 8 to 14, BETTY LOU 1 to 4 Fractions, LOO Fraction, BETTY (2 units).

OWNER: C. C. RENNIE, 1943 Boulevard Crescent, North Vancouver.

METALS: Lead, zinc.

DESCRIPTION: In the southern claim area, exposed rocks are mainly greywackes with some intercalated limestone and argillite. Andesite fragments outcrop along the northern portion of the claims and hornblende diorite is exposed in the northwest. A small occurrence of galena and sphalerite was noted at the top of Promontory Hills.

WORK DONE: Surface geological mapping, 1:5000; magnetometer survey, 11 line-kilometres covering 14 claims.

REFERENCES: *Minister of Mines, B.C., Ann. Rept., 1967, p. 164*; Assessment Report 5630; MI 92I/SE-173.

BURN (Fig. E-1, NTS 92I, No. 76)

LOCATION: Lat. 50° 19' Long. 121° 00' (92I/6E, 7W)
KAMLOOPS M.D. On Skuhun Creek, from Twin Lakes in the east to Skuhost Creek in the west.

CLAIMS: BURN 1 to 94.

OWNER: CITIES SERVICE MINERALS CORP., 405, 1200 West Pender Street, Vancouver V6E 2S9.

DESCRIPTION: Bethsaida quartz monzonite was intersected throughout the coring.

(92I/6E)

WORK DONE: Rotary drilling, three holes totalling 258 metres on Burn 61, 67, and 69.

REFERENCE: Assessment Report 5756.

LL, TC (Fig. E-1, NTS 92I, No. 77)

LOCATION: Lat. 50° 20' Long. 121° 02' (92I/6E)
KAMLOOPS M.D. Two kilometres north of Skuhun Creek; on Skuhost Creek, between 1 050 and 1 500 metres elevation.

CLAIMS: LL 1, 2, 12, 13, TC 2, 4, ALL (9 units).

OWNER: ALL STAR RESOURCES LTD., Box 2015, Vancouver.

WORK DONE: Geochemical survey, 25 rock samples and 60 soil samples; linecutting, 5 line-kilometres; road construction, 0.5 kilometres on LL 2, 12 and ALL; trenching, 360 square metres on LL 12.

REFERENCE: B.C. Dept. of Mines & Pet. Res., GEM, 1971, p. 341 (BIN).

AW, AWARD (Fig. E-1, NTS 92I, No. 46)

LOCATION: Lat. 50° 25' Long. 121° 01' (92I/6E)
KAMLOOPS M.D. Highland Valley, immediately south of the Lornex mine.

CLAIMS: AW, AWARD, AM, IRIS, XL, ROSS, DON, LORNEX, GRANITE, CALCO, MOOSE, etc., totalling approximately 110.

OWNER: LORNEX MINING CORPORATION LTD., 202, 580 Granville Street, Vancouver.

WORK DONE: 1974 - IP survey, approximately 170 line-kilometres and magnetometer survey, approximately 176 line-kilometres covering most of the property.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 131; Assessment Report 5376.

LORNEX MINE

LOCATION: Lat. 50° 27' Long. 121° 03' (92I/6E)
Report on this property in *Mining in British Columbia*, 1975.

ROYAL (Fig. E-1, NTS 92I, No. 48)

LOCATION: Lat. 50° 27' Long. 121° 05' (92I/6E)
KAMLOOPS M.D. Centred 1.5 kilometres southeast of Calling Lake, between 1 500 and 1 650 metres elevation.

CLAIMS: ROYAL 2, 4, 6, 8, 10, 12 to 40, ROYAL A, B, and C Fractions, CANA 9 and 10, RC 1 to 4.

OWNER: Pan Ocean Oil Ltd.

OPERATOR: TRANS WEST MINERALS LTD., 2060, 200 Granville Street, Vancouver V6C 1S4.

(92I/6E)

METAL: Copper.

DESCRIPTION: The property is underlain primarily by Bethsaida phase granodiorite-quartz monzonite of the Guichon Creek batholith. Some later quartz porphyry dykes cut this rock in a few places. Minor occurrences of pyrite and chalcopyrite are found in the northeast corner of the property and in a small area east of O.K. Lake.

WORK DONE: Percussion drilling, six holes totalling 468 metres on Royal 22, 24, and 25.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 170, 171; Assessment Report 5715; MI 92I/SW-9.

OK (ALWIN) MINE

LOCATION: Lat. 50° 29' Long. 121° 06' (92I/6E)
Report on this property in *Mining in British Columbia, 1975*.

CAPER (Fig. E-1, NTS 92I, No. 72)

LOCATION: Lat. 50° 19' Long. 120° 53' (92I/7W)
NICOLA M.D. Three kilometres from Guichon Creek, on Broom Creek, at approximately 1 200 metres elevation.

CLAIMS: CAPER 1 to 8, CAP 1 to 9, CAP Fraction.

OWNERS: H. H. Shear and D. F. Pasco.

OPERATOR: H. H. SHEAR, Box 159, Greenwood V0H 1J0.

METAL: Copper.

DESCRIPTION: Copper carbonates occur in shear and fault zones in granodiorite.

WORK DONE: Underground work, two prospect shafts, 9.5 metres on Caper 8 and Cap 1.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 173, 174.

BUCK (Fig. E-1, NTS 92I, No. 44)

LOCATION: Lat. 50° 21' Long. 120° 49' (92I/7W)
NICOLA M.D. Two kilometres south-southwest of the south end of Mamit Lake.

CLAIMS: BUCK 1 to 4.

OWNER: YUKONADIAN MINERAL EXPLORATIONS LIMITED, 707, 543 Granville Street, Vancouver.

METAL: Copper.

DESCRIPTION: A dark, medium-grained gabbro is cut by shears, up to 15 centimetres wide, which contain pyrite, chalcopyrite, and malachite. The mineralization is exposed in an old adit and in trenches.

WORK DONE: Geochemical survey, 99 soil samples tested for copper covering Buck 1-4.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 270 (LEE); Assessment Reports 1851A, 1851B, 5538; MI 92I/SE-65.

(92I/7W, 6E)

HIGHMONT (IDE—AM) (Fig. E-1, NTS 92I, No. 47)

LOCATION: Lat. 50° 26' Long. 121° 00' (92I/7W, 6E)
KAMLOOPS M.D. On the south side of the Highland Valley, northwest slopes of Gnawed Mountain, at approximately 1 620 metres elevation.

CLAIMS: AM 1 to 10, IDE 1, 3 to 8, 12 to 18, NEW IDE 19, 20, ANN 3, 4, 7, 18, and 20 Fractions, NEW ANN 11 Fraction, PHYLLIS Fraction, LYNN 12 to 16, MO 2 and 3 Fractions, JAY 102, JAY 103 Fraction, AWSIUKIEWICZ Fraction, KEN 21, 22, NEW KEN 23 to 26 Fractions.

OWNER: Highmont Mining Corp. Ltd.

OPERATOR: TECK CORPORATION LTD., 1199 West Hastings Street, Vancouver V6E 2K5.

METALS: Copper, molybdenum.

DESCRIPTION: Bornite, chalcopyrite, and molybdenite occur along fractures and disseminated in the Skeena phase of the Guichon Creek batholith.

WORK DONE: Surface geological mapping, 1:4800, covering Ide, AM, MO, Ann, and Jay; VLF EM survey, 18 line-kilometres, 30 by 60-metre grid spacing covering AM and Ide; magnetometer survey, 92 line-kilometres, 122-metre grid spacing covering AM, Ide, etc.; linecutting, 15 line-kilometres on AM and Ide.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 131; Assessment Reports 5409 and 5754; MI 92I/SE-13 and MI 92I/SW-36.

BETHLEHEM MINE

LOCATION: Lat. 50° 29.5' Long. 120° 59' (92I/7W)
Report on this property in *Mining in British Columbia, 1975*.

HEC (Fig. E-1, NTS 92I, No. 70)

LOCATION: Lat. 50° 15' Long. 120° 45' (92I/7E)
NICOLA M.D. Sixteen kilometres north-northeast of Merritt, adjacent to and north of Saxon Lake, at approximately 1 500 metres elevation.

CLAIMS: HEC 1 to 9.

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ontario.

METALS: Copper, zinc.

DESCRIPTION: Nicola volcanic rocks, comprising basalts and andesitic flows and flow breccias, andesitic tuffs, and interflow lahar units, are intruded by small, plagioclase porphyritic microdiorite and micromonzonite bodies. Pyrite-quartz mineralization occurs in an alteration zone.

WORK DONE: Surface geological mapping, 1:4800 and geochemical survey, 316 soil samples, 74 rock samples, and 118 stream sediment samples, 19.2 line-kilometres, 33 by 122-metre grid spacing covering all claims.

(92I/7E)

CLAP (SMOKIE) (Fig. E-1, NTS 92I, No. 42)

LOCATION: Lat. 50° 19' Long. 120° 36' (92I/7E)
NICOLA M.D. Seventeen kilometres north-northeast of Nicola, 3 kilometres east of Clapperton Creek, on the west slope of Mount Mabel, at approximately 1 500 metres elevation.

CLAIMS: CLAP 1 to 18, CLAP 19 (6 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ontario.

METALS: Copper, molybdenum.

DESCRIPTION: The property is underlain by the Hybrid phase of the Nicola batholith and by a zone of chloritized volcanic rocks on the west side of the property. Copper mineralization occurs at several locations in quartz veins to 15 centimetres thickness, in veinlets of quartz and hornblende on fractures, and very rarely disseminated (in greenstones). Mineralization comprises chalcopyrite, bornite, chalcocite, malachite, and rarely molybdenite.

WORK DONE: Surface geological mapping, 1:4800 and geochemical survey, 567 soil samples, 87 rock samples, and 122 stream sediment samples, 34 line-kilometres, 33 by 122-metre grid spacing covering Clap 1-18.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 370; Assessment Reports 2715, 5678; MI 92I/SE-174 to 177.

REY (RL) (Fig. E-1, NTS 92I, Fig. 43)

LOCATION: Lat. 50° 20' Long. 120° 43' (92I/7E)
NICOLA M.D. Eight kilometres east-southeast of Mamit Lake, surrounding Rey Lake, at approximately 1 350 metres elevation.

CLAIMS: REY 3 to 8, 33 to 38, 40, 42, 44, 50 to 56, 133 to 152, 201 to 242, REY 243 and 244 Fractions, FRAC 15 and 20 Fractions, RL 1 to 20, RL 21 (6 units).

OWNER: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops.

METALS: Copper, molybdenum.

WORK DONE: Surface diamond drilling, nine holes totalling 1 750 metres on Rey 207, 208, 209, 210, 226, 228, and RL 14.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 181-184; Assessment Report 5658; MI 92I/SE-160.

REY (Fig. E-1, NTS 92I, No. 67)

LOCATION: Lat. 50° 21' Long. 120° 41' (92I/7E)
NICOLA M.D. Eight kilometres east-southeast of Mamit Lake, centred 3 kilometres northeast of Rey Lake, at approximately 1 500 metres elevation.

CLAIMS: REY 1 to 28.

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ontario.

(92I/7E)

METAL: Copper.
DESCRIPTION: The claims are underlain by Nicola Group volcanic rocks, comprising andesitic and dacitic pyroclastic rocks, plagioclase porphyry andesite and basalt flows, augite porphyry basalt flows, volcaniclastic conglomerates and lahars, and fossiliferous limestone. Pyrite occurs disseminated and in joints and fractures.
WORK DONE: Surface geological mapping, 1:4800 and geochemical survey, 852 soil samples, 76 rock samples, and 164 stream sediment samples, 58 line-kilometres, 33 by 122-metre grid spacing covering all claims.
REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 181-184.

FROG (Fig. E-1, NTS 92I, No. 69)

LOCATION: Lat. 50° 25' Long. 120° 32' (92I/7E)
KAMLOOPS M.D. Seven kilometres south-southwest of Lac Le Jeune, 2 kilometres northwest of Mildred Lake, at approximately 1 500 metres elevation.
CLAIMS: FROG 1 to 12.
OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ontario.
METAL: Copper.
DESCRIPTION: *Pyrite occurs in quartz feldspar veins in foliated biotite granodiorite.*
WORK DONE: Surface geological mapping, 1:4800 and geochemical soil survey, 432 soil samples, 14 rock samples, and 64 stream sediment samples, 24 line-kilometres, 33 by 122-metre grid spacing covering all claims.

QUEN (Fig. E-1, NTS 92I, No. 68)

LOCATION: Lat. 50° 25' Long. 120° 43' (92I/7E)
NICOLA M.D. Seven kilometres east of the north end of Mamit Lake, south side of Quenville Creek, at approximately 1 500 metres elevation.
CLAIMS: QUEN 1 to 16.
OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ontario.
METAL: Copper.
DESCRIPTION: *The property is underlain by Nicola volcanic rocks, consisting of plagioclase microporphyritic andesite, massive, unsorted volcanic conglomerate, and augite microporphyritic andesite. Chalcopyrite, malachite, azurite, bornite, and native copper are associated with epidote-quartz-carbonate vein systems.*
WORK DONE: Surface geological mapping, 1:4800 and geochemical survey, 437 soil samples, 40 rock samples, and 33 stream sediment samples, 26.3 line-kilometres, 33 by 122-metre grid spacing on Quen 1-16.
REFERENCE: MI 92I/SE-178.

HOPE (Fig. E-1, NTS 92I, No. 75)

LOCATION: Lat. 50° 17' Long. 120° 16' (92I/8W)
 NICOLA M.D. Three kilometres west of Peter Hope Lake, at approximately 1 450 metres elevation.

CLAIMS: HOPE 1 to 25.

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ontario.

METAL: Copper.

DESCRIPTION: Nicola volcanic rocks and augite porphyry andesite flows are inter-layered with sparsely fossiliferous argillites and arenites. Pyrite is disseminated in fractures.

WORK DONE: Surface geological mapping, 1:4800 and geochemical survey, 758 soil samples, 71 rock samples, and 89 stream sediment samples, 50 line-kilometres, 33 by 122-metre grid spacing covering all claims.

PETER (Fig. E-1, NTS 92I, No. 74)

LOCATION: Lat. 50° 20' Long. 120° 18' (92I/8W)
 NICOLA M.D. Five and one-half kilometres southeast of Stump Lake, 3.5 kilometres north-northeast of Peter Hope Lake, at approximately 1 350 metres elevation.

CLAIMS: PETER 1 to 20.

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 801, 161 Eglinton Avenue East, Toronto, Ontario.

METAL: Copper.

DESCRIPTION: Augite porphyry andesite flows, agglomerate, and coarse lithic tuffs are cut by basaltic and lamprophyric dykes.

WORK DONE: Surface geological mapping, 1:4800 and geochemical soil survey, 594 soil samples, 124 rock samples, and 76 stream sediment samples, 40 line-kilometres, 33 by 122-metre grid spacing covering all claims.

MARY REYNOLDS (Fig. E-1, NTS 92I, No. 73)

LOCATION: Lat. 50° 20' Long. 120° 20' (92I/8W)
 NICOLA M.D. Three and one-half kilometres south-southeast of the middle of Stump Lake, at approximately 1 050 metres elevation.

CLAIMS: Mineral Lease M-20 comprising MARY REYNOLDS and GOLD CUP (Lots 674 and 675), Mineral Lease M-19 comprising ROBERT DUNSMUIR (Lot 673), PV 1 (units 1 and 16), PV 2 (units 1 to 4, 13 to 16, 17 to 20, 24 to 27).

OWNER: PINE VALLEY EXPLORERS LTD., Box 441, Merritt, V6K 2B0.

METALS: Gold, silver, lead, zinc, copper.

DESCRIPTION: Mineralization occurs as veins and as disseminations in an extensive quartz carbonate zone in massive to mildly foliated augite andesite of the Nicola greenstone.

(92I/8W)

WORK DONE: 1974 — claims and topography surveyed (1:3600); underground work, 4.5 metres (reopened caved adit); 1975 — surface prospecting and sampling related to feasibility studies.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 190; MI 92I/SE-115.

JENNY LONG, JOHANNESBURG (Fig. E-1, NTS 92I, No. 45)

LOCATION: Lat. 50° 20' Long. 120° 23' (92I/8W)

NICOLA M.D. From the south side of Stump Lake to 5 kilometres south of the lake, at approximately 1 050 metres elevation.

CLAIMS: Fifty reverted Crown-granted claims including JENNY LONG (Lot 718), AZELA (Lot 692), KING WILLIAM (Lot 592), NO SURRENDER (Lot 591), and approximately 60 located claims including BEE, WB, and TC.

OWNERS: C. F. Graham and William Takeshita.

OPERATOR: JUNIPER MINES LTD., 101, 325 Howe Street, Vancouver V6C 1Z7.

METALS: Gold, silver, lead, (zinc, copper).

DESCRIPTION: The property is underlain by greenstone of the Upper Triassic Nicola Group. Gold and silver, associated with galena, sphalerite, pyrite, and chalcopryrite, occur in quartz vein systems which are associated with shear zones and alteration zones cutting the greenstone.

WORK DONE: Surface geological mapping, 1:1200 covering Park View, C Fraction, Jenny Long, Moon, Star Fraction 1, King William, Marion C Fraction, Sheelah, Maybelle Fraction, No Surrender; geochemical survey, 37 samples, 1.8 line-kilometres, 30-metre grid spacing covering Azela claim; surface diamond drilling, three holes totalling 235.2 metres on Jenny Long, King William, and No Surrender.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 148, 149; Assessment Report 5565; MI 92I/SE-29, 31, 32, 110, 111, 113, 114.

EM, MARN (Fig. E-1, NTS 92I, No. 49)

LOCATION: Lat. 50° 31' Long. 120° 14' (92I/9E)

KAMLOOPS M.D. Two kilometres east of the south end of Shumway Lake.

CLAIMS: EM 6 and 8, MARN 7 and 9.

OWNER: RIMCO RESOURCES LTD., 330, 890 West Pender Street, Vancouver.

DESCRIPTION: The vertical drill hole intersected hornblende quartz monzonite, hornblende diorite, and quartz monzonite.

WORK DONE: Surface diamond drilling, one hole totalling 45.9 metres on EM 8.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 149, 150; Assessment Report 5497.

DAVE (Fig. E-1, NTS 92I, No. 50)

LOCATION: Lat. 50° 36' Long. 120° 24' (92I/9W)
 KAMLOOPS M.D. Nine kilometres southwest of Kamloops, 0.5 kilometres southeast of Jacko Lake.

CLAIMS: DAVE 26 and 28, DAVE 3 Fraction.

OWNER: NEW MINEX RESOURCES LTD., 210, 470 Granville Street, Vancouver.

WORK DONE: Linecutting and VLF EM survey, 3 line-kilometres covering all claims.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973 p. 196 (PAM, BUDA); Assessment Reports 5382, 5384.

ROD (Fig. E-1, NTS 92I, No. 82)

LOCATION: Lat. 50° 38' Long. 120° 30' (92I/9W, 10E)
 KAMLOOPS M.D. Thirteen kilometres west-southwest of Kamloops, 2 kilometres west of Sugarloaf Hill, at approximately 700 metres elevation.

CLAIMS: ROD 1 (8 units), ROD 3 (16 units), ROD 4 (1 unit), KAREN 1 (8 units), KAREN 2 (1 unit).

OWNER: AFTON MINES LTD., 14, 1199 West Hastings Street, Vancouver V6E 2K5.

METAL: Copper.

DESCRIPTION: The claims are underlain by Iron Mask plutonic rocks and Nicola Group volcanic breccia. Minor malachite and pyrite are exposed.

WORK DONE: Surface geological mapping, 1:4800 covering Karen 1 and 2; magnetometer survey, 9.5 line-kilometres and VLF EM survey, 19 line-kilometres, 122-metre grid spacing covering Karen 1 and 2 (all units); geochemical soil survey, 1 142 samples, 63 line-kilometres, 122-metre grid spacing covering all claims; linecutting, 63 line-kilometres covering all claims; claims surveyed, 1:4800.

REFERENCES: *Minister of Mines*, Ann. Rept., 1957, p. 31; Assessment Reports 141, 192 (DM, AFTON).

ZZ, WIL (Fig. E-1, NTS 92I, No. 51)

LOCATION: Lat. 50° 41' Long. 120° 30' (92I/9W, 10E)
 KAMLOOPS M.D. Eleven kilometres due west of Kamloops, adjoining and lying to the north of the Afton Mines property and the Trans Canada Highway.

CLAIMS: ZZ 2 to 8, 15 to 20, 27 to 32, 50, WILL 1 to 5 and 7 Fractions.

OWNERS: Horseshoe Mines Ltd. and China Commercial Corp. Ltd.

OPERATOR: HORSESHOE MINES LTD., 1555 Franklin Street, Vancouver.

DESCRIPTION: Minor malachite occurs in fractures in purple fragmental andesites of the Kamloops Group.

WORK DONE: Surface geological mapping, 1:3600, covering ZZ 15-20.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 322; Assessment Report 5467.

RAG (Fig. E-1, NTS 92I, No. 53)

LOCATION: Lat. 50° 37' Long. 120° 40' (92I/10E)
 KAMLOOPS M.D. Twenty-four kilometres west-southwest of Kamloops, 2 kilometres west of Greenstone Mountain, at approximately 1 500 metres elevation.

CLAIMS: RAG 1 to 6, 8, 10, 15 to 20, 23 to 40, 52, 57 to 65, 71 to 78, 81, 83, 85, 87, 89, 95, 96, RAG B, C, and E Fractions, RAG 97 (1 unit).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: Massive flows of Nicola volcanic and pyroclastic rocks are intruded by a composite stock of monzonite and diorite composition.

WORK DONE: Surface diamond drilling, two holes totalling 268 metres on Rag 73.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 200; Assessment Report 5673; MI 92I/NE-45, 130.

HUGHES (Fig. E-1, NTS 92I, No. 81)

LOCATION: Lat. 50° 39' Long. 120° 33' (92I/10E)
 KAMLOOPS M.D. Sixteen kilometres west of Kamloops, 2 kilometres west of Hughes Lake, at approximately 750 metres elevation.

CLAIMS: HUGHES 1 (3 units), HUGHES 2 (1 unit), HUGHES 3 (3 units), HUGHES 4 (1 unit), HUGHES 5 (2 units), HUGHES 6 (1 unit).

OWNER: AFTON MINES LTD., 14, 1199 West Hastings Street, Vancouver V6E 2K5.

DESCRIPTION: The claims are underlain by Nicola Group volcanic and sedimentary rocks which are locally overlain by Kamloops Group sedimentary rocks.

WORK DONE: Surface geological mapping, 1:4800, covering all claims; VLF EM survey, 8.7 line-kilometres, 122-metre grid spacing covering all Hughes 1 and 5 and south part of Hughes 3 (both units); geochemical soil survey, 276 samples, 15.4 line-kilometres, 122-metre grid spacing covering all claims; linecutting, 15.4 line-kilometres covering all claims.

KL (SKI) (Fig. E-1, NTS 92I, No. 52)

LOCATION: Lat. 50° 45' Long. 120° 35' (92I/10E, 15E)
 KAMLOOPS M.D. Between Battle Bluff and Frederick, 2 kilometres north of Kamloops Lake, at approximately 600 metres elevation.

CLAIMS: SKI 1 to 10, 13 to 42.

OWNER: Alaskex Mining Corporation.

OPERATOR: AFTON MINES LTD., 14, 1199 West Hastings Street, Vancouver V6E 2K5.

METAL: Copper.

DESCRIPTION: Kamloops Group (Middle Eocene) tuffaceous shales and diabase sills overlie Nicola Group (Upper Triassic) andesite lava adjacent to an exposed Iron Mask pluton (Cherry Creek diorite and syenite). Pyrite occurs in Kamloops Group shales.

(92I/10W)

WORK DONE: IP survey, 15 line-kilometres, 122-metre grid spacing covering all claims;
IP survey, 4.27 line-kilometres, 122-metre grid spacing covering Ski 3-6;
magnetometer survey, 3.66 line-kilometres, 122-metre grid spacing
covering Ski 3-6; rotary drilling, one hole totalling 218 metres on Ski 5.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 221; Assessment
Reports 4021, 4022, 5390, 5708; MI 92I/NE-55.

WA (Fig. E-1, NTS 92I, No. 54)

LOCATION: Lat. 50° 32' Long. 120° 52' (92I/10W)
KAMLOOPS M.D. Eight kilometres south of Tunkwa Lake, 1.5
kilometres west of Guichon Creek, at approximately 1 050 metres
elevation.
CLAIMS: WA 1 (9 units), WA 2 (4 units).
OWNER: Lorne E. Ross.
OPERATOR: CARPIQUET MINES LTD., Box 157, Ashcroft.
DESCRIPTION: Granodiorite of the Guichon Creek batholith exhibits moderately
strong hydrothermal alteration.
WORK DONE: Percussion drilling, four holes totalling 144 metres on WA 2 (northwest
unit).

KRAIN COPPER (Fig. E-1, NTS 92I, No. 55)

LOCATION: Lat. 50° 34' Long. 121° 00' (92I/10W, 11E)
KAMLOOPS M.D. Highland Valley, 10 kilometres north of the
Bethlehem mine, on the east side of Forge Mountain.
CLAIMS: GETTY 1 to 24, GETTY A Fraction.
OWNER: JOHN B. LEPINSKI, Box 811, Ashcroft V0K 1A0.
METAL: Copper.
DESCRIPTION: The Krain Copper property is underlain by rocks of the Guichon Creek
batholith. A large number of porphyry dykes intrude the granitic rocks.
In the northern part of the property, the granites are unconformably
overlain by Tertiary volcanic flows. Chalcopyrite with minor bornite
and pyrite occurs as specks, disseminations, and fracture fillings in
shattered zones near the margins of porphyry dykes. The Krain Copper
deposit lies on Getty 1 to 4 and Getty A Fraction.
WORK DONE: Percussion drilling, three holes totalling 171 metres on Getty 17 and 19
(approximately 1 kilometre south of the Krain Copper deposit).
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 205, 206; Assessment
Report 5541; MI 92I/NE-38.

LOUISE (TOFIN) (Fig. E-1, NTS 92I, No. 80)

LOCATION: Lat. 50° 32' Long. 121° 14' (92I/11E)
KAMLOOPS M.D. Four kilometres from the Thompson River, on
Pukaist Creek.

(92I/11E)

CLAIMS: L&L 1 to 10.
OWNER: L. W. REAUGH, Box 444, Cache Creek.
METAL: Copper.
WORK DONE: Percussion drilling, five holes totalling 159 metres on L&L 2 and 4.
REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1958, p. 21 (LOUIS); *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 249 (CHALCO); Assessment Report 5774; MI 92I/NW-5.

CHIEF, GEO (Fig. E-1, NTS 92I, No. 56)

LOCATION: Lat. 50° 44' Long. 121° 01' (92I/11E)
KAMLOOPS M.D. Three kilometres southwest of Wallachin and 2 kilometres south of the Thompson River.
CLAIMS: CHIEF 1 to 48, GEO 57 to 62, URSUS 1 to 4, A 1, A 2, and 101 to 105 Fractions.
OWNER: B P MINERALS LIMITED, 405, 1199 West Pender Street, Vancouver V6E 2R1.
METAL: Copper.
DESCRIPTION: Much of the western and northern parts of the property is underlain by Nicola Group andesite and basalt flows with some interbedded limestone. A large body of hornblende diorite, which may connect with the Guichon Creek batholith, has intruded the Nicola rocks in the area of the 1974 surveys. The hornblende diorite has been intruded by a body of quartz syenite/quartz monzonite and associated breccia, and by a small quartz porphyry pluton. Copper minerals occur widely in minor amounts, in particular in pyritic Nicola andesites, in a vein of massive magnetite, and in a skarn at a diorite-limestone contact. The most prospective copper occurrence contains disseminated chalcopryite in intrusive breccia bodies on the west side of Lower Rattlesnake Creek, on Chief 18.
WORK DONE: 1974 — IP and magnetometer surveys, detailed geological mapping, and soil sampling covering Chief 10, 12, 15-18, 26, 31.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 208; Assessment Report 5730; MI 92I/NW-55, 18.

MAGGIE MINE (Fig. E-1, NTS 92I, No. 57)

LOCATION: Lat. 50° 55.5' Long. 121° 25' (92I/14W)
KAMLOOPS M.D. In the Bonaparte River valley, 14 kilometres north-northwest of Cache Creek, on the west side of Highway 97, at approximately 520 metres elevation.
CLAIMS: Three hundred and thirty-three including Mineral Lease M-33R (Lots 410 to 421) plus BETH, MAG, MM, MA, MO, R, S, T, B, M, and BC 1 (units 1, 2, 15 to 18), BC 2 (units 1 to 4, 13 to 20).

(92I/15W)

OWNER: BETHLEHEM COPPER CORPORATION, 2100, 1055 West Hastings Street, Vancouver V6E 2H8.

METALS: Copper, molybdenum, silver.

DESCRIPTION: The Maggie deposit occurs in and adjacent to an Early Tertiary biotite-quartz diorite porphyry which intrudes argillites, chert, tuffs, and andesitic volcanic flows of the Pennsylvanian (?) to Permian Cache Creek Group. The entire sequence is overlain to the east and northeast by Tertiary volcanic cover. Both porphyry and country rock were pervasively veined with quartz and altered to sericite, kaolinite, and biotite. Pyrite, chalcopyrite, molybdenite, and possibly bornite and tetrahedrite occur in quartz veins and as disseminated grains. Maximum development of pyrite, chalcopyrite, and molybdenite occurs in successive zones from periphery to core.

WORK DONE: Surface diamond drilling, two holes totalling 610.5 metres on M 17 and MM 5 Fraction; drill hole location surveyed, 1:2400.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 159; Assessment Report 5546; MI 92I/NW-15.

CHES (DIAMOND S; VERON) (Fig. E-1, NTS 92I, No. 83)

LOCATION: Lat. 50° 59' Long. 120° 51' (92I/15W)
KAMLOOPS M.D. Twenty-five kilometres due north of Savona, on Criss Creek, between 900 and 1 000 metres elevation.

CLAIMS: CC 1 (20 units), CC 2 (12 units).

OWNER: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops.

METALS: Gold, silver, molybdenum.

DESCRIPTION: Conglomerate and limestone (?) are intruded by a small granite stock. Pyrite, molybdenite, and possibly tetrahedrite occur in quartz veins and in silicified carbonate-mariposite rock.

WORK DONE: Surface geological mapping, 1:5000, covering 20 units; magnetic and EM-16 surveys, 30 line-kilometres, 100-metre grid spacing covering CC 1 (units 1-3, 14-27); topography mapped, 1:5000; linecutting, 30 line-kilometres.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1903, p. 193; 1967, p. 147; 1968, p. 173; *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 240; Assessment Reports 1124, 1602, 2033; MI 92I/NE-35, 56, 129.

SOUTHWEST BRITISH COLUMBIA
(NTS Division 92 and part of 102)

VICTORIA 92B

JILL (Fig. E-1, NTS 92, No. 1)

LOCATION: Lat. 48° 29' Long. 123° 46' (92B/5W)
VICTORIA M.D. Four and one-half kilometres due west of Leechtown, on Mount Jack, at approximately 600 metres elevation.

CLAIMS: JILL (4 units), partial restaking of JILL 1 to 20, JILL 1 Fraction, JACK 1 to 6.

OWNER: LEECH RIVER MINES LTD., 404, 335 St. James Street, Victoria V8V 4S8.

METAL: Copper.

DESCRIPTION: Chalcopyrite and minor pyrite and pyrrhotite, with occasional malachite staining, occur in shearing tangential to an intrusive stock. The small acidic stock, exhibiting porphyritic soda feldspars with a gabbro fringe zone, intrudes basalts of the Metchosin Group volcanic rocks.

WORK DONE: Topography mapped, 1:4800 (6-metre contour interval).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 163; Assessment Report 5457; MI 92B-101.

CAPE FLATTERY 92C

REKO

LOCATION: Lat. 48° 39' Long. 124° 18' (92C/9W)
Report on this property in *Geology in British Columbia, 1975*.

SR (Fig. E-1, NTS 92, No. 25)

LOCATION: Lat. 48° 50' Long. 124° 57' (92C/15W)
ALBERNI M.D. Thirteen kilometres east of Bamfield, on the east side of the South Sarita River, between 210 and 450 metres elevation.

CLAIMS: WET 3 to 20 and WET 21 (units 1 to 3).

OWNER: AMAX EXPLORATION, INC., 601, 535 Thurlow Street, Vancouver V6E 3L6.

METAL: Molybdenum.

DESCRIPTION: Pyrite and low-grade molybdenite occur in a complex diorite, felsite, and feldspar porphyry stock intrusive into andesitic volcanic rocks.

WORK DONE: Geochemical survey, 335 soil, silt, and rock samples, 14 line-kilometres, 120-metre grid spacing covering all claims; topography mapped, 1:4800.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1968, p. 104; Assessment Report 5772; MI 92C-83.

(92C/15W)

DOER (Fig. E-1, NTS 92, No. 2)

LOCATION: Lat. 48° 53' Long. 125° 00' (92C/15W)
ALBERNI M.D. One and one-half kilometres south of the mouth of Sarita River, at approximately 90 metres elevation.

CLAIMS: DOER 3 to 6.

OWNER: GRAND WEST MINES LTD., 208, 1899 Willingdon Avenue, Burnaby V5C 5R3.

METALS: Iron, copper, zinc.

DESCRIPTION: Magnetite, with pyrrhotite, pyrite, arsenopyrite, chalcopyrite, sphalerite, malachite, azurite, and possibly tetrahedrite, occurs as replacement in a skarn-like alteration zone in limestones adjacent to contact between volcanic rocks and a quartz diorite intrusion.

WORK DONE: Surface geological mapping, 1:6000 and geochemical survey, 12 rock samples, covering Doer 3 and 4; 240 metres of trail constructed on Doer 4.

REFERENCES: Assessment Report 5472; MI 92C-6.

KELLY

LOCATION: Lat. 48° 48.12' Long. 124° 30' (92C/15E, 16W)
Report on this property in *Geology in British Columbia, 1975*.

ALBERNI 92F

AUSTRIAN (Fig. E-1, NTS 92, No. 3)

LOCATION: Lat. 49° 08' Long. 124° 15' (92F/1W)
NANAIMO M.D. Twenty-four kilometres west of Nanaimo, on Deadhorse Creek, on the northwest slope of Mount De Cosmos.

CLAIMS: AUSTRIAN (Lot 49G), AFRICAN (Lot 50G), ALLIANCE (Lot 51G).

OWNER: G. E. KINNEARD, 520 Bradley Street, Nanaimo.

DESCRIPTION: The claims are underlain by grey andesite. Deadhorse Creek follows a shear zone which contains veins of quartz carrying calcite and pyrite.

WORK DONE: 1974 – prospecting covering three claims; 370 metres of line cut.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1930, p. 303; Assessment Report 5315.

STAR OF THE WEST (Fig. E-1, NTS 92, No. 5)

LOCATION: Lat. 49° 05' Long. 124° 45' (92F/2)
ALBERNI M.D. Two kilometres southeast from Franklin River, on Corrigan Creek.

CLAIMS: STAR OF THE WEST, COR 1 to 18.

OWNER: FOCUS RESOURCES LTD., 101, 325 Howe Street, Vancouver.

(92F/2E)

METAL: Copper.

DESCRIPTION: A large dyke of biotite granodiorite strikes northwest through the middle of the claim area, intruding Karmutsen basalt. Both rocks are injected by quartz veins which strike northeast and dip southeast, and range in width from 1.2 metres to narrow stringers. Some veins carry chalcopyrite. Trenching of gossaned patches on the basalt disclosed pyrite veinlets 3 to 6 millimetres wide.

WORK DONE: 1974 and 1975 — surface geological mapping, 1:480 and 1:12 000, covering Star of the West and Cor 5-17; blasting three trenches aggregating 10 metres long; cleaning out three old trenches.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1895, p. 653; 1923, p. 247; 1933, p. 252; Assessment Report 5400; MI 92F-215.

STORM (Fig. E-1, NTS 92, No. 26)

LOCATION: Lat. 49° 07' Long. 124° 36' (92F/2E)
ALBERNI M.D. Nineteen kilometres southeast of Port Alberni, on Mount McQuillan, at approximately 1 300 metres elevation.

CLAIMS: SOL 1 to 40.

OWNER: Coast Copper Company Limited.

OPERATOR: COMINCO LTD., 200 Granville Square, Vancouver V6C 2R2.

METALS: Copper, lead, zinc, gold, molybdenum.

DESCRIPTION: Sicker Group andesites on the east side of the ridge were dioritized on the west side. Small bodies of diorite were exposed along the ridge crest, and a larger mass extends 0.8 kilometre north from Mount McQuillan along the crest and west slope. These rocks are in turn intruded by a stock and dykes of acidic quartz feldspar porphyry. Abundant pyrite and pyrrhotite occur in three zones, accompanied by minor chalcopyrite and locally by minor molybdenite or sphalerite. The dioritized andesite and sulphide minerals occur in quartz veins or veinlets in andesite or dioritized andesite and are disseminated in porphyry dykes.

WORK DONE: Induced polarization survey, 1 line-kilometre (two test lines), covering Sol 25 and 27; some soil sampling.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 172, 173; MI 92F-82.

AMY (Fig. E-1, NTS 92, No. 4)

LOCATION: Lat. 49° 14' Long. 124° 41' (92F/2E)
ALBERNI M.D. Eight kilometres east of Port Alberni, at the headwaters of Rogers and Rifle Creeks.

CLAIMS: AMY 5 to 12.

OWNER: WESTERN MINES LIMITED, 1103, Three Bentall Centre, Box 49066, 595 Burrard Street, Vancouver V7X 1C4.

WORK DONE: Approximately 8 line-kilometres of line cut on Amy 6 and 8-12.

REFERENCE: Assessment Report 5594.

(92F/2W)

SUMMIT (Fig. E-1, NTS 92, No. 6)

LOCATION: Lat. 49° 13.5' Long. 124° 55.5' (92F/2W)
ALBERNI M.D. At the head of Fosseli Creek, 3 kilometres south of Stirling Arm, Sproat Lake.

CLAIMS: SUMMIT 1 and 2, CAS 7 and 8.

OWNER: WALTER GUPPY, Box 94, Tofino.

DESCRIPTION: Mapping by Muller and Carson show the area to be underlain by Bonanza volcanic rocks and Quatsino limestone. Very minor copper mineralization was found in volcanic rock.

WORK DONE: 1974 and 1975 – prospecting covering Summit 1, 2 and Cas 7, 8.

REFERENCE: Assessment Report 5650.

A

LOCATION: Lat. 49° 13' Long. 124° 56' (92F/2W)
Report on this property in *Geology in British Columbia, 1975*.

PRIDE OF THE WEST (Fig. E-1, NTS 92, No. 8)

LOCATION: Lat. 49° 02' Long. 125° 19.5' (92F/3W)
ALBERNI M.D. On the north shore of Toquart Bay, 1 kilometre north-northeast of Snowden Island.

CLAIMS: PRIDE OF THE WEST (Lot 538), HAMPTON (Lot 539).

OWNER: G. E. KINNEARD, 520 Bradley Street, Nanaimo.

DESCRIPTION: The claims are underlain by basalt which contains some disseminated pyrite and is in two places cut by narrow quartz veins.

WORK DONE: 1974 – prospecting the shoreline on Pride of the West and along creek on Hampton.

REFERENCE: Assessment Report 5387.

LEORA (Fig. E-1, NTS 92, No. 9)

LOCATION: Lat. 49° 08' Long. 125° 24' (92F/3W)
ALBERNI M.D. On the east side of Kennedy River, 1 kilometre upstream from Kennedy Lake.

CLAIMS: JEAN, DONALD, JACK (Lots 1684 to 1686).

OWNERS: F. C. Loring and G. E. Kinneard.

OPERATORS: F. C. LORING, G. E. KINNEARD, and VIVA VENTURES LIMITED, Box 126, Nanaimo.

METALS: Gold, silver, copper, zinc.

DESCRIPTION: Shear zones, which cut andesite, contain sulphide-bearing quartz. The mineralization was investigated in the early 1900's by two adits and two shafts and a mill was built on the property in 1915. Some gold and silver was produced between 1902 and 1915. The main workings are on the Donald claim.

(92F/3W)

WORK DONE: Prospecting and assaying old mine adit and vicinity (Donald claim).

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1912, p. 195; 1913, p. 278; 1914, p. 375; 1916, p. 329; 1935, p. F46; Assessment Report 5711; MI 92F-31.

VENT (Fig. E-1, NTS 92, No. 7)

LOCATION: Lat. 49° 14' Long. 125° 21' (92F/3W)

ALBERNI M.D. Fourteen kilometres north-northeast of Kennedy Lake, on the east side of Kennedy River and Highway 4, at approximately 720 metres elevation.

CLAIMS: KEN 1 to 11, KEN 3 Fraction, KEN 12 (1 unit).

OWNERS: J. D. GRAHAM and G. D. SMITH, Box 104, Logan Lake V0K 1W0.

METAL: Copper.

DESCRIPTION: Chalcopyrite and bornite occur in vesicles, fractures, and shear zones in Karmutsen volcanic rocks. Pyrite occurs in a nearby intrusion.

WORK DONE: Surface geological mapping, 1:10 000 and 1:1200, covering Ken 8 and 9.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 264; Assessment Reports 1902, 2464, 2996, 5624; MI 92F-229.

PROSPER (Fig. E-1, NTS 92, No. 10)

LOCATION: Lat. 49° 23' Long. 125° 45' (92F/5E)

ALBERNI M.D. Four kilometres from Bedwell Sound, on the east side of Bedwell River.

CLAIMS: PROSPER 1, BUR 1 to 3.

OWNERS: GOLDEN HINDE MINES LTD. and W. GUPPY, Box 94, Tofino.

METALS: Gold, silver, copper, lead.

DESCRIPTION: The Prosper property is underlain by Karmutsen volcanic rocks and limestone in contact with quartz diorite and diorite on the northwest part of the claims. Lenses of magnetite up to 3 metres wide, with chalcopyrite, occur as replacements in limestone and nearby volcanic rock. Similar lenses of magnetite and chalcopyrite occur in the volcanic rocks elsewhere on the claims. Mineralized quartz veins carrying gold values in some sections also occur on the property.

WORK DONE: Prospecting covering Bur 1-3 and Prosper 1.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1946, p. 183; 1947, p. 181; *B.C. Dept. of Mines & Pet. Res.*, Bull. No. 8, pp. 22-26; Assessment Reports 3629, 5506; MI 92F-53.

NOBLE, OK (Fig. E-1, NTS 92, No. 11)

LOCATION: Lat. 49° 26.5' Long. 125° 44' (92F/5E)

ALBERNI M.D. Ten kilometres from Bedwell Sound, on the north side of Bedwell River, at Noble and Dry Creeks.

(92F/5W)

CLAIMS: CUB 1 to 12, NUB 1 and 2.
OWNERS: GOLDEN HINDE MINES LTD. and W. GUPPY, Box 94, Tofino.
METALS: Copper, gold, silver, molybdenum.
DESCRIPTION: At the boundary of Cub 3 and 5, chalcopyrite occurs in a 13-centimetre quartz vein adjacent to an andesite dyke cutting granodiorite, near the contact of this intrusive body with Karmutsen volcanic rocks. Old workings on the claims exposed other quartz veins, some of which were reported to be mineralized with sulphides, containing silver and gold.
WORK DONE: 1974 and 1975 – linecutting and geochemical and geological surveys on Cub 3 and 5; three rock samples and 54 soil samples analysed for gold, silver, copper, and molybdenum; 10 metres of trenching on Cub 11 and 12.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 176; *B.C. Dept. of Mines & Pet. Res.*, Bull. No. 8, pp. 36-41; Assessment Reports 5419, 5520; MI 92F-57, 58.

CREAM, BEAR

LOCATION: Lat. 49° 29.2' Long. 125° 32.2' (92F/5W)
Report on this property in *Geology in British Columbia, 1975*.

JOE (Fig. E-1, NTS 92, No. 12)

LOCATION: Lat. 49° 17' Long. 125° 16' (92F/6W)
ALBERNI M.D. Four kilometres west of Taylor Arm, Sproat Lake, on Taylor River.
CLAIMS: JOE 1 to 12.
OWNER: A. D. MacLeod.
OPERATORS: GOLD VALLEY RESOURCES LTD. and D. W. TULLY, 202, 640 West Hastings Street, Vancouver.
DESCRIPTION: The area covered by the Joe claims and surrounding groups is underlain by Jurassic volcanic rocks.
WORK DONE: 1974 – 8 line-kilometres of grid and magnetometer survey covering Joe 1-9 and 11.
REFERENCE: Assessment Report 5368.

TAY (Fig. E-1, NTS 92, No. 13)

LOCATION: Lat. 49° 18' Long. 125° 16' (92F/6W)
ALBERNI M.D. Five kilometres west of Taylor Arm, between Doran Lake and Taylor River.
CLAIMS: TAY 1 to 6.
OWNER: FRANK MILAKOVICH, 3585 East 46th Avenue, Vancouver.
DESCRIPTION: The property is underlain by volcanic rocks, mainly andesites, which are intruded by quartz diorite dykes and irregular bodies.

(92F/6W)

WORK DONE: 1974 — geochemical survey, 43 soil samples analysed for gold and copper, covering Tay 1, 2, and 4.

REFERENCE: Assessment Report 5698.

TRI (Fig. E-1, NTS 92, No. 14)

LOCATION: Lat. 49° 18' Long. 125° 21' (92F/6W)
ALBERNI M.D. Ten kilometres west of Taylor Arm, on the south side of Taylor River.

CLAIMS: KETA 1 to 6.

OWNERS: GOLDEN HINDE MINES LTD. and W. GUPPY, Box 94, Tofino.

METALS: Copper, zinc.

DESCRIPTION: Limestones near contact with Karmutsen volcanic rocks contain minor, local occurrences of sulphides and magnetite.

WORK DONE: 1974 — linecutting, prospecting, and soil sampling (104 samples analysed for silver, copper, zinc) covering Keta 3, 4, 7, and 8.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 177; Assessment Report 5482; MI 92F-281.

CUP

LOCATION: Lat. 49° 16' Long. 124° 32' (92F/7W)
Report on this property in *Geology in British Columbia*, 1975.

NARVAEZ

LOCATION: Lat. 49° 38.2' Long. 124° 28.5' (92F/9W)
Report on this property in *Geology in British Columbia*, 1975.

KING MIDAS (Fig. E-1, NTS 92, No. 28)

LOCATION: Lat. 49° 40' Long. 124° 00' (92F/9E; 92G/12W)
VANCOUVER M.D. On Secheft Peninsula, south side of Sakinaw Lake.

CLAIMS: K 7 to 10, V 1 to 4.

OWNER: KEYSTONE EXPLORATIONS LTD., 1155, 555 Burrard Street, Vancouver.

METALS: Copper, silver.

DESCRIPTION: The area is underlain mainly by Coast Range granodiorite. On V 1 claim an inclusion of silicified calcareous sedimentary rock of the Jarvis Group is host to the King Midas showing. For 4.5 metres to 6 metres out from the granodiorite contact the inclusion is altered to calcite-epidote-garnet skarn, containing masses of magnetite and hematite. Pyrite and chalcopyrite occur as streaks and blobs in the skarn, concentrated within 1.2 metres to 1.8 metres of the contact, in

(92F/9W)

magnetite and quartz veins and stockworks in the granodiorite near the contact, and disseminated in the rock near the veins.

WORK DONE: Surface geological mapping, 1:480 and 1:6000; geochemical survey, 41 soil samples taken at 30 by 60-metre grid spacing covering V 1, 2, 4 and K 7, 8.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1937, p. F31; Assessment Report 5444; MI 92F-115.

JUNEAU (Fig. E-1, NTS 92, No. 16)

LOCATION: Lat. 49° 31' Long. 124° 21' (92F/9W)
NANAIMO M.D. Covering the northwest tip of Lasqueti Island.

CLAIMS: TOM 1 to 32.

OWNER: AMBER RESOURCES LIMITED, 1011, 470 Granville Street, Vancouver V6C 1V5.

METAL: Copper.

DESCRIPTION: The area is mainly underlain by volcanic rocks of the Karmutsen Formation. An old abandoned mine shaft near Scottie Bay reportedly contained chalcopryite and bornite within shear zones through the volcanic rocks.

WORK DONE: Linecutting; magnetometer survey, 12.8 line-kilometres; geochemical soil survey (samples analysed for copper, molybdenum, and silver), covering Tom 1-8.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 179; Assessment Report 5479; MI 92F-133.

CAP SHEAF (Fig. E-1, NTS 92, No. 17)

LOCATION: Lat. 49° 43' Long. 124° 29' (92F/9W)
NANAIMO M.D. Three kilometres north of Gillies Bay, Texada Island.

CLAIMS: CAP SHEAF (Lot 180), VANDERBILT (Lot 76), COPPER CAVE (Lot 151), STOBIE FR. (Lot 152), SOVERINE (Lot 183), MAXIE FR. (Lot 185), SHAMROCK (Lot 186), EDNA B (Lot 188), MILNER (Lot 77), plus GEORGE, GEORGE 2 to 24, ARROW Fraction.

OWNER: LONGBAR MINERALS LTD., Box 129, Vananda.

METALS: Copper, iron.

DESCRIPTION: A skarn zone, associated with a diorite porphyry intrusion, contains magnetite with blebs and disseminations of chalcopryite.

WORK DONE: 1974 and 1975 — VLF-EM and magnetometer surveys covering George 1-14, Cap Sheaf, Edna B, and Soverine; 1975 — diamond drilling, five short AQ holes totalling 42 metres on Cap Sheaf.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1897, p. 563; *Geol. Surv., Canada*, Mem. 58, p. 68; Assessment Reports 5699, 5749; MI 92F-274.

(92F/10E)

TEXADA MINE

LOCATION: Lat. 49° 42' Long. 124° 32' (92F/10E)
Report on this property in *Mining in British Columbia, 1975*.

COMMODORE (Fig. E-1, NTS 92, No. 18)

LOCATION: Lat. 49° 43.5' Long. 124° 34' (92F/10E)
NANAIMO M.D. From the south shore of Priest Lake to the coast of Texada Island at Beale Cove.

CLAIMS: BASIC, IDEAL, B, totalling 36.

OWNER: IDEAL BASIC INDUSTRIES, INC., 610, 1200 West Pender Street, Vancouver V6E 2S9.

METAL: Copper.

DESCRIPTION: Two holes, 30 metres each, were drilled on Basic 13 near the workings of the old Commodore mine. Both holes intersected an unmineralized dark diorite throughout. On Basic 8, a sulphide mineralized zone in limestone was encountered during limestone quarrying. The zone is exposed for a length of 54 metres on an east-west face approximately 12 metres high. It is bounded on the west by a narrow, northwest-trending, vertical dyke. Pyrite, with very minor chalcopyrite, occurs as fracture fillings in brecciated limestone. Mineralization was encountered from the collar for 4.5 metres in a drill hole.

WORK DONE: Surface diamond drilling, three holes totalling 90 metres on Basic 8 and 13.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1901, p. 1111; 1906, p. 202; *B.C. Dept. of Mines & Pet. Res.*, Bull. No. 40, p. 55; Assessment Report 5655; MI 92F-110.

LES, JASON (Fig. E-1, NTS 92, No. 19)

LOCATION: Lat. 49° 44' Long. 124° 34' (92F/10E)
NANAIMO M.D. Texada Island, surrounding Priest Lake.

CLAIMS: LES 1 to 4, JASON 1 to 5.

OWNER: STANLEY L. BEALE, 2325 Dyke Road, Richmond.

METAL: Copper.

DESCRIPTION: Diorite containing traces of copper mineralization was intersected in the drill holes.

WORK DONE: 1974 — diamond drilling, two EX vertical holes totalling 33 metres on Jason 1 and Les 1.

REFERENCE: Assessment Report 5386.

COPPER QUEEN, CORNELL (Fig. E-1, NTS 92, No. 27)

LOCATION: Lat. 49° 45' Long. 124° 32' (92F/10E, 15E)
NANAIMO M.D. Texada Island, between Vananda, Priest Lake, and Spratt Bay, ranging from sea level to approximately 250 metres elevation.

(92F/12E)

CLAIMS: COPPER QUEEN (Lot 40), CORNELL (Lot 201), McLEOD 1, 3 to 8 (Lots 521, 515 to 517, 518B, 519B, 520), McLEOD 2 FR. (Lot 522), LAP 5 and 6 (Lots 527 and 528), LAP 1 FR. to 4 FR. and 8 FR. (Lots 523, 524B, 525, 526, 530B), plus IC 1 to 4, 11 to 16.

OWNER: IDEAL CEMENT COMPANY (division of Ideal Basic Industries, Inc.), Rock Products Division, 610, 1200 West Pender Street, Vancouver V6E 2S9.

METAL: Copper.

WORK DONE: Aeromagnetic and ground magnetometer survey, completion of orientation survey.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 180; MI 92F-271, 112.

MYRA MINE (PARAMOUNT)

LOCATION: Lat. 49° 34' Long. 125° 35' (92F/12E)
Report on this property in *Mining in British Columbia, 1975*.

LYNX MINE

LOCATION: Lat. 49° 35' Long. 125° 36' (92F/12E)
Report on this property in *Mining in British Columbia, 1975*.

MT. WASHINGTON COPPER (Fig. E-1, NTS 92, No. 15)

LOCATION: Lat. 49° 46' Long. 125° 18' (92F/14)
NANAIMO M.D. Twenty-two kilometres northwest of Courtenay, on Mount Washington.

CLAIMS: DOMINEER 1, 3, 4, 6, (Lots 91G to 94G) plus MTW, DOT, MWC, totalling approximately 250.

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Copper, gold, silver.

DESCRIPTION: Karmutsen Formation basalt is unconformably overlain by Comox Formation sedimentary rocks. Both are intruded by Tertiary quartz diorite stocks, sills, and dykes and associated intrusive breccias. Porphyry copper-type mineralization, mainly chalcopyrite, pyrrhotite, and pyrite, occurs in intrusive breccias and quartz diorite sills.

WORK DONE: Induced polarization survey, 1 line-kilometre (one line), covering MWC 103 and 104; geochemical survey, 17 profile samples on MWC 271 and 65 soil samples, 2 line-kilometres, 30-metre grid spacing on MWC 271 and 272; trenching, 4 metres on MWC 103; surface diamond drilling, three BQ holes totalling 544.5 metres on MWC 222, 224, and 226.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 183; Assessment Report 5604; MI 92F-116, 117, 206, 365.

(92F/15E)

MARBLE BAY (Fig. E-1, NTS 92, No. 22)

LOCATION: Lat. 49° 45' Long. 124° 34' (92F/15E)
NANAIMO M.D. Texada Island, 1 kilometre north of Priest Lake, 0.7 kilometre southwest of Vananda.

CLAIMS: TEXADA (Lot 132), GABRIOLA FR. (Lot 139), GLADYS C (Lot 135), LEONARD (Lot 136), PRIEST (Lot 137), CADET (Lot 138), KEY FR. (Lot 141), MARBLE BAY FR. NO. 2 (Lot 157), LAP 7 FR. (Lot 529), LAP 8 FR. (Lot 530).

OWNER: LONGBAR MINERALS LTD., Box 129, Vananda.

DESCRIPTION: The drill hole intersected limestone and several andesite and serpentine dykes.

WORK DONE: Surface diamond drilling, one AQ hole totalling 84 metres on Marble Bay Fr. No. 2.

REFERENCE: Assessment Report 5517.

DOROTHY FR. (Fig. E-1, NTS 92, No. 24)

LOCATION: Lat. 49° 45' Long. 124° 36' (92F/15E)
NANAIMO M.D. Texada Island, 2 900 metres west of Vananda Post Office and 4 650 metres south of Grilse Point, at approximately 120 metres elevation.

CLAIM: DOROTHY FR.

OWNER: DOROTHY M. PASSCHIER, General Delivery, Blubber Bay.

DESCRIPTION: The hole did not reach bedrock.

WORK DONE: Diamond drilling, one 90-degree hole totalling 6.6 metres on Dorothy Fr.

REFERENCE: Assessment Report 5410.

BOLIVAR (Fig. E-1, NTS 92, No. 20)

LOCATION: Lat. 49° 46' Long. 124° 35' (92F/15E)
NANAIMO M.D. Texada Island, 1 kilometre west of the head of Sturt Bay.

CLAIMS: BOLIVAR, BAR, MARJORIE, EAGLE, IRISH, MAG, BIRCH, totalling approximately 40.

OWNER: LONGBAR MINERALS LTD., Box 129, Vananda.

METALS: Gold, silver.

WORK DONE: 1974 and 1975 — surface diamond drilling, 11 AQ holes totalling 466 metres on Bolivar 24 and 102; VLF EM and magnetometer surveys on Irish 2.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 183-188; Assessment Report 5645, 5693; MI 92F-364.

(92F/15E)

CRESCENT (Fig. E-1, NTS 92, No. 23)

LOCATION: Lat. 49° 46.5' Long. 124° 37' (92F/15E)
NANAIMO M.D. Texada Island, at Crescent Bay and eastward to the highway.
CLAIMS: CRESCENT 1 to 8, 11 to 19.
OWNERS: R. Samuelson and C. H. Christensen.
OPERATOR: LONGBAR MINERALS LTD., Box 129, Vananda.
WORK DONE: Electromagnetic and magnetic survey covering Crescent 1, 2, and 11-18; surface diamond drilling, two holes totalling 32 metres on Crescent 12.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 188, 189; Assessment Reports 5700, 5717.

LOYAL, PARIS, CANADA (Fig. E-1, NTS 92, No. 21)

LOCATION: Lat. 49° 47' Long. 124° 36' (92F/15E)
NANAIMO M.D. Texada Island, 1 kilometre southeast of Blubber Bay village.
CLAIMS: CORTEZ 1 to 16, ED 1 to 17, ED 1 Fraction.
OWNER: LONGBAR MINERALS LTD., Box 129, Vananda.
METAL: Copper.
DESCRIPTION: The drill hole intersected andesite and limestone which are mineralized with pyrite, chalcopyrite, and magnetite.
WORK DONE: Magnetometer and electromagnetic surveys covering Cortez 1-4, 11-14; surface diamond drilling, one AQ hole totalling 61 metres on Cortez 12.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 253; *Geol. Surv., Canada*, Mem. 58, pp. 65, 66; Assessment Reports 5516, 5763; MI 92F-265, 266, 267.

FLORENCE, ROYAL ARCH (Fig. E-1, NTS 92, No. 29)

LOCATION: Lat. 49° 57' Long. 124° 42' (92F/15E)
VANCOUVER M.D. Eight kilometres southeast of Lund, on the highway between Lund and Powell River.
CLAIMS: LUN, totalling approximately 20.
OWNER: JON A. STEWART, RR 1, Powell River.
METALS: Copper, zinc, silver.
DESCRIPTION: Siliceous skarn contains patches of chalcopyrite and sphalerite.
WORK DONE: Surface diamond drilling, one AQ hole totalling 16.5 metres on Lun 7.
REFERENCES: *B.C. Dept. of Mines and Pet. Res.*, GEM, 1974, p. 189; Assessment Report 5439; MI 92F/147, 148.

(92F/16W)

BRUCE (Fig. E-1, NTS 92, No. 30)

LOCATION: Lat. 49° 56' Long. 124° 18' (92F/16W)
VANCOUVER M.D. Sixteen kilometres northeast of Powell River, between Dodd and Horseshoe Lakes, at approximately 210 metres elevation.

CLAIMS: PAM 2, 11 to 16, 18, 21 to 24, 39 to 44, 46, 48, 55 to 60, 65 to 73, 75 to 78, and 80 Fraction.

OWNER: AQUITAINE COMPANY OF CANADA LTD., 540 Fifth Avenue SW., Calgary, Alta.

METALS: Copper, molybdenum.

DESCRIPTION: The area is underlain by diorite, quartz diorite, a series of granodiorites, and quartz monzonite emplaced in a complex intrusive sequence. Basic synplutonic dykes and later andesitic to basaltic dykes are found in outcrop. Silicification as a stockwork of veinlets and replacement of granodiorite is extensive. Pyrite is the most abundant sulphide mineral, occurring in amounts from 2 to 10 per cent with or without quartz. Chalcopyrite and minor molybdenum occur in areas of intense silicification.

WORK DONE: 1974 — induced polarization and resistivity survey, 50.4 line-kilometres covering 20 claims; surface geological mapping, 1:18 000 covering 10 claims; 1975 — surface diamond drilling, five holes totalling 691 metres on Pam 14, 16, 40, and 42.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1967, p. 59; *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 254 (TORO, MIKE, DOE); Assessment Reports 5587, 5588, 5589; MI 92F-289, 290.

LEWIS (Fig. E-1, NTS 92, No. 31)

LOCATION: Lat. 49° 57' Long. 124° 20' (92F/16W)
VANCOUVER M.D. Sixteen kilometres northeast of Powell River, between Lewis and Dodd Lakes, at approximately 600 metres elevation.

CLAIMS: LEWIS (20 units), CLARK (5 units), CANOE (5 units), COVE (12 units).

OWNER: HOME OIL COMPANY LIMITED, 709 Eighth Avenue SW., Calgary, Alta.

METALS: Copper, molybdenum.

DESCRIPTION: Chalcopyrite and minor molybdenite are associated with pyrite as disseminations replacing mafic minerals and as fracture fillings in quartz. The host rock is silicified quartz diorite. Mineralization is in part related to a granodiorite intrusion.

WORK DONE: Surface geological mapping; geochemical soil survey, approximately 1 000 samples, 21 line-kilometres, 120-metre grid spacing covering Lewis 1-16; trenching, 29 metres on Lewis 3, 4, 5, and 6.

REFERENCE: MI 92F-366.

VANCOUVER 92G

CUMO (Fig. E-1, NTS 92, No. 32)

LOCATION: Lat. 49° 31' Long. 122° 10.5' (92G/9E)
 NEW WESTMINSTER M.D. One kilometre east of Winslow Creek and
 8 kilometres north-northeast of the north end of Stave Lake, on the
 south side of Penstock Creek.

CLAIM: CUMO 2.

OWNER: LAKSHMI NARAIN & SONS, 201, 319 West Pender Street,
 Vancouver.

WORK DONE: 1974 — linecutting and contouring in area around Cumo 2.

REFERENCE: Assessment Report 5529.

BRITANNIA MINE

LOCATION: Lat. 49° 36' Long. 123° 20' (92G/11E)
 Report on this property in *Mining in British Columbia, 1975*.

HOWE COPPER (ZEL) (Fig. E-1, NTS 92, No. 33)

LOCATION: Lat. 49° 43' Long. 123° 27' (92G/11W)
 VANCOUVER M.D. Five kilometres east of the head of Salmon Inlet,
 on Mount Donaldson, at approximately 1 400 metres elevation.

CLAIMS: WEST 1 (units 1, 2, 15 to 18), WEST 2 (units 1 to 3, 14 to 16).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver
 V6E 3L6.

METALS: Copper, (molybdenum, silver).

DESCRIPTION: Biotite granite is intruded by a muscovite granite. Chalcopyrite occurs
 in quartz veins and in lenticular quartz muscovite masses.

WORK DONE: Surface geological mapping, 1:15 840, covering all claims.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 277; MI 92G/NW-5.

SUNDOWN (Fig. E-1, NTS 92, No. 34)

LOCATION: Lat. 49° 39' Long. 123° 58' (92G/12W)
 VANCOUVER M.D. Three kilometres northeast of the head of Pender
 Harbour and 3 kilometres southeast of Sakinaw Lake, on the east side
 of Highway 101.

CLAIMS: JON 35 and 36.

OWNER: K. Warren Geiger.

OPERATOR: LONGBAR MINERALS LTD., Box 129, Vananda.

METALS: Copper, molybdenum.

DESCRIPTION: Pyrite, pyrrhotite, chalcopyrite, and molybdenite occur in highly
 silicified granitic rocks within the Coast Plutonic Complex.

(92F/9E; 92G/12W)

WORK DONE: 1974 — soil sampling and total heavy metal testing of an area of approximately 400 metres square covering Jon 35 and 36.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 241; Assessment Report 5459; MI 92G/NW-65.

KING MIDAS (Fig. E-1, NTS 92, No. 28)

LOCATION: Lat. 49° 40' Long. 124° 00' (92F/9E; 92G/12W)
Report on this property in section 92F/9E.

ASH (Fig. E-1, NTS 92, No. 35)

LOCATION: Lat. 49° 57' Long. 123° 24.5' (92G/14W)
VANCOUVER M.D. At the confluence of Roaring and Ashlu Creeks, at approximately 360 metres elevation.
CLAIMS: ASH, CLARA 3 UN, totalling approximately 20.
OWNER: WALTER BABKIRK, 107 Woolridge Street, Coquitlam.
METALS: Copper, gold, silver.
DESCRIPTION: The drill hole intersected traces of sulphides in quartz veins.
WORK DONE: Surface diamond drilling, one hole totalling 18 metres; testing and milling carried out; 1 ton of concentrate recovered, on Ash claim.
REFERENCE: Assessment Report 5592.

PEMBERTON 92J

WARMAN

LOCATION: Lat. 50° 08' Long. 123° 06' (92J/3E)
Report on this property in *Mining in British Columbia*, 1975.

SIL (Fig. E-1, NTS 92, No. 48)

LOCATION: Lat. 50° 05.5' Long. 123° 04' (92J/3E)
VANCOUVER M.D. Six kilometres southwest of Alta Lake, 2 kilometres northwest of Cheakamus River, at approximately 1 050 metres elevation.
CLAIMS: SIL 13 to 16, 31, 32.
OWNERS: Highhawk Mines Limited and Sproatt Silver Mines Ltd.
OPERATOR: SPROATT SILVER MINES LTD., 333, 885 Dunsmuir Street, Vancouver.
METAL: Copper.
DESCRIPTION: The claims are underlain by schist and granite. Pyrite and chalcopyrite are reported to occur.
WORK DONE: Trenching, 18 metres on Sil 14 and 16.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 199; MI 92J/W-127.

(92J/3E)

SOO (Fig. E-1, NTS 92, No. 46)

LOCATION: Lat. 50° 13' Long. 123° 05' (92J/3E)
VANCOUVER M.D. Twelve kilometres northwest of Alta Lake, on an unnamed creek which flows northward from Rainbow Mountain to the Soo River.

CLAIMS: SOO 1 to 12, BOW 1 to 6.

OWNER: CHARLES BOITARD, 2245 West 13th Avenue, Vancouver.

WORK DONE: VLF EM survey; 25 soil samples analysed for zinc and silver covering Bow 1, 2 and Soo 1-8; surface diamond drilling, two IEX holes totalling 50 metres on Soo 4 and 6.

REFERENCES: Assessment Reports 5733, 5790.

BRALORNE MINE

LOCATION: Lat. 50° 46' Long. 122° 48' (92J/10W, 15W)
Report on this property in *Mining in British Columbia, 1975*.

SALAL (R, EE) (Fig. E-1, NTS 92, No. 49)

LOCATION: Lat. 50° 47' Long. 123° 23' (92J/14W)
LILLOOET M.D. Sixty-four kilometres northwest of Pemberton, on Salal Creek, a tributary of the Lillooet River, between 1 800 and 2 250 metres elevation.

CLAIMS: SALAL 1 (units 1 to 20), SALAL 2 (units 1 to 20), SALAL 3 (units 1 to 20), SALAL 4 (units 1 to 20), SALAL 5 (units 1 to 9), SALAL 6 (units 1 to 9), SALAL 7 (units 1 to 9).

OWNER: BP Exploration Canada Limited.

OPERATOR: BP MINERALS LIMITED, 405, 1199 West Pender Street, Vancouver.

METAL: Molybdenum.

DESCRIPTION: Molybdenite occurs principally as fracture fillings associated with quartz, pyrite, sericite, and minor chalcopyrite and fluorite. The host rock is a Late Tertiary, composite, quartz monzonite stock which is intrusive into Mesozoic sedimentary, volcanic, and granitic rocks of the Coast Plutonic Complex.

WORK DONE: Claims restaked; surface diamond drilling, two holes totalling 1 090 metres on Salal 4 (unit 1) and Salal 1 (units 1 and 2).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 301; MI 92J/W-70.

DAUNTLESS (Fig. E-1, NTS 92, No. 50)

LOCATION: Lat. 50° 54.5' Long. 122° 45' (92J/15)
LILLOOET M.D. Mowson Pond, north shore of Carpenter Lake, 9 kilometres northeast of Gold Bridge.

CLAIMS: AU 1 to 10, ALPHA EXTENSION, ALPHA EXTENSION 2 to 4.

OWNER: ASHCROFT RESOURCES LTD., 728, 510 West Hastings Street, Vancouver.

(92J/15W)

METALS: Gold, silver.

DESCRIPTION: Cherty argillites, quartzites, breccia, and greenstone of the Fergusson Group are transected by a vein, up to 6 metres in width, consisting of white quartz, some pyrite and pyrrhotite, with minor carbonate, and carrying values in gold and silver. The vein was explored in the 1930's by an old adit.

WORK DONE: Surface diamond drilling, three holes totalling 113.7 metres on AU 2.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1936, pp. F6-F9; *Geol. Surv., Canada*, Paper 43-15, p. 14; Assessment Report 5716; MI 92J/NE-112.

JC (Fig. E-1, NTS 92, No. 51)

LOCATION: Lat. 50° 47' Long. 122° 51' (92J/15W)
LILLOOET M.D. Three kilometres west of Bralorne townsite, straddling Hurley River, at approximately 1 060 metres elevation.

CLAIMS: JC 1 to 4.

OWNER: BRALORNE RESOURCES LIMITED, 2910 Bow Valley Square 2, 205 Fifth Avenue SW., Calgary, Alta.

DESCRIPTION: Sedimentary rocks of the Hurley Formation and Pioneer Formation are intruded by diorite of the Bralorne intrusion.

WORK DONE: Surface geological mapping, 1:2400, covering JC 1-4; road construction; trenching, 92 metres on JC 4.

GOLDEN (Fig. E-1, NTS 92, No. 52)

LOCATION: Lat. 50° 54' Long. 122° 46' (92J/15W)
LILLOOET M.D. North shore of Carpenter Lake, 500 metres north-east of Gun Creek bridge, at approximately 915 metres elevation.

CLAIMS: GOLDEN 1 to 3 Fractions, HELM (Lot 6328).

OWNER: EMPIRE METALS CORPORATION LTD., 5th Floor, 134 Abbott Street, Vancouver.

METALS: Gold, silver, antimony.

DESCRIPTION: Lenticular masses of stibnite and minor pyrite occur within a series of north-trending quartz veins. Steeply inclined volcanic and chert sedimentary rocks of the Fergusson Group host the known veins. Feldspar porphyry and several serpentinized ultrabasic dykes were noted to the west.

WORK DONE: Self-potential survey, 1.3 line-kilometres, 30-metre grid spacing covering part of Golden 1 and 2 Fractions.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 206; MI 92J/NE-118.

WAYSIDE (Fig. E-1, NTS 92, No. 53)

LOCATION: Lat. 50° 53' Long. 122° 50' (92J/15W)
LILLOOET M.D. Three kilometres north-northeast of Gold Bridge, at approximately 700 metres elevation.

(92J/15W)

CLAIMS: Mineral Lease M-57 comprising WAYSIDE (Lot 3036) and Mineral Lease M-48 comprising ARGON, RADIUM, HELIUM, QUEEN CITY FR. (Lots 3037 to 3040), RODEO (Lot 5471), COMMODORE FR., LODGE, ALPHA, BETA, GAMMA (Lots 5503 to 5507), CABINET, COUNSEL, NEWPORT, WAYSIDE B FR., CAMP DENISON, PORT FR., SUN (Lots 5509 to 5515), CITY NO. 1, SPRING A, SPRING FR., SPRING B, SPRING C, LODGE B, RODEO FR. (Lots 5912 to 5918), WAYSIDE NO. 2, LODGE NO. 2 FR. (Lots 6955, 6956).

OWNER: DAWSON RANGE MINES LTD., Box 466, Lillooet.

METAL: Gold.

DESCRIPTION: The Wayside property is underlain by cherts, argillites, greenstones, and tuffs of the Fergusson Group and by differentiated augite diorites of the Bralorne intrusive suite. The sedimentary and volcanic rocks are faulted, deformed, and moderately metamorphosed near the diorite, which has also been faulted. Faults in the diorite are filled by quartz-albite-carbonate veins which in places carry economic quantities of gold along with base metals.

WORK DONE: Surface diamond drilling, five holes totalling 204 metres on Wayside (Lot 3036); mucked out and replaced timbers in No. 5 adit.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 205, 206; MI 92J/NE-30.

PEERLESS (Fig. E-1, NTS 92, No. 54)

LOCATION: Lat. 50° 56' Long. 122° 47' (92J/15W)
LILLOOET M.D. Sixteen kilometres north of Bralorne, at the south end of Tyaughton Lake, at approximately 1 000 metres elevation.

CLAIMS: ZINC 1 to 4.

OWNER: THUNDER CREEK MINES LTD., Box 466, Lillooet.

METALS: Gold, silver, zinc.

DESCRIPTION: Fergusson Group andesite, argillite, and chert are cut by a fissure vein which contains lenses up to 0.6 metre wide of semi-massive and bunches and streaks of pyrite-sphalerite mineralization carrying gold values.

WORK DONE: Adit cleaned out with front-end loader; attempt made to locate the incline shaft (Zinc 1 and 3).

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1937, pp. F11, F12; *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 206; MI 92J/NE-115.

BUTE INLET 92K**OK, DEE, IN, MBM**

LOCATION: Lat. 49° 59' - 50° 04.5' Long. 124° 35' - 43' (92K/2E; 92F/15E)
 Report on this property in *Geology in British Columbia, 1975*.

GOLD, JAWBREAKER (Fig. E-1, NTS 92, No. 42)

LOCATION: Lat. 50° 10' Long. 125° 14' (92K/3E)
 NANAIMO M.D. Quadra Island, from Open Bay northward to Stramberg Lake.

CLAIMS: GOLD 1 to 40, JAWBREAKER 1 to 8.

OWNERS: Earl Bennett and Great Bear Mining Ltd.

OPERATOR: GREAT BEAR MINING LTD., 506, 675 West Hastings Street, Vancouver.

METALS: Gold, silver, copper, lead, zinc.

DESCRIPTION: Andesite of the Karmutsen Formation and limestone of the Quatsino Formation are intruded by granodiorite and diorite. Pyrite, chalcocite, pyrrhotite, and arsenopyrite with lesser amounts of chalcocite, bornite, galena, sphalerite, pentlandite, pyrolusite, and associated gold and silver occur in the andesite, disseminated or as vein deposits in skarn zones with quartz.

WORK DONE: Surface geological mapping covering all claims and detailed sampling of mineralized zones.

REFERENCES: *Minister of Mines, B.C., Ann. Rept., 1913, pp. 284-286; Geol. Surv., Canada, Summ. Rept., 1913, pp. 53-75; Assessment Report 5680.*

COPPER BELL, COPPER HILL (Fig. E-1, NTS 92, No. 43)

LOCATION: Lat. 50° 07' Long. 125° 16' (92K/3W)
 NANAIMO M.D. Four kilometres northwest of Heriot Bay village, north side of Gowland Harbour, Quadra Island, at approximately 120 metres elevation.

CLAIMS: COPPER BELL 1 to 6, COPPER HILL 1 and 2, COPPER CLIFF, EVELYN 1 to 3, COLLEEN 1 and 2, BEAVER DAM 1 and 2, BIT 1 and 2, GAMMA, DELTA Fraction, EPSILON Fraction, ZETA Fraction, KAPPA Fraction, CLIFF 1.

OWNERS: Quadra Mining Co. Ltd. and Quadra Bell Mining Co. Ltd.

OPERATOR: QUADRA BELL MINING CO. LTD., 1161 South Murphy Street, Campbell River V9W 1Z8.

METALS: Copper, (silver).

DESCRIPTION: Chalcocite and native copper occur in amygdaloidal basaltic lavas and dense, fine to medium-grained, heavily fractured volcanic rocks.

(92K/3W)

WORK DONE: Trenching, approximately 60 cubic metres on Bit 1 and Evelyn 1; trenching, approximately 30 metres and stripping, approximately 500 square metres on Copper Bell 1.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 207, 208; MI 92K-52, 58, 71 to 74, 103, 118, 119.

COPPER ROAD (Fig. E-1, NTS 92, No. 44)

LOCATION: Lat. 50° 12' Long. 125° 18' (92K/3W)
NANAIMO M.D. Quadra Island, 2.5 kilometres northeast of Deepwater Bay, at approximately 366 metres elevation.

CLAIMS: COPPER ROAD 1 and 2, COPPER ROAD 103 and 104, CR 5 to 8, VIN 1 Fraction, RIB 16 Fraction.

OWNERS: Eugene, Helen, and Antoinette Adams.

OPERATOR: UNIVEX MINING CORP. LTD., 28, 425 Howe Street, Vancouver.

METALS: Copper, (silver, gold).

DESCRIPTION: Chalcopyrite, bornite, and chalcocite occur in a shear zone in andesites and basalts of the Karmutsen volcanic rocks. Locally the volcanic rocks are amygdaloidal, brecciated, and chloritized, the amygdules being filled with quartz-carbonate.

WORK DONE: Trenching, 11 metres and stripping, 88 square metres on Copper Road 2.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 208; MI 92K-60.

HOPE (DAWN) (Fig. E-1, NTS 92, No. 45)

LOCATION: Lat. 50° 25' Long. 125° 20' (92K/6W)
VANCOUVER M.D. Northeast side of East Thurlow Island, at Thurlow Point, at approximately 150 metres elevation.

CLAIMS: SIG 1 to 4, 9 to 12, 30 (formerly SIG 1 to 31).

OWNER: Ronald H. D. Philp.

OPERATOR: GRANDORA EXPLORATIONS LTD., 107, 325 Howe Street, Vancouver V6C 1Z7.

METALS: Silver, copper, gold.

DESCRIPTION: The western portion of the property is underlain by coarse-grained hornblende quartz diorite. East of the quartz diorite is a medium-grained diorite which contains traces of pyrrhotite. A fine-grained black, metasedimentary rock containing numerous quartz veinlets outcrops on the northeast portion of the claims. Quartz veins, some containing chalcopyrite and pyrite, cut all rock types. Two gold-bearing veins occur in quartz diorite and have been investigated by an old adit on Sig 10 and 12 and by trenches.

WORK DONE: 1974 — surface geological mapping, 1:4800; 22.6 line-kilometres of grid; geochemical soil survey, 620 samples covering Sig 1-15, 17, 21-31; 1975 — surface geological mapping, 1:1200, covering Sig 1-4 and 9-12.

(92L/2W)

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1919, p. 215; 1927, p. 353; 1928, p. 381; 1929, p. 388; 1930, p. 305; 1933, p. 256; 1936, p. F20; *B.C. Dept. of Mines & Pet. Res.*, Bull. No. 1, p. 40; *Geol. Surv., Canada*, Mem. 23; Assessment Report 5367; MI 92K-18.

ALERT BAY 92L

YAUCO (Fig. E-1, NTS 92, No. 36)

LOCATION: Lat. 50° 03' Long. 126° 47' (92L/2W)
ALBERNI M.D. On the north side of the confluence of Zeballos River and Nomash Creek.

CLAIMS: YAUCO 2 and 4, YAUCO Fraction, GOLD ROCK 1 and 3, GOLD ROCK Fraction, BIG BEN Fraction.

OWNERS: G. O'Brien and Diana Explorations Ltd.

OPERATOR: DIANA EXPLORATIONS LTD., 3rd Floor, 555 Howe Street, Vancouver.

DESCRIPTION: The western part of the claim area is underlain by Karmutsen Formation volcanic rocks and the eastern, by Quatsino Formation limestone.

WORK DONE: Magnetometer survey and 5.2 line-kilometres of VLF EM survey covering all claims.

REFERENCES: Assessment Reports 5377; 5765.

IRON COP (LOIS) (Fig. E-1, NTS 92, No. 38)

LOCATION: Lat. 50° 16' Long. 127° 37' (92L/5E)
NANAIMO and ALBERNI M.D. Eight kilometres east of the head of Klaskish Basin, between 450 and 900 metres elevation.

CLAIMS: LOIS 1 to 36.

OWNER: Vanco Explorations Limited.

OPERATORS: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver and VANCO EXPLORATIONS LIMITED, Box 221, Commerce Court Postal Station, Toronto, Ontario.

METALS: Copper, molybdenum, iron, cobalt.

DESCRIPTION: Pyrite, chalcopyrite, and molybdenite, with peripheral magnetite, occur in a quartz diorite stock which is cut by intrusive breccias with accompanying clay and biotite alteration. The stock intrudes a thick sequence of basic volcanic rocks.

WORK DONE: Surface geological mapping, 1:2400, covering Lois 7, 9-17, 24-34; induced polarization survey, approximately 4.5 line-kilometres and

(92L/5E)

magnetometer survey, approximately 6 line-kilometres covering Lois 27-32; geochemical survey, 240 soil samples and 70 rock chip samples, 16 line-kilometres, 120 by 30-metre grid spacing covering Lois 9-13, 27-32; 6 line-kilometres of grid on Lois 27-32.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 317; MI 92L-228.

STAR, WHITE QUARTZ, RED ROCK (Fig. E-1, NTS 92, No. 37)

LOCATION: Lat. 50° 23' Long. 127° 31' (92L/5E)
NANAIMO M.D. Along Teeta Creek from Neroutsos Inlet 5 kilometres southwestward, at approximately 60 metres elevation.

CLAIMS: STAR 1, 3, 5, 7 to 15, 17, 21 to 32, STAR 1 to 4 Fractions, BOY 1 and 2, MOON 1 to 10, SUN (9 units).

OWNERS: J. R. Billingsley and Cities Service Minerals Corporation.

OPERATOR: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: The claims are underlain by quartz diorite, diorite porphyries, tuff, and andesites. Mineralization comprises pyrite, pyrrhotite, chalcopyrite, and molybdenite.

WORK DONE: Surface diamond drilling, five holes totalling approximately 1 247 metres on Star 9, 24, and 26.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1903, p. 200; 1904, p. 245; 1905, p. 213; 1906, p. 200; 1968, p. 99; *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 206; *Geol. Surv., Canada*, Summ. Rept., 1929, Pt. A, p. 133; Assessment Report 5567; MI 92L-235, 92, 103.

I, STAN, PORT, HB

LOCATION: Lat. 50° 30' Long. 126° 06' (92L/8E, 9E)
Report on this property in *Geology in British Columbia, 1975*.

ISLAND COPPER MINE

LOCATION: Lat. 50° 36' Long. 127° 28.3' (92L/11W, 12E)
Report on this property in *Mining in British Columbia, 1975*.

MO (Fig. E-1, NTS 92, No. 39)

LOCATION: Lat. 50° 43' Long. 127° 55' (92L/12W)
NANAIMO M.D. Three and one-half kilometres west of the west end of Nahwitti Lake, at approximately 600 metres elevation.

CLAIMS: MO 1 to 4, MON 1 to 4, TI 2, 4, 6, 8, 29 to 34, 48 to 53, BUD 1.

OWNER: ACHERON MINES LTD., 101, 325 Howe Street, Vancouver V6C 1Z7.

METALS: Zinc, (copper, lead, silver).

(92L/12W; 102I/9E)

DESCRIPTION: Sphalerite and minor galena, chalcopryrite, and silver occur in a skarn zone of Upper Triassic Quatsino Formation. The mineralized skarn zone is underlain by members of the Vancouver Group which are intruded by Jurassic to Tertiary quartz diorite.

WORK DONE: 1974 — trenching, approximately 170 cubic metres on Mo 1, 2, and 3; 1975 — surface geological mapping, 1:1200, covering Mo 1-4; trenching, 24.1 cubic metres on Ti 29-34, 50-53, Mon 1-4, Mo 1-4.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 261, 262; Assessment Report 5758; MI 92L-181.

PUP (Fig. E-1, NTS 92, No. 40)

LOCATION: Lat. 50° 44' Long. 128° 00' (92L/12W; 102I/9E)
NANAIMO M.D. Eight kilometres north of Holberg.

CLAIMS: PUP 25 to 34, 36, 38, 65 to 69, 71, 73, 75, 85, PUP 1 and 2 Fractions.

OWNERS: J. P. Stevenson and Cities Service Minerals Corporation.

OPERATOR: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.

WORK DONE: 1974 — 6.7 line-kilometres of grid; 5.9 line-kilometres of frequency-domain induced polarization survey covering Pup 31, 32, 34, 67-69, and 1 Fraction.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 262; Assessment Report 5383.

MOUNT WADDINGTON 92N

DUCHARNE (COPPER QUEEN) (Fig. E-1, NTS 92, No. 58)

LOCATION: Lat. 51° 11' Long. 124° 13' (92N/1E)
CLINTON M.D. Three kilometres southwest of Franklin Arm, on the south side of Deschamps Creek.

CLAIMS: DAISIE 1 to 8.

OWNER: Thomas J. Gordon.

OPERATOR: L. DONOVAN, 3349 East 6th Avenue, Vancouver V5M 1S8 and GORDON RESOURCES LIMITED, 201, 535 Thurlow Street, Vancouver.

METALS: Copper, molybdenum, zinc, tungsten, silver.

DESCRIPTION: A small granitic plug straddles the lower part of Deschamps Creek. Southward from this plug chalcopryrite, pyrrhotite, and molybdenite are associated with skarn in argillaceous limestone.

WORK DONE: 1974 — trail clearing and prospecting, covering Daisie 1-4, 7, 8; 1975 — prospecting and sampling, covering Daisie 1, 4, 8.

REFERENCES: *Geol. Surv., Canada*, Summ. Rept., 1924, Pt. A, p. 69; Assessment Reports 3271, 5357, 5712; MI 92N-26.

(92N/10W)

K (Fig. E-1, NTS 92, No. 59)

LOCATION: Lat. $51^{\circ} 43'$ Long. $124^{\circ} 54'$ (92N/10W)
CLINTON M.D. Five kilometres north-northwest of the north end of Middle Lake, at approximately 1 650 metres elevation.

CLAIMS: K 1 to 30.

OWNER: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.

METAL: Copper.

DESCRIPTION: A strongly altered zone containing magnetite, pyrite, chalcopyrite, and secondary biotite occurs within a quartz feldspar granodiorite porphyry cutting andesitic and basaltic agglomerates and tuffs.

WORK DONE: 1974 — surface geological mapping, 1:4800 and geochemical survey, 195 rock, talus, soil, and stream samples covering all claims.

REFERENCES: Assessment Report 5498; MI 92N-41.

PW (Fig. E-1, NTS 92, No. 63)

LOCATION: Lat. $51^{\circ} 36'$ Long. $125^{\circ} 03'$ (92N/11E)
CLINTON M.D. Four kilometres northwest of the south end of Twist Lake, at approximately 1 800 metres elevation.

CLAIMS: PW 1 to 6.

OWNER: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.

METAL: Molybdenum.

DESCRIPTION: Molybdenite occurs as fracture filling sheets and as hairline fractures in biotite feldspar granite porphyry and biotite granite phases of the Coast Plutonic Complex at the intersection of two major fault systems.

WORK DONE: 1974 — surface geological mapping, 1:6000 and geochemical survey, 138 rock and soil samples covering all claims.

REFERENCES: Assessment Report 5494; MI 92N-42.

A&E (Fig. E-1, NTS 92, No. 64)

LOCATION: Lat. $51^{\circ} 37'$ Long. $125^{\circ} 05'$ (92N/11E)
CLINTON M.D. Six kilometres northwest of Twist Lake, at the head of Sand Creek.

CLAIMS: A&E 5 to 12, 23, 25 to 30, 44 to 48.

OWNER: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.

METAL: Copper.

DESCRIPTION: The area is underlain by coarse-grained porphyritic biotite granite cut by monzonite, andesite, and aplite dykes. Chalcopyrite occurs locally along fractures.

(92N/14E, 15W)

WORK DONE: 1974 — surface geological mapping, 1:4800 and geochemical survey, 239 rock, talus, and soil samples collected and tested for copper, molybdenum, zinc, and silver, covering A&E 5-10, 25-30, 46, 48.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 263, 264; Assessment Report 5501, MI 92N-32.

PIN (Fig. E-1, NTS 92, No. 60)

LOCATION: Lat. 51° 48' Long. 125° 03' (92N/14E, 15W)
CARIBOO M.D. Four kilometres east of Perkins Peak, on Chrome Creek, at approximately 1 500 metres elevation.

CLAIMS: PIN 3 to 8, 21 to 28, 43 to 46, 48, 50 to 53, 65 to 68, 75 to 77.

OWNER: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.

DESCRIPTION: The property is underlain by andesite, maroon agglomerates, tuffs, and rhyolite-dacite. Alteration occurs along a prominent shear cutting across the southern portion of the property. Chalcopyrite, chalcocite, bornite, and considerable malachite staining is noted in float scattered throughout the property.

WORK DONE: 1974 — approximately 9 line-kilometres of control grid and 7 line-kilometres of induced polarization/resistivity (6 lines covering Pin 3, 5, 7, 23-28, 43-48).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 264; Assessment Report 5522.

MOUNTAIN BOSS (MOUNTAIN KING) (Fig. E-1, NTS 92, No. 61)

LOCATION: Lat. 51° 48' Long. 125° 05' (92N/14E)
CARIBOO M.D. Twenty-three kilometres southwest of Kleena Kleene, on Perkins Peak, at approximately 2 000 metres elevation.

CLAIMS: APEX 1 to 54.

OWNER: KLEENA KLEENE GOLD MINES LTD., 105 West Sixth Avenue, Vancouver V5Y 1K3.

METALS: Gold, silver, copper.

WORK DONE: Surface diamond drilling, three holes totalling 100 metres on Apex 4; road construction, 1 kilometre (south of Apex 3 and 5); trenching, 600 metres on Apex 3 and 5.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 220; Assessment Report 5773; MI 92N-10.

ORWILL (Fig. E-1, NTS 92, No. 62)

LOCATION: Lat. 51° 57' Long. 125° 12' (92N/14E)
CARIBOO M.D. Twenty-four kilometres west of Kleena Kleene, 3 kilometres northwest of Klinaklini River, at approximately 900 metres elevation.

(92O/1E)

CLAIMS: GOLDBUG (units 1 to 20).
OWNER: ASARCO INCORPORATED, 504, 535 Thurlow Street, Vancouver.
METALS: Gold, copper.
DESCRIPTION: Gold is contained in discontinuous lenses and stringers of quartz and arsenopyrite. A few chalcopyrite and pyrite veinlets are also present. The mineralization occurs in the border phase of a granodiorite intrusion, near the contact with pyritic hornfelsed volcanic rocks.
WORK DONE: Topography mapped; surface workings surveyed (two subareas, 1:787 and 1:1969); surface geological mapping, 1:5000, covering Goldbug (units 1-20); geochemical survey, 327 soil and silt samples, 18.7 line-kilometres, 100-metre grid spacing, covering Goldbug (units 1-20).
REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1973, p. 265; MI 92N-33.

TASEKO LAKES 92O

ASTONISHER, CHISHOLM (Fig. E-1, NTS 92, No. 56)

LOCATION: Lat. 51° 08' Long. 122° 14' (92O/1E)
CLINTON M.D. At the headwaters of Stirrup Creek which flows south into Watson Bar Creek, at approximately 2 000 metres elevation.
CLAIMS: ASTONISHER (Lot 7979), AJAX (Lot 7982), MONITOR (Lot 7980), MONTY (Lot 7983), CHEVALIER (Lot 7981), SUN FR. (Lot 8199), W 1 to 18, LAST CHANCE.
OWNER: H. V. Warren.
OPERATOR: CHEVRON STANDARD LIMITED, 901, 355 Burrard Street, Vancouver V6C 2G8.
METALS: Gold, antimony, mercury.
DESCRIPTION: Tuffaceous greywacke, argillite, and sandstone are intruded by an altered quartz feldspar porphyry. Mineralization consists of pyrite, arsenopyrite, stibnite, and realgar.
WORK DONE: Surface diamond drilling, two holes totalling 200 metres on W 2 and W 3.
REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1973, p. 265; MI 92O-54, 56.

ROBSON, LUCKY JEM (Fig. E-1, NTS 92, No. 55)

LOCATION: Lat. 51° 01' Long. 122° 53' (92O/2W; 92J/15W)
LILLOOET M.D. Seventeen kilometres north of Goldbridge, at the head of Bonanza and Eldorado Creeks, on the west slopes of Eldorado Mountain, at approximately 2 500 metres elevation.
CLAIMS: NEA FR. (Lot 6773), OX, HI GRADE FR., JG FR., K 4, K 5 (Lots 7431 to 7435), WG FR., ANN NO. 1, ANN (Lots 7578, 7579, 7580), A 2 to A 8 (Lots 7582 to 7588), TAX FR. (Lot 7589), B 1 to B 8 (Lots 7591 to 7598), WG, VISTA, K 2 (Lots 7599, 7600, 7601), JG 2 to JG 7 (Lots 7602 to 7607), K 6 (Lot 7608), BOB 3 to 6 (Lots 8046 to

(92O/3W)

8049), TROLL 1 to 5 Fractions, TROLL (8 units), GOLLUM (10 units), GOLDEN GHOSTS (20 units).

OWNER: Standard Oil Company of British Columbia Limited.

OPERATOR: CHEVRON STANDARD LIMITED, 901, 355 Burrard Street, Vancouver V6C 2G8.

METALS: Gold, silver, zinc.

DESCRIPTION: The claims are underlain mainly by Hurley Formation and Bridge River Group sedimentary rocks which are locally intruded by Late Cretaceous or Early Tertiary quartz diorite. The claims cover old showings which have variously been referred to as Robson, Bonanza, Lucky Jem, White and Bell's, and Eldorado. Gold and silver, with arsenopyrite, pyrite, and sphalerite, occur in veins in shear zones.

WORK DONE: Surface geological mapping, 1:13 000 and geochemical soil survey, 412 samples, 24 line-kilometres, 330 by 66-metre grid spacing covering entire grid.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1913, p. 269; 1924, p. 142; 1931, p. 113; 1933, p. 268; 1940, p. 59; 1967, p. 129; 1968, p. 161; *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 185; *Geol. Surv., Canada*, 1912; *Geol. Surv., Canada*, Mem. 130, p. 99; *Geol. Surv., Canada*, Paper 43-15, p. 23; MI 92O-26 and 92J/NE-32.,

TASEKO (Fig. E-1, NTS 92, No. 57)

LOCATION: Lat. 51° 06' Long. 123° 22' (92O/3W)
CLINTON M.D. Twelve kilometres southeast of the south end of Upper Taseko Lake, in the vicinity of the junction of Granite and Amazon Creeks, and Taseko River.

CLAIMS: TASEKO 1 to 87, SUZANNE, MARIANNE, RENA, RANDA, MONIQUE, CHRIS, SPOKANE BLUE SKY 1, SPOKANE ROSY DAWN 2, SPOKANE BONANZA 3, SPOKANE LOOKOUT 4, BABBLING BROOK 1, PERFECT DAY 2, OLD AND RARE 3, FLAPJACK 1, FLAPJACK 2, Mineral Lease M-25 comprising AMAZON (Lot 5454), Mineral Lease M-26 comprising LIMONITE 1, 2, and 3 (Lots 3132, 3133, 3134).

OWNERS: Aberdeen Minerals Limited and Scurry Rainbow Oil Limited.

OPERATOR: QUINTANA MINERALS CORPORATION, 1215, Two Bentall Centre, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: The claims cover several old showings variously referred to as Taseko, Motherlode, Mohawk, Spokane, Limonite, Phair, Empress, Bur, KH, Buzzer, and Top.

WORK DONE: Surface geological mapping; percussion drilling, 39 holes totalling 1 350 metres.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, pp. 213, 214; MI 92O-1, 2, 4, 10, 29, 33, 37, 38, 39.

BONAPARTE RIVER 92P**EL KEED (Fig. E-1, NTS 92, No. 65)**

LOCATION: Lat. 51° 29.5' Long. 120° 31' (92P/7E)
 KAMLOOPS M.D. The legal corner post is located 3.6 kilometres north of Highway 24 at the east end of Lac des Roches, at approximately 1 400 metres elevation.

CLAIMS: EL KEED (units 1 to 6).

OWNER: DU PONT OF CANADA EXPLORATION LTD., 102, 1550 Alberni Street, Vancouver V6G 1A5.

METAL: Copper.

DESCRIPTION: Sparse chalcopyrite with pyrite occur in probable Nicola Group metavolcanic rocks and tuffs at the altered contact with the Thuya batholith.

WORK DONE: Surface geological mapping, 1:4000, and geochemical survey, 34 samples, 8 line-kilometres, 200 by 200-metre grid spacing covering El Keed (units 1, 2, 5, and 6).

LV (Fig. E-1, NTS 92, No. 67)

LOCATION: Lat. 51° 30' Long. 120° 21' (92P/8W, 9W)
 KAMLOOPS M.D. Fifteen kilometres northwest of Little Fort, at Latremouille and Laurel Lakes, at approximately 1 260 metres elevation.

CLAIMS: LV 27 to 72, ADD 1 to 27.

OWNER: J. M. McAndrew.

OPERATOR: RIO TINTO CANADIAN EXPLORATION LIMITED, 615, Two Bentall Centre, Vancouver.

DESCRIPTION: Nicola Group volcanic rocks are intruded by pyroxenite, gabbro, and diorite at the margin of the Thuya batholith.

WORK DONE: Induced polarization survey, 3.24 line-kilometres, 120-metre grid spacing covering LV 27 and 28; percussion drilling, two holes totalling 135 metres on LV 28; road construction, 0.3 kilometre on LV 28 (between logging road and drill sites).

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, pp. 224, 225; Assessment Reports 5424, 5425, 5734.

FFIN (Fig. E-1, NTS 92, No. 66)

LOCATION: Lat. 51° 25' Long. 120° 05' (92P/8E)
 KAMLOOPS M.D. North and south of Dunn Creek, 3 kilometres east of Dunn Lake, at approximately 1 350 metres elevation.

CLAIMS: FFIN 2, 4, 6, 8, 21 to 26, 28, 30, 46, 48, 50.

OWNER: Richard A. Rabbitt.

OPERATOR: DANIEL L. RABBITT, RR 4, Trans Canada Highway 1E, Salmon Arm.

(92P/9E)

METALS: Gold, silver, zinc, copper, nickel.
WORK DONE: Road construction, 7 kilometres on Ffin 23 and 24; stripping, 52 square metres on Ffin 23.

SONJA (Fig. E-1, NTS 92, No. 68)

LOCATION: Lat. 51° 38' Long. 120° 01' (92P/9E)
KAMLOOPS M.D. One kilometre east of Clearwater Station, on the south side of the North Thompson River, at approximately 1 200 metres elevation.
CLAIMS: SONJA 2, 3, 7, and 8.
OWNERS: ROBERT J. FRANKS (Sonja 2, 7, 8) and RAFT RIVER HUNTING GUIDES COMPANY, LTD (Sonja 3), Box 70, Vavenby.
METALS: Gold, silver, lead, copper, zinc.
DESCRIPTION: A 10 to 40-metre-wide dyke cuts black phyllite, shale, and limestone which overlie greenstone. Quartz veins occur along the east side of the dyke.
WORK DONE: Forty metres of trenching and 75 square metres of stripping on Sonja 2 and 3.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 224; MI 92P-49.

SO (Fig. E-1, NTS 92, No. 69)

LOCATION: Lat. 51° 37' Long. 120° 30' (92P/9W, 10E)
KAMLOOPS M.D. Seventeen kilometres northeast of Bridge Lake, at approximately 1 500 metres elevation.
CLAIMS: BOG, FRI, AL, totalling 116.
OWNER: G. Rayner.
OPERATOR: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.
METALS: Copper, lead.
DESCRIPTION: Pyrite, minor chalcopryrite, galena, and marcasite occur in a complex of volcanic rocks, monzonites, and syenites.
WORK DONE: 1974 — induced polarization survey, 53.4 line-kilometres, 240-metre grid spacing covering Bog and Fri claims; 1975 — surface geological mapping, 1:2400, covering Bog 5-8; percussion drilling 15 holes totalling 664.8 metres on Bog 6, 8, 15, 25, 38, 39, 40.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 226; Assessment Reports 5481, 5603; MI 92P-7.

SPOOK (Fig. E-1, NTS 92, No. 70)

LOCATION: Lat. 51° 54' Long. 121° 01' (92P/14E)
CLINTON M.D. Three and one-fifth kilometres south of the east end of Lang Lake, at approximately 870 metres elevation.
CLAIMS: SPOOK 9 to 26.

(92P/14E)

OWNER: EXPLORAM MINERALS LTD., 1004, 510 West Hastings Street,
Vancouver V6B 1L8.
DESCRIPTION: The property is underlain by altered granites which contain some
quartz veining and local rust zones.
WORK DONE: Induced polarization survey, 7.2 line-kilometres, and magnetometer
survey, 16 line-kilometres, 120-metre grid spacing, covering Spook
11-20.
REFERENCE: Assessment Report 5605.

ERK (Fig. E-1, NTS 92, No. 71)

LOCATION: Lat. 51° 57' Long. 121° 11' (92P/14E)
CLINTON M.D. On Bradley Creek, 6.4 kilometres north of
Bedingfield Lake, at approximately 870 metres elevation.
CLAIMS: ERK 1 to 48.
OWNER: EXPLORAM MINERALS LTD., 1004, 510 West Hastings Street,
Vancouver V6B 1L8.
WORK DONE: Induced polarization survey, 14.4 line-kilometres, and magnetometer
survey, 16.8 line-kilometres, 120-metre grid spacing, covering Erk 5, 7,
9, 11, 21-28, 38, 40, 42, 44.
REFERENCE: Assessment Report 5530.

WELL (Fig. E-1, NTS 92, No. 72)

LOCATION: Lat. 51° 54' Long. 120° 44' (92P/15E)
CLINTON M.D. Eleven kilometres east-northeast of Eagle Creek
village, between Christmas Lake, Welber Creek, and Canim Lake, at
approximately 1 200 metres elevation.
CLAIMS: WELL 1 (units 1 to 6).
OWNER: DU PONT OF CANADA EXPLORATION LTD., 102, 1550 Alberni
Street, Vancouver V6G 1A5.
METALS: (Copper, gold).
DESCRIPTION: A small syenite and syenodiorite stock intrudes synvolcanic tuffs,
agglomerates, and flows of alkali andesite and basalt. Minor chal-
copyrite, carrying very weak gold values, occurs in altered agglomerates
and tuffs.
WORK DONE: Surface geological mapping, 1:4000, covering Well (units 2-5); geo-
chemical survey, 53 soil and rock samples, 13 line-kilometres, 100 by
100-metre grid spacing covering same claims.
REFERENCE: MI 92P-138.

CAPE SCOTT 102I

PUP (Fig. E-1, NTS 92, No. 40)

LOCATION: Lat. 50° 44' Long. 128° 00' (92L/12W; 102I/9E)
 Report on this property in section 92L/12W.

ELK (Fig. E-1, NTS 92, No. 41)

LOCATION: Lat. 50° 46' Long. 128° 03' (102I/16E)
 NANAIMO M.D. Thirteen kilometres north-northwest of Holberg, surrounding Knob Hill, at approximately 500 metres elevation.

CLAIMS: ELK 3 to 90, 95 to 104, 117 to 136, 341 to 400.

OWNER: Standard Oil Company of British Columbia Limited.

OPERATOR: CHEVRON STANDARD LIMITED, 901, 355 Burrard Street, Vancouver V6C 2G8.

METALS: (Copper, molybdenum, zinc).

DESCRIPTION: Bonanza volcanic rocks lie near a contact with a batholith of the Island Intrusions. On the property there are scattered indications of disseminated chalcopyrite and sphalerite.

WORK DONE: Total field magnetics, 88 line-kilometres, 240 and 120 by 60-metre grid spacing, covering Elk 3-10, 25-34, 36, 49-62, 73-78, 96, 98, 117-134, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 365-380, 399, 400; induced polarization survey, 13 line-kilometres, 240 by 120-metre grid spacing, covering Elk 5-8, 29-32, 53, 55, 76; electromagnetic survey, 34 line-kilometres, 240 and 120 by 60-metre grid spacing, covering Elk 3-10, 31-36, 75-78, 98, 100; geochemical work (overburden drilling), 240 samples, 29 line-kilometres, 240 and 120 by 120-metre grid spacing covering Elk 5-8, 23-26, 29-36, 57, 73, 75, 96, 98.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 230.

EAST CENTRAL BRITISH COLUMBIA
(NTS Division 93)

QUESNEL LAKE 93A

BOSS MOUNTAIN MINE

LOCATION: Lat. 52° 06' Long. 120° 54' (93A/2W)
Report on this property in *Mining in British Columbia, 1975*.

TAK (Fig. E-1, NTS 93, No. 1)

LOCATION: Lat. 52° 08' Long. 121° 15' (93A/3)
CARIBOO M.D. Twenty-one kilometres west-northwest of Big Timothy Mountain, north of Moffat Creek, between 1 200 and 1 400 metres elevation.

CLAIMS: TAK 1 to 134.

OPERATOR: LONG LAC MINERAL EXPLORATION LIMITED, 1680, 1050 West Pender Street, Vancouver.

WORK DONE: Surface diamond drilling, three holes totalling 540 metres.

AL (Fig. E-1, NTS 93, No. 2)

LOCATION: Lat. 52° 28' Long. 121° 20' (93A/6W)
CARIBOO M.D. Eight kilometres northeast of Horsefly, at approximately 900 metres elevation.

CLAIMS: AL 1 to 28, 41 to 58, 65, 66, 77, 78, 91 to 94, AL 115 Fraction, AL 117 (8 units), AL 118 (2 units), AL 119 (3 units).

OWNERS: DOME EXPLORATION (CANADA) LIMITED, 600, 365 Bay Street, Toronto, Ontario M5H 2V4 and NEWCONEX CANADIAN EXPLORATION LTD., Box 40, Toronto-Dominion Centre, Toronto, Ontario M5K 1B7.

METALS: Gold, copper.

DESCRIPTION: An augite diorite stock with syenite and monzonite phases intrudes intensely feldspathized Upper Triassic volcanic rocks. Low gold values are present in monzonite cut by a stockwork of gypsum-anhydrite veinlets. The monzonite is enclosed in altered volcanic rocks and by altered diorite and syenite containing weak pyrite, chalcopyrite, and bornite mineralization.

WORK DONE: Surface diamond drilling, two NQ holes totalling 300 metres on AL 8 and 19; percussion drilling, 11 holes totalling 945 metres on AL 8, 10, 18, and 19.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 238; Assessment Report 5533; MI 93A-77.

(93A/6W)

HS (Fig. E-1, NTS 93, No. 3)

LOCATION: Lat. 52° 15' Long. 121° 25' (93A/6W)
CARIBOO M.D. Approximately 9.5 kilometres southeast of Horsefly,
at approximately 870 metres elevation.

CLAIMS: HS 1 to 57, 59 to 62.

OWNER: EXPLORAM MINERALS LTD., 1004, 510 West Hastings Street,
Vancouver V6B 1L8.

METAL: Copper.

DESCRIPTION: Sparse chalcopyrite mineralization occurring as disseminations and
fracture filling in quartz monzonite was observed at one locality.

WORK DONE: Geochemical soil survey, 349 samples, 20.8 line-kilometres, 120-metre
grid spacing covering HS 2, 4-6, 8-11, 13, and 29.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 236; Assessment
Reports 5548, 5731; MI 93A-78.

PATE (Fig. E-1, NTS 93, No. 5)

LOCATION: Lat. 52° 18' Long. 121° 10' (93A/6E)
CARIBOO M.D. On the north side of the road 16 kilometres east of
Horsefly, centred on Patenaude Lake, between 800 and 900 metres
elevation.

CLAIMS: PATE 1 (units 1 to 12), PATE 2 (units 1 to 20), PATE 3 (units 1 to 6),
PATE 4 (units 1 to 16).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550
Alberni Street, Vancouver V6G 1A5.

WORK DONE: Surface geological mapping, 1:15 000, and geochemical survey,
approximately 100 stream gravel, silt, soil, and rock samples, covering
all claims.

BLUE LEAD (Fig. E-1, NTS 93, No. 6)

LOCATION: Lat. 52° 40' Long. 120° 20' (93A/9W)
CARIBOO M.D. Eight kilometres north of the east end of Quesnel
Lake, near the headwaters of Blue Lead Creek.

CLAIMS: BLUE LEAD 1 to 12, BARON 1 to 3.

OWNER: HOWARD J. LOWRY, Box 40, Horsefly.

METAL: Lead.

DESCRIPTION: Galena occurs in quartz stringers.

WORK DONE: Surface drilling, five packsack drill holes totalling approximately 98
metres on Baron 2 and Blue Lead 3, 4, 5.

REFERENCES: Assessment Report 5537; MI 93A-120.

(93A/12W)

MAUD (Fig. E-1, NTS 93, No. 7)

LOCATION: Lat. 52° 44' Long. 121° 55' (93A/12W)
CARIBOO M.D. Nineteen kilometres northwest of Quesnel Forks, on the west side of Maud Lake, at approximately 1 200 metres elevation.

CLAIMS: MAUD 1 to 58.

OWNERS: DOME EXPLORATION (CANADA) LIMITED, 600, 365 Bay Street, Toronto, Ontario M5H 2V4 and NEWCONEX CANADIAN EXPLORATION LTD., Box 40, Toronto-Dominion Centre, Toronto, Ontario M5K 1B7.

METAL: Copper.

DESCRIPTION: Weakly disseminated chalcopyrite occurs in pyrite-rich volcanic breccias.

WORK DONE: Surface geological mapping, 1:6000, covering Maud 1-58; electromagnetic survey, 19 line-kilometres, 166-metre grid spacing, covering Maud 1-21, 23, 25, 27, 29, 31, 37, 39, 41; magnetometer survey, 40 line-kilometres, 166-metre grid spacing, covering Maud 1-58; road construction, 5 kilometres on Maud 1, 3, 4, 13, 15, 16, 18, 27, 29, 30, 32 (between Twenty Mile Pass and Maud Lake); trenching, 300 metres on Maud 3, 4, and 18.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 240; MI 93A-119.

ML (Fig. E-1, NTS 93, No. 8)

LOCATION: Lat. 52° 35' Long. 121° 47' (93A/12W)
CARIBOO M.D. Fifteen kilometres west of Likely, 2 kilometres south of the west end of Morehead Lake, at approximately 1 000 metres elevation.

CLAIMS: ML 1 to 24.

OWNERS: DOME EXPLORATION (CANADA) LIMITED, 600, 365 Bay Street, Toronto, Ontario M5H 2V4 and NEWCONEX CANADIAN EXPLORATION LTD., Box 40, Toronto-Dominion Centre, Toronto, Ontario M5K 1B7.

DESCRIPTION: Chalcocite, bornite, and chalcopyrite are disseminated in limestone and maroon to grey sandstone.

WORK DONE: Surface geological mapping, 1:10 000, covering all claims; trenching, 260 metres on ML 4, 12, and 21.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, Geological Fieldwork, 1975, p. 59; MI 93A-118.

BJ, CARIBOO-BELL (Fig. E-1, NTS 93, No. 9)

LOCATION: Lat. 52° 33' Long. 121° 38' (93A/12E)
CARIBOO M.D. Eight kilometres southwest of Likely, on Mount Polley, at approximately 1 200 metres elevation.

CLAIMS: BJ, BOOTJACK, RED, GREEN, totalling approximately 130.

(93A/13W)

OWNER: CARIBOO BELL COPPER MINES LIMITED, 14, 1199 West Hastings Street, Vancouver V6E 2K5.
METALS: Copper, gold.
DESCRIPTION: Pyrite, chalcopyrite, and magnetite occur in microdiorite and andesite porphyry of the Mount Polley stock.
WORK DONE: Geochemical survey, 1 149 soil samples, 1.8 line-kilometres, 120-metre grid spacing covering BJ 2 Fraction, BJ 1-10, 21-28, 121-130, 144, 146, 148, 150, 152.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 293; MI 93A-8.

RM, TRIFAUX (Fig. E-1, NTS 93, No. 10)

LOCATION: Lat. 52° 59' Long. 121° 57' (93A/13W)
CARIBOO M.D. Sixty kilometres northwest of Likely, immediately north of Sovereign Creek, at the junction of Eskridge Creek.
CLAIMS: RM 1 to 8, TRIFAUX 2 and 4.
OWNER: R. TRIFAUX, 510, 10140 — 113th Street, Edmonton, Alta. T5K 1P1.
METALS: Copper, silver.
WORK DONE: Prospecting and geochemical sampling (36 samples collected covering RM 1-8 and analysed for gold, silver, and copper); trenching, 10 metres and stripping, 60 square metres on Trifaux 2.
REFERENCE: Assessment Report 5492.

PARK (Fig. E-1, NTS 93, No. 11)

LOCATION: Lat. 52° 54' Long. 121° 22' (93A/14W)
CARIBOO M.D. Approximately 27 kilometres southeast of Barkerville, on Cunningham Creek, due west of Roundtop Mountain, at approximately 1 370 metres elevation.
CLAIMS: PARK 1 to 12.
OWNER: RUEBEN J. MILLER, Box 4361, Quesnel.
METALS: Gold, silver, lead, tungsten, zinc.
WORK DONE: Prospecting covering Park 5-10.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 333; Assessment Report 5609; MI 93A-60.

BERTHA, JANE (Fig. E-1, NTS 93, No. 12)

LOCATION: Lat. 52° 51' Long. 121° 26' (93A/14W)
CARIBOO M.D. Eleven kilometres north of the community of Keithley Creek, on Yanks Peak, at approximately 1 650 metres elevation.
CLAIMS: BERTHA-JUNIOR, OLD TIMER, JANE, YANKS PEAK, and YANKS PEAK NO. 2 Crown-granted mineral claims.
OWNER: RESOURSEX LTD., 414, 630 Eighth Avenue SW., Calgary, Alta.

(93B/9W)

METAL: Gold.
DESCRIPTION: Native gold is dispersed erratically in quartz veins and veinlets in argillaceous rocks of the Midas Formation and quartzites of the Snowshoe Formation.
WORK DONE: Prospecting and sampling of quartz veins.
REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1942, p. 55 (Snowshoe Gold Mines, Ltd.); MI 93A-30, 31.

QUESNEL 93B

GIBRALTAR MINE

LOCATION: Lat. 52° 31' Long. 122° 17' (93B/9W)
Report on this property in *Mining in British Columbia*, 1975.

WHITESAIL LAKE 93E

RD (Fig. E-1, NTS 93, No. 13)

LOCATION: Lat. 53° 59' Long. 127° 34' (93E/13E)
OMINECA M.D. On the northeast slope of Redslide Mountain, 2.4 kilometres east of Morice Lake, at approximately 1 200 metres elevation.
CLAIMS: RD 1 to 8, 10, 13 to 20.
OWNER: EL PASO MINING & MILLING COMPANY, c/o 1127, 510 West Hastings Street, Vancouver V6C 1N5.
METALS: Copper, molybdenum.
DESCRIPTION: Molybdenite occurs in fractures in a granite stock and chalcopyrite occurs in fractures in volcanic dykes.
WORK DONE: Surface geological mapping, 1:2500, covering RD 8, 17, 18; geochemical soil survey, 70 samples, 1.2 line-kilometres, 30 by 15-metre grid spacing covering RD 8, 17, and 18; trenching, 18.6 metres on RD 18 (12 test pits).
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 245; Assessment Report 5595; MI 93E-83.

BERG (Fig. E-1, NTS 93, No. 18)

LOCATION: Lat. 53° 48' Long. 127° 26' (93E/14)
OMINECA M.D. Thirteen kilometres south of Kidprice Lake, in Tahtsa Range, north of Tahtsa Lake, at approximately 2 000 metres elevation.

(93E/14)

CLAIMS: Mineral Lease M-95 comprising BERG 15 plus BERG 11 to 24, 31, 34, 35, 37 to 44, 50, 51, 54, 55, 63, 64, 66 to 71, 73 to 86, 132 to 145, 251 to 262, 264 to 281, BERG 1 and 72 Fractions, TAKI 1 to 22, SUN 1 to 80.

OWNER: Kennco Explorations, (Western) Limited.

OPERATOR: CANEX PLACER LIMITED, 800, 1030 West Georgia Street, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: Late Jurassic–Early Cretaceous (Hazelton) fragmental volcanic rocks, tuffs, and agglomerates are intruded by a dioritic offshoot of the Coast Plutonic Complex. Later a related stock of quartz monzonite porphyry was intruded along the volcanic-diorite contact. The whole area was later cut by quartz feldspar porphyry dykes. Mineralization comprises chalcopyrite, molybdenite, chalcocite, and pyrite.

WORK DONE: Surface diamond drilling, eight holes totalling 1 050.6 metres on Berg 17, 18, 20, and 39.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 245; Assessment Reports 5429, 5500; MI 93E-46.

SLIDE (Fig. E-1, NTS 93, No. 17)

LOCATION: Lat. 53° 50' Long. 127° 18' (93E/14)
OMINECA M.D. Twelve kilometres west of Twinkle Lake, on Berg Road, at approximately 1 050 metres elevation.

CLAIMS: SLIDE 9 to 18, 29 to 38.

OWNER: HUDSON'S BAY OIL AND GAS COMPANY LIMITED, 320 Seventh Avenue SW., Calgary, Alta. T2P 0X5.

DESCRIPTION: Pyrite and chalcopyrite occur in quartz diorite that intrudes Hazelton volcanic rocks.

WORK DONE: Ground magnetometer survey, 25 line-kilometres, 150-metre grid spacing covering all claims; percussion drilling, six holes totalling 210 metres on Slide 12, 13, and 14.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 246; Assessment Report 5672.

SYLVIA (Fig. E-1, NTS 93, No. 15)

LOCATION: Lat. 53° 51' Long. 127° 11' (93E/14E)
OMINECA M.D. Thirteen kilometres southwest of the west end of Nadina Lake, at approximately 1 050 metres elevation.

CLAIMS: SYLVIA 1 to 18, 20, 22, 24, 26, 29, 30, 33 to 36.

OWNER: HUDSON'S BAY OIL AND GAS COMPANY LIMITED, 320 Seventh Avenue SW., Calgary, Alta. T2P 0X5.

METALS: Copper, (molybdenum).

DESCRIPTION: Pyrite and chalcopyrite are disseminated in Hazelton volcanic rocks and in the intruding quartz diorite plug.

(93E/14W)

WORK DONE: Ground magnetometer survey, 30 line-kilometres, 150-metre grid spacing covering all claims; percussion drilling, six holes totalling 345 metres on Sylvia 12 and 14; road construction, 760 metres on Sylvia 14.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 246; Assessment Reports 5670, 5671; MI 93E-89.

ANIKA (Fig. E-1, NTS 93, No. 14)

LOCATION: Lat. 53° 51' Long. 127° 28' (93E/14W)
OMINECA M.D. Five kilometres from the southeast corner of Kidprice Lake on a bearing of south 35 degrees east, at approximately 1 800 metres elevation.

CLAIMS: ANIKA (units 1 to 20).

OWNER: J. R. Woodcock.

OPERATOR: DOME EXPLORATION (CANADA) LIMITED, 600, 365 Bay Street, Toronto, Ontario.

METAL: Copper.

DESCRIPTION: The property is underlain by pyroclastic rocks and flows of the Hazelton (?) Group.

WORK DONE: Surface geological mapping, 1:3600, covering Anika (units 7-19); detailed geochemical survey, 75 soil, rock, and silt samples, covering Anika (units 7-9 and 12-19).

TARA (Fig. E-1, NTS 93, No. 16)

LOCATION: Lat. 53° 51' Long. 127° 13' (93E/14E)
OMINECA M.D. Twelve kilometres west-southwest of the west end of Nadina Lake, between 1 065 and 1 220 metres elevation.

CLAIMS: TARA 1 (15 units), TARA 2 (18 units), TARA 9 to 20, 25 to 38.

OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: Pyrite and minor chalcopyrite and molybdenite occur as fracture fillings and disseminations in a sericitized white to pale green feldspar porphyry.

WORK DONE: Claims, topography, and surface workings surveyed, 1:5000; surface geological mapping, 1:5000; induced polarization survey, 30.8 line-kilometres, 100 by 200-metre grid spacing; magnetometer survey, 19.6 line-kilometres, 50 by 200-metre grid spacing; VLF EM survey, 19.6 line-kilometres, 50 by 200-metre grid spacing; geochemical soil survey, 285 samples, 19.6 line-kilometres, 100 by 200-metre grid spacing, covering Tara 1 (units 1-5, 12) and Tara 9-20, 25-38; surface diamond drilling, six holes totalling 526 metres on Tara 32, 33, 34; road construction, 2.7 kilometres on Tara 31-34, 37, 38 (between Berg access road and drillsites); linecutting, 30.8 kilometres.

REFERENCES: Assessment Report 5646; MI 93E-91.

(93E/14E, 15W)

PAM Fig. E-1, NTS 93, No. 19)

LOCATION: Lat. $53^{\circ} 52'$ Long. $127^{\circ} 01'$ (93E/14E, 15W)
OMINECA M.D. Three kilometres south of the east end of Nadina Lake, at approximately 1 050 metres elevation.

CLAIMS: PAM 3 to 16, 21 to 34, 36, 39 to 52, 59, 61, 63, 65, 67, 69.

OWNER: HUDSON'S BAY OIL AND GAS COMPANY LIMITED, 320 Seventh Avenue SW., Calgary, Alta T2P 0X5.

METALS: Copper, molybdenum.

DESCRIPTION: Pyrite and chalcopyrite occur in Hazelton volcanic rocks and in the intruding quartz diorite.

WORK DONE: Ground magnetometer survey, 75 line-kilometres, 150-metre grid spacing covering all claims; percussion drilling, 10 holes totalling 625 metres on Pam 25, 26, 27, 28; road construction, 2 kilometres on Pam 25, 26, 27, 28 (access to drill holes).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 247; Assessment Reports 5668, 5669; MI 93E-88.

RIP (Fig. E-1, NTS 93, No. 20)

LOCATION: Lat. $53^{\circ} 50'$ Long. $126^{\circ} 46'$ (93E/15W)
OMINECA M.D. Six miles due west of Andrew Bay on Ootsa Lake Road (Wisteria branch), at approximately 1 050 metres elevation.

CLAIMS: ANDREW 2 (units 1 to 18), RIP 1 (units 1 to 18), RIP 2 (units 1 to 18).

OWNER: KENNCO EXPLORATIONS, (WESTERN) LIMITED, 730, 505 Burrard Street, Vancouver V7X 1M4.

METALS: Copper, molybdenum.

DESCRIPTION: Quartz sericite altered volcanic rocks are adjacent to a quartz monzonite porphyry stock. Chalcopyrite and molybdenite are associated with pyrite, gypsum, and quartz as fracture fillings.

WORK DONE: Induced polarization survey, 21 line-kilometres, 266-metre grid spacing covering all claims; surface diamond drilling, one hole totalling 260 metres on RIP 2 (units 11 and 12); road construction, 0.2 kilometre on RIP 2 (units 11 and 12) (between logging access road and drillsite).

REFERENCE: MI 93E-92.

NECHAKO RIVER 93F

C (Fig. E-1, NTS 93, No. 21)

LOCATION: Lat. $53^{\circ} 21'$ Long. $124^{\circ} 29'$ (93F/8W)
OMINECA M.D. Two kilometres due west of Chutanli Lake, at approximately 1 115 metres elevation.

CLAIMS: C, totalling approximately 80.

(93F/15W)

OWNER: RIO TINTO CANADIAN EXPLORATION LIMITED, 615, 555 Burrard Street, Vancouver V7X 1M8.

METALS: Copper, molybdenum.

DESCRIPTION: Chalcopyrite, pyrite, magnetite, and minor molybdenite occur in kaolinized, silicified, and chloritized volcanic rocks of the Hazelton Group which have been intruded by feldspar porphyry dykes.

WORK DONE: Induced polarization surveys, 7.15 line-kilometres, 60 by 240-metre grid spacing and 5.88 line-kilometres, 120 by 240-metre grid spacing covering C 6 to C 12; magnetometer survey, 3.45 line-kilometres, 30 by 240-metre grid spacing covering same claims.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1971, p. 159; Assessment Report 5524; MI 93F-4.

CALEDONIA (Fig. E-1, NTS 93, No. 23)

LOCATION: Lat. 53° 57' Long. 124° 54' (93F/15W)
OMINECA M.D. Fourteen and one-half kilometres south-southwest of Fraser Lake, at approximately 900 metres elevation.

CLAIMS: CALEDONIA 1 to 27, 29, 31, 33, CAL 1 to 10, CAL 11 (12 units), CAL 12 (9 units), CAL 14 (9 units), CAL 13 (6 units).

OWNERS: Mr. and Mrs. E. D. Thomson.

OPERATOR: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver.

METALS: Molybdenum, copper.

DESCRIPTION: Molybdenite, magnetite, and minor chalcopyrite occur in quartz veins, from 0.5 centimetre to 40 centimetres wide, in Caledonia quartz monzonite, a phase of the Topley intrusive rocks.

WORK DONE: Surface geological mapping, 1:12 000, covering 12 claims; induced polarization and magnetometer survey, 24 line-kilometres, 120-metre grid spacing covering Caledonia and Cal claims; percussion drilling, 22 holes totalling 1 737 metres on Caledonia 1, 3, 5, 13, 14, 15, 16, 17, 18, 21; topography mapped, 1:12 000; linecutting, 19 kilometres; road construction, 4 kilometres between Caledonia 1 and 21 (drill sites).

REFERENCES: Assessment Reports 5579, 5580, 5581; MI 93F-37.

NITHI, JEN (Fig. E-1, NTS 93, No. 22)

LOCATION: Lat. 53° 59' Long. 124° 51' (93F/15W)
OMINECA M.D. Eight kilometres south of Fraser Lake, on Nithi Mountain, between 810 and 1 320 metres elevation.

CLAIMS: MOLLY 1 to 14, 17, 18, MJM 8 to 23, MJM 6 and 7 Fractions, PINE 1 and 2 Fractions, DAD 1 to 3, 16, 17, 46, 48, 72, 97 to 101, 103 to 105, and 109 Fractions, DAD 4 to 15, 18 to 45, 47, 49 to 57, 59 to 63, 65 to 70, 73 to 88, 90, 92, 94, 96, 106 to 108, 110 to 112, 118, 120, 122, DAD 123 (2 units), DAD 125 (1 unit).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L6.

(93G/1W)

METAL: Molybdenum.

DESCRIPTION: Mineralized quartz veins cut Endako quartz monzonite and Casey granite, both of which are phases of the Topley intrusive rocks. Molybdenite occurs in narrow (0.2 centimetre to 12 centimetres), widely spread quartz veins.

WORK DONE: Surface geological mapping, 1:12 000, covering all claims; induced polarization and magnetometer survey, 48 line-kilometres, 300-metre grid spacing and geochemical survey, 1 578 soil and 120 rock samples (analysed for molybdenum, zinc, iron), 300 by 150-metre grid spacing, covering approximately 70 claims; topography mapped, 1:12 000; linecutting, 31 kilometres.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 327; Assessment Reports 5489, 5714; MI 93F-6 to 17.

PRINCE GEORGE 93G

WANDA (Fig. E-1, NTS 93, No. 24)

LOCATION: Lat. 53° 03' Long. 122° 20' (93G/1W)
CARIBOO M.D. Twelve kilometres northeast of Quesnel, on Mouse Mountain, between 884 and 914 metres elevation.

CLAIMS: WANDA 1 to 12, 17, 18, WD 21, 23, 25, 28, 30, 31, WH 1 to 6 Fractions.

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

METALS: Copper, gold.

DESCRIPTION: Chalcopyrite and bornite with gold in sulphides occur in breccias and skarn and disseminated in syenitic intrusive rocks, the latter intruding related early differentiates including alkali basalt, andesite, flows and agglomerates, and lahar deposits. The skarns and breccias occur in synvolcanic rocks related to final differentiates including syenodiorite, synomonzonite, and syenite.

WORK DONE: Surface geological mapping, 1:1200 covering Wanda and 1:1200 covering all other claims; geochemical survey, 800 rock samples, 50 line-kilometres, covering Wanda 9-12 and WD 21, 23, 30, 32; percussion drilling, five holes totalling 492 metres on Wanda 11; road rejuvenation, 3.6 kilometres between Wanda 11 and Wanda 3 (covering Wanda 3, 5, 7, 9, 11 and WH 4 and 6 Fractions).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 248; Assessment Report 5531; MI 93G-3.

(93G/8E)

GEO, MURRAY (Fig. E-1, NTS 93, No. 25)

LOCATION: Lat. 53° 17' Long. 122° 05' (93G/8E)
CARIBOO M.D. Approximately 48 kilometres east of Strathnaver, at the north end of Ahbau Lake, at about 930 metres elevation.

CLAIMS: MURRAY 1, 2, 15 to 22, GEO 1 to 30, 37 to 56.

OWNERS: George A. Checklin and K. P. Riddell.

OPERATOR: HALFERDAHL & ASSOCIATES LTD., 18, 10509 – 81st Avenue, Edmonton, Alta. T6E 1X7.

DESCRIPTION: The claims are underlain by micaceous quartzites and garnetiferous mica schists.

WORK DONE: Gravimetric survey, 15.3 line-kilometres; magnetometer survey, 13.7 line-kilometres; self-potential survey, 10 line-kilometres; horizontal-loop survey, 3.6 line-kilometres; and vertical loop survey, 3.2 line-kilometres, 120-metre grid spacing and 15-30-metre station spacing, covering Geo 1, 3, 5-8, 13-17, 20, 22, 24, 26, 28 and Murray 17-20, 22; geochemical survey, 103 soil samples, 2.9 line-kilometres, 30-metre spacing on three lines, covering Geo 3, 5, 6 and Murray 17-20, 22 and 10 lake sediment samples covering Murray 21 and Geo 21, 48; surface diamond drilling, two holes totalling 270 metres on Geo 1 and Murray 22; linecutting, 16.3 kilometres.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 249; Assessment Report 5606.

MEGA (Fig. E-1, NTS 93, No. 26)

LOCATION: Lat. 53° 58' Long. 122° 00' (93G/16E)
CARIBOO M.D. Fifty-three kilometres east of Prince George, on the east slope of Mount Bowron.

CLAIMS: MEGA 1 to 6.

OWNER: FRED NILSEN, 5001 Randle Road, Prince George.

METALS: Copper, lead.

WORK DONE: 1974 and 1975 – prospecting on Mega 3 and 4.

REFERENCES: Assessment Report 5539; MI 93G-30.

McBRIDE 93H

CHISHOLM (Fig. E-1, NTS 93, No. 28)

LOCATION: Lat. 53° 04' Long. 121° 43' (93H/4E)
CARIBOO M.D. Twelve kilometres southwest of Wells, on the southeast flank of Mount Nelson.

CLAIMS: CHISHOLM 1 to 4, 7 Fraction (Lots 10428 to 10431, 10434), WONDER, WONDER Fraction (Lots 1674, 1679), GARBO, GARBO NO. 1 (Lots 1675, 1662), BURNS 14 to 16 (Lots 8895 to 8897), GLORIA 2 (Lot 8899), OSLO Fraction (Lot 1676).

(93H/4E)

OWNER: GOLDEN ARK EXPLORATIONS LTD., Box 308, Vernon.
METALS: Gold, silver.
DESCRIPTION: The area is underlain by limestones, phyllites, and quartzites of the Precambrian Richfield Formation. Quartz veins cut these rocks and occasionally contain locally rusty sections which contain minor amounts of gold when assayed.
WORK DONE: Magnetometer survey covering approximately eight claims.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 249; Assessment Report 5554; MI 93H-35.

MOSQUITO (Fig. E-1, NTS 93, No. 4)

LOCATION: Lat. 53° 07' Long. 121° 36' (93H/4E)
CARIBOO M.D. Approximately 1.5 kilometres downstream along the south side of the Willow River from Wells, at about 1 350 metres elevation.
CLAIMS: Twenty-nine Crown-granted claims including MOSQUITO (Lot 10355), VANCOUVER (Lot 10356), PORT HOPE (Lot 10357), SEATTLE (Lot 10358), RED GULCH 1 to 7 (Lots 10360 to 10366), plus two placer leases.
OWNER: Mosquito Creek Gold Mining Company Limited.
OPERATOR: HOME OIL COMPANY LIMITED, 709 Eighth Avenue SW., Calgary, Alta.
METALS: Gold, (silver).
DESCRIPTION: Gold is associated with pyrite in replacement deposits within limestone lenses.
WORK DONE: Underground diamond drilling, 74 holes totalling 1 982 metres on Port Hope; underground workings surveyed, 1:240; 641 metres of drifting on two levels (Port Hope).
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 250; MI 93H-10.

CUSH (Fig. E-1, NTS 93, No. 27)

LOCATION: Lat. 53° 32' Long. 120° 09' (93H/9E)
CARIBOO M.D. Twenty-five kilometres north of McBride townsite, 3 kilometres southwest of Cushing Creek, at approximately 2 100 metres elevation.
CLAIMS: CUSH 1 to 8.
OWNER: J. R. Woodcock.
OPERATOR: AQUITAINE COMPANY OF CANADA LTD., 540 Fifth Avenue SW., Calgary, Alta.
DESCRIPTION: Graphitic shale of the Lower Miette Formation outcrops on the property.
WORK DONE: Surface geological mapping, 1:4000, covering Cush 1-4; shootback electromagnetic and magnetometer survey, 7.1 line-kilometres, 100-metre grid spacing covering Cush 1-4.
REFERENCE: Assessment Report 5640.

(93H/13W)

UG, LAD (Fig. E-1, NTS 93, No. 29)

LOCATION: Lat. 53° 49' Long. 121° 53' (93H/13W)
CARIBOO M.D. Fifty-six kilometres east-southeast of Prince George,
on the Bowron River.

CLAIMS: LAD 1 to 40, 89 to 110, 137 to 154, 177 to 216, UG 1 to 30.

OWNER: ZULU EXPLORATIONS LTD., 8, 1070 Douglas Street, Victoria.

METAL: Uranium (?).

DESCRIPTION: Two holes failed to reach bedrock. A third hole intersected dark shales
and conglomerates, reported to be radioactive.

WORK DONE: Surface diamond drilling, one BQ hole totalling 185 metres on Lad 90.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 251; Assessment
Reports 5428, 5577; MI 93H-36.

McLEOD LAKE 93J

GISCOME (Fig. E-1, NTS 93, No. 30)

LOCATION: Lat. 54° 03' Long. 122° 20' (93J/1W)
CARIBOO M.D. Three kilometres east of Giscome.

CLAIMS: MC 3 and 5.

OWNER: John H. Gerlitzki.

OPERATOR: CENTRAL B.C. EXPLORATION LTD., 1726 West 14th Avenue,
Vancouver.

METALS: Lead, zinc.

DESCRIPTION: Banded sphalerite and galena occur in skarns formed along a contact
between gneiss and marble.

WORK DONE: Surface geological mapping covering MC 3 and 5.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 251; Assessment
Report 5515; MI 93J-1.

FORT FRASER 93K

ENDAKO MINE

LOCATION: Lat. 54° 02' Long. 125° 07' (93K/3E)
Report on this property in *Mining in British Columbia*, 1975.

NU, ELK (Fig. E-1, NTS 93, No. 32)

LOCATION: Lat. 54° 03' Long. 125° 08' (93K/3E)
OMINECA M.D. Fifteen kilometres southwest of Endako village by
road from Highway 16, at approximately 960 metres elevation.

CLAIMS: NU, ELK, DEER, CORA, DAT, etc., totalling 74.

(93K/3E)

OWNER: Denak Mines Ltd.
OPERATOR: CANEX PLACER LIMITED, Endako Mines Division, Endako V0J 1L0.
METAL: Molybdenum.
DESCRIPTION: Mineralization consists of quartz-molybdenite stockwork with minor pyrite and magnetite associations. Chalcopyrite is rare primary mineral. Calcite, chlorite, and chalcedony are common late vein minerals. Host rock for mineralization is Endako quartz monzonite which has undergone various degrees of kaolinization. Coarse-grained quartz monzonite has been intruded by premineral aplite, andesite, fine-grained porphyritic granite, quartz feldspar porphyry, and postmineral basalt.
WORK DONE: Development diamond drilling, 10 holes totalling 1 419 metres on Elk 5 and Nu 3 and 4; percussion drilling, 12 holes totalling 1 080 metres on Dat 1 Fraction and Nu 3 and 5 (198 samples analysed for molybdenite); road construction, 1 kilometre on Elk 5 and Nu 3, 5, and 6.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 253; Assessment Report 5623; MI 93K-8.

ROB, FRAN (Fig. E-1, NTS 93, No. 33)

LOCATION: Lat. 54° 02' Long. 125° 09' (93K/3E)
OMINECA M.D. Ten kilometres southwest of the Endako mine, at approximately 300 metres elevation.
CLAIMS: ROB 1 to 12, FRAN 34 to 36, 38 to 40, 42 to 44.
OWNER: DANKOE MINES LTD., 2002, 1177 West Hastings Street, Vancouver V6E 2K3.
METAL: Molybdenum.
DESCRIPTION: Minor molybdenum occurs in granite and spilite of the Topley intrusive rocks.
WORK DONE: Road construction, 0.8 kilometre between Endako Road and Rob 1, 2, 3, and 4; trenching, 4 500 metres.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 253; MI 93K-13, 80.

PINCHI LAKE MINE

LOCATION: Lat. 54° 38' Long. 124° 26' (93K/9W)
Report on this property in *Mining in British Columbia, 1975*.

MT. SYDNEY WILLIAMS (Fig. E-1, NTS 93, No. 34)

LOCATION: Lat. 54° 55' Long. 125° 21' (93K/14W)
OMINECA M.D. Twelve kilometres northwest of Trembleur Lake, 3 kilometres east of Mount Sidney Williams.
CLAIMS: PAULINE 1 to 4.
OWNER: DOUGLAS STELLING, Germansen Landing.
METAL: Chromium.

(93L/7E)

STAR, KLONDIKE (Fig. E-1, NTS 93, No. 39)

LOCATION: Lat. 54° 22' Long. 126° 34' (93L/7E)
OMINECA M.D. Five kilometres southeast of Houston, at approximately 1 200 metres elevation.

CLAIMS: HOT 1 to 14, HOT 1 to 6 Fractions, CU 2, 4, 6, 8 to 16, 18, 19, 21, 25, 27, 29, CU 1 and 2 Fractions.

OWNER: R. Blusson.

OPERATOR: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: The claims are underlain by biotite-quartz-feldspar porphyry tuff and argillite. Mineralization consists of pyrite, chalcopyrite, and molybdenite.

WORK DONE: Surface diamond drilling, one BQ hole totalling 332 metres on Hot 1 and Hot 1 Fraction.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 259; Assessment Report 5759; MI 93L-10.

TOPLEY RICHFIELD (Fig. E-1, NTS 93, No. 40)

LOCATION: Lat. 54° 35' Long. 126° 16' (93L/9W)
OMINECA M.D. Eleven kilometres north of Topley, between 990 and 1 050 metres elevation.

CLAIMS: RICHFIELD 1 to 4, TR 1 to 36, REDTOP.

OWNER: CANADIAN SUPERIOR EXPLORATION LIMITED, Box 100, Smithers.

METALS: Gold, silver, lead.

DESCRIPTION: The claims are underlain by predominantly Hazelton Group andesitic flows and pyroclastic rocks of Early Jurassic age. Mineralization occurs within quartz-carbonate veining in a fault-controlled shear zone.

WORK DONE: Surface geological mapping, 1:2400, covering Redtop and Richfield 1-4; induced polarization survey, 4.64 line-kilometres, 120-metre grid spacing covering Redtop, Richfield 2-4, TR 8, 10, 27, 29; geochemical silt survey, 99 samples covering all claims; surface diamond drilling, four BQ holes totalling 405.6 metres on Redtop; topography mapped (*ortho photo*), 1:2400; *linecutting*, 4.6 kilometres covering the same claims as for the induced polarization survey.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1956, p. 28; Assessment Reports 5438, 5553, 5707; MI 93L-18; *see also* Geology in British Columbia, 1975.

TERESA (Fig. E-1, NTS 93, No. 41)

LOCATION: Lat. 54° 44' Long. 126° 16' (93L/9W)
OMINECA M.D. Immediately southwest of Mile 41 on the Northwood Road, 9.6 kilometres southwest of Topley Landing.

(93L/10)

CLAIMS: TERESA (units 1 to 20).
OWNER: Evergreen Explorations Ltd.
OPERATOR: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver V6B 1P2.
DESCRIPTION: A buried, hydrothermally altered, biotite feldspar porphyry stock is suggested by a concentration of float specimens of this material collected from 56 widely spaced, 4-metre deep backhoe pits.
WORK DONE: Geochemical soil survey, 56 samples (one from bottom of each pit); trenching, 56 widely spaced pits each 1 metre by 3 metres by 4 metres deep, covering most of the claims.

SUMMIT (Fig. E-1, NTS 93, No. 43)

LOCATION: Lat. 54° 43' Long. 126° 45' (93L/10)
OMINECA M.D. Nineteen kilometres east of Telkwa, near Burbridge Lake, at approximately 1 200 metres elevation.
CLAIMS: SUMMIT 1 to 4, 7, 8, HB 4, 6, 21 to 23, HB 1 to 4 Fractions, CS 1 to 19.
OWNER: M. Chapman.
OPERATOR: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.
METAL: Copper.
DESCRIPTION: Hazelton Group andesite and rhyolite are intruded by medium-grained diorite. Pyrite occurs as disseminations and in quartz veinlets. Only minor chalcopyrite present.
WORK DONE: 1974 — induced polarization survey, approximately 20 line-kilometres, 120-metre grid spacing; surface diamond drilling, two BQ holes totalling 487 metres on Summit 2 and 7.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 345; Assessment Report 5422; MI 93L-223.

DECEPTION (Fig. E-1, NTS 93, No. 42)

LOCATION: Lat. 54° 13' Long. 126° 39' (93L/10E)
OMINECA M.D. Situated between the southern slope of Dome Mountain and Deception Lake.
CLAIMS: DEK 1 to 40, ZUK 1 to 40, TAK 1 to 40.
OWNER: SUMAC MINES LTD., Box 10150 Pacific Centre, 1650, 701 West Georgia Street, Vancouver V7Y 1C6.
DESCRIPTION: The claims are underlain by greywacke, graphitic argillite, and dacitic tuff of the Hazelton Group. Minor pyrite occurs in fractured zones and quartz veinlets.
WORK DONE: Surface diamond drilling, four holes totalling 582 metres on Tak 1, 2, 25 and Zuk 22.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 261; Assessment Reports 5374, 5435.

(93L/10E)

MINERAL HILL (Fig. E-1, NTS 93, No. 70)

LOCATION: Lat. 54° 35' Long. 126° 30' (93L/10E)
OMINECA M.D. Twelve kilometres north of Houston, approximately 0.4 kilometre east of Fishpan Lake.

CLAIMS: GRACIE 1 and 2, TODD 1.

OWNER: J. Pellissier.

OPERATOR: P. J. HUBER, Box 153, Telkwa V0J 2X0.

METALS: Molybdenum, copper, silver.

DESCRIPTION: Trenching over the area where a shaft was sunk in 1926 did not expose any further mineralization other than the previously known high-grade vein containing sphalerite, galena, chalcopyrite, and tetrahedrite.

WORK DONE: Trenching, approximately 270 square metres.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1926, p. 137; 1965, pp. 75, 76; MI 93L-28.

SERB CREEK (Fig. E-1, NTS 93, No. 44)

LOCATION: Lat. 54° 39' Long. 127° 45' (93L/12)
OMINECA M.D. Thirty-eight kilometres west-southwest of Smithers, at the head of Serb Creek, at approximately 1 050 metres elevation.

CLAIMS: NEW KATIE 2, 17, 18, NEW PETRA 2, 17, 18, SC 1 (16 units), SC 2 (9 units).

OWNERS: Exaton Resources Ltd. and T. L. Sadlier Brown.

OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops.

METAL: Molybdenum.

DESCRIPTION: Molybdenite, disseminated and as fracture fillings, occurs in quartz veins in a stock of granodiorite within the Coast Plutonic Complex. The stock is in turn intruded by quartz diorite and a series of quartz, feldspar, and quartz-feldspar porphyry dykes.

WORK DONE: Surface diamond drilling, three holes totalling approximately 1 000 metres on New Petra 2 and SC 1 (units 1 and 16); topography mapped, 1:2400.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1966, p. 91; Assessment Report 5762; MI 93L-83; *see also* Geology in British Columbia, 1975.

SNOWSHOE (Fig. E-1, NTS 93, No. 50)

LOCATION: Lat. 54° 47' Long. 127° 16' (93L/14W)
OMINECA M.D. Four kilometres due west of Smithers, on the northeast slope of a ridge of Hudson Bay Mountain, at approximately 1 341 metres elevation.

CLAIMS: ROBIN 1 to 4.

OWNER: M. H. Chapman.

OPERATOR: ROBIN SILVER MINES LIMITED, Box 834, Smithers V0J 2N0.

METALS: Silver, lead, gold, zinc.

(93L/14W)

DESCRIPTION: Mineralized replacement fracture fillings occur in a quartz-carbonate gangue in andesite.

WORK DONE: Percussion drilling (sufficient to obtain a 550 kilogram sample); road construction, 3.2 kilometres (top section of road, partly on Robin 1); trenching, 300 metres and stripping, 5 000 square metres on Robin 1.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1968, p. 121; MI 93L-117.

GLACIER GULCH (YORKE-HARDY) (Fig. E-1, NTS 93, No. 45)

LOCATION: Lat. 54° 49' Long. 127° 18' (93L/14W)
OMINECA M.D. In Glacier Gulch, on Hudson Bay Mountain, between 600 and 2 200 metres elevation.

CLAIMS: Mineral Leases M-8 and M-81 to M-85 and 252 located claims comprising C, D, E, F, H, JAY, J, K, L, M, R, S, T, EX, EXTENSION, and Y.

OWNER: CLIMAX MOLYBDENUM CORPORATION OF BRITISH COLUMBIA, LIMITED, Box 696, Smithers.

METAL: Molybdenum.

DESCRIPTION: Hazelton Group volcanic rocks and Bowser Group sedimentary rocks are cut by three ages of intermediate to acidic intrusive rocks. Molybdenite, scheelite-powellite, wolframite, and chalcopyrite occur in quartz vein sheetings and stockworks cutting Hazelton volcanic rocks and younger intrusions.

WORK DONE: Rehabilitation (ditching and grading) on access roads.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 262; MI 93L-107 to 110.

AG (Fig. E-1, NTS 93, No. 46)

LOCATION: Lat. 54° 55' Long. 127° 01' (93L/14E)
OMINECA M.D. Eight kilometres due west of Mount Cronin, on Reiser Creek.

CLAIMS: AG 1 to 4, SILVER BOX CAR 1 and 2, SILVER 1 and 2 Fractions.

OWNER: NORWICH RESOURCES LTD., 711, 475 Howe Street, Vancouver.

METALS: Lead, zinc.

DESCRIPTION: Lead-zinc mineralization occurs in a sedimentary horizon of the Hazelton Group.

WORK DONE: Approximately 29 line-kilometres of linecutting.

REFERENCES: Assessment Report 5504; MI 93L-138.

BIG ONION (CIMBRIA) (Fig. E-1, NTS 93, No. 48)

LOCATION: Lat. 54° 47' Long. 126° 54' (93L/15W)
OMINECA M.D. Seventeen and one-half kilometres east of Smithers, on Astlais Mountain, between 1 050 and 1 500 metres elevation.

(93L/15W)

CLAIMS: JA (units 1 to 9), JB (units 1 to 8), JC (units 1 to 10), JD (units 1 to 20), JE (units 1 to 12), JF (units 1 to 8), JG (units 1 to 8), JH (units 1 to 12).

OWNER: CANADIAN SUPERIOR EXPLORATION LIMITED, Box 100, Smithers.

METALS: Copper, molybdenum.

DESCRIPTION: Two highly altered dyke-like masses of quartz diorite porphyry are enveloped by quartz feldspar porphyry and cut Jurassic andesites of the Hazelton Group. Chalcopyrite, bornite, chalcocite, and molybdenite are associated with pyrite.

WORK DONE: Geochemical rock survey, 165 samples on JB and JF claims; surface diamond drilling, three holes totalling 138 metres on JD and JF claims; percussion drilling, 57 holes totalling 3 960 metres on JD, JF, JB, and JC claims; road construction 1.35 kilometres (mostly rehabilitation of existing roads).

REFERENCES: *B.C. Dept. of Mines and Pet. Res.*, GEM, 1974, p. 263; Assessment Report 5576; MI 93L-124; *see also* Geology in British Columbia, 1975.

CRONIN MINE (Fig. E-1, NTS 93, No. 47)

LOCATION: Lat. 54° 55' Long. 126° 48' (93L/15W)
OMINECA M.D. East slope of Mount Cronin, at the headwaters of Cronin Creek, at approximately 1 600 metres elevation.

CLAIMS: SUNFLOWER FR. (Lot 7417), SUNFLOWER (Lot 7418), HOMESTAKE (Lot 1859A), BONANZA (Lot 1860A), EUREKA (Lot 1861A), LUCKY STRIKE (Lot 1862A), BABINE CHIEF (Lot 1863A), BULKLEY PIONEER (Lot 1864A), JIM A Fraction, SUNRISE 7, DEL 1 to 12, VIEW 1 to 8, MILL 1 and 2, RED.

OWNER: Hallmark Resources Ltd.

OPERATOR: COCA METALS LTD., c/o Clark, Wilson & Company, 9th Floor, 475 Howe Street, Vancouver.

METALS: Silver, lead, zinc, cadmium, gold, copper.

DESCRIPTION: Sulphide mineralization occurs in dilation veins with quartz at or near rhyolite-argillite contacts; in quartz stockworks in rhyolite porphyry, as fracture coatings in rhyolite porphyry and rhyolite, and as trace disseminations in rhyolite. All rock units, argillite, rhyolite porphyry, and rhyolite, from oldest to youngest, are part of the Hazelton Group. Mineralization consists of sphalerite, galena, chalcopyrite, boulangerite, and tetrahedrite.

WORK DONE: Control survey to tie in adit, shaft, and underground workings to claims, 1:2000, covering approximately 100 000 square metres; surface diamond drilling, 10 holes totalling 1 530 metres on Homestake, Bonanza, and Bulkley Pioneer; topography, surface workings, and underground workings surveyed, 1:2000.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 263; Assessment Reports 5526, 5674; MI 93L-127; *see also* Geology in British Columbia, 1975.

(93L/16W)

SAT (Fig. E-1, NTS 93, No. 49)

LOCATION: Lat. 54° 53' Long. 126° 25' (93L/16W)
OMINECA M.D. Forty-eight kilometres northeast of Smithers, 4 kilometres north of the west end of Fulton Lake, at approximately 900 metres elevation.

CLAIMS: BRO 1 to 99.

OWNER: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: The property is underlain by biotite feldspar porphyry, andesite, tuff, and argillite. Mineralization consists of pyrite, chalcopyrite, and minor molybdenite.

WORK DONE: Induced polarization survey, 32.3 line-kilometres, 240-metre grid spacing, covering Bro 15, 16, 20-23, 25-34, 36-39, 41-44, 46-56.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1973, p. 349; Assessment Report 6620; MI 93L-224.

GRANISLE MINE

LOCATION: Lat. 54° 56.5' Long. 126° 09.5' (93L/16E)
Report on this property in *Mining in British Columbia, 1975*.

BELL MINE (NEWMAN)

LOCATION: Lat. 55° 00' Long. 126° 14' (93L/16E; 93M/1E)
Report on this property in *Mining in British Columbia, 1975*.

HAZELTON 93M

BRIS (Fig. E-1, NTS 93, No. 52)

LOCATION: Lat. 55° 00' Long. 126° 39' (93M/2E; 93L/15E)
OMINECA M.D. The claims straddle the Nilkitkwa Road, 41.6 kilometres north 56 degrees east of Smithers, between 880 and 1 100 metres elevation.

CLAIMS: BRIS 1 to 94.

OWNERS: NORANDA EXPLORATION COMPANY, LIMITED and HUDSON'S BAY OIL AND GAS COMPANY LIMITED, c/o Box 2380, Vancouver.

METAL: Copper.

DESCRIPTION: Disseminated and fracture-filling pyrite with very minor chalcopyrite occurs in altered intrusive, volcanic, and sedimentary rocks.

WORK DONE: Surface geological mapping, 1:5000 and induced polarization survey, 17.7 line-kilometres, 100 by 200-metre grid spacing, covering Bris 9-12, 31-46, 65-72; claims surveyed (chain and compass); topography mapped, 1:5000; linecutting, 20.4 kilometres.

REFERENCE: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 268.

(93M/2E)

TOR (Fig. E-1, NTS 93, No. 51)

LOCATION: Lat. 55° 06' Long. 126° 43' (93M/2E)
OMINECA M.D. On the west side of Torkelsen Lake, 45.5 kilometres north 41 degrees east of Smithers, between 850 and 915 metres elevation.

CLAIMS: TOR 1 to 18.

OWNERS: NORANDA EXPLORATION COMPANY, LIMITED and HUDSON'S BAY OIL AND GAS COMPANY LIMITED, c/o Box 2380, Vancouver.

DESCRIPTION: The property is underlain by purple tuffs and flows of the Hazelton Group.

WORK DONE: Induced polarization survey, 10.3 line-kilometres, 100 by 200-metre grid spacing covering Tor 1-9, 12, 14, 16; surface diamond drilling, one hole totalling 17 metres on Tor 5; linecutting, 10.95 kilometres.

REFERENCE: Assessment Report 5611.

ROB, BLUNT (Fig. E-1, NTS 93, No. 53)

LOCATION: Lat. 55° 11' Long. 127° 14' (93M/3E)
OMINECA M.D. Forty-eight kilometres north of Smithers, 9 kilometres east of Bulkley River, at head of Luno and Blunt Creeks, at approximately 1 650 metres elevation.

CLAIMS: WOLF 1 (units 1, 2, 15, 16), WOLF 2 (units 1 to 3, 14 to 16), WOLF 3 (units 1 to 3, 14 to 16), WOLF 4 (unit 1).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L6.

METALS: Copper, molybdenum.

DESCRIPTION: Molybdenite and chalcopyrite occur in quartz - K feldspar - sericite veins associated with a younger phase of a 50-square-kilometre Late Cretaceous or Tertiary granodiorite stock in the Babine Range.

WORK DONE: Geochemical soil survey, 335 samples, 16 line-kilometres, 50 by 200-metre grid spacing, covering Wolf 1 and 2.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 188; MI 93M-24, 25.

TETRA (MORICETOWN SILVER)

LOCATION: Lat. 55° 02' Long. 127° 17.5' (93M/3W)
Report on this property in *Mining in British Columbia*, 1975.

VICTORIA (Fig. E-1, NTS 93, No. 56)

LOCATION: Lat. 55° 10' Long. 127° 38' (93M/4E)
OMINECA M.D. Eight kilometres south of Hazelton, on the northwest slope of Rocher Deboûle Mountain, at approximately 1 500 metres elevation.

(93M/5W)

CLAIMS: VICTORIA (Lot 3303), BELLE (Lot 3304), VIEW FR. (Lot 3305), BELLE FR. (Lot 3306), MAMMOTH (Lot 3307), RED CROSS (Lot 3310), MONOPLANE (Lot 3313), BOWL FR. (Lot 3315), LITTLE HELEN (Lot 3319), PATRIOTIC (Lot 3311), HAZELTON VIEW (Lot 3299), LEAD PICK, (Lot 3300), HOMESTAKE (Lot 3309), TIGER (Lot 3308).

OWNER: William McGowan.

OPERATOR: J. M. HUTTER, RR 1, Telkwa V0J 2X0.

METALS: Gold, molybdenum, copper, uranium.

WORK DONE: All caved portals re-opened and underground geology mapped; limited underground sampling; trail cleared and base camp building renovated.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1916, pp. 114-116; 1917, p. 113; 1918, p. 119; 1925, p. 136; 1927, p. 132; 1928, p. 159; 1948, pp. 80-82; 1949, pp. 84-93; 1950, p. 99; MI 93M-72.

BURN (Fig. E-1, NTS 93, No. 54)

LOCATION: Lat. 55° 22.5' Long. 127° 45' (93M/5W)
OMINECA M.D. Property located between Date Creek and the Kispiox River, approximately 19.2 kilometres northeast of New Hazelton, between 455 and 1 065 metres elevation.

CLAIMS: BURN 16 (16 units), BURN D8 (8 units).

OWNERS: John Sargent and Earl Sargent.

OPERATOR: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: The property is underlain by sedimentary rocks of the Hazelton Group which have been intruded by stocks and dyke-like bodies of granodiorite and biotite feldspar porphyry. Mineralization consists of disseminated and fracture-filling pyrite with minor chalcopyrite and molybdenite.

WORK DONE: Induced polarization survey, 14 line-kilometres, 100 by 200-metre grid spacing; magnetometer survey, 14 line-kilometres, 25 by 200-metre grid spacing; VLF EM survey, 14 line-kilometres, 25 by 200-metre grid spacing; and geochemical soil survey, 302 samples, 15.2 line-kilometres, 100 by 200-metre grid spacing, covering Burn 16 (units 1-4, 13-16) and Burn D8 (units 1, 16, 17, 27); linecutting, 15.2 line-kilometres.

REFERENCE: MI 93M-147.

SILVER STANDARD MINE

LOCATION: Lat. 55° 19' Long. 127° 37.5' (93M/5E)
Report on this property in *Mining in British Columbia*, 1975.

(93M/6W)

SUNRISE

LOCATION: Lat. 55° 21' Long. 127° 29' (93M/6W)
Report on this property in *Mining in British Columbia, 1975*.

KING (Fig. E-1, NTS 93, No. 55)

LOCATION: Lat. 55° 23' Long. 127° 09' (93M/6E)
OMINECA M.D. Thirty-eight kilometres northeast of Hazelton, at the headwaters of Denison Creek, 6 kilometres west of Mount Thoen, at approximately 1 500 metres elevation.
CLAIMS: DEN 1 to 36.
OWNER: CITIES SERVICE MINERALS CORPORATION, 405, 1200 West Pender Street, Vancouver.
METALS: Copper, molybdenum.
DESCRIPTION: Chalcopyrite, minor pyrite, and molybdenite occur in granodiorite.
WORK DONE: Surface diamond drilling, five BQ holes totalling 816.9 metres on Den 19, 32, and 34.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 271; Assessment Report 5626; MI 93M-28, 29.

CAVZ (Fig. E-1, NTS 93, No. 57)

LOCATION: Lat. 55° 25' Long. 126° 20' (93M/8W)
OMINECA M.D. Twenty-one kilometres northeast of Fort Babine, at the north end of Babine Lake, on Trail Peak, at approximately 1 500 metres elevation.
CLAIMS: CAVZ 1 to 10, 15 to 26, 29 to 40, 47, 49, 51, 53, CAVZ 1 to 4 Fractions.
OWNER: Texasgulf Inc.
OPERATOR: Texasgulf Canada Ltd., 701, 1281 West Georgia Street, Vancouver V6E 3J7.
METAL: Copper.
DESCRIPTION: A Cretaceous diorite-monzonite stock is cut by northwest-trending Eocene biotite feldspar porphyry dykes. Both rock types have cut Mesozoic volcanoclastic rocks. Pyrite, with weak chalcopyrite, occurs as disseminations and fracture fillings in biotite feldspar porphyry.
WORK DONE: Surface diamond drilling, two BQ holes totalling 472 metres on CAVZ 21 and 33.
REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1968, p. 135; Assessment Report 5706; MI 93M-11.

ELLEN (Fig. E-1, NTS 93, No. 60)

LOCATION: Lat. 53° 35' Long. 126° 44' (93M/10E)
OMINECA M.D. About 4.8 kilometres west of the Nilkitkwa Bridge, at approximately 870 metres elevation.

(93M/10E)

CLAIMS: ELLEN (units 1 to 20).
OWNER: R. Woolverton.
OPERATOR: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602
West Hastings Street, Vancouver V6B 1P2.
METALS: Copper, molybdenum.
DESCRIPTION: Angular specimens of hydrothermally altered and mineralized biotite
feldspar porphyry float were collected from most of the 66 widely
spaced 4-metre-deep backhoe pits, suggesting a buried porphyry copper
environment.
WORK DONE: Geochemical soil survey, 66 samples (one from the bottom of each pit);
trenching, 66 widely spaced pits each 1 metre by 3 metres by 4 metres
deep, covering most of the claim units.

PHI (Fig. E-1, NTS 93, No. 58)

LOCATION: Lat. 55° 38' Long. 126° 42' (93M/10E)
OMINECA M.D. About 33 kilometres north of Fort Babine and about
1 kilometre west of the Nilkitkwa River and about 2.8 kilometres north
of the bridge, at approximately 900 metres elevation.
CLAIMS: AMIE 1 to 12, AMIE 1 to 4 Fractions.
OWNER: R. Woolverton.
OPERATOR: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602
West Hastings Street, Vancouver V6B 1P2.
METALS: Copper, zinc.
DESCRIPTION: Angular float specimens of sericitized and carbonatized biotite feldspar
porphyry and quartz latite were collected from 15 widely spaced
4-metre-deep backhoe pits. A hydrothermal centre may exist at depth.
Mineralization consists of pyrite with traces of chalcopyrite and
sphalerite.
WORK DONE: Geochemical soil survey, 15 samples (one from the bottom of each pit);
trenching, 15 widely spaced pits each 1 metre by 3 metres by 4 metres
deep, covering most of the claims.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 273; MI 93M-134.

ALICE (Fig. E-1, NTS 93, No. 59)

LOCATION: Lat. 55° 35' Long. 126° 48' (93M/10W)
OMINECA M.D. Seven kilometres southeast of Mount Horetzky, at
approximately 750 metres elevation.
CLAIMS: ALICE (units 1 to 16).
OWNER: R. Woolverton.
OPERATOR: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602
West Hastings Street, Vancouver V6B 1P2.
METALS: Copper, molybdenum.
DESCRIPTION: Angular specimens of hydrothermally altered and mineralized biotite
feldspar porphyry float were collected from the 82 widely spaced

(93M/11W)

4-metre-deep backhoe pits, suggesting a buried porphyry copper environment. Remnants of Tertiary volcanic capping were uncovered in several pits.

WORK DONE: Geochemical soil survey, 82 samples (one from the bottom of each pit); trenching, 82 widely spaced pits each 1 metre by 3 metres by 4 metres deep, covering most of the claim units.

MOLLY, MOLY (Fig. E-1, NTS 93, No. 61)

LOCATION: Lat. 55° 35' Long. 127° 29' (93M/11W)
OMINECA M.D. Ninety-eight kilometres north of Smithers, on a northwest-trending spur from Mount Thomlinson, at approximately 1 800 metres elevation.

CLAIMS: WHY 1 (units 1 to 5, 12 to 21, 23 to 27).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L6.

METALS: Molybdenum, copper.

DESCRIPTION: Molybdenite and chalcopyrite occur in an arcuate zone at the western margin of a porphyritic granite stock 1 350 metres in diameter. The mineralized zone measures 900 metres in arc length by 67.5 metres in width and dips westward at 65 degrees.

WORK DONE: Surface geological mapping, 1:2400, covering Why 1.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1965, p. 73; MI 93M-80.

MANSON RIVER 93N

JW, JEAN (Fig. E-1, NTS 93, No. 62)

LOCATION: Lat. 55° 06' Long. 124° 53' (93N/2W)
OMINECA M.D. Twelve kilometres south of Tchentlo Lake, at Jean Marie Creek headwaters, at approximately 1 020 metres elevation.

CLAIMS: JEAN 1 to 12, 20 to 44, 47 to 111, 119, 121, 123 to 128, JEAN 45 and 46 Fractions, JW 13, 15, 17, 19, 21 to 128, 134 to 143, 200 to 204, 206 to 222, JW 129 to 134, 144, 145, and 205 Fractions, JW 500 (8 units).

OWNER: N.B.C. SYNDICATE, c/o Bacon & Crowhurst Ltd., 1055 West Hastings Street, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: Chalcopyrite, molybdenite, and hematite occur along potash feldspathized fractures in Middle Jurassic granodiorite and quartz diorite.

WORK DONE: Induced polarization and ground magnetometer survey, 17.6 line-kilometres, 120-metre grid spacing, covering JW 123, 125-128, 134, 135, 202-204, 212-222; surface diamond drilling, six BQ holes totalling 750 metres on JW 95, 119, 120, 123, 124, and 126.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 275; Assessment Reports 5590, 5633, 5737; MI 93N-79, 83.

(93N/6E, 11E)

BURN (Fig. E-1, NTS 93, No. 63)

LOCATION: Lat. 55° 30' Long. 125° 14' (93N/6E, 11E)
OMINECA M.D. Ten kilometres northeast of the east end of Tsayta Lake and 10 kilometres south of Kwanika Creek, at approximately 1 350 metres elevation.

CLAIMS: BURN 1 to 80, BILL 158 (units 1 to 3, 14 to 19, 25 to 27).

OWNER: W. R. Bacon.

OPERATOR: LUC SYNDICATE, 1720, 1055 West Hastings Street, Vancouver.

METAL: Molybdenum, copper.

DESCRIPTION: Fracture systems in alaskite and monzonite are mineralized with pyrite, molybdenite, and chalcopyrite.

WORK DONE: Surface geological mapping, 1:4800, covering Burn 43-52, 61-68, 70; induced polarization survey, 24 line-kilometres, 120-metre grid spacing, covering Burn 25, 43-52, 61-68; geochemical soil survey, 383 samples, 13 line-kilometres, 120-metre grid spacing, covering Burn 46, 48-52, 61-68.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 452; 1973, p. 369; Assessment Report 5619; MI 93N-107.

BODINE (Fig. E-1, NTS 93, No. 64)

LOCATION: Lat. 55° 37' Long. 125° 48' (93N/12W)
OMINECA M.D. Sixteen kilometres northeast of Takla Landing, at approximately 1 500 metres elevation.

CLAIMS: BODINE 1 to 12, 15 to 31.

OWNER: KENNECO EXPLORATIONS, (WESTERN) LIMITED, 730, 505 Burrard Street, Vancouver.

METALS: Zinc, copper.

DESCRIPTION: Northwesterly striking beds of dacite probably belong to the Cache Creek Group. The volcanic rocks are well foliated, pyritic, and are weakly mineralized with sphalerite, chalcopyrite, and pyrite.

WORK DONE: Surface geological mapping, 1:15 840; electromagnetic survey, 13.8 line-kilometres, 120-metre grid spacing, covering Bodine 3-12, 23, 25-30; geochemical survey, 630 samples, 17.6 line-kilometres, 120-metre grid spacing, covering Bodine 3-12, 23, 25-30.

REFERENCE: MI 93N-180.

TAM, ND (Fig. E-1, NTS 93, No. 69)

LOCATION: Lat. 56° 00' Long. 125° 30' (93N/13E, 14W; 94C/3W, 4E)
OMINECA M.D. Fifty-six kilometres northwest of Germansen Landing, 23 kilometres west-southwest of Uslika Lake, between 1 050 and 2 000 metres elevation.

(93N/13E, 14W)

CLAIMS: TAM 1 to 20, HAM 1 to 8, 10, 12, 14, 23 to 44, 45 to 52, END 13 to 16, REM 4, 6, 11 to 58, 63 to 66, 68, 70, 72, 74, 76, 78, 80, 82, AMP 1 to 13, ND 1 to 8.

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby.

METALS: Copper, silver.

DESCRIPTION: The claims are underlain by Duckling Creek syenite, syenite gneiss, and monzonite, all part of the Hogem batholith. Disseminated chalcopyrite, pyrite, and bornite occur in the syenite.

WORK DONE: Surface geological mapping, 1:4800, covering Rem 35-38, 49, 51, 53 and ND 1, 2, 4-8; induced polarization survey, 15 line-kilometres, 120 by 60-metre grid spacing, covering Rem 33-38; geochemical soil survey, 529 samples, 31.7 line-kilometres, 120 by 60-metre grid spacing, covering Rem 33-38, 49, 51, 53, End 13-20, and ND 1-8; surface diamond drilling, four holes totalling 600 metres on Rem 21, 34, 36.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 281 (Tam) and 292 (ND); MI 93N-93 and 94C-77.

JO ANN (Fig. E-1, NTS 93, No. 65)

LOCATION: Lat. 55° 57' Long. 125° 29' (93N/13E, 14W)
OMINECA M.D. About 52 kilometres northwest of Germansen Landung, 16 kilometres due north of Old Hogem, at approximately 1 500 metres elevation.

CLAIMS: JO ANN 1, 3 to 10, 18, 20 to 48, JO ANN 1 Fraction.

OWNER: Douglas Stelling.

OPERATOR: STELLAC SYNDICATE, 202, 900 West Pender Street, Vancouver.

METAL: Copper.

DESCRIPTION: The property covers the contact between the Duckling Creek syenites and K-feldspar hybrid monzonites and some irregular-shaped pods of feldspathic pyroxenites. Chalcopyrite and bornite occur in monzonite and syenite and are accompanied by pink K-feldspar alteration.

WORK DONE: Prospecting and geochemical soil survey, 156 samples (analysed for copper, molybdenum, and silver), 8.7 line-kilometres, 60 by 120-metre grid spacing, covering Jo Ann 29, 30, 39-44.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 283; Assessment Report 5649; MI 93N-177.

ST, DC (Fig. E-1, NTS 93, No. 66)

LOCATION: Lat. 55° 50' Long. 125° 15' (93N/14)
OMINECA M.D. Sixteen kilometres northeast of Old Hogem, 5 kilometres east of Duckling Creek.

CLAIMS: ST 11 to 16, ME 7 to 10.

(93N/15)

OWNER: CANADIAN SUPERIOR EXPLORATION LIMITED, Box 100,
Smithers.
METAL: Copper.
DESCRIPTION: A satellitic syenite plug of the Hogem batholith intrudes Takla volcanic
rocks. Chalcopyrite occurs along fractures.
WORK DONE: Trenching, 100 metres.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 284; MI 93N-178.

CRY (Fig. E-1, NTS 93, No. 67)

LOCATION: Lat. 55° 56' Long. 124° 44' (93N/15)
OMINECA M.D. Twenty kilometres north of Germansen Landing, at
approximately 1 300 metres elevation.
CLAIMS: CRY 1 to 9, CRIN 1 to 56, CAB 1 to 22.
OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver.
METALS: Lead, zinc.
DESCRIPTION: A number of low-grade lead-zinc showings occur in Middle Devonian
interbedded arenaceous and argillaceous limestones and dolomites.
WORK DONE: Geochemical soil survey, 561 samples (analysed for lead and zinc),
60-metre grid spacing, covering Cry 1-9, Cab 2, 3, 8, 9, 16-22;
linecutting, 3.6 kilometres covering same claims; road construction,
18.35 kilometres, between existing Nina Creek Road and the property
(Crin 3, 4, 6, 7, 12, 13 and Cab 8, 11, 18, 20, 22); trenching, 318
metres, covering Crin 4, 14, 15.
REFERENCES: Assessment Report 5729; MI 93N-181.

PINE PASS 930

JET (Fig. E-1, NTS 93, No. 68)

LOCATION: Lat. 55° 58.5' Long. 123° 34.6' (93O/13E)
OMINECA M.D. Three kilometres southeast of Mount Selwyn, at
elevations of 1 220, 1 560, and 1 810 metres.
CLAIMS: JET 1 to 16, 19 to 62, 65 to 100, 137 to 142, PEACE 1 (units 1 to 6),
PEACE 2 (units 1 to 9).
OWNERS: J. R. Woodcock and Aquitaine Company of Canada Ltd.
OPERATOR: AQUITAINE COMPANY OF CANADA LTD., 540 Fifth Avenue SW.,
Calgary, Alta. T2P 0M4.
METALS: Lead, zinc.
DESCRIPTION: Galena, sphalerite, and smithsonite occur in Devonian (Upper Stone
Formation ?) dolomite.
WORK DONE: Surface geological mapping, 1:10 000, covering Jet 1-15, 19, 23-28, 37,
39-62, 65-92, 94, 95, 97; induced polarization survey, 2.47 line-
kilometres, 100-metre grid spacing, covering Jet 1-3; geochemical soil
survey, 118 samples (analysed for lead and zinc), 293 line-kilometres,
100-metre grid spacing, covering Jet 1-3.
REFERENCES: Assessment Report 5643; MI 93O-15.

NORTHEAST BRITISH COLUMBIA
(NTS Division 94)

HALFWAY RIVER 94B

POCO (Fig. E-1, NTS 94, No. 1)

LOCATION: Lat. 56° 12' Long. 123° 22' (94B/3W)
LIARD M.D. About 20 kilometres north of the Peace River arm of Williston Lake, 4 kilometres north of Mount Burden, at approximately 1 700 metres elevation.

CLAIMS: POCO 27 to 36, KATH 1 to 20, MAUR 1 to 16, MIKE 1 to 10.

OWNER: Union Oil Company of Canada Limited.

OPERATOR: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver V6B 1P2.

METALS: Zinc, lead.

DESCRIPTION: Fine-grained sphalerite and coarse-grained sphalerite and galena occur within dolomitic horizons in the Pine Point Formation, a grey fossiliferous limestone and dolomite unit of Middle Devonian age.

WORK DONE: Surface geological mapping, 1:480, covering Poco 29 and 31 and 1:12 000, covering all claims; geochemical survey, 160 soil samples, 10 line-kilometres, covering all claims and stream sediment samples, 3.9 line-kilometres, covering Poco 27, 29, Kath 7, 9, and Maur 1, 2.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 288; Assessment Report 5490; MI 94B-7, 8.

OSPIKA (Fig. E-1, NTS 94, No. 2)

LOCATION: Lat. 56° 21' Long. 123° 46' (94B/5W)
OMINECA M.D. Eleven kilometres east of Ospika River, 2 kilometres north of Gauvreau Creek, at approximately 1 830 metres elevation.

CLAIMS: OSPIKA 1 (units 1 to 16), OSPIKA 2 (units 1 to 20), OSPIKA 3 (units 1 to 6).

OWNER: J. R. Woodcock.

OPERATOR: AQUITAINE COMPANY OF CANADA LTD., 540 Fifth Avenue SW., Calgary, Alta.

METAL: Zinc.

DESCRIPTION: Sphalerite and smithsonite occur in Silurian (?) limestone and dolomite.

WORK DONE: Geochemical survey (detailed silt sampling), 126 samples, covering Ospika 1 (units 5-16), Ospika 2 (units 1-4, 7-15, 17, 18), and Ospika 3 (units 2-6).

REFERENCE: MI 94B-18.

(94B/5E, 6W)

CYN (Fig. E-1, NTS 94, No. 4)

LOCATION: Lat. 56° 16' Long. 123° 31' (94B/5E, 6W)
LIARD and OMINECA M.D. Headwaters of the most northerly branch of the west Nabesche River.

CLAIMS: CYN, BRIN, VALE, totalling approximately 175.

OWNER: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver V6B 1P2.

METALS: Zinc, lead.

DESCRIPTION: Sedimentary rocks (mainly limestones, dolomites, and sandstone), ranging from the Ordovician Kechika Group to the Mississippian Prophet River Formation, are present in the area. Brecciation is not extensive, but sphalerite was noted in shaly limestones of the Besa River Formation.

WORK DONE: 1974 – surface geological mapping, 1:4800 and 1:9600; stream sediment sampling (analysis for lead and zinc); prospecting over an area of 21 square metres, covering approximately 70 claims.

REFERENCES: Assessment Report 5470; MI 94B-19.

BRIN (LAURIER BLOCK) (Fig. E-1, NTS 94, No. 3)

LOCATION: Lat. 56° 42' Long. 123° 36' (94B/12E)
LIARD M.D. Eight kilometres east-southeast of Lady Laurier Lake, at the headwaters of the Graham River.

CLAIMS: BRIN, SEP, WEST, SMITH, totalling approximately 165.

OWNER: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver V6B 1P2.

METALS: Lead, zinc.

DESCRIPTION: The oldest rocks underlying the property are dolomites of the Silurian Nonda Formation. Devonian to Mississippian units are represented by the Stone, Dunedin, and Besa River Formations. Two significant showings and several minor occurrences of sphalerite and galena occur within brecciated dolomites of the Dunedin Formation.

WORK DONE: 1974 – prospecting and surface geological mapping, 1:12 000, covering Smith 1-3 and Brin 369-373, 386-391, 400-403, 416-419, 427, 428; surface geological mapping, 1:4800; geochemical survey, 387 stream sediment samples (analysed for lead and zinc); surface diamond drilling, one Winkie hole totalling 48 metres; and prospecting of local mineralized areas, covering approximately 80 claims.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1973, p. 387; Assessment Reports 5370, 5468; MI 94B-15.

(94B/12E)

LINDA, ACE (Fig. E-1, NTS 94, No. 5)

LOCATION: LINDA 1 to 16, 26, 27, 31, 32 and ACE 61 to 70, 93 to 100 –
Lat. 56° 42' Long. 123° 44' (94B/12E)
LIARD M.D. About 1.5 kilometres northeast of Lady Laurier Lake, at
approximately 1 800 metres elevation.
ACE 31, 33, 35, 37, 39, 51 to 60, 85 to 90 –
Lat. 56° 41' Long. 123° 42' (94B/12E)
LIARD M.D. On Reef Mountain, 1.5 kilometres east of Lady Laurier
Lake, at approximately 1 800 metres elevation.

CLAIMS: LINDA 1 to 16, 26, 27, 31, 32, ACE 31, 33, 35, 37, 39, 51 to 70, 85 to
90, 93 to 100.

OWNER: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602
West Hastings Street, Vancouver V6B 1P2.

METALS: Lead, zinc.

DESCRIPTION: Weakly developed gossan zones in light grey, massive, strongly
recrystallized dolomite of the lower Middle Devonian Stone Formation
contain minor sphalerite.

WORK DONE: Surface geological mapping, 1:25 000, covering all claims; geochemical
survey, 53 rock samples, 3.2 line-kilometres, 30 by 60-metre grid
spacing, covering Ace 53-58, 87.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 289; MI 94B-14.

ROBB LAKE (Fig. E-1, NTS 94, No. 6)

LOCATION: Lat. 56° 56' Long. 123° 45' (94B/13)
LIARD M.D. Seven kilometres northeast of Robb Lake, at the
headwaters of the Halfway River, between 1 500 and 2 000 metres
elevation.

CLAIMS: BELL, BM, CLEO, FBW, FG, JOSH, KIM, MART, MV, NMW, NORM,
REX, ROB, UNION, totalling approximately 440.

OWNERS: Texasgulf Canada Ltd., Arrow Inter-America Corporation, and Barrier
Reef Resources Ltd.

OPERATOR: ROBB LAKE JOINT VENTURE, c/o 701, 1281 West Georgia Street,
Vancouver V6E 3J7.

METALS: Lead, zinc.

DESCRIPTION: Galena, sphalerite, and pyrite occur in brecciated dolomite of the Stone
Formation.

WORK DONE: Surface geological mapping, 1:2400, covering the area near drill holes;
surface diamond drilling, 14 holes totalling 734 metres on MV 5, 23,
55, Cleo 117, 132, Rex 14 Fraction.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 289; Assessment
Report 5705; MI 94B-5.

FORT GRAHAME 94C

WEBER (Fig. E-1, NTS 94, No. 7)

LOCATION: Lat. 56° 07' Long. 125° 03' (94C/3E)
 OMINECA M.D. Two kilometres northeast of Wasi Lake, on the north side of Wasi Creek, at approximately 1 100 metres elevation.

CLAIMS: CARIE 1 to 10, 12, 14 to 32.

OWNER: Douglas Stelling.

OPERATOR: STELLAC SYNDICATE, 202, 900 West Pender Street, Vancouver.

METALS: Lead, zinc.

DESCRIPTION: Galena and sphalerite, with lesser amounts of barite, occur in brecciated Middle Devonian dolomite.

WORK DONE: Geochemical soil survey, 140 samples, 4.1 line-kilometres, 30 by 60-metre grid spacing, covering Carie 1, 3, 28, 30.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 290; Assessment Report 5647; MI 94C-24.

VEGA, DAVE (Fig. E-1, NTS 94, No. 8)

LOCATION: Lat. 56° 08' Long. 125° 20' (94C/3W)
 OMINECA M.D. Extending from 3.2 kilometres west of the northern end of Uslika Lake to 9.6 kilometres north-northwest of Uslika Lake, between 1 200 and 1 350 metres elevation.

CLAIMS: BEG 1 to 100, RON 1 and 2, BEG 102 (15 units), BEG 103 (20 units), BEG 104 (6 units).

OWNERS: BP MINERALS LIMITED, 1199 West Pender Street, Vancouver V6E 2R1.

METALS: Copper, gold.

DESCRIPTION: Pyrite and minor chalcopyrite occur as disseminations and as fracture fillings in Takla Group volcanoclastic rocks which are intruded by diorite and monzonite dykes of Upper Triassic age.

WORK DONE: Airborne magnetometer survey, 120 line-kilometres, 0.4 kilometre grid spacing; geochemical soil survey, 204 samples, 12 line-kilometres, 240-metre grid spacing; and linecutting, 12 kilometres, covering Beg 102, 103, 104; surface diamond drilling, nine holes totalling 1 600 metres on Ron 1, 2 and Beg 23, 27, 41; surface geological mapping, 1:12 000; induced polarization survey, 7.5 line-kilometres, 240-metre grid spacing; airborne magnetometer survey, 121.6 line-kilometres, 0.4-kilometre grid spacing; geochemical soil survey, 162 samples, 7.5 line-kilometres, 120 and 240-metre grid spacing; and linecutting, 8.4 kilometres, covering Beg 77-98.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 291; Assessment Reports 5257, 5663; MI 94C-21, 43, 76.

(94C/3W)

BETTY (Fig. E-1, NTS 94, No. 10)

LOCATION: Lat. $56^{\circ} 04'$ Long. $125^{\circ} 22'$ (94C/3W)
OMINECA M.D. Three and one-fifth kilometres northeast of Haha Creek-Oslinka River confluence, at approximately 1 500 metres elevation.

CLAIMS: CAT 1 (14 units), CAT 2 (14 units).

OWNER: BP MINERALS LIMITED, 1199 West Pender Street, Vancouver V6E 2R1.

METALS: Copper, gold.

DESCRIPTION: Pyrite, magnetite, chalcopyrite, malachite, and gold occur in fault-controlled veins in Takla Group volcanic rocks and Omineca intrusions.

WORK DONE: Surface geological mapping, 1:4800, covering all claim units; induced polarization survey, 7.5 line-kilometres, 120 and 240-metre grid spacing, covering Cat 1 (units 1-3, 13-15) and Cat 2 (units 1-6); ground magnetometer survey, 48 line-kilometres, 120-metre grid spacing; airborne magnetometer survey, 109 line-kilometres, 0.4-kilometre grid spacing; geochemical soil survey, 637 samples, 48 line-kilometres, 120 and 240-metre grid spacing, covering all claim units; topography mapped, 1:4800; linecutting, 48 line-kilometres, covering all claim units.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 290; MI 94C-69.

TAM, ND (Fig. E-1, NTS 93, No. 71)

LOCATION: Lat. $56^{\circ} 00'$ Long. $125^{\circ} 30'$ (93N/13E; 94C/3W, 4E)
Report on this property in NTS 93.

GRANITE BASIN (Fig. E-1, NTS 94, No. 12)

LOCATION: Lat. $56^{\circ} 29'$ Long. $125^{\circ} 52'$ (94C/5W)
OMINECA M.D. About 9.5 kilometres northwest of Aiken Lake, on the south side of Lay Creek valley, between 1 200 and 1 800 metres elevation.

CLAIMS: SUSIE 1 to 6, 8, 17, 19, SUSIE 21 to 23 Fractions.

OWNER: D. Stelling.

OPERATOR: SUSIE GOLD MINES LTD., 103, 325 Howe Street, Vancouver.

METALS: Gold, silver.

DESCRIPTION: The property is underlain by volcanic flows and clastic and sedimentary rocks of the Takla Group, which have been intruded by a number of small dioritic bodies of the Omineca Intrusions. Gold and silver mineralization occurs in east-west-trending shear systems.

WORK DONE: 1974 — prospecting on Susie 4 and 17; 10 continuous chip samples taken across the shear zones; nine soil samples taken along Susie 3-4 claim line; 1975 — geochemical soil survey, 360 samples, 7.8 line-kilometres, 15 by 30-metre grid spacing, covering Susie 3, 5, 6 and

(94C/5E)

Susie 22 Fraction; road construction, 4 line-kilometres on Susie 2-4 and Susie 21 Fraction (between Johanson Lake Road and the adit on Susie 4).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 397; Assessment Report 5423; MI 94C-9.

HOPE (Fig. E-1, NTS 94, No. 11)

LOCATION: Lat. 56° 22' Long. 125° 19' (94C/5E)
OMINECA M.D. In the Mesilinka River area, 5 kilometres northeast of Blackpine Lake, at approximately 1 800 metres elevation.

CLAIMS: TEDDY 1 to 3, DENT 1 to 18.

OWNER: UNION CARBIDE CANADA MINING LTD., 404, 1112 West Pender Street, Vancouver V6E 2S1.

METALS: Tungsten, gold.

DESCRIPTION: Arsenopyrite and scheelite in gossan occur in quartz mica feldspar schists which are interbedded with quartz mica feldspar gneiss of the Wolverine Complex.

WORK DONE: Surface geological mapping, 1:60 000 and 1:600, covering all claims.

REFERENCE: MI 94C-14.

MES (Fig. E-1, NTS 94, No. 13)

LOCATION: Lat. 56° 25' Long. 125° 37' (94C/5E)
OMINECA M.D. Three and one-fifth kilometres east of Aiken Lake, at approximately 1 000 metres elevation.

CLAIMS: MES 1 (20 units), MES 2 (8 units), MES 3 (8 units), MES 4 (2 units).

OWNER: BP MINERALS LIMITED, 1199 West Pender Street, Vancouver V6E 2R1.

METAL: Copper.

DESCRIPTION: Fractures filled by pyrite and minor chalcopyrite occur in Takla Group volcanic rocks which are intruded by quartz monzonite of the Omineca Intrusions.

WORK DONE: Induced polarization survey, 12.08 line-kilometres, 300-metre grid spacing, covering all claim units.

REFERENCE: MI 94C-81.

McCONNELL CREEK 94D

SPUR (Fig. E-1, NTS 94, No. 14)

LOCATION: Lat. 56° 02' Long. 126° 49' (94D/2W)
OMINECA M.D. Four kilometres west of the south end of Bear Lake, at approximately 1 800 metres elevation.

CLAIMS: SPUR 1 to 16.

(94D/3E)

OWNER: CANADIAN NICKEL COMPANY LIMITED, Copper Cliff, Ontario
POM 1N0.
METAL: Copper.
DESCRIPTION: Chalcocite, bornite, and minor chalcopyrite occur in Takla Group basic to intermediate volcanic and intercalated volcanoclastic sedimentary rocks.
WORK DONE: Surface geological mapping, 1:1200 and geochemical soil survey, 150 samples, 4.5 line-kilometres, 60-metre grid spacing, covering Spur 1-4, 6, 9, 11; linecutting, 11.55 kilometres on Spur 1-6, 9-14.
REFERENCES: Assessment Report 5681; MI 94D-103.

RED (Fig. E-1, NTS 94, No. 15)

LOCATION: Lat. 56° 13' Long. 127° 09' (94D/3E)
OMINECA M.D. Nineteen kilometres west-northwest of Bear Lake, adjacent to the Squingula River, between 1 200 and 1 500 metres elevation.
CLAIMS: RED 1 to 20, 31 to 38, 44 to 53, 63 to 95, 149 to 155, 166, 168, 212 to 215.
OWNER: CANADIAN SUPERIOR EXPLORATION LIMITED, Box 100, Smithers.
METALS: Copper, silver.
DESCRIPTION: Lower Jurassic limestone lies within a cataclastic unit of tuffs and conglomerates adjacent to a volcanic pile with an interpreted volcanic centre. Chalcopyrite, bornite, and chalcocite occur as disseminations and stringers within the limestone.
WORK DONE: Linecutting and induced polarization survey, 19.2 line-kilometres, 120-metre grid spacing, covering Red 1-10, 12, 14, 16, 18, 20, 39-51.
REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1973, p. 404; Assessment Report 5552; MI 94D-104.

MONA-JEAN (Fig. E-1, NTS 94, No. 18)

LOCATION: Lat. 56° 17' Long. 126° 17' (94D/8W)
OMINECA M.D. In Sikanni Range, 3 kilometres northeast of Mount Carruthers, at approximately 1 800 metres elevation.
CLAIMS: MONA-JEAN 1 to 6, MONA-JEAN 1 Fraction.
OWNER: ROBERT M. TAIT, 1214 Eastview Road, North Vancouver.
METAL: Copper.
DESCRIPTION: Chalcocite is disseminated throughout a zone of highly silicified red andesite.
WORK DONE: Prospecting on Mona-Jean 1-5; six trenches, approximately 25 metres, and three pits.
REFERENCES: Assessment Report 5563; MI 94D-106.

(94D/7W, 10W)

DAY

LOCATION: Lat. 56° 30' Long. 126° 47' (94D/7W, 10W)
Report on this property in *Geology in British Columbia, 1975*.

MAR (Fig. E-1, NTS 94, No. 19)

LOCATION: Lat. 56° 17' Long. 126° 24' (94D/8W)
OMINECA M.D. Thirty-seven kilometres south-southwest from Johanson Lake, in the Sikanni Range, 4 kilometres northwest of Mount Carruthers.

CLAIMS: MAR, LEN, totalling approximately 50.

OWNER: PECHINEY DEVELOPMENT LIMITED, 701, 744 West Hastings Street, Vancouver.

METAL: Copper.

DESCRIPTION: Chalcopyrite, chalcocite, bornite, and pyrite occur as disseminations and in fractures in Takla Group tuffaceous argillites and pyroclastic rocks.

WORK DONE: Surface diamond drilling, three BQ holes totalling 500 metres on Mar 3.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 301; Assessment Reports 5521, 5569. MI 94D-93.

SOUP (Fig. E-1, NTS 94, No. 16)

LOCATION: Lat. 56° 28' Long. 126° 04' (94D/8E)
OMINECA M.D. Twenty-two kilometres east-southeast of Sustut Lake, at the headwaters of Kliyul (Miller) Creek.

CLAIMS: SOUP 1 to 10.

OWNER: E. V. WHITE, 311 Cedar Mews, 888 No. 1 Road, Richmond.

METALS: Copper, iron, gold.

DESCRIPTION: A conformable magnetite skarn occurs in Upper Takla Group rocks. Oxidized zones within the skarn contain pyrite and chalcopyrite.

WORK DONE: Mineralographic survey of surface and drill-hole specimens covering Soup 2, 3, and 10.

REFERENCES: Assessment Report 5562; MI 94D-105.

BAP (Fig. E-1, NTS 94, No. 17)

LOCATION: Lat. 56° 29' Long. 126° 05' (94D/8E)
OMINECA M.D. Eleven and one-fifth kilometres south-southeast of Johanson Lake, at approximately 1 800 metres elevation.

CLAIMS: BAP 5, 8 to 19, 21 to 23, 25, 26, 30, 34.

OWNER: BP MINERALS LIMITED, 1199 West Pender Street, Vancouver V6E 2R1.

METALS: Copper, zinc, lead.

(94E/2W, 6E, 7W)

OPERATOR: GETTY MINES, LIMITED, 622, 510 West Hastings Street, Vancouver.
METAL: Copper.
DESCRIPTION: Copper and pyrite mineralization occurs as disseminations and in fracture fillings in andesites of the Takla Group which have been intruded by granodiorite and diorite of the Omineca-Cassiar batholith.
WORK DONE: Surface geological mapping, 1:4720, covering New Kemess 1 (units 1-5, 12-15, 20, 21) and New Kemess 2 (units 1, 13-20, 24-27); geochemical soil survey, 69 samples, 2 line-kilometres, 120-metre grid spacing, covering New Kemess 1 (units 3, 12, 21) and New Kemess 2 (unit 17); surface diamond drilling, five holes totalling 580 metres on New Kemess 1 (unit 3) and New Kemess 2 (unit 17).
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 64; Assessment Report 5748; MI 94E-21.

SHAS (Fig. E-1, NTS 94, No. 29)

LOCATION: Lat. 57° 15' Long. 127° 00' (94E/2W, 6E, 7W)
OMINECA M.D. Two kilometres north and east of Black Lake, south of the Toodoggone River, at approximately 1 260 metres elevation.
CLAIMS: SHAS 31, 33, 35 to 38, SHA 1 (6 units), SHA 2 (2 units).
OWNER: INTERNATIONAL SHASTA RESOURCES LTD., 1785, 777 Hornby Street, Vancouver V6Z 1S4.
METALS: Gold, silver.
DESCRIPTION: The claims are underlain by porphyritic flows and pyroclastic rocks and minor sedimentary rocks, assigned to the Toodoggone volcanic formation. Six separate units were defined. Quartz veining with associated quartz stockworks occur in altered tuffs. Fine dusting of pyrite is present throughout the altered tuff.
WORK DONE: Surface geological mapping, 1:4800, covering all claims.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 311; Assessment Report 5559; MI 94E-50.

RIGA (Fig. E-1, NTS 94, No. 26)

LOCATION: Lat. 57° 12' Long. 126° 55' (94E/2W)
OMINECA M.D. Fifteen kilometres north of Thutade Lake, on the north face of Drybrough Peak, between 1 500 and 2 100 metres elevation.
CLAIMS: RN 1 to 36.
OWNER: MINAS DE CERRO DORADO LTD., 101, 325 Howe Street, Vancouver V6C 1Z7.
METALS: Copper, molybdenum.
DESCRIPTION: The property is underlain by Omineca intrusions and Takla Group volcanic rocks with minor limestone. Copper-molybdenum mineralization is found along zones of weakness in the intrusive rocks.

(94E/6E)

WORK DONE: Geochemical soil survey, 333 samples, 19.74 line-kilometres, 60-metre grid spacing, covering RN 1-17, 19, 21, 23, 25-28.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 456; MI 94E-3, 4.

CHAPPELLE (Fig. E-1, NTS 94, No. 28)

LOCATION: Lat. 57° 17' Long. 127° 06' (94E/6E)

OMINECA M.D. Thirty kilometres northwest of Thutade Lake.

CLAIMS: CHAPPELLE, totalling 168.

OWNER: Kennco Exploration, (Western) Limited.

OPERATOR: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver.

METALS: Gold, silver.

DESCRIPTION: Volcanic rocks of the Takla Group are cut by a northeast-trending quartz vein. The vein averages 3 metres in width and contains gold and silver, as electrum and argentite, in economic grade.

WORK DONE: Surface geological mapping, 1:1200, covering Chappelle 1-22, 34, 36, 43, 44, 56; magnetometer survey, 48 line-kilometres, covering Chappelle 1-22, 34, 36, 43, 44, 56; geochemical soil survey, 150 samples, 0.8 line-kilometre, covering Chappelle 6; surface diamond drilling, 24 holes totalling 2 600 metres on Chappelle 3, 4, 6 20, 27; road construction, 1.2 kilometres on Chappelle 1, 3, 27, 28 (between diamond-drill hole 75-8 and 75-15).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 312; Assessment Report 5667; MI 94E-26; *see also* Geology in British Columbia, 1975.

SAUNDERS (LAWYERS) (Fig. E-1, NTS 94, No. 27)

LOCATION: Lat. 57° 18' Long. 127° 12' (94E/6E)

OMINECA M.D. Forty kilometres northwest of Thutade Lake, 9 kilometres southwest of Toodoggone Lake, at approximately 1 750 metres elevation.

CLAIMS: NEW LAWYERS 1 (units 1 to 5, 12 to 21, 23 to 27), NEW LAWYERS 2 (units 1 to 3, 14 to 19, 25 to 27), NEW LAWYERS 3 (units 1 and 2, 15 to 18, 26, 27), NEW LAWYERS 4 (units 1 to 4, 13 to 16), LAWYERS 10, 12, 35 to 38, 55 to 74, 79, 88, 90, 92, 94, 96, 121, 122.

OWNER: KENNCO EXPLORATIONS, (WESTERN) LIMITED, 730, 505 Burrard Street, Vancouver V7X 1M4.

METALS: Silver, gold.

DESCRIPTION: Very finely disseminated argentite, native silver, and electrum occur in a quartz-filled fissure breccia hosted in trachyte porphyry flows of the Toodoggone volcanic rocks.

(94E/11)

WORK DONE: Geochemical survey, 65 samples, 0.5 line-kilometre, 15-metre grid spacing and 713 samples, 6 line-kilometres, variable grid spacing; surface diamond drilling, six holes totalling 521 metres on New Lawyers 1 (units 18, 19, 25) and New Lawyers 4 (unit 2); surface workings mapped, 1:1200.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 312; Assessment Report 5825; MI 94E-17; *see also* Geology in British Columbia, 1975.

CLAW (Fig. E-1, NTS 94, No. 30)

LOCATION: Lat. 57° 37' Long. 127° 19' (94E/11)
LIARD M.D. Nineteen kilometres west of Chukachida Lake, 5.6 kilometres northwest of Moosehorn Lake, at approximately 2 000 metres elevation.

CLAIMS: CLAW 1 to 20, 25 to 36, 43 to 52, 57, 59, 61, 63, 65 to 77.

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

METALS: Copper, silver.

DESCRIPTION: Bornite, chalcopyrite, chalcocite, pyrite, native copper, and chrysocolla occur in Takla Group volcanic rocks.

WORK DONE: Surface diamond drilling, seven holes totalling 1 483 metres on Claw 5, 6, 7, 8.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 314; Assessment Reports 5635, 5657; MI 94E-46.

HAR (Fig. E-1, NTS 94, No. 25)

LOCATION: Lat. 57° 32' Long. 127° 12' (94E/11E)
OMINECA M.D. Six and two-fifth kilometres south of Moosehorn Lake, at approximately 1 800 metres elevation.

CLAIMS: HAR 2, 3, and 5.

OWNER: KENNCO EXPLORATIONS, (WESTERN) LIMITED, 730, 505 Burrard Street, Vancouver V7X 1M4.

METALS: Zinc, lead, copper.

DESCRIPTION: Sphalerite, galena, pyrite, chalcopyrite, and malachite occur in a narrow, westerly striking, quartz-carbonate seam cutting intermediate to basic Takla volcanic rocks.

WORK DONE: Geochemical survey, eight rock chip samples, 0.5 line-kilometre, covering Har 2 and 3.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 314; Assessment Report 5820; MI 94E-53.

(94E/11W)

JIMO (Fig. E-1, NTS 94, No. 31)

LOCATION: Lat. $57^{\circ} 37'$ Long. $127^{\circ} 27'$ (94E/11W)
LIARD M.D. Approximately 12 kilometres west of Mount McNamara.

CLAIMS: JIMO 1 to 43.

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION
LIMITED, 200, 4299 Canada Way, Burnaby V6G 1H4.

METAL: Copper.

DESCRIPTION: Chalcocite and malachite occur in fractures in or near the basal part of a porphyritic andesite unit, especially near its contact with volcaniclastic rocks.

WORK DONE: 1974 — surface geological mapping, 1:18 000 and geochemical soil survey, 70 samples, 150-metre intervals along four reconnaissance lines, covering Jimo 1-16, 18-29, 31.

REFERENCES: Assessment Report 5434; MI 94E-54.

WARE 94F

SPA (STAG) (Fig. E-1, NTS 94, No. 32)

LOCATION: Lat. $57^{\circ} 58'$ Long. $125^{\circ} 44'$ (94F/13)
LIARD M.D. Approximately 2 kilometres due west from the northernmost lake of a series, near the headwaters of the south Gataga River, between 1 000 and 2 000 metres elevation.

CLAIMS: LYNN (units 1 to 3, 14 to 19).

OWNER: Douglas Stelling.

OPERATOR: STELLAC SYNDICATE, 202, 900 West Pender Street, Vancouver.

METALS: Zinc, barite, vanadium, silver.

DESCRIPTION: The claims are underlain by Ordovician organic shales and some dolomitic limestone. Sylvanite-bearing quartz float was found in the vicinity of a large, spectacular, zinc-bearing gossan.

WORK DONE: Geochemical survey, 87 soil samples and 3 silt samples, 2.5 line-kilometres, 30 by 30-metre grid spacing, covering Lynn 1, 15, 16, and 18.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 71; MI 94F-3.

TRUTCH 94G

LAD, LASS (Fig. E-1, NTS 94, No. 34)

LOCATION: Lat. $57^{\circ} 05'$ Long. $123^{\circ} 53'$ (94G/4W)
LIARD and OMINECA M.D. Twenty-three kilometres north of Robb Lake, on the eastern slope of Mount McCusker, at approximately 1 800 metres elevation.

(94G/4W)

CLAIMS: LAD 1 to 8, 27 to 38, 53 to 62, 64, 80, 82, 83, 118, 129 to 133, 137 to 140, 142 to 150, LASS 6 and 8, EL DORADO 1 to 52.
OWNER: Zenith Mining Corporation Ltd.
OPERATOR: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver V6B 1P2.
METAL: Zinc.
DESCRIPTION: Crystalline sphalerite is disseminated within the sparry white dolomite matrix of a synsedimentary dolomitic breccia.
WORK DONE: Surface geological mapping, 1:12 000 and geochemical survey, 98 stream sediment samples, 5.9 line-kilometres, covering all claims.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 315; Assessment Reports 5328, 5725; MI 94G-14.

NEIL (JR) (Fig. E-1, NTS 94, No. 33)

LOCATION: Lat. 57° 06' Long. 123° 46' (94G/4W)
LIARD M.D. On the east-northeast flank of Mount McCusker, on Embree Creek.
CLAIMS: JR, MARK, totalling approximately 45.
OWNER: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver V6B 1P2.
METAL: Zinc.
DESCRIPTION: Stone Formation dolomite in the core of a dome is enclosed by Dunedin Formation dolomite and Besa River shale. The dome is overridden from the west by successive through plates of Stone and Nonda dolomite. Dolomite breccia along the first thrust west of the dome is healed with white sparry dolomite, which carries reddish brown sphalerite over approximately 1 metre.
WORK DONE: 1974 – prospecting, covering JR 1-10, 21-33, 35, 42 and Mark 3, 4.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 465; Assessment Report 5350; MI 94G-5.

TOLL (BERTHA) (Fig. E-1, NTS 94, No. 35)

LOCATION: Lat. 57° 08.5' Long. 123° 46' (94G/4W)
LIARD M.D. Ten kilometres east-northeast of Mount McCusker, east of Bartle and Embree Creeks.
CLAIMS: BRIN, TOLL, ASP, totalling approximately 60.
OWNER: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver V6B 1P2.
METALS: Zinc, lead.
DESCRIPTION: Sphalerite occurs in banded layers, finely disseminated grains, and as discontinuous stringers in dark grey dolomites of the Devonian Pine Point Formation.

(94G/4W, 5W)

WORK DONE: Prospecting and a Winkie drill program (eight holes totalling 480 metres), covering Toll 18, 19, 20-25.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 466; Assessment Report 5469; MI 94G-15.

TRI (Fig. E-1, NTS 94, No. 38)

LOCATION: Lat. 57° 15' Long. 123° 52' (94G/4W, 5W)

LIARD M.D. Nine kilometres south of Redfern Lake, at approximately 1 650 metres elevation.

CLAIMS: TRI 21 to 66. 75. 76. 85.

OWNER: AQUITAINE COMPANY OF CANADA Ltd., 540 Fifth Avenue SW., Calgary, Alta.

METALS: Lead, zinc, copper.

DESCRIPTION: Blebs of galena, sphalerite, and chalcopryrite occur in veins with barite and calcite in grey fossiliferous limestone of the Dunedin Formation of Devonian age.

WORK DONE: Geochemical soil survey, 1 100 samples, 27 line-kilometres, 50 by 25-metre grid spacing, covering Tri 31-40, 51-64.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 316; Assessment Report 5407; MI 94G-7.

EGG, FOO (Fig. E-1, NTS 94, No. 36)

LOCATION: Lat. 57° 22' Long. 123° 49' (94G/5W)

LIARD M.D. Immediately north of the east end of Redfern Lake, extending for 5 kilometres, between 1 200 and 2 100 metres elevation.

CLAIMS: EGG 1 to 22, FOO 1 to 25, VISTA 1 to 5, CHILLY 1 to 36, DAMN 1 to 20, TYR 1 to 43.

OWNER: Vester Explorations Ltd.

OPERATOR: RIO TINTO CANADIAN EXPLORATION LIMITED, 615, 555 Burrard Street, Vancouver V7X 1M8.

METALS: Zinc, lead, barite, calcite.

DESCRIPTION: Sphalerite and lesser amounts of galena and minor copper minerals are disseminated in dolomitized and/or silicified limestone and around the edges of the barite-calcite masses.

WORK DONE: Surface geological mapping, 1:12 000, covering all claims; geochemical soil survey, 144 samples, 4.4 line-kilometres, 30 by 120-metre grid spacing and 246 samples, 14.3 line-kilometres, 60 by 120-metre grid spacing, covering Tyr 9, 11, 13, 19, 21 and Egg 5-8.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 315; Assessment Report 5551; MI 94G-2.

(94G/5W)

KEI (Fig. E-1, NTS 94, No. 37)

LOCATION: Lat. 57° 25' Long. 123° 50' (94G/5W)
LIARD M.D. Eleven kilometres north-northeast of the east end of Redfern Lake, on Petrie Creek, at approximately 1 650 metres elevation.

CLAIMS: KEI 2 to 4, 8 to 10, 15 to 17, 19 to 24, 29 to 40, 45 to 56, 61 to 70, 79 to 86, 91 to 95, 97, 98, 103 to 154.

OWNER: AQUITAINE COMPANY OF CANADA LTD., 540 Fifth Avenue SW., Calgary, Alta.

METALS: Lead, zinc.

DESCRIPTION: A folded sequence of Muncho-McConnell and Stone Formation dolomites, sandy dolomites, and Dunedin limestones and dolomites is thrust eastward over Besa River shale. South of Petrie Creek Dunedin dolomite, just above the thrust, contains finely disseminated galena and sphalerite.

WORK DONE: Surface geological mapping (structural analysis), covering Kei 65-70, 79-86, 103-154; induced polarization survey, 8 line-kilometres, variable grid spacing, covering Kei 111-110, 123-133.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 316; MI 94G-9.

TUCHODI LAKES 94K

PJ (Fig. E-1, NTS 94, No. 39)

LOCATION: Lat. 58° 09' Long. 125° 16' (94K/3W)
LIARD M.D. Nine kilometres south-southwest of Churchill Peak, on the upper reaches of the Gataga River, between 1 700 and 2 075 metres elevation.

CLAIMS: PJ 5 to 20, 37 to 52, 54, 56, 58, 60, 83 to 110, SYBIL 1 to 6, ANDREW 17 to 20.

OWNER: BRALORNE RESOURCES LIMITED, 2910 Bow Valley Square, 205 Fifth Avenue SW., Calgary, Alta.

METAL: Copper.

DESCRIPTION: Bedrock exposed on the property consists of light grey-brown to dark grey-weathering dolomites, mudstones, and siltstones of the Proterozoic Aida and Gataga Formations. The rocks are generally well cleaved and are locally cut by northeast to northwest-trending diabase dykes up to 60 metres in thickness. Mineralization consists of a number of chalcopyrite-bearing quartz-carbonate veins ranging in thickness from 0.3 to 1.5 metres.

WORK DONE: Surface geological mapping, 1:5000, covering PJ claims; geochemical survey, 113 soil samples and 17 stream silt samples, 12 line-kilometres, 150-metre grid spacing, covering PJ 7-10, 39-44, 85-90; topography mapped, 1:5000.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 47; MI 94K-19 (Book), 28, 41, 42, 50 (Davis), 51 (Book).

(94K/4W)

D, P (Fig. E-1, NTS 94, No. 40)

LOCATION: Lat. $58^{\circ} 04'$ Long. $125^{\circ} 55'$ (94K/4W)
LIARD M.D. Head of driftpile Creek, 22.4 kilometres from confluence with Kechika River, at approximately 1 800 metres elevation.

CLAIMS: D 1 to 54, P 1 to 54, G 1 to 54, GOOF 1 to 5 Fractions.

OWNERS: Canex Placer Limited, General Crude Oil Company Northern Ltd., and Pembina Pipe Line Ltd.

OPERATOR: CANEX PLACER LIMITED, 800, 1030 West Georgia Street, Vancouver.

METALS: Lead, zinc, barite.

DESCRIPTION: Fine-grained stratabound galena, sphalerite, barite, and pyrite mineralization occurs in a black shale of the Kechika Group.

WORK DONE: Surface geological mapping, 1:4800, covering D 1-54 and P 1-54; VLF EM, shootback EM, and magnetometer survey, 23.7 line-kilometres, 120-metre grid spacing, covering D 1-54 and P 1-54; geochemical soil survey, 624 samples, 21.9 line-kilometres, 120-metre grid spacing, covering D 1-12, 37-54; trenching, 401.66 cubic metres on D2, 19, 21, 41 and P 19, 22, 23.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 317; MI 94K-66.

MAGNUM MINE

LOCATION: Lat. $58^{\circ} 31'$ Long. $125^{\circ} 24'$ (94K/11W)
Report on this property in *Mining in British Columbia, 1975*.

WEST CENTRAL BRITISH COLUMBIA
(NTS Division 103)

MORESBY ISLAND 103B, C

JACQ (Fig. E-1, NTS 103, No. 1)

LOCATION: Lat. 52° 45' Long. 132° 03' (103C/9E)
SKEENA M.D. Southwest Gowing Island, Fairfax Inlet, Tasu Sound,
Queen Charlotte Islands, adjoining the Tasu mine, at approximately
300 metres elevation.

CLAIM: JACQ Fraction.

OWNER: R. W. Smith.

OPERATOR: WESFROB MINES LIMITED, 504, 1112 West Pender Street,
Vancouver.

METALS: Iron, copper.

DESCRIPTION: Pyrite, magnetite, and chalcopryite mineralization occurs near the
contact of the Mid or Upper Jurassic Yakoun volcanic rocks with
limestone formations.

WORK DONE: Surface geological mapping, 1:2400; percussion drilling, 60 metres;
claims surveyed, 1:500; linecutting, 0.42 kilometres, on Jacq Fraction.

REFERENCE: Assessment Report 5727.

TASU MINE

LOCATION: Lat. 52° 45' Long. 132° 03' (103C/16E)
Report on this property in *Mining in British Columbia, 1975*.

GRAHAM ISLAND 103F and parts of 103 G, J, and K

BABE (Fig. E-1, NTS 103, No. 2)

LOCATION: Lat. 53° 32' Long. 132° 13' (103F/9E)
SKEENA M.D. Forty kilometres by road from Port Clements at the
end of MacMillan Bloedel logging road Branch 42, 0.5 kilometre north
of Yakoun River, at approximately 150 metres elevation.

CLAIMS: BABE 1 to 32, RIC 1 to 10, BRE 1 to 50.

OWNER: Silver Standard Mines Limited.

OPERATOR: QUINTANA MINERALS CORPORATION, 1215 Two Bentall Centre,
Vancouver.

METAL: Gold.

DESCRIPTION: Gold, locally visible, occurs in quartz veins in a siliceous hornfels.

(103G/4E)

WORK DONE: Surface diamond drilling, five BQ holes totalling 690 metres on Babe 5, 7, 9, 10, and 12; road construction, 0.6 kilometre between existing tractor roads and drillsites (Babe 5, 7, 9, 10).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 322; Assessment Report 5417; MI 103F-G-34.

BELLA, MARINO (Fig. E-1, NTS 103, No. 3)

LOCATION: Lat. 53° 04' Long. 131° 42' (103G/4E)
SKEENA M.D. Seventeen kilometres south-southeast of Sandspit, east side of Moresby Island.

CLAIMS: BELLA 1 to 24, MARINO 1 to 18.

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION
LIMITED, 200, 4299 Canada Way, Burnaby.

METAL: Gold.

DESCRIPTION: A rhyolite-dacite sequence contains disseminated pyrite.

WORK DONE: Surface diamond drilling, three AX holes totalling 194 metres.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 223; Assessment Report 5431; MI 103F-G-35.

AXE (Fig. E-1, NTS 103, No. 5)

LOCATION: Lat. 53° 19' Long. 130° 14' (103G/8E)
SKEENA M.D. On the west side of Banks Island, extending north from the southerly end of Foul Bay.

CLAIMS: AXE 1 to 60.

OWNER: L. G. White.

OPERATOR: OREQUEST SYNDICATE, 202, 850 West Hastings Street, Vancouver.

DESCRIPTION: An irregular tongue of quartz monzonite and granodiorite extends southeast through the middle of the claim area. It is enclosed on three sides by metasedimentary schists, marble, limestone, and minor quartzite. This complex of rocks has been sliced by north and northeast-trending faults. Pyrite occurs in minor shear zones in the schists. Patches of skarn in marble and limestone carry minor pyrrhotite.

WORK DONE: 1974 — reconnaissance surface geological mapping, 1:9600, covering Axe 1-20, 22, 25-33, 40, 48-59.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1963, pp. 21-23; Assessment Reports 670, 5395.

DOUGLAS CHANNEL 103H and part of 103G

BANK, BANKER (Fig. E-1, NTS 103, No. 6)

LOCATION: Lat. 53° 21' Long. 130° 09' (103G/8E)
 SKEENA M.D. West coast of Banks Island (centre of property about 2 kilometres northeast of Foul Bay), at approximately 15 metres elevation.

CLAIMS: BANK, BANKER, totalling approximately 150.

OWNER: WESFROB MINES LIMITED, 500, 1112 West Pender Street, Vancouver.

METALS: Gold, silver.

DESCRIPTION: Gold associated with arsenopyrite, silver with galena, pyrite, sphalerite, and pyrrhotite occur as replacements of altered granitic and sedimentary rocks, and as veins.

WORK DONE: Geochemical survey, 4 136 samples, 31.5 line-kilometres, covering all claims; trenching, 38 metres, 16 trenches on Banker 17, 19; 26 metres, 17 trenches on Bank 4 and Banker 16, 220; 35 metres, 23 trenches on Bank 1, 2 and Banker 11, 15.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 323; Assessment Reports 5518, 5720; MI 103H-G-38.

TEL (Fig. E-1, NTS 103, No. 4)

LOCATION: Lat. 53° 23' Long. 130° 11' (103G/8E)
 SKEENA M.D. About 3.2 kilometres from Foul Bay, west side of Banks Island, at approximately 30 metres elevation.

CLAIMS: TEL 23, 24, 37, 38.

OWNER: SPROATT SILVER MINES LTD., 333, 885 Dunsmuir Street, Vancouver.

METALS: Gold, silver, zinc.

WORK DONE: Induced polarization survey and geochemical survey, 424 samples, 60-metre grid spacing covering Tel 23, 24, 37, 38; underground diamond drilling, 17 holes totalling 1 050 metres on Tel 23.

REFERENCE: MI 103H-G-39.

WELLS, SURF INLET (Fig. E-1, NTS 103, No. 7)

LOCATION: Lat. 53° 06' Long. 128° 54' (103H/2W)
 SKEENA M.D. On Princess Royal Island, between Paradise and Bear Lakes.

CLAIMS: TURNER FR. (Lot 221), SEA GULL (Lot 2097), LITTLE TOMY FR. (Lot 2098), BROWN BEAR (Lot 2099), SUNLIGHT FR. (Lot 2103), SEA LION FR. (Lot 2104), SHEET ANCHOR FR. (Lot 2105).

OWNER: W. G. STEVENSON, 302, 475 Howe Street, Vancouver.

WORK DONE: 1974 and 1975 – topographic mapping, 1:400, covering all claims.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1920, p. 37; 1946, p. 85; Assessment Report 5393; MI 103 H-G-26, 27.

(103H/13E)

ECSTALL (Fig. E-1, NTS 103, No. 9)

LOCATION: Lat. 53° 52' Long. 129° 31' (103H/13E)
SKEENA M.D. Two kilometres west of Johnston Lake, on the Ecstall River, between 50 and 100 metres elevation.

CLAIMS: BLUESTONE, BELL HELEN, RED GULCH (Lots 111 to 113), QUEEN (Lot 115), SULPHIDE NO. 5, SULPHIDE NO. 6, S NO. 1 FR., SULPHIDE NO. 7, SULPHIDE NO. 8, SULPHIDE NO. 11, SULPHIDE NO. 9, SULPHIDE NO. 10, SULPHIDE NO. 1, SULPHIDE NO. 2, SULPHIDE NO. 4, SULPHIDE NO. 3, SULPHIDE NO. 12, S NO. 2 FR., S NO. 3 FR., SULPHIDE NO. 13 (Lots 2661 to 2676), JUNGLE 101 (units 1 to 3, 14 to 19).

OWNERS: Texasgulf Inc. (Crown-granted claims) and Texasgulf Canada Ltd. (Jungle 101).

OPERATOR: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Copper, zinc.

DESCRIPTION: Lenses of massive pyrite, with chalcopryite and sphalerite, occur in chlorite and quartz-sericite schists, and granitic gneisses, of unknown age.

WORK DONE: Horizontal loop electromagnetic survey, 8.7 line-kilometres, 120-metre grid spacing, covering Jungle 101; linecutting, 12.2 kilometres on Jungle 101.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1940, p. 86; MI 103H-G-11.

PACKSACK (Fig. E-1, NTS 103, No. 10)

LOCATION: Lat. 53° 47' Long. 129° 26' (103H/14W)
SKEENA M.D. Twenty kilometres northwest of Kitkiata Inlet on Douglas Channel, on Ecstall River, at approximately 500 metres elevation.

CLAIMS: PACKSACK 1 to 8, GUNNYSACK 1 to 8.

OWNER: Texasgulf Inc.

OPERATOR: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Copper, zinc.

DESCRIPTION: Narrow continuous lenses of massive pyrite with some chalcopryite and sphalerite occur in chlorite and quartz-sericite schists of unknown age.

WORK DONE: Shootback electromagnetic survey, 9.75 line-kilometres, 120-metre grid spacing, covering Packsack 1, 2 and Gunnysack 1-6; linecutting, 11.35 kilometres, covering same claims.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 484; Assessment Reports 5510, 5607; MI 103 H-G-13.

PRINCE RUPERT – TERRACE 103I and part of 103J

BOWBYES, JOAN (Fig. E-1, NTS 103, No. 8)

LOCATION: Lat. 54° 06' Long. 128° 45' (103I/2)
 SKEENA M.D. Five kilometres northwest of the Kitimat Bridge, on the northeast slope of Clague Mountain, at approximately 700 metres elevation.

CLAIMS: BOWBYES 1 to 6, JOAN 2.

OWNER: Bowbyes Mines Ltd.

OPERATOR: C. N. KOBAC, 1767 Ingledew Street, Prince George.

METALS: Copper, iron.

WORK DONE: Trenching, 9 metres on Joan 2; underground work, 12 cubic metres on Bowbyes 2.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 324; MI 103 I-J-104, 172.

KOKANEE (Fig. E-1, NTS 103, No. 11)

LOCATION: Lat. 54° 40' Long. 128° 26' (103I/9W)
 OMINECA M.D. Nineteen kilometres north-northeast of Terrace and 3 kilometres north-northwest of Usk, between Shannon and Lowrie Creeks (centres about 2 kilometres west of the Skeena River), at 300, 670, 760, and 800 metres elevation.

CLAIMS: PAULA 1 to 10, PAULA 21 (units 1 to 4, 13 to 20, 24 to 31).

OWNER: INTERNATIONAL SHASTA RESOURCES LTD., 1785, 777 Hornby Street, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: Volcanic rocks consisting of tuff, breccia and minor andesite, rhyolite and dacite, greywacke, etc., of the Hazelton Group are underlain and intruded by granodiorite and alaskite (?) of the Coast Plutonic Complex. Mineralization consists of chalcopyrite and molybdenite.

WORK DONE: Photogeological survey, 1:20 000, covering all claims; surface geological mapping, 1:20 000, covering Paula 1-10 and Paula 21 (units 15, 16, 18, 19, 28-31); geochemical stream sediment survey, 36 samples, covering Paula 6-10 and Paula 21 (units 15-19).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 487; Assessment Report 5722; MI 103I-J-114.

EDYE PASS, SURF POINT (Fig. E-1, NTS 103J, No. 14)

LOCATION: Lat. 54° 01' Long. 130° 35' (103J/2E)
 SKEENA M.D. On the north side of Porcher Island, approximately 2 kilometres southwest of Useless Point and extending from sea level to 120 metres elevation.

(103P/6W)

CLAIMS: REWARD (Lot 6955), PIRATE (Lot 6953), NABOB (Lot 7192), JEANNIE (Lot 7191), WESTERN HOPE (Lot 6516), TRIXIE (Lot 6515) Crown-granted claims plus TIPPY, TOBY 1 and 2, and KERRY located claims.

OWNER: Porcher Island Gold Mines Ltd.

OPERATOR: TOMBILL MINES LIMITED, Box 28, Toronto-Dominion Centre, Toronto, Ont. M5K 1B8.

METALS: Gold, silver, copper.

DESCRIPTION: Auriferous quartz-pyrite veins occur in cavities along joint planes in a quartz diorite stock. The ore-bearing zones trend north 30 degrees east to south 80 degrees east with dips ranging from 60 degrees north to vertical. Andesite and basalt dykes cut ore-bearing structures, quartz diorite, and older schists.

WORK DONE: Eight diamond-drill holes totalling 736.6 metres were drilled at or near the south end of the Edye Pass adit to test for downward extensions of the Surf Point ore zones. The adit was rehabilitated and the portal retimbered.

REFERENCES: *Geol. Soc. America, Bull.*, Vol. 58, 1947, pp. 245-262; *Geol. Surv., Canada*, Paper 66-33; *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 325; Assessment Report 5728; MI 1031-J-12.

NASS RIVER 103P and part of 103O

BLACK SUN (BONANZA MINE) (Fig. E-1, NTS 103, No. 13)

LOCATION: Lat. 55° 23' Long. 129° 51' (103P/6W)
SKEENA M.D. On Portland Inlet, west shoreline of Granby Bay, from sea level to 18 metres elevation.

CLAIM: BLACK SUN.

OWNER: Marion R. Bumgarner.

OPERATOR: SUNSHINE VALLEY MINERALS, INC., Box 327, Manson, Washington 98831.

METALS: Slag (iron, silica, and calcium).

DESCRIPTION: The slag is a byproduct of the Bonanza mine copper smelter. The furnace dross (waste) was dropped in a water bath, granulated, and poured over an area of approximately 20 hectares. The present operators are studying the potential of the slag for metallic and nonmetallic uses.

WORK DONE: Surface geological mapping, 1:4000; geochemical survey, 3 samples, 1 500 line-kilometres, random grid spacing, covering Black Sun.

KITSALT (BRITISH COLUMBIA MOLYBDENUM MINE)

LOCATION: Lat. 55° 25' Long. 129° 26' (103P/6W)
Report on this property in *Mining in British Columbia*, 1975.

(103P/6W)

FAST (LIME) (Fig. E-1, NTS 103, No. 15)

LOCATION: Lat. 55° 26' Long. 129° 27' (103P/6W)
SKEENA M.D. Six kilometres south of Alice Arm, on Mohawk Mountain, between 60 and 96 metres elevation.

CLAIMS: FAST 1 to 22.

OWNER: AMAX EXPLORATION, INC., 601, 535 Thurlow Street, Vancouver V6E 3L6.

METAL: Molybdenum (in float).

DESCRIPTION: The claims are underlain by Upper Jurassic to Lower Cretaceous Bowser assemblage sedimentary rocks. Greywacke is the most common rock type followed by argillite. Diabase dykes cut the argillites near the eastern edge of the property. Molybdenum-bearing boulders of granodiorite cut by quartz stockworks are noted in the central part of the claim block.

WORK DONE: Induced polarization survey, 3.8 line-kilometres, two orthogonal lines, covering Fast 1-10, 17, 18.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 326; Assessment Report 5447.

PROSPERITY — PORTER IDAHO, SILVERADO (Fig. E-1, NTS 103, No. 16)

LOCATION: Lat. 55° 54' Long. 129° 48' (103P/13W)
SKEENA M.D. Seven kilometres southeast of Stewart, on Mount Rainey, at approximately 1,500 metres elevation.

CLAIMS: Ninety-nine Crown-granted claims which include the three inoperative mines.

OWNER: Cassiar Consolidated Mines Ltd.

OPERATOR: SEAFORTH MINES LTD., 600, 789 West Pender Street, Vancouver.

METAL: Silver.

DESCRIPTION: Galena, sphalerite, tetrahedrite, and pyrargyrite occur in shear zones in Hazelton Group rhyolites and andesites.

WORK DONE: Surface geological mapping, 1:6000 and underground geological mapping, 1:1200, covering Prosperity and Porter Idaho; underground diamond drilling, three holes totalling 624.9 metres on Prosperity and Porter Idaho.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1970, p. 76; MI 103-P-O-88, 89.

NORTHWEST BRITISH COLUMBIA
(NTS Division 104 and part of 114)

BOWSER LAKE 104A

REMUS (Fig. E-1, NTS 104, No. 1)

LOCATION: Lat. 56° 08' Long. 129° 28.5' (104A/3W)
SKEENA M.D. Five kilometres northwest of the northwest end of Meziadin Lake, on Surprise Creek.

CLAIMS: REMUS 1 to 6.

OWNER: NORDORE MINING CO. LTD., 153 Perrault, Val D'Or, P.Q.

WORK DONE: Topographic mapping, 1:600, covering Remus 3 to 5; proposed as millsite and tailings pond for the Goat (Noradco Silver) property.

REFERENCE: Assessment Report 5561.

GOAT (NORADCO SILVER)

LOCATION: Lat. 56° 10' Long. 129° 36' (104A/4E)
Report on this property in *Mining in British Columbia, 1975*.

ISKUT RIVER 104B

UNICORN (Fig. E-1, NTS 104, No. 7)

LOCATION: Lat. 56° 06.8' Long. 130° 01.1' (104B/1E)
SKEENA M.D. Nine and three-fifth kilometres north of the town of Premier and 0.8 kilometre north of the Big Missouri mine, on Big Missouri Ridge, at approximately 900 metres elevation.

CLAIMS: UNICORN (Lot 4534), UNICORN 2, 3 (Lots 4535, 4536), RAMBLER (Lot 3026), UNITY (Lot 4537), UNITY FR. (Lot 4542), SNOW KING (Lot 4539), H&W FR. (Lot 4541), V FR. (Lot 4543), UNION FR. (Lot 3215), TIP TOP FR. (Lot 4180), SILVER CREEK FR. (Lot 4540), GOOD HOPE (Lot 4538).

OWNER: Tournigan Mining Explorations Ltd.

OPERATORS: TOURNIGAN MINING EXPLORATIONS LTD. and ASARCO INCORPORATED, 504, 535 Thurlow Street, Vancouver.

METALS: Gold, silver, lead, zinc.

DESCRIPTION: Low gold and silver values are associated with disseminated pyrite in zones of intense silicification and quartz-calcite veining. The zones occur in a metamorphosed assemblage of Hazelton rocks dominated by epiclastic sedimentary rocks with a mixture of pyroclastic and cataclastic rocks which trend northwesterly with a steep westerly dip.

WORK DONE: Surface geological mapping, 1:2000, covering Good Hope and 1:1000, covering Rambler, Unity, and Good Hope; geochemical survey, 105

(104B/1E)

rock samples, 5 line-kilometres, 50-metre grid spacing, covering Good Hope; road construction, 1 kilometre between campsite and trenches (Good Hope); trenching, 100 metres on Good Hope; trenching, 35.6 metres on Unity and Good Hope.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 331; MI 104B-44.

BIG MISSOURI (Fig. E-1, NTS 104, No. 2)

LOCATION: Lat. 56° 07' Long. 130° 01' (104B/1E)
SKEENA M.D. Nineteen kilometres north of Stewart, on Big Missouri Ridge, at approximately 960 metres elevation.

CLAIMS: BIG MISSOURI (Lot 3217), PROVINCE (Lot 3208), JAIN (Lot 3209), WIN FR. (Lot 3224), BUENA VISTA (Lot 3207), WINER (Lot 3212), PACKERS FR. (Lot 5540).

OWNER: Consolidated Silver Butte Mines Ltd.

OPERATOR: CANEX PLACER LIMITED, 700, 1030 West Georgia Street, Vancouver V6E 3A8.

METALS: Gold, silver, lead, zinc, copper.

DESCRIPTION: Mineralization is associated with Tertiary hornblende granodiorite intruding Early Jurassic volcanic conglomerates.

WORK DONE: Surface geological mapping covering Winer and Big Missouri; geochemical survey, 96 soil samples (assayed for gold, silver, lead, and zinc), covering same claims.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 331; Assessment Report 5664; MI 104B-46.

GRANDUC MINE

LOCATION: Lat. 56° 13' Long. 130° 21' (104B/1W)
Report on this property in *Mining in British Columbia, 1975*.

MAX (Fig. E-1, NTS 104, No. 5)

LOCATION: Lat. 56° 26' Long. 130° 33' (104B/7E)
SKEENA M.D. Fifteen kilometres northeast of the International Boundary, in Barclay Gulch on the north end of McQuillan Ridge, east of the Unuk River.

CLAIMS: MAX 3, 5, 7 to 12, 89, 91, 93 to 96, 101 to 108, 114 to 118, 139 to 148, 158, 160, 203, A, C, X Fraction, Y Fraction, HAR 24 to 26, 77 to 82, HAR 1 and 3 Fractions, JOE 3 and 4 Fractions.

OWNER: GRANDUC MINES, LIMITED, 2009, 1177 West Hastings Street, Vancouver V6E 2K3.

METALS: Iron, copper.

DESCRIPTION: Massive magnetite and lesser pyrrhotite and chalcopyrite occur in skarn at the contact of diorite with sandstones, argillites, and limestones.

(104B/7E)

WORK DONE: Surface geological mapping, 1:1200, covering Max 93, 95, 96, 102, 104, 106, X Fraction; magnetometer survey, 11.25 line-kilometres, 60-metre grid spacing, covering same claims; linecutting, 11.25 kilometres.

REFERENCES: Assessment Report 5496; MI 104B-13.

PN (Fig. E-1, NTS 104, No. 4)

LOCATION: Lat. 56° 27.5' Long. 130° 38' (104B/7E)

SKEENA M.D. Two kilometres west of Hawilson Lake, on the northwestern spur of Mount Dunn, midway between King and Fewright Creeks, at approximately 1 260 metres elevation.

CLAIMS: VV 1 to 6.

OWNER: GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD., 715 Fifth Avenue SW., Calgary, Alta. T2P 2X7.

METALS: Copper, molybdenum.

DESCRIPTION: Chalcopyrite, with occasional molybdenite, is associated with quartz veining in a intrusion which ranges in composition from quartz diorite to granodiorite.

WORK DONE: Surface geological mapping, 1:660 and geochemical survey, 186 soil samples (analysed for copper, molybdenum, gold, and silver), covering all claims.

REFERENCES: Assessment Report 5616; MI 104B-79.

GRACEY (Fig. E-1, NTS 104, No. 6)

LOCATION: Lat. 56° 20' Long. 130° 28' (104B/8W)

SKEENA M.D. About 13 kilometres northwest of the Granduc mine (Leduc portal), on the ridge opposite Divilbliss Creek, at approximately 1 200 metres elevation.

CLAIMS: DOC 1, 3, 4, 11 to 15, 17, 19, 21, 25 to 32.

OWNERS: New Minex Resources Ltd. and T. J. McQuillan.

OPERATOR: NEW MINEX RESOURCES LTD., 202, 640 West Hastings Street, Vancouver.

METALS: Lead, zinc, gold, silver.

DESCRIPTION: Hematite, pyrite, galena, sphalerite, and rare free gold occur in quartz veins cutting limestones, argillites, siltstones, and tuffs.

WORK DONE: Ronka EM-16 survey, 150 line-kilometres, 100-metre grid spacing, covering DOC 1, 3, 11-13, 28, 30-32.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 333; Assessment Report 5512; MI 104B-14.

BIG (RAN) (Fig. E-1, NTS 104, No. 3)

LOCATION: Lat. 56° 32' Long. 130° 15' (104B/9)
 SKEENA M.D. Approximately 14 kilometres east of the confluence of Sulphurets Creek and Unuk River, on a ridge between Sulphurets Glacier and Mitchell Glacier, from 540 to 1 800 metres elevation.

CLAIMS: TEDRAY 1 (2 units), TEDRAY 2 (1 unit), TEDRAY 3 (3 units), TEDRAY 4 (5 units), TEDRAY 5 (10 units), TEDRAY 6 (15 units), TEDRAY 7 (2 units), TEDRAY 8 (1 unit), TEDRAY 9 (9 units), TEDRAY 10 (3 units), TEDRAY 11 (4 units), TEDRAY 12 (15 units), TEDRAY 13 (8 units), GRACE (6 units) (restaking of Mitch, Ted, Patty, Ray, Ran, Lee claims).

OWNER: GRANDUC MINES, LIMITED, 2009, 1177 West Hastings Street, Vancouver V6E 2K3.

METALS: Copper, gold, molybdenum.

DESCRIPTION: Copper and molybdenum sulphides occur in broken and altered zones in syenitic and granitic intrusive rocks and in strongly altered arenaceous sedimentary rocks. Silicification, pyritization, and sericitization are the major alteration types. Gold in erratic and minor amounts is thought to accompany pyrite.

WORK DONE: Reconnaissance surface geological mapping, 1:4800, covering most of Tedray 1-5, 12, 13 and Grace (60 units); geochemical survey, 600 rock samples, 72 line-kilometres, 120-metre grid spacing, covering same claims; linecutting, 72 kilometres; trenching, 25 metres on Tedray 7 (unit 3), Tedray 12 (unit 6), and Tedray 13 (units 7 and 8).

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 334; Assessment Report 5416; MI 104B-12, 103, 104, 105.

MacKAY (Fig. E-1, NTS 104, No. 8)

LOCATION: Lat. 56° 37' Long. 130° 29' (104B/9W)
 SKEENA M.D. Four kilometres east of Tom MacKay Lake, between the Unuk and Iskut Rivers, at approximately 1 000 metres elevation.

CLAIMS: TOK 1 to 22, KAY 11 to 18, SIB 1 to 16.

OWNERS: Stikine Silver Ltd (Tok and Kay) and Consolidated Silver Butte Mines Ltd. (Sib).

OPERATOR: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Lead, zinc, silver, gold.

DESCRIPTION: Acid volcanic rocks and associated pyroclastic rocks and erosional products, intercalated with major units of fossiliferous marine clastic sedimentary rocks, are overlain by basaltic pillow lavas, hyaloclastites and associated mudstones. Mineralization comprises stockwork veining, carrying pyrite, tetrahedrite, sphalerite, galena, chalcopyrite, and some arsenopyrite, and small lenses of massive, banded pyrite, sphalerite, and galena.

(104B/10W)

WORK DONE: Surface geological mapping, 1:5000, covering Kay 11-18, Tok 1, 8; shootback electromagnetic survey, 13.5 line-kilometres, 120-metre grid spacing and magnetometer survey, 18 line-kilometres, 120-metre grid spacing, covering Kay 11-18, Tok 1-4, 7, 8; topography mapped, 1:5000; linecutting, 33 kilometres.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 36; Assessment Report 5683; MI 104B-8.

TAMI, KIM (Fig. E-1, NTS 104, No. 39)

LOCATION: Lat. $56^{\circ} 34'$ Long. $130^{\circ} 46'$ (104B/10W)
LIARD M.D. Fifteen kilometres south-southeast of the confluence of Snippaker Creek and the Iskut River, between 700 and 1 500 metres elevation.

CLAIMS: TAMI 1 to 37, KIM 2, 4, 6, 8, 10, 12 to 36, PONCHO 1 to 6.

OWNER: GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.,
715 Fifth Avenue SW., Calgary, Alta. T2P 2X7.

METAL: Copper.

DESCRIPTION: Chalcopyrite is disseminated in both quartz diorite and intruding Triassic volcanic rocks.

WORK DONE: Surface geological mapping, 1:4800, covering Tami 1-37.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 335; MI 104B-116, 117.

TELEGRAPH CREEK 104G

ANN (Fig. E-1, NTS 104, No. 10)

LOCATION: Lat. $57^{\circ} 03.5'$ Long. $131^{\circ} 33'$ (104G/4E)
LIARD M.D. Eleven kilometres east-southeast of the junction of the Anuk and Stikine Rivers, from 600 to 1 350 metres elevation.

CLAIMS: AS 1 to 12.

OWNER: GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.,
715 Fifth Avenue SW., Calgary, Alta. T2P 2X7.

METAL: Copper.

DESCRIPTION: Disseminated chalcopyrite occurs in a body of diorite to granodiorite composition intruding andesites.

WORK DONE: Surface geological mapping, 1:21 000 and geochemical survey, 52 soil samples (analysed for copper, silver, and gold) and 6 chip samples (analysed for copper, molybdenum, silver, and gold), covering AS 1-12.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1964, pp. 15-17; Assessment Report 5614; MI 104G-23.

(104G/6E, 7W)

LIARD COPPER (BIRD, SNO) (Fig. E-1, NTS 104, No. 11)

LOCATION: Lat. 57° 22' Long. 131° 00' (104G/6E, 7W)
LIARD M.D. Sixty-one kilometres south of Telegraph Creek, 9.6 kilometres southwest of Mess Lake, between 840 and 1 200 metres elevation.

CLAIMS: BIRD, SNO, BB, BUD, EMU, GAV, ID, MESS, NOV, PIT, RUM, SUE, VON, WIN, JMP, A, MU, JACK, LL, DAVE, totalling approximately 518.

OWNERS: Liard Copper Mines Ltd. and Hecla Operating Company.

OPERATOR: HECLA OPERATING COMPANY, 2009, 1177 West Hastings Street, Vancouver V6E 2K3.

METALS: Copper, molybdenum.

DESCRIPTION: Chalcopyrite, pyrite, bornite, and molybdenite occur in strongly fractured Upper Triassic pyroclastic rocks which are intruded by quartz feldspar porphyry dykes and breccias in a structurally complex zone with dimensions approximately 3 kilometres by 2 kilometres.

WORK DONE: A program of surface geology and diamond-drill core examination was carried out during two weeks in July in support of a comprehensive petrological study designed to clarify some aspects of the geological setting of the ore deposit.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 337; MI 104G-15.

MARY, ME, ROG, GREG (Fig. E-1, NTS 104, No. 41)

LOCATION: Lat. 57° 16' Long. 130° 22' (104G/8W)
LIARD M.D. Nine kilometres west of junction of Ball Creek and the Iskut River, between 1 200 and 1 500 metres elevation.

CLAIMS: ROG 1 to 31, 33 to 40, TARA 1 to 27, MOM 4 to 11, BR 1 to 3, BARE 1 to 15, MENT 1 to 7, MENT 7 Fraction, ME 1 to 18, VRK 1 to 6.

OWNER: GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD., 715 Fifth Avenue SW., Calgary, Alta. T2P 2X7.

METALS: Copper, molybdenum, gold, silver.

DESCRIPTION: Chalcopyrite, pyrite, and minor molybdenite occur in a quartz monzonitic stock which intrudes Triassic volcanic rocks.

WORK DONE: Surface geological mapping, 1:1200; induced polarization survey; surface diamond drilling, five holes totalling 780 metres.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 338; MI 104G-18, 42, 70; *see also* Geology in British Columbia, 1975.

GLENORA – KING (Fig. E-1, NTS 104, No. 9)

LOCATION: Lat. 57° 55' Long. 131° 25' (104G/14W)
LIARD M.D. Sixteen kilometres west of Telegraph Creek, on the north side of Winter Creek, between 1 100 and 2 000 metres elevation.

CLAIMS: KIT 1 to 26.

(104H/12W)

OWNER: Ecstall Mining Limited.
OPERATOR: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver.
METALS: Copper, silver, gold.
DESCRIPTION: The area is underlain by augite andesite breccias and volcanic sandstones with minor sedimentary layers, considered to be of Upper Triassic age. Chalcopyrite occurs as fracture fillings in volcanic rocks and with pyrrhotite in massive sulphide lenses.
WORK DONE: 1974 — surface geological mapping, 1:4800, covering Kit 1-13, 23-26.
REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 340; Assessment Report 5509; MI 104G-3.

SPATSIZI RIVER 104H

RAM (Fig. E-1, NTS 104, No. 16)

LOCATION: Lat. 57° 38' Long. 129° 59' (104H/12W)
LIARD M.D. Ten kilometres due south of the southern end of Eddontenajon Lake, at approximately 1 500 metres elevation.
CLAIMS: RAM 1 to 10 (forfeited August 1975).
OWNER: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver V6E 3J7.
METAL: Molybdenum.
DESCRIPTION: Pyrite, with traces of molybdenite, occurs in a conformable sequence of Mesozoic mafic and felsic volcanic rocks, overlain conformably by clastic rocks of the so-called 'Bowser Group.'
WORK DONE: Surface geological mapping, 1:12 000, covering Ram 2-4 and periphery; geochemical soil survey, 60 samples, covering all claims.
REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1974, p. 340; MI 104H-11.

WINDY, RED, CHRIS, SUS (Fig. E-1, NTS 104, No. 12)

LOCATION: Lat. 57° 42' Long. 129° 48' (104H/12W)
LIARD M.D. Nine kilometres south of Eddontenajon Lake, between 1 200 and 1 600 metres elevation.
CLAIMS: CHRIS 1 to 24, MONEY 1 to 30, 32, 34, 36, 38, 40 to 59, 61, 63, RAF 1 to 6, RED 4 to 34, SUS 79, 81, 83, COUGAR 1 to 8 Fractions, SUS NORTH (units 1 to 3, 14 to 19, 25 to 27), SUS SOUTH (units 1 to 4, 13 to 20), SUS WEST (units 1 to 3, 14 to 16), RED NORTH (units 1 to 4, 13 to 16), RED SOUTH (units 1, 2, 15 to 18, 26, 27), CHRIS NORTH (units 1, 2, 15, 16), FUN (units 1 to 4).
OWNERS: Texasgulf Canada Ltd., Silver Standard Mines Limited, Great Plains Development Company of Canada, Ltd.
OPERATOR: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver V6E 3J7.

(104H/12W, 13W)

METALS: Copper, gold.

DESCRIPTION: Pyrite, chalcopyrite, rare bornite, and traces of molybdenite, galena, and sphalerite occur in an elongate monzonite intrusion. The monzonite exhibits strong to intense argillic alteration, contains much disseminated pyrite, intrudes Mesozoic volcanic and volcanoclastic rocks, and is in fault contact with Cretaceous terrigenous clastic rocks.

WORK DONE: Surface geological mapping, 1:4800, covering all claims; magnetometer survey, 6.1 line-kilometres, 122-metre grid spacing, covering Red 5-8; magnetometer survey, 9.5 line-kilometres, 122-metre grid spacing, covering Sus North (units 1-3, 14-19); induced polarization survey, 9.5 line-kilometres, 122-metre grid spacing, covering Sus North (units 1-3, 14-19); surface diamond drilling, 33 BQ holes totalling 6 925 metres on Red 8, 9, 10, 25, Chris 1, 2, 3, 4, and Cougar 2 Fraction; percussion drilling, 20 holes totalling 1 480 metres on Red 9, 20, 22, 25, Chris 2, 4, and Sus North; claims, topography, and surface workings (drill holes and trenches) surveyed, 1:4800; linecutting, 10.5 kilometres on Sus North; trenching, 560 metres on Red 9, 10, 25.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 340; Assessment Report 5741; MI 104H-2, 4, 5, 6; *see also* Geology in British Columbia, 1975.

COYOTE (Fig. E-1, NTS 104, No. 14)

LOCATION: Lat. 57° 45.5' Long. 129° 54' (104H/12W, 13W)
LIARD M.D. One and one-half kilometre west of Ealue Lake, on Coyote Creek, at approximately 900 metres elevation.

CLAIMS: COYOTE CREEK (units 1 and 2, 15 to 18), COYOTE (unit 1), COYOTE NORTH (units 1 to 3), COYOTE EAST (units 1 and 16), COYOTE SOUTH (units 1, 16, 17, 27), COYOTE PUP (unit 1), WILEY COYOTE (units 1 to 3).

OWNER: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Molybdenum, copper.

DESCRIPTION: A large monzonite dyke (?) cuts monzodioritic rocks and is, in turn, cut by Tertiary (?) rhyolite. Small amounts of molybdenite are concentrated in 3 to 5-millimetre quartz veinlets. Disseminated chalcopyrite occurs rarely and strong disseminated pyrite occurs locally.

WORK DONE: Surface geological mapping, 1:5000, covering Coyote Creek (unit 1); induced polarization and magnetometer survey, 4 line-kilometres, 240-metre grid spacing, covering Coyote Creek, (units 1, 2), Coyote North (units 1, 2), Coyote; geochemical soil survey, approximately 450 samples, about 20 line-kilometres, about 120-metre grid spacing, covering Coyote Creek (units 1-6), Coyote, Coyote North (units 1-3), Coyote East (unit 1); percussion drilling, five holes totalling 293 metres on Coyote Creek (unit 1); linecutting, 4 kilometres (covering same claims as induced polarization survey).

REFERENCES: Assessment Report 5739; MI 104H-12.

(104H/12E, 13E)

BONANZA, ELDORADO (Fig. E-1, NTS 104, No. 15)

LOCATION: Lat. 57° 45' Long. 129° 38' (104H/12E, 13E)
LIARD M.D. Twenty kilometres east of Eddontenajon Lake, 2 to 3 kilometres west of the Klappan River, at approximately 1 000 metres elevation.

CLAIMS: BONANZA (units 1 to 4, 13 to 20, 24 to 31), ELDORADO (units 1 to 5, 12 to 21, 23 to 27).

OWNER: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver V6E 3J7.

METAL: Copper.

DESCRIPTION: A small plug of quartz diorite or granodiorite, intrusive into Mesozoic volcanic and volcano-sedimentary rocks, locally shows argillic alteration and contains some disseminated pyrite and traces of chalcopyrite.

WORK DONE: Surface geological mapping, 1:25 000; geochemical survey, 57 soil samples and 9 silt samples (reconnaissance), covering all claim units.

REFERENCE: MI 104H-13.

ROSE (Fig. E-1, NTS 104, No. 13)

LOCATION: Lat. 57° 47' Long. 129° 52' (104H/13W)
LIARD M.D. On Ehahceztle Mountain, between Ealue and Eddontenajon Lakes, from 1 500 to 1 800 metres elevation.

CLAIMS: ROSE OF KLAPPAN (units 1 to 5, 12 to 21, 23 to 27), LANCASTRIAN ROSE (units 1, 16, and 17), ROSE OF YORK (units 1 to 3), LAST ROSE OF SUMMER (units 1 to 3, 14 to 19), KING HENRY VII (units 1 and 2, 15 to 18), ORGY (units 1 and 2), BOSWORTH FIELD (units 1 and 2), KING RICHARD III (unit 1), WESTERN (units 1 to 5, 12 to 16), UNION (units 1 to 3, 14 to 19, 25 to 30).

OWNER: TEXASGULF CANADA LTD., 701, 1281 West Georgia Street, Vancouver V6E 3J7.

METAL: Copper.

DESCRIPTION: Mesozoic volcanic and volcanoclastic rocks, with lesser amounts of limestone, are intruded by dykes and plugs of monzonite and quartz monzonite. Large argillic alteration zones contain abundant disseminated pyrite. Chalcopyrite occurs with pyrite and hematite in skarns, and with pyrite in quartz veins in monzonite. Chalcocite and bornite occur in maroon volcanoclastic rocks.

WORK DONE: Surface geological mapping, 1:25 000; geochemical survey, 37 soil samples and 6 silt samples (reconnaissance); topography mapped, 1:10 000, covering all claim units.

REFERENCES: B.C. Dept. of Mines & Pet. Res., GEM, 1971, p. 42; MI 104H-1.

(104H/13W)

HI (Fig. E-1, NTS 104, No. 37)

LOCATION: Lat. 57° 47' Long. 129° 50' (104H/13W)
LIARD M.D. One kilometre north of Ealue Lake, between 1 200 and 1 500 metres elevation.
CLAIMS: HI 1 to 4.
OWNER: JOHN SCHUSSLER, 13135 — 20th Avenue, Surrey.
METAL: Copper.
DESCRIPTION: Pyrite and chalcopyrite occur in Permian and/or Triassic andesitic and basaltic flows, breccias, and tuffs.
WORK DONE: Electromagnetic and magnetometer surveys, 1.72 line-kilometres each, 60-metre grid spacing, covering Hi 2 and 4.
REFERENCES: Assessment Report 5703; MI 104H-14.

CRY LAKE 104I

TUC, CHO (Fig. E-1, NTS 104, No. 17)

LOCATION: Lat. 58° 10' Long. 128° 13' (104I/1E)
LIARD M.D. Fifteen kilometres south of Hotlah Lake.
CLAIMS: TUC 1 to 8, CHO 1 to 12.
OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver.
WORK DONE: 1974 — surface diamond drilling, two holes totalling approximately 107 metres on Tuc 4 and Cho 8.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 343; Assessment Report 5511.

JEFF (Fig. E-1, NTS 1-4, No. 18)

LOCATION: Lat. 58° 12' Long. 128° 22' (104I/1W)
LIARD M.D. Twenty-one kilometres southeast of the south end of Rainbow Lake, at approximately 1 500 metres elevation.
CLAIMS: JEFF 1 to 138, REX 1 to 4, JENN 1 to 9, MOE 1 (units 1 to 6), PY 1 to 62, WES 31 to 36, 43 to 49, 51, 67 to 76, KRIS 1 to 9, BRUIN 1 and 2, JET 1 to 3.
OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver.
METALS: Copper, zinc.
DESCRIPTION: Pyrite, chalcopyrite, sphalerite, and bornite occur within a succession of quartz sericite schists.
WORK DONE: Surface geological mapping, 1:1200 and 1:4800, covering all Jeff, Rex, Jenn, Moe claims; Turam electromagnetic survey, 49.6 line-kilometres, 30 by 120-metre grid spacing covering Jeff 1-6, 13-18, 57-64, 75, 77, 84-88, 95-100, 109-114, 137, 138 and Jenn 1, 2, 5-8; gravity survey, 19.2 line-kilometres, 15 by 120-metre grid spacing, covering Jeff 1-6, 13-18 and Jenn 1, 2, 5-8; surface diamond drilling, 11 holes totalling

(104I/1W)

1 370.1 metres on Jeff 1, 6, 15, 18, 95, 97, 99, 102, 111 and Jenn 1; surface geological mapping, 1:4800, covering Py, Wes, Kris, Bruin, and Jet claims; Turam electromagnetic survey, 36.8 line-kilometres, 30 by 120-metre grid spacing, covering Py 31-40, 47-52, Kris 1, 3, 5, 7, Py 1-8, 15-24, Jet 1-3, and Bruin 1, 2; electromagnetic survey, 57.6 line-kilometres, 30-by 120-metre grid spacing, covering Wes 31-36, 43-49, 51, 67-76.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 343-348; Assessment Reports 5652, 5591, 5599, 5641; MI 104I-61.

SMRB (Fig. E-1, NTS 104, No. 19)

LOCATION: Lat. 58° 12' Long. 128° 23' (104I/1W)
LIARD M.D. Twenty-one kilometres south-southeast of Rainbow Lake, near the headwaters of an eastern tributary to Kutcho Creek, at approximately 1 575 metres elevation.

CLAIMS: SMRB 1 to 16, KC 1 to 37, 40 to 89, 90 to 105, 107, 108, 110 to 121, KC 122 (units 1 to 3).

OWNER: SUMAC MINES LTD., Box 10150 Pacific Centre, 1650, 701 West Georgia Street, Vancouver V7Y 1C6.

METALS: Copper, zinc.

DESCRIPTION: Basic, pelitic, and psammitic schists are enveloped by rocks of the Cache Creek Group. A cupriferous and zinciferous, massive, pyritic iron deposit occurs in muscovite-quartz schist.

WORK DONE: 1974 — helicopter-flown electromagnetic and magnetometer survey, 163 line-kilometres, covering KC 34-37, 42-117; 1975 — surface geological mapping, 1:15 000, covering all claims; electromagnetic survey, 38.75 line-kilometres, 200-metre, 400-metre, and 120-metre grid spacing, covering all of the KC claims and part of the SMRB claims; geochemical soil survey, 623 samples, 32.45 line-kilometres, 200-metre and 400-metre grid spacing, on KC claims and 118 samples, 7.5 line-kilometres, 120-metre grid spacing, on SMRB claims; surface diamond drilling, eight holes totalling 1 948 metres on SMRB 5, 13, and 15.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 348; Assessment Report 5475; MI 104I-60; *see Geology in British Columbia*, 1975.

BOW (Fig. E-1, NTS 104, No. 20)

LOCATION: Lat. 58° 09' Long. 128° 30' (104I/1W, 2E)
LIARD M.D. Twenty-four kilometres south of Rainbow Lake, at the headwaters of Kutcho Creek, at approximately 1 200 metres elevation.

CLAIMS: BOW 1 to 40.

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver.

DESCRIPTION: The claims are underlain by chlorite schists, with minor sericite schist.

WORK DONE: Surface diamond drilling, one hole totalling 110.1 metres on Bow 5.

REFERENCE: Assessment Report 5508.

(104I/5E)

NUP (Fig. E-1, NTS 104, No. 21)

LOCATION: Lat. 58° 18' Long. 129° 35' (104I/5E)
LIARD M.D. Thirty kilometres east of Dease Lake, at the headwaters of Snowdrift Creek, at approximately 1 500 metres elevation.

CLAIMS: KEN (20 units), TOM (20 units).

OWNER: UTAH MINES LTD., 1600, 1050 West Pender Street, Vancouver V6E 3S7.

METAL: Copper.

DESCRIPTION: Minor malachite and chalcopryrite occur in Triassic volcanic rocks adjacent to a west-northwest-trending shear zone. The volcanic rocks are intruded by a hornblende-granodiorite pluton.

WORK DONE: Surface geological mapping, 1:10 000, covering all claims; induced polarization survey, 11 line-kilometres.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 511; Assessment Report 5769; MI 104I-59.

WT (Fig. E-1, NTS 104, No. 22)

LOCATION: Lat. 58° 18.5' Long. 128° 36' (104I/7E)
LIARD M.D. Fourteen kilometres southwest of the south end of Rainbow Lake, south of Letain Creek.

CLAIMS: SUL 9 to 12.

OWNER: A. JENSEN, Box 7, Watson Lake.

METAL: Copper.

DESCRIPTION: Chalcocite and magnetite are associated with a fine-grained dyke.

WORK DONE: Prospecting, covering Sul 9-12.

REFERENCES: Assessment Report 5656; MI 104I-28.

MAY (Fig. E-1, NTS 104, No. 23)

LOCATION: Lat. 58° 41' Long. 128° 06.5' (104I/9E)
LIARD M.D. Junction of Cassiar and Turnagain Rivers.

CLAIMS: MAY 1 to 10.

OWNER: WILLIAM KUHN, Box 48812, Vancouver.

METAL: Tungsten.

DESCRIPTION: Scheelite is disseminated in skarns at the contact of dolomites with the Cassiar batholith.

WORK DONE: Prospecting, panning and lamping, and geochemical sampling, covering all claims.

REFERENCES: Assessment Report 5473; MI 104I-70.

JOY (EAGLE) (Fig. E-1, NTS 104, No. 24)

LOCATION: Lat. 58° 29' Long. 129° 07' (104I/11E)
LIARD M.D. Twenty-two kilometres south of the south end of Cry Lake, 3.5 kilometres southeast of Eaglehead Lake.

(104M/8E)

CLAIMS: EAGLE, totalling approximately 150.
OWNERS: Imperial Oil Limited and Nuspar Resources Limited.
OPERATOR: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver.
METALS: Copper, (molybdenum).
DESCRIPTION: Biotite granodiorite is exposed on Eagle 146, and may underlie the greater part of the claims. Conglomerate, arkose, argillite, and grey-wacke are exposed to the south.
WORK DONE: 1974 — reconnaissance geological mapping of approximately 5 square kilometres at 1:2640; linecutting, 0.7 line-kilometres and geochemical soil survey, 115 samples, 60 by 240-metre grid spacing, covering Eagle 145-148, 154, 156.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 349; Assessment Report 5353; MI 104I-8.

SKAGWAY 104M

ENGINEER (Fig. E-1, NTS 104, No. 43)

LOCATION: Lat. 59° 29' Long. 134° 14' (104M/8E)
ATLIN M.D. Fourteen kilometres south of Golden Gate, 32 kilometres west-southwest of Atlin, on the east shore Tagish Lake, between 650 and 1 000 metres elevation.
CLAIMS: ENGINEER NO. 1 (Lot 19), NORTHERN PARTNERSHIP NO. 1 (Lot 918), NORTHERN PARTNERSHIP NO. 2 (Lot 20), NORTHERN PARTNERSHIP NO. 3, (Lot 106), NORTHERN PARTNERSHIP NO. 4 FR. (Lot 209).
OWNER: NU-ENERGY DEVELOPMENT CORP. LTD., 203, 1209 East Fourth Street, North Vancouver.
METALS: Gold, silver.
DESCRIPTION: Gold and silver occur with sparse sulphides, tellurides, and arsenides in quartz-calcite veins and silicified shear zones.
WORK DONE: Surface geological mapping, 1:2400, 1:480, 1:240, covering all claims; underground geological mapping, 1:480 and 1:240, covering Northern Partnership No. 1 and Northern Partnership No. 2; several hundred test holes and several hundred channel samples covering Northern Partnership No. 1 and Northern Partnership No. 2; substantial rehabilitation of 5 level and pumping of flooded lower levels.
REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1925, pp. 113-115; 1946, p. 60; MI 104M-14.

(104N/12E)

ATLIN 104N

RUFFNER MINE

LOCATION: Lat. 59° 44' Long. 133° 31' (104N/12E)
Report on this property in *Mining in British Columbia, 1975*.

JENNINGS RIVER 104O

SWAN (Fig. E-1, NTS 104, No. 27)

LOCATION: Lat. 59° 17' Long. 131° 18' (104O/6W)
ATLIN M.D. Seventy kilometres south of Swan Lake on the Alaska Highway, near the headwaters of the east branch of Tahoots Creek, south of Jennings River, at approximately 1 500 metres elevation.

CLAIMS: WINDY 1 (units 1 to 5, 12 to 21, 23 to 27), WINDY 2 (units 1 to 4, 13 to 20, 24 to 31), WINDY 3 (units 1 to 5, 12 to 21).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver B6E 3L6.

METAL: Molybdenum.

DESCRIPTION: Mineralization consists of coarse rosettes of molybdenite and is associated with a crowded porphyry stock in the Glundebery quartz monzonite batholith.

WORK DONE: Geochemical soil survey, 7 line-kilometres, 160 by 500-metre grid spacing, covering Windy 1.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 559; MI 104O-10.

McDAME 104P

VOLLAUG (HURRICANE) (Fig. E-1, NTS 104, No. 42)

LOCATION: Lat. 59° 12' Long. 129° 38' (104P/4E)
LIARD M.D. Approximately 12 kilometres southeast of Cassiar, on the north slope of Table Mountain, at approximately 1 350 metres elevation.

CLAIMS: ADIT No. 1 (Lot 6540), WEST FR. (Lot 6537), ADIT NO. 2 (Lot 6539), RED HILL 5 and 6, JENNIE EXTENSION 1 to 4, FG 1 and 2, UP (5 units), SUN (8 units), KAT (4 units), SNO (6 units).

OWNERS: Agnes & Jennie Mining Company Ltd. and Table Mountain Mines Limited.

OPERATOR: AGNES & JENNIE MINING COMPANY LTD., 203, 1209 East Fourth Avenue, North Vancouver V7J 1G8.

METALS: Gold, silver, lead, copper.

(104P/4E)

DESCRIPTION: The claims are underlain by highly silicified intermediate to dacitic tuffs as well as more andesitic varieties of the Sylvester Group. Free gold with minor tetrahedrite, sphalerite, chalcopyrite, and pyrite occur in a massive white quartz vein.

WORK DONE: Surface diamond drilling, three holes totalling 226.65 metres and percussion drilling, six holes totalling 204 metres, on FG 1; road construction, approximately 1 kilometre on FG 1.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 353; Assessment Report 5628, MI 104P-19.

WILDCAT (Fig. E-1, NTS 104, No. 28)

LOCATION: Lat. 59° 13' Long. 129° 37' (104P/4E)
LIARD M.D. Thirteen kilometres southeast of Cassiar townsite, on Table Mountain, at approximately 1 525 metres elevation.

CLAIMS: WILDCAT 1 to 16, TED Fraction.

OWNERS: F. G. Maynes and W. D. Hartman.

OPERATOR: A. BABIY, 1065 Singh Street, Kamloops.

METAL: Gold.

DESCRIPTION: A vein, containing minor disseminated pyrite, chalcopyrite, tetrahedrite, and free gold, follows the contact between pyroclastic rocks and argillic-slaty rocks, both of the Sylvester Group.

WORK DONE: 1974 – surface geological mapping, 1:8400, covering Wildcat 1, 2, 7, 9, 11 and Ted Fraction; 1975 – surface diamond drilling, four holes totalling 44 metres on Wildcat 16.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 518; Assessment Reports 4869, 5347.

NORA (Fig. E-1, NTS 104, No. 31)

LOCATION: Lat. 59° 14' Long. 129° 39' (104P/4E)
LIARD M.D. Twelve kilometres southeast of Cassiar townsite, immediately east of McDame Lake, between 1 000 and 1 300 metres elevation.

CLAIMS: NORA, TOP 1 to 5, TIP 1 (1 unit), JAY 2 (2 units).

OWNERS: G. Davis (Nora), J. Schussler (Top), S. Bridcut (Tip and Jay).

OPERATOR: J. SCHUSSLER, 13135 – 20th Avenue, Surrey.

METALS: Gold, copper.

DESCRIPTION: Free gold, pyrite, and tetrahedrite occur in quartz veins in volcanic and sedimentary rocks of the Sylvester Group.

WORK DONE: Surface diamond drilling, six holes totalling 451.2 metres on Nora.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1950, p. 73; Assessment Report 5704; MI 104P-18.

(104P/5W)

GRAHAM (Fig. E-1, NTS 104, No. 29)

LOCATION: Lat. 59° 15' Long. 129° 50' (104P/5W)
LIARD M.D. Two kilometres southeast of Cassiar townsite, at approximately 1 600 metres elevation.

CLAIMS: MAGNO 1 to 4, JEAN 1 and 2.

OWNER: Consolidated Coast Silver Mines Ltd.

OPERATOR: BALFOUR MINING LTD., 1155, 555 Burrard Street, Vancouver.

METALS: Silver, lead, zinc, gold.

DESCRIPTION: Silver-bearing galena and smithsonite occur as irregular blobs along magnetite veins in basic dykes which intrude Lower Cambrian calcareous sedimentary rocks.

WORK DONE: Surface geological mapping, 1:2400 and underground mapping, 1:600, covering Magno 1-4 and Jean 1 and 2; underground diamond drilling, three BQ holes totalling 141.3 metres on Magno 4.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1971, p. 57; Assessment Reports 5578, 5713; MI 104P-6.

CORNUCOPIA (Fig. E-1, NTS 104, No. 30)

LOCATION: Lat. 59° 16' Long. 129° 42' (104P/5E)
LIARD M.D. Eight kilometres due east of Cassiar townsite, at approximately 1 200 metres elevation.

CLAIMS: COPCO, ROY, ROY Fraction, TOD, ATLAS, THRUSH, DOR, totalling 29.

OWNER: DORCHESTER RESOURCES LTD., 1100, 235 First Avenue, Kamloops.

METALS: Gold, silver.

DESCRIPTION: The area is underlain by andesitic flows and tuffs of the Middle Paleozoic Sylvester Group. Numerous quartz veins cut these rocks. Pyrite occurs as scattered crystals within volcanic rocks near quartz veins and in fractures and brecciated zones. Minor arsenopyrite and native gold have also been noted in some quartz veins.

WORK DONE: Underground diamond drilling, three holes totalling 223 metres on Copco 1.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 354; Assessment Report 5493; MI 104P-12.

TATSHENSHINI RIVER 114P

ALU (Fig. E-1, NTS 114, No. 32)

LOCATION: Lat. 59° 08' Long. 137° 00' (114P/3E)
ATLIN M.D. Northeast of the end of Tarr Inlet, between 1 700 and 2 100 metres elevation.

CLAIMS: ALU 1 to 28.

(114P/6E)

OWNER: SWISS ALUMINIUM MINING CO. OF CANADA LTD., Box 835,
Station A, Vancouver V6C 2N6.

METALS: Copper, molybdenum, tungsten, silver, tin.

DESCRIPTION: A network of quartzose lenses and veinlets carrying chalcopyrite, bornite, molybdenite, scheelite, and tungstenite occurs in contact metamorphic formations of andesites, siltstones, and mudstones with significant metacarbonates, near a granodiorite intrusion.

WORK DONE: Topographic mapping (airphoto) and surface geological mapping, 1:10 000, covering all claims.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 355; Assessment Report 5629; MI 114P-57.

SAC (Fig. E-1, NTS 114, No. 33)

LOCATION: Lat. 59° 18' Long. 137° 08' (114P/6E)
ATLIN M.D. Twenty-six kilometres north of Tarr Inlet, at approximately 1 900 metres elevation.

CLAIMS: SAC 1 to 12.

OWNER: SWISS ALUMINIUM MINING CO. OF CANADA LTD., Box 835,
Station A, Vancouver V6C 2N6.

METAL: Copper.

DESCRIPTION: Erratic malachite and azurite occur in rhyolite sills in metasedimentary and metavolcanic rocks, near a granodiorite contact.

WORK DONE: Surface geological mapping, 1:10 000, covering all claims.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 355; Assessment Report 5612; MI 114P-58.

LUNAR (Fig. E-1, NTS 114, No. 34)

LOCATION: Lat. 59° 42' Long. 136° 38' (114P/10E)
ATLIN M.D. Five kilometres south of Mile 70 on the Haines Road, on Stonehouse Creek, between 1 000 and 1 350 metres elevation.

CLAIMS: LUNAR 1 to 5, 7, 10, 12, 14, MAG 1, 2, 5, 6.

OWNER: Erwin Kreft.

OPERATOR: KREFT EXPLORATION, 13 Tutshi Road, Whitehorse, Y.T.

METALS: Lead, zinc, silver.

DESCRIPTION: Lead, zinc, and silver values occur in metamorphosed Permo-Carboniferous sedimentary rocks which are intruded by granodiorite-quartz diorite.

WORK DONE: Surface diamond drilling, three holes totalling 14 metres on Lunar 1; trenching, approximately 200 metres on Lunar 1, 2, and 3.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 519; MI 114P-27.

(114P/10W)

HUM BIRD (Fig. E-1, NTS 114, No. 35)

LOCATION: Lat. $59^{\circ} 43'$ No. $136^{\circ} 57'$ (114P/10W)
ATLIN M.D. Fourteen kilometres east of the Tatshenshini River on an eastern tributary of Shini Creek, 7 kilometres west-northwest of Samuel Galtier, between 1 000 and 1 700 metres elevation.

CLAIMS: HUM BIRD 1 to 31, 33 to 39.

OWNER: Yukanda Mines Ltd.

OPERATOR: ASARCO INC., 504, 535 Thurlow Street, Vancouver V6E 3L2.

METALS: Silver, zinc, lead, copper.

DESCRIPTION: Interbedded limestone, chlorite schist, sericite schist, graphite schist, and greenstone underlie most of the claims. A dioritic intrusion underlies the western part of the claim group. Tetrahedrite, galena, sphalerite, chalcopyrite, and pyrite occur in quartz-filled shears and in altered limestone associated with a fault.

WORK DONE: Surface geological mapping, 1:8000, covering all claims.

REFERENCES: MI 114P-18, 24, 25, 26.

WINDY, CRAGGY (Fig. E-1, NTS 114, No. 36)

LOCATION: Lat. $59^{\circ} 44'$ Long. $137^{\circ} 45'$ (114P/12)
ATLIN M.D. Thirty-two kilometres north of the junction of Aisek and Tatshenshini Rivers, 9 kilometres east of the toe of Tweedsmuir Glacier.

CLAIMS: WINDY 1 to 8, CRAGGY 1 to 6.

OWNER: FALCONBRIDGE NICKEL MINES LIMITED, 504, 1112 West Pender Street, Vancouver.

METALS: Copper, cobalt.

DESCRIPTION: Copper and cobalt mineralization occurs in massive pyrite and pyrrhotite along the contact of pillow lavas of the Nikolai greenstone with underlying highly folded sedimentary rocks.

WORK DONE: 1974 and 1975 — electromagnetic and magnetometer survey covering Windy 3-5, 7.

REFERENCES: *Minister of Mines, B.C., Ann. Rept., 1965, p. 8; Assessment Report 5608; MI 114P-2.*

MUS (Fig. E-1, NTS 114, No. 38)

LOCATION: Lat. $59^{\circ} 43'$ Long. $137^{\circ} 30'-45'$ (114P/12E)
ATLIN M.D. Covering the East Arm Glacier, at the headwaters of Henshi Creek, between 800 and 1 500 metres elevation.

CLAIMS: MUS A to MUS U, totalling 309 units.

OWNER: SWISS ALUMINIUM MINING CO. OF CANADA LTD., Box 835, Station A, Vancouver V6C 2N6.

METALS: Copper, silver, cobalt.

DESCRIPTION: Massive sulphide boulders were found in glacial moraine.

(114P/12E)

WORK DONE: Surface geological mapping, 1:25 000, covering all claim units; electro-magnetic and magnetometer survey, approximately 275 line-kilometres, 125-metre grid spacing, covering Mus A to Mus Q; topography mapped, 1:25 000; linecutting, 200 kilometres on Mus A to Mus N.

REFERENCE: Assessment Report 5841.

STRUCTURAL MATERIALS AND INDUSTRIAL MINERALS EXPLORATION

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REVIEW OF EXPLORATION ON NON-METALLIC MINERAL DEPOSITS

Exploration on deposits of industrial minerals and structural materials in 1975 was carried out at a fairly normal level. Some fluorite, jade, limestone, magnesite, phosphate, and silica properties received extensive programs. Geophysical and stripping programs occurred on several properties at the phosphatic beds at the base of the Fernie shale in the Elk River area. A test shipment was made of magnesite from the Mount Brussilof deposit (ROK). Significant drill programs occurred on the Eaglet fluorite property (93A/10W) near Quesnel Lake, the Blue jade property (92J/15E) northwest of Lillooet, and the AN silica property (93O/1E) in the Rocky Mountains, 50 kilometres east of Fort McLeod.

REPORTS ON EXPLORATION OF NON-METALLIC COMMODITIES

Note: For reports on producing properties, see *Mining in British Columbia, 1975*.

ASBESTOS

MOON CREEK ASBESTOS (Fig. E-1, NTS 92, No. 76)

LOCATION: Lat. 50° 45' Long. 122° 01' (92J/16E)
Five kilometres southwest of Bridge River, at the mouth of Moon Creek.

CLAIMS: DEE 1 to 21, LIM 1 to 5, NEWFIE 1 to 4, BLUE 1 to 9, MIDNITE 1 and 2, EARLY BIRD 3.

OWNER: CANADIAN JOHNS-MANVILLE COMPANY LIMITED, Box 1500, Asbestos, P.Q.

WORK DONE: Trenching, 60 metres on Dee 2 and Early Bird 2 and 105 metres on Midnite 1.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1969, p. 380 to 382; MI 92J/NE-150.

FLUORITE

EAGLET (Fig. E-1, NTS 93, No. 81)

LOCATION: Lat. 52° 34' Long. 120° 59' (93A/10W)
CARIBOO M.D. One kilometre north of the mouth of Wasko Creek, at approximately 1 050 metres elevation.

CLAIMS: EAGLE 5, 6, 33 to 35, 41, 42, 46 to 48, EAGLET 1 to 4, 7 to 32.

OWNER: EAGLET MINES LIMITED, 601, 287 MacLaren Street, Ottawa, Ont.

WORK DONE: Surface diamond drilling, eight holes totalling 898 metres on Eaglet 1, 8, 24, and 25.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 546; Assessment Report 5639; MI 93A-46.

JADE

BLUE (GREENBAY) (Fig. E-1, NTS 92, No. 77)

LOCATION: Lat. 50° 55' Long. 122° 31' (92J/15E)
LILLOOET M.D. On the northeast side of Marshall Creek, extending northwest from Brett Creek, at approximately 1 200 metres elevation.

CLAIMS: GREENBAY, BLUE, JOHN, JIM, GB, totalling 32 and Mineral Lease M-51 (BLUE 1 and 2).

Jade-Limestone

OWNER: GREENBAY EXPLORATION AND MINING CO. LTD., Box 166, Hope.
WORK DONE: Percussion drilling, approximately 600 metres; open pit 15 by 21 by 6 metres on Mineral Lease M-51.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 597; MI 92J/NE-100.

MARSHALL CREEK (4-TON) (Fig. E-1, NTS 92, No. 78)

LOCATION: Lat. 50° 54' Long. 122° 30' (92J/15E, 16W)
LILLOOET M.D. On the northeast side of Marshall Creek, between Brett and Hog Creeks, at approximately 1 050 metres elevation.
CLAIMS: Mineral Lease M-2085, LANG 1 to 10, 16 to 21, GB 7 to 23, ROYAL 4 to 6, ROYAL 2 Fraction, LUCKY LEE 1 and 2, MONARCH, JIM 6, 23 to 31, VIKING 1 to 3, 11.
OWNERS: Comaplex Resources International Ltd. and International Jade Limited.
OPERATOR: COMAPLEX RESOURCES INTERNATIONAL LTD., 810, 715 Fifth Avenue SW., Calgary, Alta. T2P 0N2.
WORK DONE: Surface diamond drilling, two holes totalling 65 metres on Mineral Lease M-2085.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 598; MI 92J/NE-99.

LIMESTONE

RAVEN (Fig. E-1, NTS 92, No. 73)

LOCATION: Lat. 49° 44' Long. 124° 30' (92F/10E)
South and southwest of Spratt Bay, Texada Island, 1.2 kilometres north of Myrtle Lake, at approximately 100 metres elevation.
CLAIMS: WILL 3 to 6, WILL 3 Fraction, MOLLY, MOLLY 1 to 7, KELLY JO Fraction, WILLY I and II, WILLY 3 to 17.
OWNER: TEXADA LIME LTD., 309, 198 West Hastings Street, Vancouver.
WORK DONE: Surface diamond drilling, 10 holes totalling 389 metres.
REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 383.

FOX (Fig. E-1, NTS 92, No. 75)

LOCATION: Lat. 50° 37' Long. 127° 57' (92L/12W)
South side of Holberg Inlet, along Glerup Creek.
CLAIMS: FOX 1 to 20, JAY 1 to 10, HOL 1 to 6, NATIVE 1 to 25.
OWNER: HOLBERG MINES LTD., 915, 470 Granville Street, Vancouver.
WORK DONE: 1974 and 1975 — topographic mapping; reconnaissance geological mapping, 1:21 600; composite sample taken along logging road at west end of ridge, covering Fox 1-11, 13, 15, 17; 1975 — surface diamond drilling, five XRP holes totalling 210 metres on Fox 4, 6, and 8.
REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1975, pp. 218, 219; Assessment Reports 5413, 5414; 5666; MI 92L-267.

TERRACE CALCIUM PRODUCTS QUARRY (Fig. E-1, NTS 103, No. 17)

LOCATION: Lat. 54° 31' Long. 128° 28' (103I/9W)
On Copper Mountain, 9.6 kilometres east of Terrace, at approximately 900 metres elevation.

CLAIMS: FIR 1 to 10.

OWNER: TERRACE CALCIUM PRODUCTS LTD., 66, 4625 Graham Avenue, Terrace.

WORK DONE: Two hundred holes averaging 2.4 metres on Fir 10.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 550; MI 103I-165.

MAGNESITE

ROK (MAG) (Fig. E-1, NTS 82, No. 108)

LOCATION: Lat. 50° 47' Long. 115° 39' (82J/13E)
GOLDEN M.D. Thirty-five kilometres northeast of Radium Hot-springs, at the confluence of Assiniboine Creek and Mitchell River, at approximately 1 300 metres elevation.

CLAIMS: ART 1 to 5, BARABAJACKAL 1, 3 to 6, BILL 1 to 6, 9 to 12, 17 to 20, 25 to 30, 33 to 42, 51 to 61, 67 to 80, BMG 1 to 6, DON 1 to 5, 8, 10 to 21, JAN 1 to 4, JOE 1 to 28, 30, 32 to 54, MAG 1 to 27, 29, 35, 36, NANCY 1 and 3, ROK 15, 17, 19 to 22, VANO 1 to 6, 17 to 23, 33 to 42, 51 to 66, 71.

OWNER: Baymag Mines Co. Limited.

OPERATOR: ELCO MINING LTD., 239 Eighth Avenue SW., Calgary, Alta.

DESCRIPTION: Massive magnesite occurs in the Cathedral Formation of Middle Cambrian age.

WORK DONE: Eighty holes drilled totalling 160 metres; road construction, 16 kilometres (between Cross River and Assiniboine Creek-Mitchell River junction); trenching, 5 600 square metres (bulk sample sites).

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 551; MI 82J/NW-1.

PHOSPHATE

PH (Fig. E-1, NTS 82, No. 109)

LOCATION: Lat. 49° 28' Long. 114° 40' (82G/7E)
FORT STEELE M.D. Seven kilometres south of Corbin, on Michel Creek, at approximately 1 710 metres elevation.

CLAIMS: PH 7 to 12, 14, 16, 17.

OWNER: MEDESTO EXPLORATION LTD., 215A — 10th Street NW., Calgary, Alta. T2N 1V5.

DESCRIPTION: Phosphate occurs in an oolitic bed approximately 0.9 to 1.2 metres thick lying at the base of the dark Fernie (Jurassic) marine shales. The

Phosphate-Shale

phosphate bed lies directly on rather massive sandstones of the Spray River Formation.

WORK DONE: Near surface seismic survey on PH 8.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 604; Assessment Report 5556; MI 82G/SE-38.

WW (Fig. E-1, NTS 82, No. 110)

LOCATION: Lat. 49° 27' Long. 114° 42' (82G/7E)

FORT STEELE M.D. Eight kilometres southwest of Corbin, in the Barnes Lake area, at approximately 1 800 metres elevation.

CLAIMS: WW 1, 2, 4, 6 to 12, 45 to 60, 83 to 88, 97 to 104.

OWNER: Stephen R. Dunn.

OPERATOR: WESTERN WARNER OILS LTD., 4, 215A Tenth Street NW., Calgary, Alta. T2N 1V5.

DESCRIPTION: Outcropping rocks range from Mississippian to Jurassic in age and comprise a thick sequence of marine and terrestrial sedimentary phases. Phosphate rock is sedimentary and lies at the base of the Fernie shale and on top of the Spray River Formation.

WORK DONE: Near surface refraction seismic survey, 1 line-kilometre, covering WW 47, 48, 83, 84, 103, 104.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 605; Assessment Report 5556.

GRAVE LAKE, ELK (Fig. E-1, NTS 82, No. 111)

LOCATION: Lat. 49° 53' Long. 114° 51.5' (82G/15W)

FORT STEELE M.D. At Grave Lake, Elk River valley.

CLAIMS: ELK 1 to 48.

OWNER: COMINCO LTD., 2450 Cranbrook Street, Cranbrook.

DESCRIPTION: The Fernie Formation (Jurassic ?) contains a basal phosphate horizon of oolitic and pelletal form, interlayered with black shales.

WORK DONE: Surface geological mapping, 1:12 000, covering all claims; trenching in two specific locations.

REFERENCES: Assessment Report 5545; MI 82G/N-71.

SHALE

COLUMBIA LIME PRODUCTS (Fig. E-1, NTS 92, No. 79)

LOCATION: Lat. 51° 05' Long. 121° 50' (92P/4W)

Headwaters of Porcupine Creek, Jesmond Road area, at approximately 1 200 metres elevation.

CLAIMS: SHALE 1 to 8.

OWNER: COLUMBIA LIME PRODUCTS LTD., 309, 198 West Hastings Street, Vancouver.

WORK DONE: Trenching, 700 metres on Shale 5, 6, 7, 8.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 384 (same property for shale and limestone).

SILICA

HUNT (Fig. E-1, NTS 82, No. 112)

LOCATION: Lat. $51^{\circ} 13'$ Long. $116^{\circ} 52'$ (82N/2W)
 GOLDEN M.D. Thirteen kilometres south of Golden, south bank Horse Creek, between 1 050 and 1 260 metres elevation.

CLAIMS: HUNT 1A to 9A.

OWNER: C. R. Hoar.

OPERATOR: C. WARREN HUNT EXPLORATION LTD., 1119 Sydenham Road SW., Calgary, Alta. T2T 0T5.

WORK DONE: Surface geological mapping, 1:2400; road construction, 1 kilometre on Hunt 9A.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 399; MI 82N-43.

LYN, MIN, MIDGE (Fig. E-1, NTS 92H, No. 34)

LOCATION: Lat. $49^{\circ} 48'$ Long. $121^{\circ} 39'$ (92H/13E)
 NEW WESTMINSTER M.D. Fifteen kilometres southwest of Boston Bar, in the valley of Scuzzy Creek.

CLAIMS: LYN, MIN, MIDGE, NAN, APLO, totalling approximately 30.

OWNER: INDUSMIN LIMITED, Box 40, Commerce Court West, Toronto, Ont. M5L 1B4.

WORK DONE: 1974 — percussion drilling, seven holes totalling approximately 131 metres on Midge 14, 16, 18, Nan 5, and Lyn 1.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 616; Assessment Report 5397.

AN (Fig. E-1, NTS 93, No. 82)

LOCATION: Lat. $55^{\circ} 05'$ Long. $122^{\circ} 08'$ (93O/1E)
 CARIBOO M.D. Three and one-fifth kilometres southeast of Mount Kinney, at the head of north Anzac River, at approximately 1 440 metres elevation.

CLAIMS: AN 1 to 5.

OWNER: SILVER STANDARD MINES LIMITED, 904, 1199 West Hastings Street, Vancouver V6E 3T5.

WORK DONE: Surface geological mapping, 1:4800, covering all claims; surface diamond drilling, four holes totalling 546 metres on AN 4.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 400, 401; Assessment Report 5637; MI 930-13.

TALC

J&J (Fig. E-1, NTS 92H, No. 84)

LOCATION: Lat. 49° 59' Long. 121° 33' (92H/13E)
NEW WESTMINSTER M.D. Three and one-half kilometres northwest of the Fraser River, on the southwest side of Nahatlatch River, at approximately 230 metres elevation.

CLAIMS: J&J 1 to 10.

OWNER: PACIFIC TALC LTD., c/o John Massey, 13023 - 80th Avenue, Surrey.

WORK DONE: Trenching, 66 metres; 73 holes totalling 175.2 metres, on J&J 1.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, pp. 401-403; MI 92H/NW-47.

COAL EXPLORATION

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GENERAL REVIEW OF COAL EXPLORATION

By R. D. Gilchrist

INTRODUCTION

In early 1975 prices received for British Columbia coking coal were in the order of \$32 per long ton, up from approximately \$22 per long ton a year previously. This dramatic rise in price of almost 50 per cent in a one-year period was chiefly responsible for spurring on 1975 coal exploration to a new high of \$7.3 million in expenditures. Higher prices were especially significant in encouraging exploration and development in the Peace River Coalfields where the lack of infrastructure and the preponderance of underground reserves presuppose higher capital outlays and higher mining costs than in the Crowsnest Coalfields.

Many of the properties in the Crowsnest Coalfield are in the prefeasibility or feasibility stage and hence the emphasis has been on office-related work rather than actual exploration in the field. During the latter part of the year, metallurgical coal prices had risen to over \$50 per long ton. The effects of this should be felt on both exploration and development in the near future.

Although the bulk of exploration was concentrated on the metallurgical coal properties, several thermal coal properties saw work in 1975. The largest and most significant of these is British Columbia Hydro and Power Authority's drilling program on the immense deposit of low-rank coal in the Tertiary basin at Hat Creek. In addition, Weldwood of Canada explored for coal in the old Comox Coalfield on Vancouver Island, Crows Nest Industries Limited worked at Corbin, and Bethlehem Copper Corporation drilled in the Princeton Basin.

The policy of not issuing new licences over new coal land was continued through 1975. Excepted from this policy was British Columbia Hydro and Power Authority who applied for and were issued 24 new licences totalling 5 180 hectares (12,799 acres) in the Hat Creek Coalfield. Ninety-nine licences were forfeited during the year, totalling 21 633 hectares (53,456 acres).

GEOLOGY

The principal coal resources of the Province occur in comparatively narrow linear belts within the intermontane basins of the East Kootenay area and the inner foothills region of northeastern British Columbia. These deposits of Late Jurassic to Early Cretaceous age contain major reserves of medium to low-volatile bituminous coal, generally suitable for the production of metallurgical coke. Several other coal-bearing areas are scattered throughout the Province and contain coal presently suitable for thermal purposes only. Although many of these have been mined in the past, only one of these, Hat Creek, is known today to have a measured mineable reserve of significant quantity.

Coal deposits of the Kootenay Formation in the Crowsnest Pass area and in the Gething and Commotion Formations of northeastern British Columbia occur in structurally complex foothills and mountainous terrain. Distribution and extent of the main stratigraphic units are controlled by 'extensive regional faults and *en echelon* folds, resulting in comparatively narrow elongated belts in which coal-bearing strata have been exposed and segregated by erosion in moderate to high-relief terrain. Varying depositional patterns, resulting from coal accumulation in prograding deltaic and alluvial plain environments affect seam continuity, extent, and thickness in both a regional and local context. There is a broad spectrum of combined structural and stratigraphic effects, ranging from mildly flexed strata of relatively uniform characteristics to the steeply inclined, highly deformed, crushed, and friable deposits which are typical of the 'mountain' coals. Coking properties of the coal may be relatively constant, or may vary somewhat in response to composition. Commonly, FSI values are low where the seam is exposed in outcrop, and coking properties may be destroyed in the more structurally deformed deposits through deep oxidation by circulating groundwaters.

The Kootenay coal measures which underlie the Fernie and Elk River basins contain 10 or more mineable seams, with an aggregate thickness in excess of 150 feet. Of these, the Balmer and correlative seams which occur at the base of the sequence may be up to 50 feet thick, and this factor, together with favourable strip-ratios in the currently developed mine areas, accounts for most of the reserves defined to date. The Kootenay coals generally exhibit good coking characteristics and are low in sulphur.

Regional potential of the Gething and Commotion Formations is less well defined. However, a combined total of at least seven mineable seams of medium and low-volatile bituminous coking coal has been identified along much of the foothills belt southeastward from Peace River to the Alberta border. Prospective mine areas which have been most thoroughly investigated are situated within broadly synclinal, structurally less-deformed blocks which appear amenable to underground mining. Other areas which appear to offer attractive open-pit potential are situated along thickened fold limbs.

The intensively mechanized, high-capacity surface-mining operations developed in the East Kootenays emphasize the importance of accurate preproduction assessment of structural, stratigraphic, and quality control aspects of reserve evaluation.

Local deposits of lignite, sub-bituminous, high-volatile bituminous, and semi-anthracite coals, of Upper Cretaceous and Tertiary age, occur in widely scattered areas of British Columbia. Size and economic potential of most of these, including possible reserves in the former coal-mining areas of Vancouver Island, are comparatively small, although they are of potential value for base-load power development as energy costs continue to increase.

An exception to the foregoing is the Hat Creek property which is a Tertiary lignite of limited areal extent but of considerable thickness.

RESERVES

Reserve and resource tonnage figures for 1975 with the exception of thermal coal have not been recalculated since 1974 and hence remain the same. The parameters contained within the Department of Energy, Mines and Resources interim document, January 30, 1975, have been essentially accepted by the British Columbia Department of Mines and Petroleum Resources for its calculations. The data base for reserve and resource calculations has been provided primarily by companies engaged in exploration for coal. The bulk of the reserves and resources are of metallurgical coal because the major coal-bearing formations in the Province contain for the most part only bituminous potential coking coal and because exploration has been market and price oriented, that is, for metallurgical coal.

The geological *in situ* measured reserves of metallurgical coal are 1,843 million short tons. Of this, 1,140 million tons are considered to be recoverable from the ground and from this only 752 million tons can be produced from the preparation plant as clean product coal. Indicated resources of 8,858 million tons and inferred resources of 20,271 million tons were tabulated for metallurgical coal. Slightly more than one-third of the measured reserves of metallurgical coal are considered mineable by surface methods and nearly all of these are in the Crowsnest Coalfield. The major portion of the underground measured reserves is in the Peace River Coalfield.

Geological *in situ* measured reserves of thermal coal are 516 million tons, with 391 million tons of this considered recoverable. Almost all of this is in British Columbia Hydro and Power Authority's Hat Creek deposit. Indicated and inferred resources are respectively, 620 and 1,100 million tons.

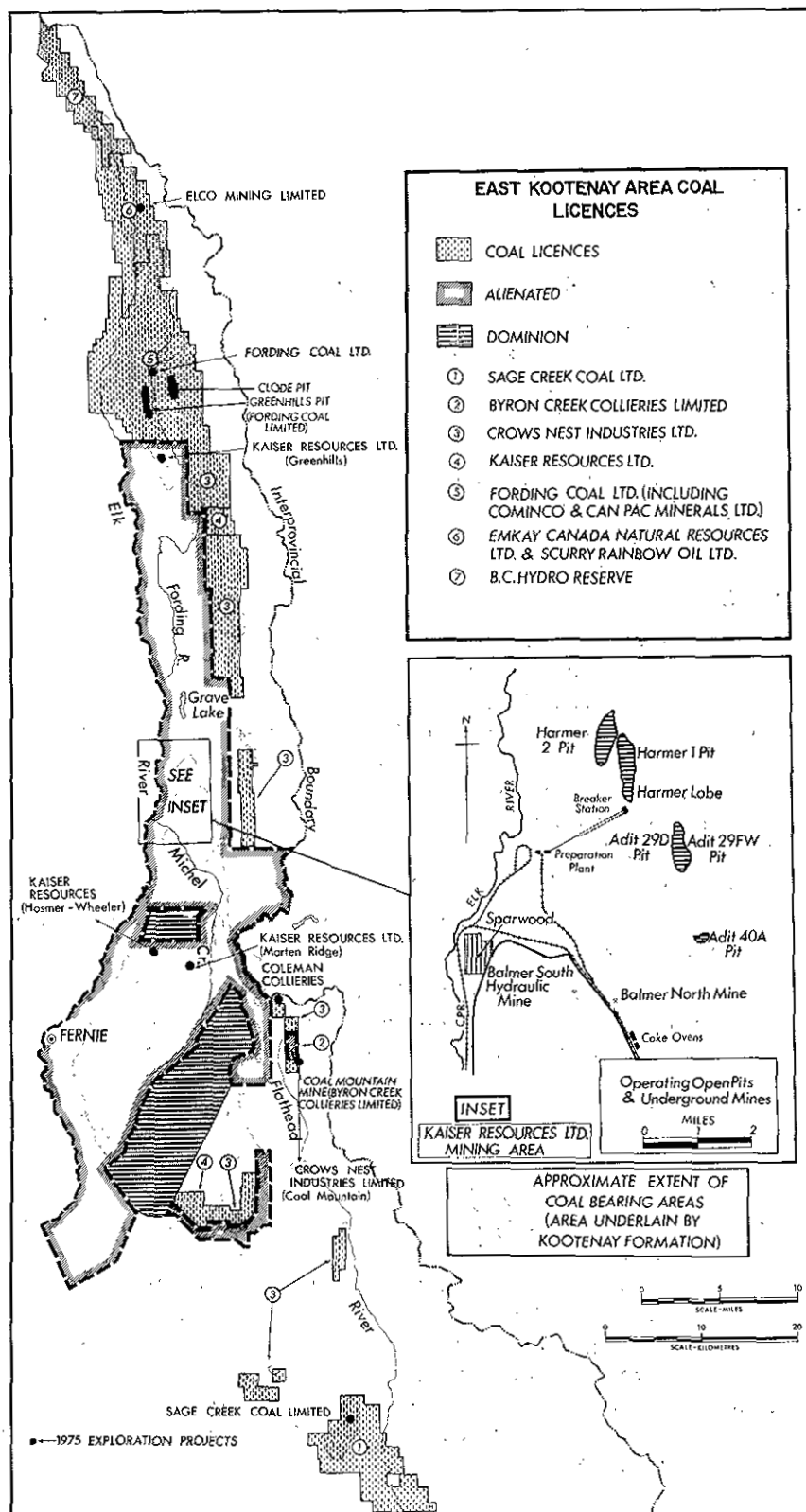


Figure E 4. Fernie Basin: geology and coal licences.

REPORTS ON COAL EXPLORATION

CROWSNEST COALFIELD

SAGE CREEK COAL LIMITED (Fig. E-1, NTS 82G, No. 113)

LOCATION: Lat. 49° 06' Long. 114° 34' (82G/2E)
In the lower Flathead Valley on Cabin Creek, approximately 4 kilometres upstream from its junction with the Flathead River.

LICENCES: CL Nos. 374 to 407, 409 to 411, 603 to 605, 986 to 989, 1880 to 1886.

OWNER: Sage Creek Coal Limited.

OPERATOR: RIO TINTO CANADIAN EXPLORATION LIMITED, 120 Adelaide Street West, Toronto M5H 1W5, Ont.; R. A. Benkis, Geologist, Special Projects.

DESCRIPTION:

In the Flathead Valley the coal measures of the Kootenay Formation lie in the upper plate of the Lewis thrust and locally in the Cabin Creek deposit occur on the east flank of a northwest-trending anticline. Three major mineable seams are present in the deposit. The lowest, termed No. 5, has an average thickness of 10.5 metres and is split by a parting ranging from 0.9 to 2.4 metres in thickness. The middle seam, No. 4, is split by a parting from 0.9 to 12 metres in thickness, producing upper and lower benches with average thicknesses of 8.1 to 6 metres respectively. Seam No. 2, the highest economic seam in the section, has an average thickness of 3.3 metres. The coal-bearing section of the Kootenay in this area is approximately 180 metres thick.

The deposit is split in two segments by the valley of Cabin Creek, with is aligned at right angles to the strike of the strata.

The South Hill (south of Cabin Creek) deposit is complicated by normal faulting trending northwest, causing apparent down-dip repetition. The throw in the faults ranges from 60 to 240 metres and usually drops the beds on the west side. This normal faulting has had the effect of preserving coal-bearing strata up-dip that otherwise would have been eroded from the top of the hill, which is flatter (0–10 degrees) than the beds. The North Hill (north of Cabin Creek) has only a minor amount of faulting and much more closely approximates a dip slope than the South Hill.

WORK DONE: Sixty-two holes were drilled totalling 10 363 metres in depth. One new adit was driven 18.3 metres in rock 76.2 metres in coal and 30.5 metres as a crosscut. Five old adits were deepened 48.5 metres in rock and 150 metres in coal and resampled. Thirty trenches totalling 1 871.5 metres were dug and approximately 6 kilometres of new road was constructed for access to drill holes and trenches.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 413; *B.C. Dept. of Mines & Pet. Res.*, Coal in British Columbia, A Technical Appraisal, 1976, p. 195.

CROWS NEST INDUSTRIES LIMITED (COAL MOUNTAIN)

(Fig. E-1, NTS 82, No. 114)

LOCATION: Lat. 49° 29' Long. 114° 39' (82G/7, 10)
Four kilometres due south of Corbin.

LICENCE: CL No. 414.

OWNER: CROWS NEST INDUSTRIES LIMITED, Box 250, Fernie V0B 1M0;
J. J. Crabb, Vice-President, Exploration.

DESCRIPTION (by J. J. Crabb):

The strata of Coal Mountain are among the most structurally complicated in southeastern British Columbia. Besides being tightly folded the beds are also cut by numerous faults, mostly west dipping.

Coal deposits are concentrated in four synclinal-like structures, three are contiguous along the top and west side while the fourth lies on the east slope.

The east limb of the most southerly syncline is faulted while the west limb continues northward and appears to coalesce with the next and largest syncline. The northerly syncline on the west side is the most complex since the west limb is overturned and the entire structure has been dislocated upward and easterly along at least one fault. The east syncline has the greatest length, extending northward and downward almost to valley floor, some 2 400 metres from its south end.

Contorted Jurassic strata of the Fernie Group comprise the core of the mountain. Near the summit, only a lower portion of the Kootenay Formation containing the 'Mammoth' seam and its overlying protective sandstone caprock has escaped erosion.

Three distinct stratigraphic units of the Kootenay Formation may be identified within Coal Licence No. 414: Basal sandstone (Moose Mountain Member), 'Mammoth' seam and its related shales and coal stringers, and the upper sandstone and shale series.

Main Seam (4.5 metres good coal, 11 metres coal shale, 9 metres clean-looking coal), 20-metre shale interval; Middle Seam (5 metres blocky bright coal — three shale partings), 11-metre shale interval; Lower 'Dirty' Seam (7 metres dull slickensided coal), 4 metres black shale.

WORK DONE: Detailed surface geological mapping at a scale of 1:200 was completed. A total of 2 307 metres of rotary drilling consisting of 11 holes was logged with gamma and neutron devices. New road construction amounted to 975 metres. The coal samples were subjected to FSI and ash tests.

KAISER RESOURCES LTD. (MARTEN RIDGE PROJECT)

(Fig. E-1, NTS 82, No. 116)

LOCATION: Lat. 49° 35' Long. 114° 51' (82G/10W)
The property is located east of the settlement of Hosmer and west of the confluence of Leach Creek on Michel Creek.

LICENCES: Freehold.

OWNER: KAISER RESOURCES LTD., Box 2000, Sparwood; J. B. Murphy, Chief Geologist; G. L. Taylor, Geologist.

DESCRIPTION (by D. E. Pearson):

The eastern boundary of this domain is taken as the Marten Ridge fault, the west branch of which thrusts Fernie Formation shale, basal Kootenay sandstone, and coal measures over Elk Member conglomerates. On the west side of the property, the Reserve fault, which trends north-northeast from the upper reaches of Marten Creek to Wheeler Creek, downthrows the west side by about 120 metres.

The 10 exposed seams in ascending order are 9 lower, 9 upper, 8 lower, 8 upper, 7, 5 lower, 5 upper, 3, 2 lower, 2 upper. The shale partings between the split seams are generally thin (less than 3 metres), but vary considerably, so that the 8 seam parting varies from 12.1 to 27.4 metres, and 4 seam parting from 6.1 to 21.3 metres. The coal measures have a total thickness approaching 400 metres and contain about 45 metres of coal.

The dip of the homoclinal sequence is 20 to 30 degrees to the west.

WORK DONE: Ten hectares of detailed surface geology was mapped and six rotary holes, totalling 890 metres in depth, were drilled and surveyed. All holes were logged with density, gamma and neutron devices, and a caliper log was run on one hole. The coal samples were subjected to FSI and washability tests and proximate analysis.

REFERENCE: *B.C. Dept. of Mines & Pet. Res., Coal in British Columbia, A Technical Appraisal, 1976, p. 182.*

KAISER RESOURCES LTD. (HOSMER WHEELER) (Fig. E-1, NTS 82, 115)

LOCATION: Lat. 49° 36' Long. 114° 53' (82G/10W)

Hosmer Wheeler is in the west central part of the Fernie basin and is bordered on the north by Parcel 73, the northern Dominion Coal Block, on the east by Wheeler Creek and Marten Ridge, and to the southwest by Parcel 69, the old Canadian Pacific Railway Block.

LICENCES: Freehold.

OWNER: KAISER RESOURCES LTD., Box 2000, Sparwood; J. B. Murphy, Chief Geologist.

DESCRIPTION (by D. E. Pearson):

The total thickness of coal measures on Hosmer Wheeler is about 762 metres, of which 79 metres is coal.

The regional structure of this area is dominated by a broad open syncline that plunges southwesterly at between 10 and 30 degrees. The axial trace of this fold continues into the northern Dominion Coal Block, where it is terminated against the Marten Ridge fault (q.v.). Thus, the eastward-dipping homoclinal sequence of coal measures that are exposed on Fernie Ridge and Hosmer Ridge swing south across the centre of the property and dip westerly on Wheeler Ridge. In the south of the area coal measures plunge beneath younger cover rocks.

- WORK DONE:** Approximately 24.5 kilometres of new road was constructed; Five adits were driven a total of 317 metres and five holes were drilled with a total depth of 2 424 metres.
- REFERENCE:** *B.C. Dept. of Mines & Pet. Res.*, Coal in British Columbia, A Technical Appraisal, 1976, p. 177.

COLEMAN COLLIERIES LIMITED (TENT MOUNTAIN)

(Fig. E-1, NTS 82, No. 117)

- LOCATION:** Lat. 49° 33' Long. 114° 41' (82G/11E)
South and east of Tent Mountain, adjacent to the British Columbia-Alberta border, 5 kilometres north-northwest of Corbin.
- LICENCES:** CL Nos. 21 and 22 plus approximately 150 hectares of private lease from Kaiser Resources Ltd.
- OWNER:** COLEMAN COLLIERIES LIMITED, Box 640, Coleman, Alta.; E. W. Beresford, Exploration Manager.

DESCRIPTION:

A sequence of Fernie Formation shales and lower Kootenay Formation sandstones and coal measures appears to be five significant seams; thrust faulting makes correlation more difficult.

The lowest seam (No. 2) varies from 3 to 9 metres and normally contains a shale parting approximately 2 metres thick. Lying 80 to 140 metres above the No. 2 seam is the No. 4 seam, which is 4 to 7 metres in thickness and very continuous throughout the property. The 5B seam, which lies approximately 65 metres above No. 4 seam, is the thickest on the property, ranging from 16 to 26 metres and is of good metallurgical quality with a high wash plant recovery. Fifty metres above No. 5 seam is the No. 6 seam, 2.5 to 8 metres thick and also of high quality. The uppermost seam, No. 7, is rarely present near surface due to the thrust faulting.

- WORK DONE:** Five HQ diamond-drill holes, totalling 1 463 metres, were drilled and logged with gamma, neutron, and sidewall density devices. Sixty-four metres of seam tracing and 301 metres of crosscut trenches were dug and 731 metres of road was constructed on the licence group and 978 metres off licence. FSI tests and proximate analyses were performed.
- REFERENCE:** *B.C. Dept. of Mines & Pet. Res.*, Coal in British Columbia, A Technical Appraisal, 1976, p. 180.

KAISER RESOURCES LTD. (GREENHILLS) (Fig. E-1, NTS 82, No. 118)

- LOCATION:** Lat. 50° 07' Long. 114° 58' (82J/2W)
The property is situated on the southern part of a mountainous ridge between the valleys of the Fording and Elk Rivers.
- LICENCES:** Freehold.
- OWNER:** KAISER RESOURCES LTD., Box 2000, Sparwood; J. B. Murphy, Chief Geologist; L. B. Samuelson, Geologist.

DESCRIPTION (by D. E. Pearson):

The Greenhills area is underlain by a shallow syncline and is separated from the Alexander Creek (Fording) syncline to the east by a regional anticlinal fold that exposes Paleozoic carbonates in its core. The common limits of the Greenhills syncline with this anticline is the locus of the Fording fault, which downthrows the syncline by at least 915 metres.

About 670 metres of coal measures are exposed in the Greenhills, with 91 metres of coal located in 23 seams. Both limbs of the syncline dip inwards at 25 to 40 degrees, but the western limb is locally complicated by thrusts that dip steeper than bedding and have the effect of piggybacking the seams.

WORK DONE: Thirteen rotary holes, 12.4 centimetres in size, were drilled totalling 2 803 metres, 12 of which were logged by density, gamma, and neutron devices with one hole logged for resistance. Surveys were made on approximately 300 metres of surface workings at a scale of 1:4800 and on 100 metres of underground workings at a scale of 1:480. Eight hundred feet of road was constructed. The coal samples were subjected to FSI tests, plasticity tests, proximate analyses, and washability tests.

REFERENCE: *B.C. Dept. of Mines & Pet. Res., Coal in British Columbia, A Technical Appraisal, 1976, p. 170.*

FORDING COAL LIMITED (Fig. E-1, NTS 82, No. 119)

LOCATION: Lat. 50° 12' Long. 114° 52' (82J/2W, 7W)

The property is situated in the upper Fording Valley, approximately 48 kilometres north of Sparwood.

LICENCES: CL Nos. 314 to 364, 419, 420, 507 to 511, 536 to 538, 554 to 560 (Canpac Minerals Limited) and CL Nos. 801 to 804, 943, 944, and 964 (Fording Coal Limited).

OWNERS: Canpac Minerals Limited and Fording Coal Limited.

OPERATOR: FORDING OPERATIONS, COMINCO LTD., Box 100, Elkford V0B 1H0; A. C. Taplin, Senior Mine Geologist.

DESCRIPTION:

The Kootenay Formation is well over 600 metres thick in the Fording River property and contains at least 10 seams of significant thickness, the lowest of which immediately overlie the basal sandstone. No. 4 or B seam is the thickest of the property, having a mean thickness of 10.5 metres and reaching 18 metres in places. In the Greenhills area, total mean thickness of the mineable seams is approximately 54 metres; in the Clode Creek area it is 49.5 metres.

The major structural features of the Fording River property are two northerly trending synclines, one east and the other west of the Fording River, separated by a major normal fault downthrown on the west. Several relatively high-angle west-dipping thrusts, shallow east-dipping and underthrusts, and a few normal faults further complicate the structure.

WORK DONE: Mapping included 830 hectares of detailed surface geology at a scale of 1:1200 and 0.36 hectare of detailed underground geology at scales of

1:240 and 1:600. Surveys included five plates of topography with a 1:2400 scale, 1:1200 scale surveys of surface workings, and 1:600 and 1:2400 scale surveys of underground workings. HQ core, totalling 1 344 metres, was taken from six drill holes and an additional 15 586 metres from 159 rotary holes. Approximately 400 metres of seam tracing was done and 3 600 square metres of underground development was carried out. The coal samples were subjected to FSI and washability tests, and proximate analyses.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 420; *B.C. Dept. of Mines & Pet. Res.*, Coal in British Columbia, A Technical Appraisal, 1976, p. 191.

ELCO MINING LTD. (Fig. E-1, NTS 82, No. 120)

LOCATION: Lat. 50° 24' Long. 114° 57' (82J/7W)
Elk River area, between Aldridge and Cadorna Creeks.
LICENCES: CL Nos. 64, 65, 421 to 434, 481 to 489, 515, 771 to 779, 951 to 957.
OWNERS: Scurry-Rainbow Oil Limited and Canada Permanent Trust Company.
OPERATOR: ELCO MINING LTD., 239 Eighth Avenue SW., Calgary T2P 1B9, Alta.; J. Stobernack, Chief Geologist.

DESCRIPTION:

Rocks of the coal-bearing member of the Kootenay Formation and locally the overlying Blairmore conglomerate which occur in the valley form a north-northwesterly trending asymmetric syncline with its axial plane dipping to the west. This structure is truncated on the western side of the valley by a west-dipping thrust fault which trends northwards. Coal-bearing strata on the eastern side of the valley dip 35 to 40 degrees to the west, whereas on the western side the exposed strata are vertical. The intervening structure is poorly understood, but the numbering and correlation of the seams has been made on the assumption that the structure is a relatively simple syncline.

The average total thickness of mineable coal is 89 metres, comprised of 18 groups of seams. Another 11 metres is contained in five additional seams.

WORK DONE: Reconnaissance geological mapping at a scale of 1:2400 was completed on 2 072 hectares. Twenty HQ diamond-drill holes, totalling 4 457.6 metres, were drilled. All holes were logged with gamma ray, neutron, and sidewall density devices. Drill sites were surveyed. Eight adits, totalling 192.5 metres, were driven; 4 572 metres of road was constructed, and 815 metres of crosscut trenches was dug. Carbonization, FSI, dilatometer, and washability tests, proximate analyses, and petrographic examinations were performed on coal samples from the property.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, Coal in British Columbia, A Technical Appraisal, 1976, p. 189.

COMOX COALFIELD

WELDWOOD OF CANADA LIMITED (Fig. E-1, NTS 92, No. 80)

LOCATION: Lat. 49° 40' Long. 125° 10' (92F/11E, 10W)

A strip of land stretching from some 30 kilometres southeast of Courtenay to 50 kilometres northwest of Courtenay.

LICENCES: Coal and fireclay rights to 62,378 hectares.

OWNER: WELDWOOD OF CANADA LIMITED, 1055 West Hastings Street, Vancouver; Pitt Desjardins, Vice-President.

DESCRIPTION:

The economic coal deposits occur in the lower third of the Comox Formation of the Late Cretaceous Nanaimo Series, which is contained by faulting and tilting to the northeast, with an average dip of 5 to 7 degrees. The dominant fault system appears to trend northwestward.

The coalfield is divided up into five areas: Quinsam, Campbell River, Anderson Lake, Cumberland, and Tsable River. The Cumberland area was intensively mined from 1895 to 1953 and the Tsable River area from 1947 to 1967. Of the four coal seams identified in the Cumberland area only two were worked extensively. They were Nos. 2 and 4, averaging 1.05 and 1.25 metres respectively. No. 1 seam was mined to a lesser extent. The sequence of the Tsable River area is thinner than that of the Cumberland area, the only workable seam occurring near the base, averaging about 1.55 metres.

WORK DONE: In addition to the extensive drilling done in the area from 1895 to 1950, 6 567 metres of rotary drilling in 52 boreholes was carried out in 1975. The work was performed by M. P. Curcio, Coal Consultant, West Vancouver.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1947, pp. 253-255; 1964, pp. 317, 318.

SIMILKAMEEN COALFIELD

BETHLEHEM COPPER CORPORATION (PRINCETON PROJECT)

(Fig. E-1, NTS 92H, No. 85)

LOCATION: Lat. 49° 24' Long. 120° 35' (92H/7E)

In the Similkameen River valley, approximately 2 to 10 kilometres south and southwest of Princeton, between 880 and 990 metres elevation.

LICENCES: CL Nos. 2019 to 2025, 2027 to 2042, 2222 to 2231.

OWNER: BETHLEHEM COPPER CORPORATION, 2100, 1055 West Hastings Street, Vancouver V6E 2H8; Erik Andersen, Project Agent.

DESCRIPTION:

Four major coal zones occur within a 500-metre sedimentary sequence in the Princeton Basin. They overlie as much as 800 metres of alternating sedimentary and volcanic rocks. A 600-metre sequence of sedimentary rocks with only minor coal zones overlie the coal measures.

The northern half of the north-northeast-trending Tertiary basin appears to be a 'block' that has been folded into a very gentle open syncline about a gently plunging easterly trending fold axis. The southern part of the basin is a structural depression having its greatest apparent depth west of the Similkameen River, 7 kilometres southwest of Princeton. McMechan currently believes that block faulting may play a more important role than has previously been realized (that is, block faulting may be more important than folding) but current data does not give a definite answer.

WORK DONE: Two diamond-drill holes totalling 526 metres were drilled, surveyed, and logged in a program that was still ongoing at year end.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, Geological Fieldwork, 1975, pp. 99-103; R. D. McMechan, Princeton Basin, *B.C. Dept. of Mines & Pet. Res.*, Bull, in press; Shaw, W. S., (1952), The Princeton Coalfield, *B.C., Geol. Surv., Canada*, Paper 52-12.

HAT CREEK COALFIELD

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

(HAT CREEK PROJECT) (Fig. E-1, NTS 92I, No. 86)

LOCATION: Lat. 50° 45' Long. 121° 36' (92I/12, 13)
Twenty-four kilometres west-northwest of Ashcroft.

LICENCES: CL Nos. 12, 144, 2753 to 2762, 2991 to 3013, 3655.

OWNER: BRITISH COLUMBIA HYDRO AND POWER AUTHORITY, 900 Burrard Street, Vancouver V6Z 1Y3; T. McCullough, Geologist.

DESCRIPTION (by B. N. Church):

Cover rocks of Tertiary and Cretaceous age, consisting of coal, and sedimentary and volcanic formations, rest with marked unconformity on a Paleozoic basement of metamorphosed carbonate and greenstone beds.

The soft, easily eroded coal and shaly formations are mostly on the floor of the valley, whereas the resistant volcanic rocks and basement formations are found on the valley slopes and ridge crests.

Although extensive glacial deposits have hampered geological investigations to date, much stratigraphic information has been provided from drilling the 'cover rocks.' The most important relations revealed by this work shows that the coal is almost everywhere overlain by a thick claystone sequence which in turn is overlain unconformably by a variety of volcanic rocks, including lahars, and dacite, basalt, rhyolite, and trachyte lavas.

Owing to the great thickness of the claystone and coal, often in excess of 2,500 feet, few drills have penetrated below the main coal horizon. A thick succession of intermixed sandstones, conglomerates, and shales, found lateral to the coal formation, are thought to underlie the coal. In any case, andesitic volcanic rocks of the Kamloops Group (Eocene) and Spences Bridge Group (Cretaceous), exposed peripherally in the valley, most certainly form the base of the 'cover rock' succession.

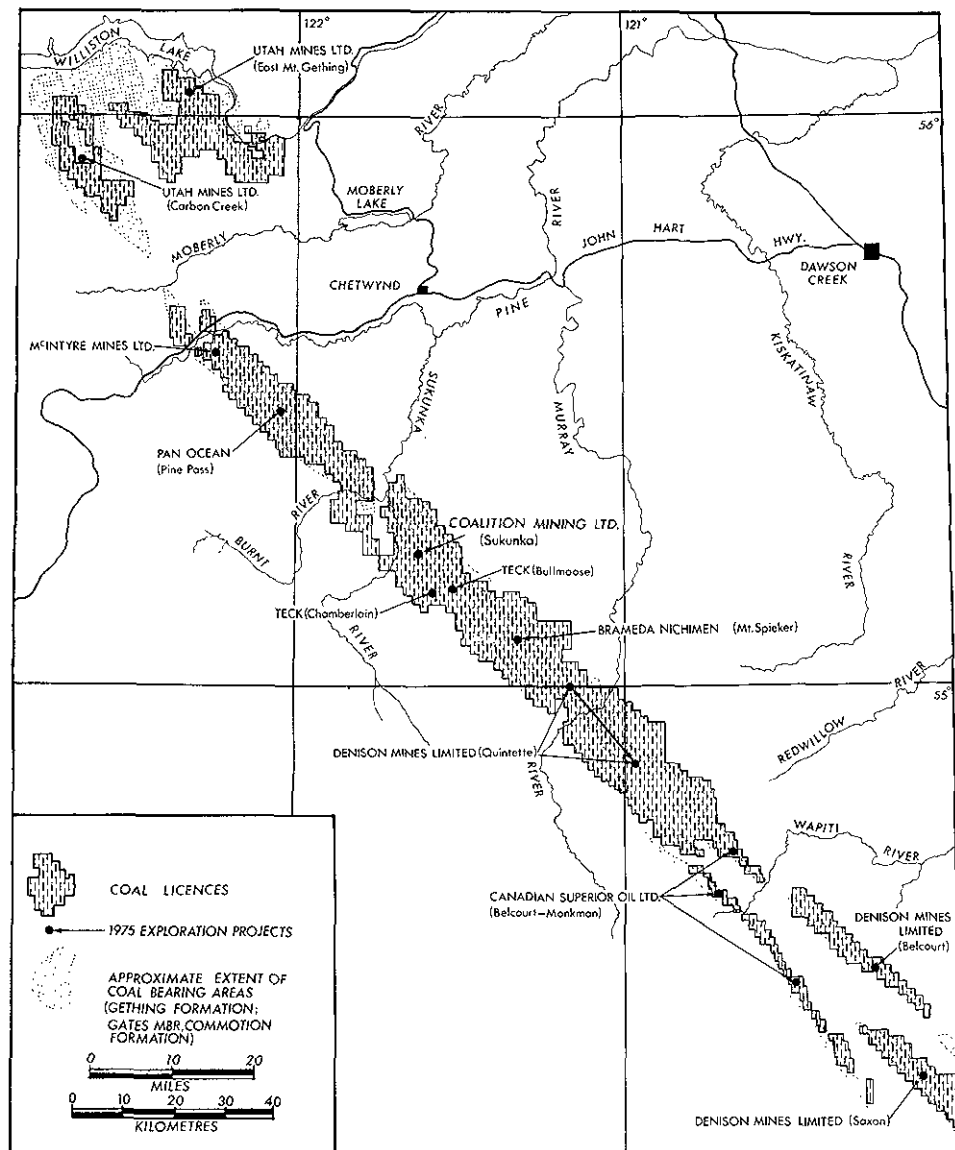


Figure E 5. Foothills Belt, Northeastern British Columbia: geology and coal licences.

The general structure of the Hat Creek basin is simple. The central zone of the valley, underlain mainly by coal and sedimentary formations, has been down-dropped, forming a graben. Apparently this has been achieved principally by downward movement on a series of north-south tension faults trending subparallel to the direction of regional maximum stress. Locally the walls of the graben have been offset somewhat by a series of northwest and northeast-striking conjugate shear faults. An important system of easterly trending gravity faults cutting across the basin is evidently of recent origin, being superimposed on the main graben structures.

WORK DONE: Sixty-eight NO diamond-drill holes totalling 22 416 metres and two rotary holes totalling 801 metres were completed and logged with gamma-density and caliper-resistance devices.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, Coal in British Columbia, A Technical Appraisal, February, 1976, p. 218.

PEACE RIVER COALFIELD

DENISON MINES LIMITED (SAXON PROJECT) (Fig. E-1, NTS 93, No. 71)

LOCATION: Lat. 54° 20' Long. 120° 05' (93I/1, 8)
In the Rocky Mountain Foothills, from Belcourt Creek to the British Columbia/Alberta border.

LICENCES: CL Nos. 2763 to 2812.

OWNER: Saxon Coal Limited.

OPERATOR: DENISON COAL LIMITED, 1500, 444 Fifth Avenue SW., Calgary, T2P 2T8, Calgary; A. A. Johnson, Chief Geologist; G. Jordan, Project Geologist.

DESCRIPTION:

All known coal seams of economic significance on the Saxon property occur within the Gates Member of the Commotion Formation. The member has an average thickness of 365 metres and contains five economic seams totalling 18 metres in thickness. The Gething Formation, which has an average thickness of some 70 metres on the property, does not appear to contain coal seams of significant thickness. G. Jordan has described the structure as a large and complex syncline trending northwest and plunging from both the southern and northern ends to the centre of the property. Smaller scale folding and faulting have brought the coal zone closer to the surface in the centre of the property. A large thrust fault has repeated the coal-bearing strata on the eastern portion of the property. Considerable tonnages of low sulphur, low ash, medium volatile coal are contained in steeply dipping structures and appear to be surface mineable.

WORK DONE: Detailed surface geological mapping at a scale of 1:5000 was carried out over 13 592 hectares.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1972, p. 639.

DENISON MINES LIMITED (BELCOURT PROJECT) (Fig. E-1, NTS 93, No. 72)

LOCATION: Lat. 54° 30' Long. 120° 15' (931/8, 9)
 Rocky Mountain Foothills, Ptarmigan Mountain northwest to Little Prairie Creek.

LICENCES: CL Nos. 2822 to 2850.

OWNER: Belcourt Coal Limited.

OPERATOR: DENISON COAL LIMITED, 1500, 444 Fifth Avenue SW., Calgary T2P 2T8, Alta.; A. A. Johnson, Chief Geologist; G. Jordan, Project Geologist.

DESCRIPTION:

The property contains Lower Cretaceous strata from Minnes Group, at the base of the section through to the Shaftesbury Formation, along a strike distance of 30 kilometres, from Ptarmigan Mountain northwestward to Little Prairie Creek.

Structure varies greatly from northwest to southeast. The area to the northwest of Red Deer Creek is characterized by large southeasterly plunging folds. Southeast of Red Deer Creek the property covers the southwestern limb of a broad, southeasterly plunging syncline. Between Red Deer Creek and Holtslander Creek the structure has been complicated by folding, minor faulting, and a number of southwesterly dipping thrust faults between two of which Gates Member strata have been overturned to the southwest, over a fairly large area to the southeast of Belcourt Creek.

The coal-bearing strata of the property is the Gates Member of the Commotion Formation, which has an average thickness of 580 metres, containing 46 metres of coal in 11 seams between Red Deer and Belcourt Creeks. The four largest seams from the base of the Gates Member, upsection, are the Ptarmigan, 10 metres; Holtslander, 6 metres; Belcourt, 4.5 metres; and Red Deer, 4 metres. The remainder of the coal occurs in seven seams ranging from 3 to 3.5 metres in thickness.

WORK DONE: Detailed surface geological mapping at a scale of 1:5000 was carried out over 5 261 hectares.

CANADIAN SUPERIOR OIL LTD. (BELCOURT-MONKMAN)

(Fig. E-1, NTS 93, No. 73)

LOCATION: Lat. 54° 45' Long. 120° 45' (931/8, 10, 15)
 South and east of Kinuseo Creek to Belcourt River, immediately east of the Rocky Mountain front ranges, 140 kilometres due south of Dawson Creek.

LICENCES: CL Nos. 3131 to 3135, 3138, 3139, 3141 to 3149, 3151 to 3155, 3157 to 3164, 3166 to 3168, 3170 to 3174, 3177 to 3184, 3187 to 3190, 3195 to 3207, 3209 to 3264.

OWNERS: Canadian Superior Exploration Limited and McIntyre Mines Limited.

OPERATOR: CANADIAN SUPERIOR OIL LTD., 355 Fourth Avenue SW., Calgary, Alta.; G. E. Hargreaves, Manager, Coal Geology; J. Fenniak, Drilling Engineer.

DESCRIPTION:

The licences cover two narrow linear belts of Lower Cretaceous strata of the Bullhead and Fort St. John Groups, along the limbs of a broad northwesterly trending anticlinal structure. The two belts differ greatly in structural complexity. The southwestern belt, which extends from the Narraway River northwestward to Kinuseo Creek over a strike length of 70 kilometres, is relatively undeformed with dips in the order of 30 degrees to 50 degrees to the southwest. In the northwestern part of the belt, the strata have been folded into two doubly plunging synclines trending northwest.

En echelon folds trending northwest, cut by southwesterly dipping thrusts, characterize the more deformed northeastern belt, which extends from Wapiti River to Kinuseo Creek over a strike length of 27 kilometres.

The Gates Member of the Commotion Formation is the main coal-bearing sequence, however coal seams of possible economic importance do occur in the Gething Formation. In the southwestern belt, coal seams occur along the entire strike length in the Gates Member, which has an average thickness of 300 metres. As yet no attempt has been made to correlate the seams, which pinch out and split laterally over relatively short distances. In the Mount Belcourt area, the member contains three seams over 1.5 metres, totalling 14 metres of coal, while north of the Wapiti River there are six seams over 1.5 metres, with a total of 18 metres of coal.

In the northeastern belt, the Gates Member has an average thickness of 450 metres and contains four seams totalling 16 metres of coal in the Quintette and Duke Mountain areas. The Gething Formation which averages 90 metres contains a 4-metre seam in the Quintette and Duke Mountains areas, a 2.8-metre seam south of the Wapiti River, in the southwestern belt, and a few minor seams less than 1 metre.

WORK DONE: Geological mapping included 26 795.6 hectares of reconnaissance mapping at a scale of 1:50 000 and detailed surface mapping at a scale of 1:12 000 near the drill holes. Three diamond-drill holes, totalling 2 193 metres in depth, were completed, all of which were logged by density, gamma, and neutron devices. FSI testing and proximate analyses were performed on the coal samples.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 583.

DENISON MINES LIMITED (QUINTETTE PROJECT)

(Fig. E-1, NTS 93, No. 74)

LOCATION: Lat. 55° 00' Long. 121° 00' (93I/14, 15; 93P/3)
Along the foothills between Bullmoose and Kinuseo Creeks, 112 kilometres southwest of Dawson Creek.

LICENCES: CL Nos. 3279 to 3406, 3592 to 3606, 3618 to 3633.

OWNER: Quintette Coal Limited.

OPERATOR: DENISON COAL LIMITED, 1500, 444 Fifth Avenue SW., Calgary, Alta.; A. A. Johnson, Chief Geologist; G. P. Gormley, Project Geologist.

DESCRIPTION:

Both the Gates Member of the Commotion Formation and the Gething Formation contain coal seams of mineable thickness on the Quintette property, with the Gates

containing the major portion of the reserves, especially in the Babcock area. The Gates attain a stratigraphic thickness of 345 metres.

There are six seams of mineable thickness in the Babcock area, but three of these are considered to contain too many bands of rock or other impurities to be mineable at the present time. The remaining three are relatively clean seams of thicknesses in excess of 3 metres, and all are considered to be high-quality metallurgical coking-coals. The structure underlying the Babcock Mountain area includes an extensive area of gently dipping seams bounded on the southwest by the Waterfall Creek syncline, an upright fold with steeply dipping limbs. These structures contain nearly all of the measured underground reserves. However, a considerable tonnage of coal recoverable by open-pit methods has been discovered on the Quintette property. In the Babcock area, two pits have been delineated, the Windy and Roman. The Windy pit is the surface extension of the underground reserves in the nearly flat strata underlying Babcock Mountain. The Roman pit is located within a fairly simple chevron fold on the southern end of the Murray syncline. Here five seams have an aggregate thickness of over 12 metres.

North of the Murray River in the Wolverine area, two more pits have been delineated. The Sheriff pit is located on Mast Ridge and is contained in a complex syncline overlying a large thrust fault. The Deputy pit is situated in a smaller syncline immediately to the southwest, and is contiguous with the Sheriff pit. Two seams totalling nearly 15 metres in thickness constitute the bulk of the reserves. The Frame pit, southwest of the Sheriff pit, is located in the Mast syncline, an area of relatively minor faulting. Five seams are developed here also, but two seams are thinner, giving an aggregate thickness of 12 metres.

WORK DONE: Reconnaissance and detailed surface geological mapping was done on a scale of 1:4800. A topographic survey at a scale of 1:25 000 and surface workings survey at a scale of 1:2500 were completed. Twelve HQ diamond-drill holes totalling 1 053 metres and two NQ diamond-drill holes totalling 424 metres were drilled. Thirty-six rotary hammer drill holes totalling 2 192 metres were drilled and 48 of the drill holes were logged by gamma, neutron, and density devices. The coal samples were subjected to FSI, plasticity, and washability tests, pyroximate analyses, and petrographic examinations.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 424; *B.C. Dept. of Mines & Pet. Res.*, Coal in British Columbia, A Technical Appraisal, 1976, p. 164.

McINTYRE MINES LIMITED (FALLING CREEK) (Fig. E-1, NTS 93, No. 75)

LOCATION: Lat. 55° 35' Long. 122° 15' (93O/9E)
South of Mount Hulcross and Pine River.

LICENCES: CL Nos. 3265 to 3278.

OWNER: McINTYRE MINES LIMITED, Box 51, Commerce Court West,
Toronto, Ont.; D. L. McKelvie, Regional Geologist.

DESCRIPTION:

The property, lying between Falling and Willow Creeks, is underlain by Lower Cretaceous rocks including the Gething, Moosebar, and Gates Formations. Although outcrop is limited it is believed that only the Gates and Moosebar Formations are exposed at the surface. Several significant coal seams have been reported in the Gething Formation by previous workers in adjacent areas (*see references*). The structure in the area as mapped by Stott (1961) and Muller (1961) consists of a series of subparallel folds and faults generally trending northwest-southeast. Dips appear to be generally less than 30 degrees.

WORK DONE: One diamond-drill hole was completed to a depth of 195 metres.

REFERENCES: *Geol. Surv., Canada*, Spivak, J., 1944, Paper 44-7; Muller, J. E., 1961, Map 11-1961; and Stott, D. F., 1961, Paper 61-11; *B.C. Dept. of Mines & Pet. Res.*, McKechnie, N. D., 1955, Bull. 36; Hughes, J. E., 1967, Bull. 52; A Report for McIntyre Mines Limited on their Falls Mountain Coal Project, by Paul Dyson Consultants, open file report.

UTAH MINES LTD. (CARBON CREEK) (Fig. E-1, NTS 93, No. 78)

LOCATION: Lat. 55° 55' Long. 122° 40' (93O/15; 94B/2)
South of Williston Lake, along Carbon Creek.

LICENCES: CL Nos. 3445 to 3505.

OWNER: UTAH MINES LTD., 1600, 1050 West Pender Street, Vancouver V6E 3S7; D. N. le Nobel, Geologist.

DESCRIPTION:

Coal-bearing rocks of the Gething Formation are contained in the Carbon Creek basin, a broad relatively simple northwesterly trending syncline, 2.4 metres in width and 32 kilometres in length. The northern part of the basin is a simple syncline fold plunging gently southeastward, whereas the southern part is more complex with several subsidiary folds and flexures. The Carbon Creek fault, a high angle, westward-dipping thrust fault with a trend nearly parallel to the synclinal axis, complicates the basin in the Eleven Mile Creek area. In addition, numerous *en echelon* folds and reverse faults are present in this area.

In the upper 270 metres of the Gething Formation over 50 coal beds have been identified, but only 12 are over 1.5 metres thick. These are irregular in thickness, exhibiting a lenticular character over relatively short distances. The principal seams are up to 4 metres thick, but are known in only a few bore holes and often contain shale partings. Total known thicknesses of mineable coal in any one locality at no place exceed 15 metres.

The exploration for coal has been on the western limb of the syncline in the north central sectors of the property, and on the eastern limb in the southeast sector. Drill holes in the north and central sectors have been most successful in discovering coal seams with *economic potential*.

WORK DONE: Limited detailed surface mapping was done at a scale of 1:12 000; 6.18 line-kilometres of seismic survey was run; 36 diamond-drill holes totalling 2 318 metres were drilling and the majority were logged with

gamma, resistivity, and density devices; and 38 kilometres of road was constructed. Carbonization, FSI, and washability tests and proximate analyses were performed on the coal samples.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, Coal in British Columbia, A Technical Appraisal, 1976, p. 198.

BRAMEDA – NICHIMEN (MOUNT SPIEKER) (Fig. E-1, NTS 93, No. 76)

LOCATION: Lat. 55° 08' Long. 121° 28' (93P/3W)
Approximately 65 kilometres south of Chetwynd, from Mount Spieker south to the headwaters of Perry Creek.

LICENCES: CL Nos. 3034, 3039, 3044 to 3047, 3049 to 3051.

OWNER: Brameda Resources Limited.

OPERATOR: NICHIMEN RESOURCES LIMITED, 2020, 1055 West Georgia Street, Vancouver; N. E. Roberts, Project Manager.

DESCRIPTION:

The strata have undergone a moderate amount of deformation on the property. The southwest portion is folded into a broad northwest-trending syncline with dips varying from 0 to 60 degrees. The northeast portion is separated from the southwest by a local anticlinal structure but the area is generally flat to gently dipping with dips under 10 degrees. Coal of mineable thickness is present in both the Gething Formation and the Gates Member of the Commotion Formation. Within the Gething Formation, the Bird seam is well developed averaging 2.3 metres in thickness, however the Skeeter seam is only 1.5 to 2.4 metres in the west and thins southeastward and the Chamberlain and Middle seams are very thin.

Coal seams within the Gates Member are much better developed, especially in the southeast. It is believed that four distinct seams exist with an average aggregate thickness of approximately 12 metres. Individual seam thicknesses up to 5.1 metres have been recorded.

WORK DONE: Three NQ diamond-drill holes totalling 876 metres were logged by gamma, neutron, and density devices. Surface work included 8.54 kilometres of roadwork and 700 metres of seam tracing. Washability tests and proximate analyses were done on the coal samples.

TECK CORPORATION LTD. (BULLMOOSE) (Fig. E-1, NTS 93, No. 80)

LOCATION: Lat. 55° 08' Long. 121° 28' (93P/3W)
Sixty kilometres due south of Chetwynd, east of Sukunka River, between Skeeter and Bullmoose Creeks.

LICENCES: CL Nos. 3015, 3018, 3021 to 3024, 3043, 3048.

OWNER: Brameda Resources Limited.

OPERATOR: TECK CORPORATION LTD., 1199 West Hastings Street, Vancouver; W. R. Bergey, Vice-President, Exploration; R. S. Verzosa, Geologist.

DESCRIPTION:

A broad relatively shallow northwest-southeasterly trending syncline occupies essentially all of the Bullmoose property. The western limb in the northern part of the property is the eastern limb of the anticline on the Chamberlain property. The synclinal axis lies approximately 1.5 kilometres east of Mount Chamberlain and can be traced south of Bullmoose Creek. Rocks as young as the Boulder Creek Member lie in the syncline in the north but Gates strata occupy the axis of the syncline south of Bullmoose Creek.

Within the Gething Formation both the Bird and Chamberlain seams occur as well-developed coal intervals. The Chamberlain seam varies between 1.8 and 4 metres in the northern part of the property but thins rapidly to the south to less than 0.6 metre in thickness at Bullmoose Creek. The Bird seam varies on the property from 1 to 3 metres but is generally about 2 metres in thickness. Gates coals are not so well exposed but thicknesses in the order of 4 metres have been recorded.

WORK DONE: One NQ diamond-drill hole was completed to a depth of 655 metres. Proximate analyses and washability tests were done on samples recovered from the core.

TECK CORPORATION LTD. (CHAMBERLAIN) (Fig. E-1, NTS 93, No. 83)

LOCATION: Lat. 55° 10' Long. 121° 35' (93P/4E)
Sixty kilometres due south of Chetwynd, west of Bullmoose Mountain and east of the Sukunka River. The property is immediately west of the Bullmoose property.

LICENCES: CL Nos. 3554 to 3559.

OWNERS: Brameda Resources Limited and Teck Corporation Ltd.

OPERATOR: TECK CORPORATION LTD., 1199 West Hastings Street, Vancouver;
W. R. Bergey, Vice-President, Exploration; R. S. Verzosa, Geologist.

DESCRIPTION:

The strata on the Chamberlain property are tightly folded into an anticlinal structure trending northwest-southeast. The axis of the anticline passes just west of Mount Chamberlain. Dips on the west limb are between 20 and 45 degrees but are much steeper, 50 to 75 degrees, on the east limb. A complete section from the Gething Formation to the Boulder Creek Member of the Commotion Formation is exposed on the property. Both the Bird and Chamberlain seams have been exposed by trenching on the property. The Bird seam consists of three splits with an aggregate thickness of 11 metres including 4 metres of shale bands. The Chamberlain seam is believed to be 2 to 2.5 metres thick on the property. Coal is present in the Gates Member with maximum recorded thicknesses of 3 metres.

WORK DONE: Approximately 5.2 kilometres of road was constructed, of which 4 kilometres was on the licence group. Also completed were 365 metres of seam tracing and 289 metres of crosscut trenches. Proximate analyses were performed on samples from trenching.

COALITION MINING LIMITED (SUKUNKA) (Fig. E-1, NTS 93, No. 77)

LOCATION: Lat. 55° 15' Long. 121° 38' (93P/4)
 Sukunka River area, 58 kilometres south of Chetwynd, on the west slope of Bullmoose Mountain.

LICENCES: CL Nos. 3089 to 3129.

OWNER: National Trust Company Limited.

OPERATOR: COALITION MINING LIMITED, 1103, 1177 West Hastings Street, Vancouver V6E 2K3; C. B. Newmarch, Vice-President, Exploration.

DESCRIPTION:

In the Sukunka area coal is present in both the Gates Member of the Commotion Formation and the Gething Formation. No seams thicker than 1.5 metres are known in this area in the Gates and hence exploration has been concentrated on the Gething, which is approximately 240 metres thick. Eight coal seams are known in the Gething, four of which are in the lower 45 metres of the formation. The upper two of these lower four seams are known as the 'middle coals' and contain numerous claystone bands. The two major seams are the Chamberlain and Skeeter seams, which are approximately 180 and 187.5 metres respectively above the base of the Gething Formation. The Bird seam is in the uppermost 3 metres of the formation.

The Gething strata on the Sukunka property are within a broad relatively undeformed syncline bounded on the northeast by the Bullmoose fault complex, an extensively faulted major anticlinal structure. Within the syncline the gently dipping strata have been dislocated into three blocks or structural plates by a series of thrust faults.

Two major thrust faults, the Chamberlain fault and the Skeeter fault, form the western and eastern boundaries respectively of Plate 2. Plate 1 lies to the west and Plate 3 to the east. Gentle undulatory folds are also present with axes oriented southeasterly parallel to the thrust faults. The regional plunge is southeast in the northern part of the property and northwest in the southern part.

The Chamberlain seam is 2.4 metres thick over much of the property and ranges up to 4 metres in places on Plate 2. The seam is split into lower and upper members but only the lower is mineable and has been included in the reserves. The Skeeter seam occurs throughout the area but mineable thicknesses only occur in the northern sector. This seam is 2 metres or more thick in Plate 1 and the northern part of Plate 2. Locally it thickens to 4 metres.

WORK DONE: Ten thousand six hundred nineteen hectares of reconnaissance mapping at a scale of 1:12 000 was done. Additionally at a scale of 1:1200, 58 hectares of detailed surface geological mapping and 6.5 hectares of detailed underground geological mapping were done. A topographic survey and surveys of both surface and underground workings were done at a scale of 1:1200. Thirty-two HQ diamond-drill holes totalling 1 114 metres in depth were completed and gamma, neutron, and density logged. Surface work included 19.3 kilometres of seam tracing and seven trenches, 6 metres long and six test adits totalling 2 027 metres were driven. Approximately 7.5 kilometres of road was constructed. The coal samples were subjected to FSI and washability tests and proximate analysis.

REFERENCES: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1974, p. 423; *B.C. Dept. of Mines & Pet. Res.*, Coal in British Columbia, A Technical Appraisal, 1976, p. 162.

PAN OCEAN OIL LTD. (PINE PASS) (Fig. E-1, NTS 93, No. 79)

LOCATION: Lat. 55° 30' Long. 122° 00' (93P/5; 93O/8, 9)
Thirty-five kilometres southwest of Chetwynd, between the headwaters of Hasler and Mink Creeks.

LICENCES: CL Nos. 910 to 2930, 2941 to 2952, 3560, 3562, 3563, 3565 to 3567, 3570 to 3591.

OWNER: PAN OCEAN OIL LTD., 1050, 355 Fourth Avenue SW., Calgary, Alta.

DESCRIPTION:

To date economically attractive coal seams have only been found within the upper 130 metres of the Gething Formation. Two coal zones varying between 2 and 6 metres exist and contain among others a 2.5-metre low-ash seam. The seams in the lower Gething are thin and do not appear to have significant lateral extent. No coal has been observed in outcrop of the Gates Formation, however no boreholes have penetrated this formation.

Although in the eastern portion of the property considerable areas have dips generally less than 30 degrees, much of the property appears to have been extensively folded and faulted. On the west side of Falling Creek and on the upper part of Hasler Creek, the strata are deformed in a faulted steeply dipping anticlinal/synclinal structure.

WORK DONE: Nine NQ diamond-drill holes totalling 2 527 metres were logged by gamma, neutron, and density instruments. FSI and washability tests and petrographic examinations were performed on the coal samples.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, pp. 587, 588.

UTAH MINES LTD. (EAST MOUNT GETHING) (Fig. E-1, NTS 94, No. 41)

LOCATION: Lat. 56° 02' Long. 122° 20' (94B/1)
On the east flank of Mount Gething, between Gaylord Creek and Lake Williston.

LICENCES: CL Nos. 3506 to 3529.

OWNER: UTAH MINES LTD., 1600, 1050 West Pender Street, Vancouver V6E 3S7; D. N. le Nobel, Geologist.

DESCRIPTION:

The property lies on the western limb of the northwesterly trending Dunlevy syncline. Gently dipping sandstones, shales, and coals of the Gething Formation conformably overlie the coarse-grained conglomeratic sandstones and conglomerates of the Cadomin Formation. Although drilling has penetrated nearly all of some 500 to 600 metres of Gething believed to exist, only one seam, possibly the Grant seam, is thicker than 1.6 metres. The remainder of the seams are generally less than 1 metre thick.

Coal

WORK DONE: Three diamond-drill holes totalling 740 metres in depth were drilled and logged with gamma and resistivity devices. The samples were subjected to FSI and washability tests and approximate analysis.

REFERENCE: *B.C. Dept. of Mines & Pet. Res.*, GEM, 1973, p. 588.

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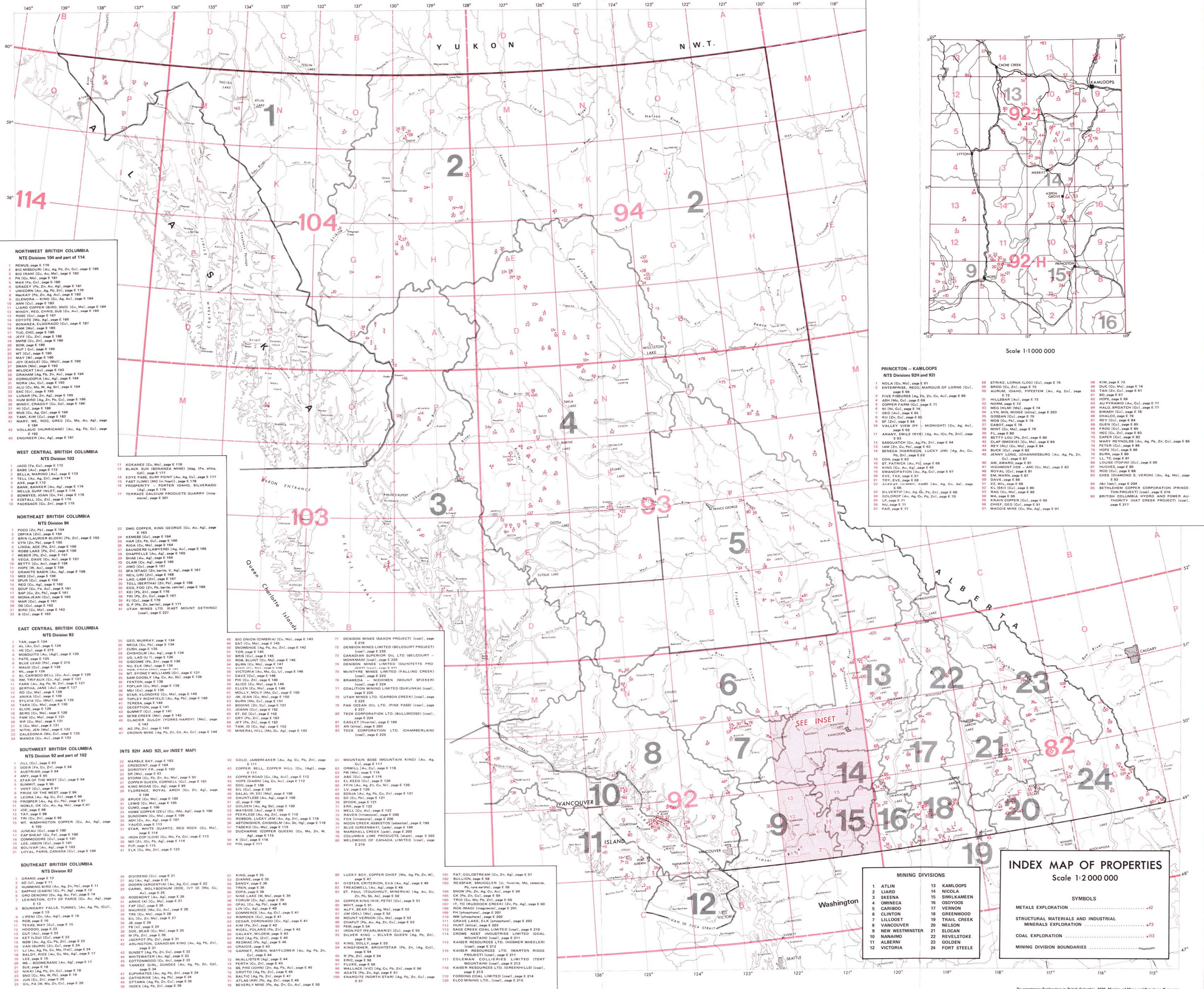
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6 CLINTON	18 GREENWOOD
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