

Exploration
in British Columbia

1978



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

VICTORIA
BRITISH COLUMBIA
CANADA

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

ORGANIZATION

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 gathered together as a general review of the industry in the final bound volume.

A map showing the distribution of currently explored properties is in the pocket of *Exploration* (Fig. E-1). Two maps (Figs. M-1 and M-2) are included in the pocket in *Mining*. Figure M-1 shows the major producing mines (more than 1 000 tonnes); M-2 shows the locations for all property writeups.

All reports are arranged sequentially according to the National Topographic System (NTS) 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, Ministry of Lands, Parks and Housing.

SOURCES OF INFORMATION

A considerable amount of information in the following reports is supplied by mining and exploration companies. Partially completed forms are sent to explorers as a result of receipt of a completed Form 10-11, Notice of Work on a Mineral Property. The co-operation of explorers in completing the forms is gratefully acknowledged. This information is augmented by staff geologists and inspectors and edited and assembled by Mineral Inventory and Publication Sections. Other information is gathered by forms submitted jointly by Economics and Planning Division of the Ministry and Statistics Canada.

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, 1978 are summarized and published herein. The last report summarized for the current publication is Assessment

Report 7133. Assessment Reports accepted after April 1, concerning properties for which exploration questionnaires have already been submitted to the Ministry, are entered as references on the property write-ups until this manuscript is finalized for publication. Reports accepted in 1978 for work done in 1977 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 1975, has been included with the references (for example, Mineral Inventory 82E/SE-1). Where practicable, all names of claims comprising a property are given under the heading 'claims.'

OWNERSHIP

Where possible the owner (or owners) of the claims reported is stated. For located claims the owner is taken directly from Ministry 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.

EXPLORATION

GENERAL STATEMENT

Exploration for metals in 1978 increased significantly from \$26 177 389 in 1977 to \$29 475 341. This increase is associated with second-stage detailed exploration programs on properties acquired in the new wave of grassroots investigations begun in 1977.

Exploration for coal in 1978 increased slightly from \$19 539 213 in 1977 to \$19 800 923, maintaining the major increase in activity due to the acquisition of coal licences since the removal of the moratorium on coal land applications. Activity was still concentrated in the Peace River Coalfield, but coal exploration and development were evident in all established coalfields of the Province.

Exploration for industrial minerals, structural materials, and placer in 1978 decreased from \$559 065 to \$459 280. However, the 1977 figure was abnormally high due to major capital costs that year, and the 1978 figure still represents a dramatic increase over expenditures of previous years.

TABLE E-1. EXPLORATION AND DEVELOPMENT EXPENDITURES
1974, 1975, 1976, 1977, AND 1978

	Physical Work and Surveys \$	Administration, Overhead, Land Costs, Etc. \$	Construction, Machinery and Equipment, Other Capital Costs \$	Totals \$
Exploration on undeclared mines:				
Metals —				
1974	18 773 326	6 525 678	128 144	25 427 348
1975	15 366 152	5 298 367	442 327	22 106 946
1976	20 437 190	6 365 331	381 416	27 183 927
1977	19 097 699	6 974 231	106 059	26 177 989
1978	22 724 774	5 715 214	1 035 353	29 475 341
Coal —				
1974	3 450 746	824 849	16 958	4 354 553
1975	9 555 507	3 057 842	—	13 013 350
1976	9 234 989	3 678 993	—	12 913 982
1977	14 741 425	4 797 788	—	19 539 213
1978	15 289 251	4 511 672	—	19 800 923
*Others —				
1974	42 706	11 134	—	53 840
1975	90 625	35 679	—	125 704
1976	73 453	47 760	—	121 213
1977	327 113	9 860	222 092	559 065
1978	342 100	117 180	—	459 280
Totals —				
1974	22 266 778	7 421 861	147 102	29 835 741
1975	26 411 684	8 391 889	442 327	35 245 900
1976	29 744 902	10 091 884	381 416	40 218 302
1977	34 165 637	11 781 879	328 151	46 275 667
1978	38 356 225	10 343 966	1 035 353	49 735 544

*Industrial minerals, structural materials, and placer.

METALS EXPLORATION

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TABLE E-2

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Exploration expenditure (dollars)* . . .	44 400 000	46 000 000	39 100 000	38 200 000	37 300 000	26 400 000	22 100 000	27 200 000	26 200 000	29 500 000
Number of companies*	422	481	407	389	352	228	121	136	222	172
Claims recorded	84 685	69 546	57 778	78 901	35 659	16 971†	11 751†	28 970†	37 151†	37 242
Certificates of work	88 954	118 633	106 704	97 573	128 641	48 071	39 403	36 729	39 711	65 705
Free miners' certificates—										
Individual	9 880	10 034	9 351	9 032	7 084	9 998	8 484	7 826	7 566	9 444
Companies	1 060	911	930	927	563	700	562	555	520	531

* From returns to Economics and Planning Division.

† Unit modified grid system.

TABLE E-4. SUMMARY OF ASSESSMENT REPORTS*

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978†
Value of work done (dollars)*	2 100 000	4 400 000	3 800 000	4 100 000	4 600 000	5 900 000	8 500 000	7 100 000	7 600 000	9 000 000
Geological surveys	158	184	158	203	221	89	94	119	150	153
Geophysical surveys—										
Ground	262	304	267	310	292	119	112	115	159	203
Airborne	47	28	20	17	30	7	4	6	11	10
Geochemical surveys	292	304	327	308	338	136	127	153	198	223
Drilling—										
Surface (diamond)	**	**	**	**	45	160	139	120	94	99
Other (rotary, percussion, underground)	**	**	**	**	9	39	32	44	37	38
Prospecting	**	**	**	**	17	29	40	35	26	37
Linecutting, topographic	43	34	51	61	68	31	32	31	65	56
Number of assessment reports	569	622	583	637	698	456	416	439	427	436
Number of companies	303	326	321	348	355	232	212	229	198	205
Number of properties	383	513	499	534	466	384	342	381	366	371

* From Geological Division sources. Based on year work done except value of work done (dollars) for years 1969 to 1976 inclusive, which is based on year report accepted.

** Not applicable — type of work not accepted for technical assessment report credit.

† Incomplete — final figures to be published in *Exploration in British Columbia, 1979*.

REVIEW OF METALS EXPLORATION AND PROSPECTING

By N. C. Carter and J. A. Garnett

GENERAL REVIEW

Although the number of companies reporting work on properties decreased in 1978, mineral exploration expenditures in British Columbia showed an increase of 12 per cent over last year, to \$29 500 000. This increase is indicative of the detailed property investigations on a smaller number of significant occurrences that are a natural progression from the grassroots exploration cycle begun in 1977. Table E--2 shows exploration expenditure, claims recorded, etc., from various ministerial sources for a 10-year period. Table E--3 is a summary of information on metal exploration from this volume, arranged by NTS quarter block, relating type and amount of work. These indices of metal exploration document the characteristics of this second stage of exploration activity. The number of claims are up only marginally, reconnaissance surveys are down, and preliminary physical work has been significantly reduced. In contrast, sample assaying shows a major increase and surface diamond drilling is up 34 per cent from 1977. Underground diamond drilling is up 1 100 per cent.

Table E--4 is derived from information extracted from 436 assessment reports reporting work done in 1978. Total value of this work was \$9 000 000. Although the number of technical reports submitted is about the same as last year, the increase in expenditure of \$1 400 000 is due to the detailed and more expensive investigations conducted on many of the same properties reported first in 1977.

The most attractive mineral commodities explored for were molybdenum, uranium, tungsten, and tin. A notable feature of the 1978 exploration scene was the relatively low level of porphyry copper investigations, a reflection of depressed world copper prices over the past three years. However, exploration and development of massive sulphide deposits containing copper, zinc, gold, and silver increased over 1977.

DISTRIBUTION OF EXPLORATION

The areal distribution of exploration work on metallic mineral properties in 1977 and 1978 can be compared by referring to two maps of the Province (Figs. E--3 and E--2). It should be noted that although these maps display distribution densities, they do not reflect total expenditures.

The most active metal exploration areas in the Province included, from north to south: the Surprise Lake--Atlin area (uranium, tungsten/tin), Kechika--Gataga Rivers (stratiform lead/zinc), Fraser Lake--Vanderhoof and central interior (uranium), Barkerville area (placer gold), North Thompson River area (stratiform copper), Highland Valley--Aspen Grove area (porphyry molybdenum/copper), and the southeast Okanagan--Boundary area (uranium).

TABLE E-3. SUMMARY OF EXPLORATION EFFORT*

NTS	No. of Properties	Geophysical Surveys								Geochemical Surveys			Surface D.D.		Other Drilling			Physical Work					
		Geological Mapping		Ground						No. of Surveys	Soil and Silt (No. of samples)	Rock Chip (No. of samples)	No. of Properties	Metres	No. of Properties	Rotary (metres)	Percussion (metres)	Underground D.D. (metres)	Trenching (metres)	Stripping (square metres)	Underground (metres)	Roads (kilometres)	Linecutting (kilometres)
		No. of Surveys	Kilometres	No. of Surveys	Induced Polarization (kilometres)	Electromagnetic (kilometres)	Magnetometer (kilometres)	Radiometric (kilometres)	No. of Properties														
82/SE	10	3	1	1 000	2	--	57.5	--	200	4	445	18	2	1 271	--	--	--	153.3	--	167.0	6.5	--	
82/SW	146	52	3	2 050	57	34.2	76.6	128.0	402.7	62	20 407	191	21	26 919.3	19	2 000.0	3 421.9	1 419.1	204	100.0	36.0	320.0	
82/NW	107	41	5	1 230	51	89.6	210.3	226.3	254.8	59	16 369	969	28	15 031.0	6	157.3	2 033.0	2 400.7	6 191	16.1	5.2	168.9	
82/NE	8	4	--	--	--	--	--	--	--	4	913	--	1	305.0	--	--	387.1	--	1.3	--	--	--	
83/SW	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
92/SE	62	27	--	--	31	27.6	357.9	116.0	33.7	26	11 930	134	15	3 148.4	3	--	1 710.8	6 155.0	328.2	400	465.2	11.6	55.9
92/SW	21	4	--	--	9	11.1	732.6	5.2	--	7	356	53	5	3 419.5	--	--	--	148	--	--	5.3	53	
92/NW	12	2	1	--	5	--	18.1	18.1	--	3	607	27	3	1 395.0	--	--	--	36.0	200	--	--	4.5	
92/NE	74	20	2	--	48	278.8	173.3	575.3	22.1	34	10 072	1 208	20	12 418.6	7	--	5 340.4	434.0	350.7	610	--	6	142.7
93/SE	20	6	--	--	10	16.0	24.0	46.0	--	12	6 065	377	3	2 537.7	4	--	4 732.8	--	4 542	--	--	--	8.9
93/SW	28	15	4	223	34	28.1	88.6	16.1	--	20	4 440	--	10	4 922.3	6	1 095	3 688.1	--	1 230	--	--	32.2	30.2
93/NW	48	17	1	184	35	59.9	101.8	103.7	12.0	26	5 327	471	13	11 241.6	5	--	13 335.6	126.0	247.5	--	--	94.6	214.8
93/NE	2	--	1	310	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
94/SE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
94/SW	22	12	--	--	10	36.5	58.9	28.8	29.3	17	7 053	404	4	5 029.7	--	--	--	--	31.8	--	--	17.4	85.6
94/NW	13	12	1	--	3	1.4	18.6	20.5	--	13	11 628	1 265	1	1 016	--	--	--	--	115	--	--	--	42.8
94/NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
103/SE	1	--	--	--	--	--	--	--	--	--	--	--	1	335	--	--	--	--	--	--	427	--	--
103/SW	7	4	--	--	1	--	7.6	30.2	--	6	1 378	265	2	1 875.6	--	--	--	--	157	--	--	--	--
103/NW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
103/NE	11	2	--	--	--	--	--	--	--	2	1 283	98	--	3 454	--	--	--	--	31	--	--	11.2	--
104/SE	8	4	--	--	--	--	--	--	--	3	1 585	17	2	1 061.4	--	--	--	--	50	--	--	6	--
104/NW	16	11	--	--	13	3	98	68	79.7	14	2 328	181	2	1 176	--	--	--	--	--	--	--	--	36.5
104/NE	30	19	--	--	9	4.3	89.8	47.2	--	20	4 183	343	7	12 002.8	--	--	--	--	20	--	--	--	245.5
114/NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTALS	647	255	19	4 997	318	590.5	2 118.6	1 429.4	1 034.3	332	106 369	6 021	140	108 559.9	50	3 252.3	34 649.7	7 715.0	11 401.6	7 605	1 175.3	226.6	1 409.3
1977	564	187	18	10 031	211	752.6	1 725.4	2 114.5	--	219	77 337	2 888	133	81 211.2	54	5 634.6	22 865.3	692.5	13 837.3	12 568	1 841.1	867.4	2 603.1

*From Geological Division sources.

Massive sulphide prospects explored in 1978 included two in the Coast Range: the Nifty near Bella Coola, drilled by Pan Ocean, and Maggie Mines' property near Howe Sound north of Vancouver, drilled by Canex Placer. Regional exploration was conducted in the Omineca area northwest of Prince George and near Barriere Lakes north of Kamloops where several prospects in Paleozoic rocks were drilled. One of these programs disclosed interesting copper mineralization in acid volcanic rocks on the Chu Chua property, owned by the Vestor group of companies and under option to Craigmont.

Lead/zinc deposits explored in southeast British Columbia included the Vine deposit at Moyie Lake, drilled by Cominco, and the Cottonbelt Shuswap-type deposit, drilled by Metallgesellschaft.

Significant lead/zinc/barite deposits in Upper Devonian/Mississippian black shale sequences in the Kechika River area of northeast British Columbia attracted considerable attention. Gataga Joint Venture conducted a major drilling program at Driftpile Creek and Cyprus Anvil drilled a similar deposit to the southeast. Also in northern British Columbia, exploration drilling continued on the Suzie property where galena and sphalerite occur in dolomitized limestone.

One of the most active exploration areas in the Province was in the Atlin—Jennings River—Cassiar area where considerable effort was directed to the search for tungsten and tin. Three types of tin occurrences are known in this part of northwest British Columbia and adjacent Yukon. Cassiterite occurs in the gold placer creeks east of Atlin which drain the Surprise Lake batholith which hosts quartz/wolframite veins with tin as a minor constituent. Minor tin is associated with scheelite at the Adanac molybdenum property, and in skarns in the general area.

At Trout Lake, 56 kilometres southeast of Revelstoke, drilling of a significant molybdenum discovery by Newmont and Esso Minerals is continuing to further define a reported 275-metre intersection of 0.40 per cent MoS_2 . An underground exploration program is under consideration for 1979.

Exploration programs for gold and silver included Tournigan Mining's drilling and underground work at Big Missouri north of Stewart, and projects by several companies on gold mineralization on Porcher and Banks Islands south of Prince Rupert and on the Queen Charlotte Islands.

GOVERNMENT PROGRAMS TO ENCOURAGE EXPLORATION

Ongoing geological programs include regional mapping in areas of mineral potential and studies directed to the better understanding of ore deposits. Related programs include reconnaissance geochemical surveys in selected areas (Fig. E-4), principally through the three-year Federal/Provincial Uranium Reconnaissance Program (URP) which was completed in 1978. This program involved the collection of stream sediments and waters at a sample site density of one per 13 square kilometres. Waters are analysed for fluorine and uranium, and sediments for uranium and up to 11 other elements. To date results for

six 1:250 000 map sheets have been published, including five in southeastern British Columbia (Fig. E-4) and the Atlin sheet in the northwestern part of the Province. The 1978 sampling program included the Jennings River-McDame map-area east of Atlin, and survey results were made available in the spring of 1979.

The 1978 Accelerated Mineral Development Program, funded by \$5 million made available through Bill 5, *Revenue Surplus of 1976-77 Appropriation Act, 1978*, included an Accelerated Geochemical Survey of two map-areas in west-central British Columbia (Fig. E-4). This program is modelled after the Uranium Reconnaissance Program except that sample site density was one per 8 square kilometres. Data from this program was released in June of 1979.

The Accelerated Mineral Development Program also expanded existing Ministry programs including Prospectors' Assistance, funds for mineral roads, and mine sites reclamation. In addition, funds were made available to assist with labour costs for underground mine development and property exploration, and for the Mineral Exploration Incentive Program which reimbursed junior mining companies and prospectors for one-third of field expenditures up to a maximum of \$50 000.

MAJOR EXPLORATION ACTIVITY

Nine properties were reported as completing programs exceeding more than 3 000 metres of drilling or 300 metres of underground development. These non-producing properties, defined as conducting major exploration by the above criteria, are listed below.

- BANK, WALLER** (Hecate Gold Corporation), 103G/8E — a replacement gold deposit in shear zones on the west coast of Banks Island, a 427-metre decline.
- JEFF** (Imperial Oil Limited), 104I/1W — a bedded, massive copper/zinc sulphide deposit at the head of Kutcho Creek, 130 kilometres east of Dease Lake, 8 933 metres of diamond drilling.
- NU, ELK** (Placer Development Limited), 93K/3E — west end of Endako molybdenum porphyry deposit, 10 797 metres of percussion drilling and 5 053 metres of diamond drilling.
- IDAHO** (Carolyn Mines Ltd.), 92H/11W — a disseminated gold deposit near Hope, 6 155 metres of underground diamond drilling.
- SULLIVAN MINE AREA** (Cominco Ltd.), 82F/9E; 82G/12W — stratabound iron/lead/zinc sulphide lens at Kimberley, 4 865.9 metres of surface diamond drilling and 1 000 metres of underground diamond drilling.
- BLIZZARD** (Norcen Energy Resources Limited), 82E/10W — uranium in loosely consolidated sediments underlying Tertiary plateau basalt at Lassie Lake, Beaverdell area, 294 diamond-drill holes, 15 000 metres and 47 rotary holes, 2 000 metres.
- TROUT LAKE** (Newmont Exploration of Canada Limited), 82K/12E — molybdenum porphyry deposit 4 kilometres west of Trout Lake village, five diamond-drill holes, 4 298 metres.
- PR** (Gold Fields Mining Corporation), 93A/12W — copper porphyry, 8 kilometres west of Quesnel Forks, percussion drilling, 4 063 metres and diamond drilling, 1 596 metres.

NED (Granges Exploration Aktiebolag), 93F/6 — a zinc/lead/silver/gold deposit in rhyolite at the east end of Capoose Lake, 63 percussion drill holes, 3 688.1 metres.

DEVELOPMENT AND FEASIBILITY STUDIES

Development of previously explored deposits increased significantly in 1978.

The Sam Goosly copper/silver deposit south of Smithers was optioned from Equity Mining/Kennco by Canex Placer in mid-year. Additional development drilling and metallurgical studies are underway pending a production decision. Esso Minerals continued drilling the significant Kutcho massive sulphide deposit in northwest British Columbia, part of which is held by Sumitomo who have reported at least 9 million tonnes of good grade copper/zinc mineralization.

Underground development and mill construction went on at the Nu-Energy gold deposit near Cassiar where production and mill tune-up started in December 1978. Feasibility studies continued at the Carolin gold property near Hope. A major drilling program was continued by Amax on Logtung, a significant stockwork tungsten/molybdenum property on the British Columbia/Yukon border.

Two potentially economic types of uranium deposit have been identified in British Columbia. Rexspar is a volcanogenic deposit in which uranium minerals and fluorite occur in Paleozoic trachytic volcanic rocks. The Blizzard, southeast of Kelowna, is a basal or paleo-stream channel deposit in which secondary uranium minerals are contained in poorly consolidated Tertiary sediments preserved beneath a Pliocene basalt cap. Continued drilling of this deposit, owned by Lacana and under option to Norcen, has indicated the presence of 1.9 million tonnes of 0.17 per cent U_3O_8 .

REFERENCE

Carter, N. C. (1979): Mineral Exploration in British Columbia, *Western Miner*, February, 1979, pp. 14-19.

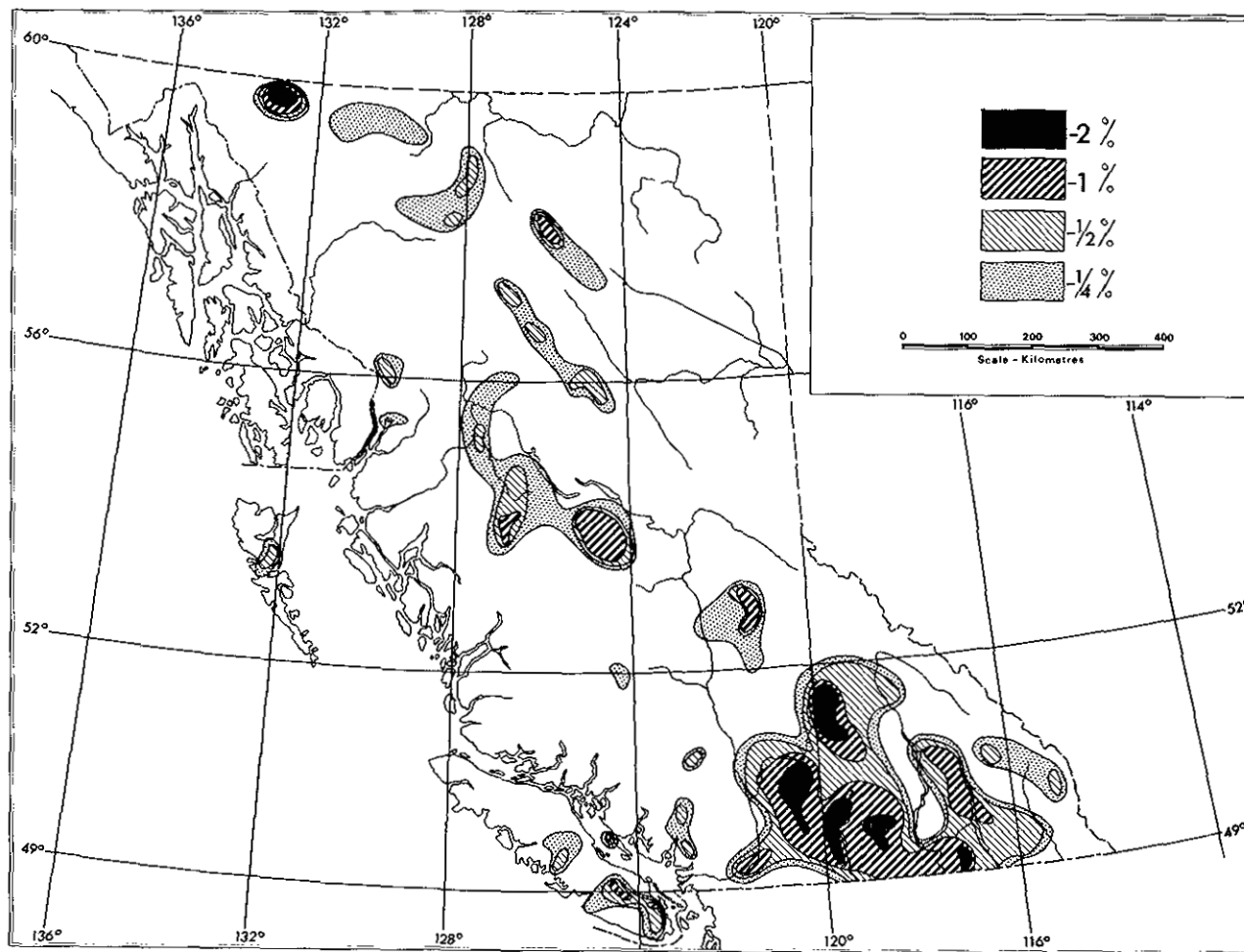


Figure E-2. Distribution of metallic mineral properties in 1978.

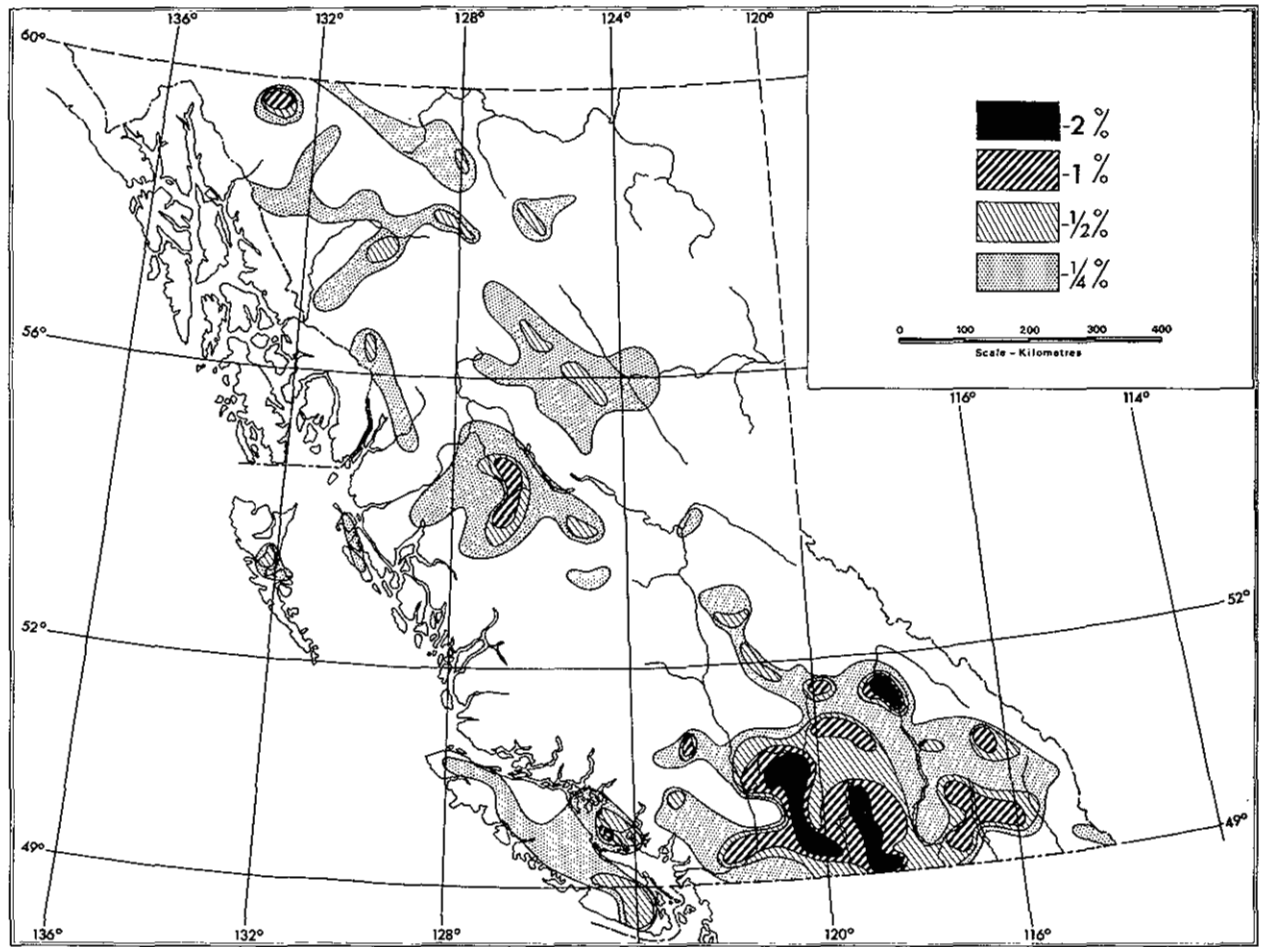


Figure E-3. Distribution of metallic mineral properties in 1977.

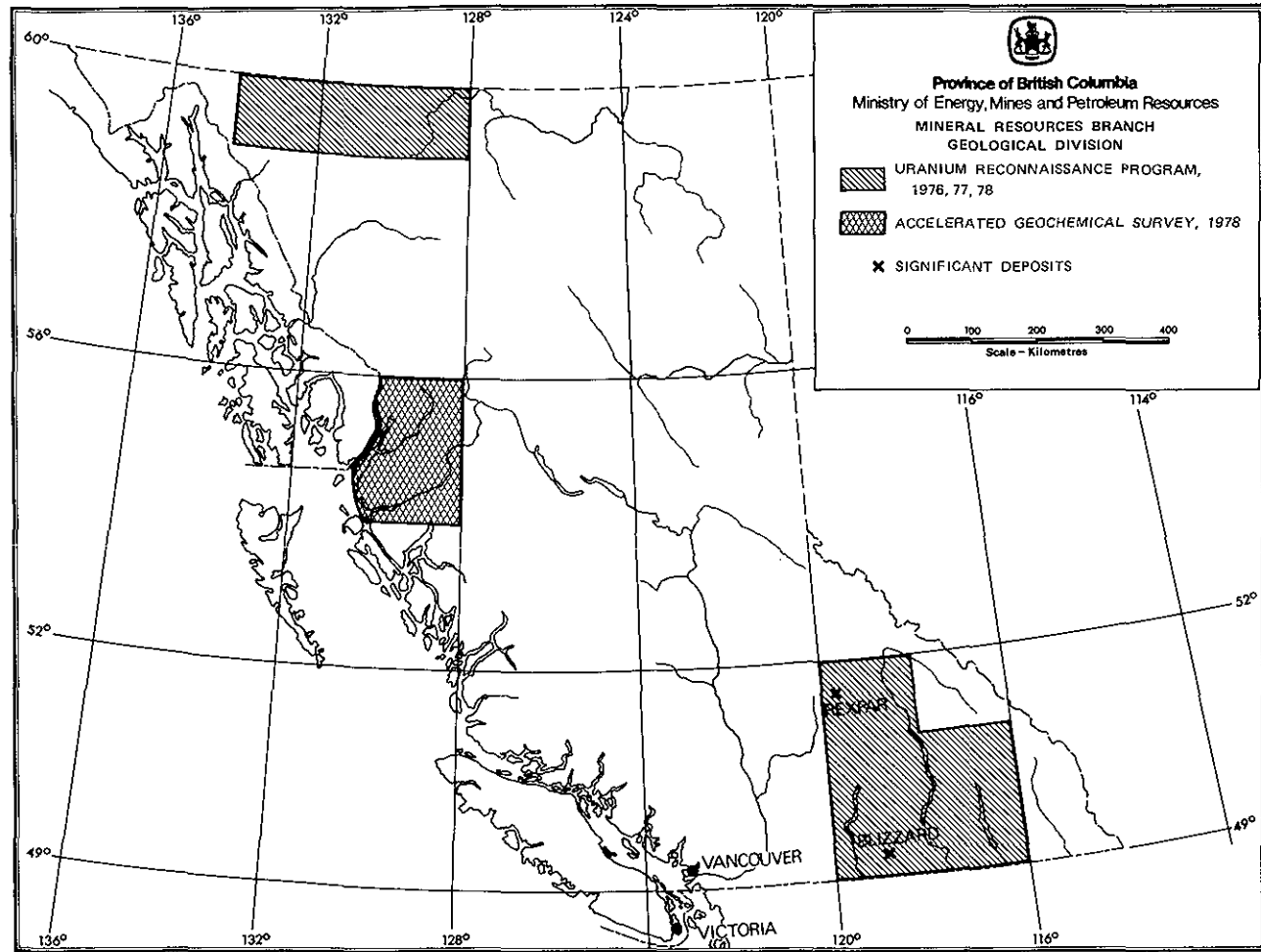


Figure E-4. Reconnaissance geochemical surveys.

REPORTS ON METALS EXPLORATION

SOUTHEAST BRITISH COLUMBIA
(NTS Division 82 and part of 83)

PENTICTON 82E

MASTADON, ANN (Fig. E-1, NTS 82, No. 6)

LOCATION: Lat. 49° 02' Long. 118° 10' (82E/1E)
GREENWOOD M.D. Four kilometres east-southeast of Christina on Chandler, Mastadon, Colbran, Bowser, and Trout Creeks.

CLAIMS: MASTODON, MAMMOTH, DOMINION, PAN, MASTODON FR., CANYON (Lots 2384S to 2388S and 2390S), HAZ-AL, TUFF, SURPRISE, H, HUP, HANEY, MOSE, CHARLES, ANN 1 to 150.

OWNERS: CHROMEX NICKEL MINES LTD. and HUNTER POINT EXPLORATIONS LTD., 105 West Sixth Avenue, Vancouver V5Y 1K3.

METALS: (Nickel, iron).

WORK DONE: 1977 – diamond drilling, 2 AQ holes totalling 411.5 metres, on Ann 4; trenching, 30 metres, covering Ann claims; 1978 – trenching, 30 metres, covering Ann claims.

REFERENCES: Mineral Inventory 82E/SE-91; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 12; Assessment Reports 860, 6457, 6665, 7067.

BURNT BASIN, EVA BELL (Fig. E-1, NTS 82, No. 16)

LOCATION: Lat. 49° 10.5' Long. 118° 07' (82E/1E)
GREENWOOD M.D. Approximately 2.5 kilometres southwest of the Paulson bridge on Highway 3, north of Christina Lake.

CLAIMS: BURNT BASIN (Lot 1136), AJAX (Lot 1509), EVA BELL (Lot 2031), plus other adjoining claims.

OWNER: OLIVER RESOURCES LTD., Box 35, Oliver.

METALS: Silver, lead, zinc.

DESCRIPTION: In the vicinity of the Burnt Basin, Rossland volcanic rocks predominate. The succession contains considerable limestone and argillaceous sedimentary rocks locally altered to skarn.

WORK DONE: Induced polarization survey, 10 kilometres; magnetometer survey, 10 kilometres; electromagnetic survey, 12 kilometres.

REFERENCES: Mineral Inventory 82E/SE-81, 99, 100, 102, 103, 169; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 32; Assessment Report 1920.

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

LOCATION: Lat. 49° 12.5' Long. 118° 02' (82E/1E)
 GREENWOOD M.D. Six kilometres east of Paulson, on the east side of Big Sheep Creek and north of Seal Creek.

CLAIMS: 3 JACKS 1 to 8, 3 JACKS Fraction, XL 1 to 10, XL Fraction.

OWNER: S. CRAIG AND ASSOCIATES, Box 71, Tofino.

METAL: Silver.

DESCRIPTION: Limestone with skarn minerals and tetrahedrite occurs at a Coryell contact. Values are too low to warrant further work.

WORK DONE: Open cutting, 15 metres by 1 metre, on 3 Jacks 3.

REFERENCE: Mineral Inventory 82E/SE-40.

PBE 31 (Fig. E-1, NTS 82, No. 7)

LOCATION: Lat. 49° 04.5' Long. 118° 24' (82E/1W)
 GREENWOOD M.D. Centred 4 kilometres north of Grand Forks, on Hull and Overton Creeks.

CLAIMS: DILL, DOE, DAF, FO (approximately 80 units).

OWNER: T. Mackenzie.

OPERATOR: KARGEN DEVELOPMENT CORP., 10140 Shellbridge Way, Richmond.

METAL: Copper.

DESCRIPTION: The area is underlain by a metamorphic complex of biotite-hornblende gneiss, clinopyroxene-orthoamphibolite gneiss, interlayered marble and/or calc-silicate biotite-hornblende schist, tremolite schist, and graphitic calcareous schist.

WORK DONE: Ground magnetometer survey, 44 kilometres, covering all claims.

REFERENCES: Assessment Reports 3172, 6691.

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

LOCATION: Lat. 49° 03' Long. 118° 24' (82E/1W)
 GREENWOOD M.D. Three kilometres north-northeast of Grand Forks, between Overton Creek and Morrissey Creek.

CLAIM: JO (20 units).

OWNER: CHINOOK CONSTRUCTION & ENGINEERING LTD., 301, 1201 West Pender Street, Vancouver V6E 2V2.

DESCRIPTION: Rocks observed on the property were biotite schists and marbles and intrusive pegmatoid material.

WORK DONE: Linecutting, 7.5 kilometres; geochemical survey, 152 soil samples analysed for uranium; and ground scintillometer survey, 7.5 kilometres, covering Jo.

1978

(82E/1W)

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 12; Assessment Reports 6534, 6987.

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

LOCATION: Lat. 49° 06' Long. 118° 22' (82E/1W)
GREENWOOD M.D. Approximately 5 to 7 kilometres north of Grand Forks, along the east side of Granby River.

CLAIM: U 2 (12 units).

OWNER: CONSOLIDATED BOUNDARY EXPLORATION LTD., Box 511, Grand Forks.

METALS: Uranium, copper, molybdenum, gold, silver.

DESCRIPTION: The claim area is underlain by crystalline limestones, cherts, and greywacke of the Paleozoic Anarchist Group. Anomalous radioactivity occurs in both the rocks of the Nelson batholith and the sharpstone conglomerate.

WORK DONE: 1977 -- reconnaissance geological mapping; 4 samples collected, on U2.

REFERENCES: Mineral Inventory 82E/SE-138 to 140; Assessment Reports 3172, 6695.

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

LOCATION: Lat. 49° 07' Long. 118° 23' (82E/1W)
GREENWOOD M.D. Six to 14 kilometres north-northeast of Grand Forks, from Sand Creek to Volcanic Creek.

CLAIMS: MEREDITH 2, SUN, HOT, MIDWAY, JUDY, DOUBLE, BEN, TREADMILL, GILL, TORONTO, SNOWBALL, BULL II, SNOW, MIDNITE, RADAR, RADAR 2 to 5, DEB, TARA, DENA, JAN, ROBERTA, SPIKE, RALPH (approximately 220 units).

OWNERS: Chinook Construction & Engineering Ltd. and Consolidated Boundary Exploration Ltd.

OPERATOR: CHINOOK CONSTRUCTION & ENGINEERING LTD., 301, 1201 West Pender Street, Vancouver V6E 2V2.

METAL: Uranium.

DESCRIPTION: Uranium occurs as autunite and uraninite in a quartz-biotite pegmatite in biotite schists and biotite gneisses of the Shuswap Complex. Large, highly radioactive exposures have been outlined on the surface.

WORK DONE: Surface geological mapping, 5 square kilometres; radiometric survey, 30 kilometres; and percussion drilling, 42 holes totalling 15 metres each, covering Radar and Tara claims; geochemical survey, approximately 1 000 soil samples analysed for uranium, covering Toronto, Treadmill, Gill, Snowball, Ralph, Spike, and Roberta.

REFERENCES: Mineral Inventory 82E/SE-142 to 145; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 12, E 13; Assessment Reports 6858, 6950, 6986.

HUMMING BIRD (Fig. E-1, NTS 82, No. 4)

LOCATION: Lat. 49° 09' Long. 118° 28' (82E/1W)
 GREENWOOD M.D. Thirteen kilometres north of Grand Forks, 200 metres west of Granby River, on Brown Creek.

CLAIMS: HUMMING BIRD (Lot 1369), HUMMING BIRD FR. (Lot 1249), OK (Lot 1478), MAMMIE (Lot 1246).

OWNER: BIANCA RESOURCES LTD., 711, 475 Howe Street, Vancouver.

METALS: Lead, zinc, copper.

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 chalcopyrite are found as vein-fissure-type orebodies and along bedding planes within the limestone and at the limestone-andesite contact.

WORK DONE: Surface diamond drilling, 3 EXT holes totalling 183.2 metres, on Humming Bird.

REFERENCES: Mineral Inventory 82E/SE-57; B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, pp. E 13, E 14; Assessment Reports 5395, 6225, 6895.

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

LOCATION: Lat. 49° 10' Long. 118° 22' (82E/1W)
 GREENWOOD M.D. On and between the headwaters of Volcanic and Seggie Creeks, extending between 2 to 7 kilometres west of Christina Lake.

CLAIMS: JOES, BB (38 units).

OWNER: JOSEPH M. STITT, Box 932, Grand Forks.

DESCRIPTION: Underlying the property are highly metamorphosed sedimentary rocks and granodiorite gneiss, intruded by a medium to coarse-grained pink granite.

WORK DONE: Surface geological mapping, 1:2500 and ground gamma ray spectrometer survey, approximately 8 kilometres, covering both claims.

REFERENCE: Assessment Report 6733.

NO. 7 (Fig. E-1, NTS 82, No. 10)

LOCATION: Lat. 49° 02' Long. 118° 38' (82E/2E)
 GREENWOOD M.D. Approximately 4.5 metres southeast of Boundary Falls, at Central Camp.

CLAIMS: 7 - 1 to 7 - 8, ROB ROY (Lot 1153).

OWNERS: W. E. McArthur (Jr.), M. A. McArthur, and David N. Moore.

OPERATORS: W. E. McARTHUR (Jr.), Box 258, Greenwood V0H 1J0 and DAVID N. MOORE, Box 79, Midway V0H 1M0.

METALS: Gold, silver, lead, zinc.

- DESCRIPTION:** A narrow quartz vein, averaging 38 centimetres in width, strikes just south of east and dips to the north between 40 and 43 degrees. The hangingwall is siliceous argillite. The footwall is a serpentine schist but at times a diorite dyke lies between the vein and footwall. Approximately 13 600 tonnes of ore has been shipped from this property with an average value of 7 grams per tonne gold, 240 grams per tonne silver, 1.6 per cent lead, and 1.7 per cent zinc. The vein has been followed for 350 metres on strike and down dip for about 100 metres. The vein does not appear to extend at either end on strike but apparently extends down dip.
- WORK DONE:** Trenching, 21 trenches totalling 133 metres on 7 - 1 and 7 - 2 and 3 trenches totalling 43 metres on Rob Roy; diamond drilling, 1 EXR hole totalling 13.7 metres on Rob Roy; new adit, 5.49-metre open cut and 8.54 metres underground, on 7 - 2.
- REFERENCES:** Mineral Inventory 82E/SE-43; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 308.

ARROWHEAD (Fig. E-1, NTS 82, No. 8)

- LOCATION:** Lat. 49° 02.5' Long. 118° 44' (82E/2E)
GREENWOOD M.D. Five kilometres northeast of Midway, between Jolly Jack and Boundary Creeks.
- CLAIMS:** ARROWHEAD (2 units), ARROWHEAD ONE (8 units).
- OWNER:** DOWSER SYSTEMS LTD., 1262 Eastview Road, North Vancouver V7J 1L6.
- WORK DONE:** VLF-EM-16 and magnetometer surveys, 4.2 kilometres each, covering Arrowhead.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 14; Assessment Report 6740.

BOUNDARY FALLS, TUNNEL (Fig. E-1, NTS 82, No. 11)

- LOCATION:** Lat. 49° 03' Long. 118° 42' (82E/2E)
GREENWOOD M.D. Five kilometres south-southwest of Greenwood, northwest of Boundary Falls, lying on and westward of Boundary Creek.
- CLAIMS:** BOUNDARY FALLS (Lot 889), TUNNEL (Lot 888), DON'T KNOW (Lot 2374), TACOMA (Lot 1715), KEYSTONE (Lot 2912), A 1 to 4, SUN (2 units).
- OWNER:** AMIGO SILVER MINES LTD., 4793 Commercial Drive, Vancouver V5N 4G8.
- METALS:** Gold, silver, lead, zinc.
- 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. A quartz ledge dipping 75 degrees northwest carries coarse iron pyrites

and is 5 to 60 centimetres wide. Mineralization in the form of limonite, pyrite, galena, (tetrahedrite ?), gold, silver, and chalcopyrite occurs as fractures in quartz in fissure-type veins and associated silicified zones.

WORK DONE: Crosscutting, 18 metres to 63 metres, on Boundary Falls; diamond drilling, 2 BQ holes totalling 90 metres on A 3; pulse electromagnetic survey, approximately 100 readings, covering A 3 and Tunnel.

REFERENCES: Mineral Inventory 82E/SE-45, 171; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, pp. E 19, E 20; Assessment Reports 5618, 6067.

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

LOCATION: Lat. 49° 03.5' Long. 118° 42' (82E/2E)
GREENWOOD M.D. Approximately 4 kilometres south-southwest of Greenwood, 2 kilometres north-northwest of Boundary Falls, on the west side of Boundary Creek.

CLAIMS: MAY MAC (12 units) and Mineral Leases M-430 (Lot 644) and M-423 (Lots 1680, 389, 426, and 1019).

OWNER: ROBERT MINES LTD., 4793 Commercial Drive, Vancouver V5N 4G8.

METALS: Silver, gold, lead, zinc.

DESCRIPTION: The deposit is a pinching and swelling quartz vein occupying a shear striking generally northwest and dipping to the northeast. Mineralization consists of pyrite, galena, sphalerite, and argentite.

WORK DONE: Drifting, approximately 50 metres (extension of 7 level) on Lot 389; grid established and pulse electromagnetic survey, approximately 10.4 kilometres, covering Lots 644, 426, and 389 and May Mac.

REFERENCES: Mineral Inventory 82E/SE-45; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 426; *B.C. Ministry of Energy, Mines & Pet. Res.*, Geological Fieldwork, 1976, pp. 9, 10.

TIGER FRACTION (Fig. E-1, NTS 82, No. 86)

LOCATION: Lat. 49° 04' Long. 118° 41' (82E/2E)
GREENWOOD M.D. Approximately 1 kilometre south of Greenwood and 0.75 kilometre east of Boundary Creek, south of Lind Creek and opposite Haas Creek.

CLAIM: TIGER FRACTION (1 unit).

OWNER: ANTONIUS KOST, JR., Box 261, Greenwood V0H 1J0.

WORK DONE: Road work, on Tiger Fraction.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 15.

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

LOCATION: Lat. 49° 05' Long. 118° 38' (82E/2E)
GREENWOOD M.D. Immediately south of and extending to 3 kilometres southeast of Greenwood, north of Lind Creek.

1978

(82E/2W)

CLAIMS: OB (15 units), TWIN (Lot 819), CONNECTION FR., (Lot 3131), TRILBY (Lot 988), LANCASHIRE FR. (Lot 3255), MARJORIE (Lot 2088), CLIPPER FR. (Lot 1102), MOUNTAIN VIEW (Lot 1100).
OWNERS: George O'Brien and Sheila O'Brien.
OPERATOR: GEONORM DEVELOPMENT CORP., 250 Long Lake Street, Greenwood.
METALS: Copper, silver.
WORK DONE: 1977 — geochemical survey, 177 soil samples analysed for copper, zinc, gold, silver, covering OB; 1978 — linecutting, 6 kilometres; geochemical survey, 206 soil and 4 rock samples analysed for copper, silver, and gold, covering OB.
REFERENCES: Assessment Reports 6694, 6958.

TEXAS (Fig. E-1, NTS 82, No. 123)

LOCATION: Lat. 49° 02' Long. 118° 50' (82E/2W)
GREENWOOD M.D. Five kilometres west-northwest of Midway, on and extending southward from Ingram Creek.
CLAIMS: J-1 (9 units), J-2 (4 units), J-3 (10 units).
OWNER: Maymac Explorations Ltd.
OPERATOR: H. VANNERUS, 7867 Canada Way, Burnaby.
METALS: Copper, (silver, gold).
DESCRIPTION: The area is underlain by sedimentary, intrusive, and volcanic rocks ranging from Permian to Tertiary ages. The showings comprise mostly pyrite accompanied by chalcopyrite and minor bornite in intensely altered rocks.
WORK DONE: Geochemical survey, 147 soil samples analysed for copper, silver, and gold, covering J-1 and J-3.
REFERENCES: Mineral Inventory 82E/SE-119; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 15; Assessment Reports 5381, 7129.

GREEN 4 to 11 (Fig. E-1, NTS 82, No. 14)

LOCATION: Lat. 49° 04' Long. 118° 50' (82E/2W)
GREENWOOD M.D. Nine kilometres northwest of Midway, covering Ingram Creek and its main west tributary.
CLAIMS: GREEN 4 (20 units), GREEN 5 (20 units), GREEN 6 (20 units), GREEN 7 (20 units), GREEN 8 (20 units), GREEN 9 (20 units), GREEN 10 (20 units), GREEN 11 (18 units).
OWNER: R. S. Adamson.
OPERATOR: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.
DESCRIPTION: The claims are underlain by block-faulted Eocene sedimentary rocks and volcanic flows. Narrow syenite and diorite dykes intrude all rocks. Geochemical water sampling indicates that Ingram Creek is anomalous

in uranium. Silts and soils from the same drainage do not confirm this. No radiometric readings were considered significant.

WORK DONE: Included with property 82, No. 13 (Green 1, 2).

REFERENCE: Assessment Report 6648.

GREEN 1, 2 (Fig. E-1, NTS 82, No. 13)

LOCATION: Lat. 49° 05' Long. 118° 58' (82E/2W)

GREENWOOD M.D. Approximately 3.5 kilometres northeast of Rock Creek, covering part of the lower reaches of Nicholson Creek.

CLAIMS: GREEN 1 (12 units), GREEN 2 (15 units).

OWNER: R. S. Adamson.

OPERATOR: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.

DESCRIPTION: The claims are underlain by Eocene sedimentary and volcanic rocks into which are intruded Eocene or later syenite and diorite dykes and sills. Geochemical and radiometric surveys located no anomalous areas.

WORK DONE: Surface geological mapping, 1:16 000; geochemical survey, 574 soil, 86 silt, and 43 water samples; and ground scintillometer survey, 108.2 kilometres, covering Green 1, 2, 4-11.

REFERENCE: Assessment Report 6648.

COPPER MINE, KING SOLOMON (Fig. E-1, NTS 82, No. 15)

LOCATION: Lat. 49° 07.5' Long. 118° 46.5' (82E/2W)

GREENWOOD M.D. Eight kilometres northwest of Greenwood, at the head of Motherlode Creek.

CLAIMS: COPPER MINE (Lot 456), JUMBO (Lot 655), COMMANDER (Lot 1708), COP (12 units), WIN (8 units), NOVA (6 units), plus Lots 387, 388, 560, 617, 1572, 1713, 1851, 2311, 2611.

OPERATOR: RIO TINTO CANADIAN EXPLORATION LIMITED, 520, 800 West Pender Street, Vancouver V6C 2V6.

METAL: Copper.

DESCRIPTION: Copper minerals occur with skarn in limestone of the Brooklyn Formation.

WORK DONE: Surface geological mapping, 1:10 000, covering Cop and Lot 1708.

REFERENCES: Mineral Inventory 82E/SE-53, 54, 134; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 17, E 18; Assessment Reports 1082 (Copper Queen), 2253 (Poppy), 5842, 6017, 6378, 6394, 6436.

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

LOCATION: Lat. 49° 09' Long. 118° 48' (82E/2W)

GREENWOOD M.D. Seven kilometres west-northwest of Greenwood, at the headwaters of Wallace Creek.

CLAIMS: PEN (20 units), AB (16 units).
OWNERS: James Forshaw and Valantine Luznar.
OPERATOR: JAMES FORSHAW, Box 67, Greenwood V0H 1J0.
METALS: Zinc, silver, lead, (copper).
DESCRIPTION: Pyrite and sphalerite accompanied by skarn minerals occur in a shear zone cutting limestones of the Brooklyn Formation. Trace amounts of chalcopyrite occur in calcareous quartzites and limestones of the sharpstone unit which overlies rocks of the Knob Hill Group. The general trend of the Brooklyn rocks is northeast-southwest, dipping steeply to the east.
WORK DONE: Deepening (0.35 metre) and extending (18.3 metres) the main open cut, on Pen (centre portion).
REFERENCES: Mineral Inventory 82E/SE-118; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 19 (Joe); Assessment Reports 2925 (J, VJ, etc.), 5842, 6017.

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

LOCATION: Lat. 49° 01' Long. 119° 20' (82E/3W)
 OSOYOOS M.D. Ten kilometres north of Osoyoos and approximately 1 kilometre north of Highway 3.
CLAIMS: PY 1 (1 unit), M 1 (1 unit).
OWNERS: Brian Fenwick-Wilson and E. Livgard.
OPERATOR: BRIAN FENWICK-WILSON, Mount Baldy Ski Area, Box 687, Osoyoos V0H 1V0.
METALS: Copper, zinc, gold, silver.
DESCRIPTION: Anarchist meta-quartzites are intruded by Nelson granite.
WORK DONE: Reconnaissance geochemical survey and geological mapping, covering both claims.
REFERENCES: Mineral Inventory 82E/SW-79; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 21; Assessment Reports 2926, 6559.

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

LOCATION: Lat. 49° 03' Long. 119° 23' (82E/3W)
 OSOYOOS M.D. Approximately 6.5 kilometres east of Osoyoos, on the west slope of Anarchist Mountain, mainly to the north of Highway 3.
CLAIM: MEG (10 units).
OWNER: George O'Brien.
OPERATOR: VENTORA RESOURCES LTD., 1155 West Georgia Street, Vancouver.
DESCRIPTION: The property is underlain by Cretaceous Nelson intrusive rocks in the southern portion of the property and volcanic and/or sedimentary rocks of the Anarchist Group of Permian/Triassic age in the northern portion of the property.
WORK DONE: Ground scintillometer survey, 6.6 kilometres, covering Meg.
REFERENCE: Assessment Report 6850.

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

LOCATION: Lat. 49° 17' Long. 119° 45' (82E/4, 5)
 OSOYOOS M.D. From Highway 3A, at a point 3 kilometres northwest of Okanagan Falls, westward to Keremeos Creek, thence southward to Blind Creek, thence eastward to a point 13 kilometres south of Okanagan Falls.

CLAIMS: ASTRO 1 to 47, ALLIE, MICKI, CAT, MOUSE, IAN, IAN 1 to 3 (approximately 900 units).

OWNER: PACIFIC PETROLEUMS LTD., Box 6666, Calgary, Alberta T2P 6T6.

METAL: Uranium.

DESCRIPTION: Highly radioactive phonolites and rhyolites occur at the base of, and within the White Lake Basin. Arkosic grits and sandstones at the base of the volcanic sequence carry uranium-thorium mineralization closely related to coal partings present.

WORK DONE: Surface geological mapping, 1:5000; linecutting, 29.3 kilometres; ground magnetometer and scintillometer surveys, 29.3 kilometres; induced polarization survey, 6.2 kilometres; geochemical survey, 2 034 soil, 105 water, and 112 rock chip samples analysed for uranium, thorium, pH, copper, and molybdenum; and diamond drilling, 6 holes, 1 571.5 metres, on Allie, Micki, and Astro 2-4, 17, 19, 20, 45, 47.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 23; Assessment Reports 6532, 7095.

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

LOCATION: Lat. 49° 05' Long. 119° 33' (82E/4E)
 OSOYOOS M.D. Eight kilometres northwest of Osoyoos, extending from the northern end of Osoyoos Lake westerly past Spotted Lake.

CLAIMS: LARI 1 to 10 (33 units), LAMOR (2 units), LAMO (4 units).

OPERATORS: PACIFIC PETROLEUMS LTD., Box 6666, Calgary, Alberta T2P 6T6 and L. F. MORRISON, RR 2, Willow Beach, Osoyoos V0H 1V0.

METALS: Tungsten, (uranium).

WORK DONE: Prospecting.

REFERENCES: Mineral Inventory 82E/SW-154; Assessment Report 6757.

POLVO (Fig. E-1, NTS 82, No. 20)

LOCATION: Lat. 49° 13' Long. 119° 35' (82E/4E)
 OSOYOOS M.D. Extends 7 kilometres north and 4 kilometres west of Oliver.

CLAIMS: POLVO, SYN, RKL 1 and 2, SYN 2, GUM, OLI 1 and 2 (124 units), and ATLAS (Lot 664), BELMONT FR. (Lot 837), CORNSTOCK (Lot 729), JOE DANDY (Lot 447), GILPIN FR. (Lot 838), ROB ROY (Lot 546), SILVER BOW (Lot 730), ST. JOHN (Lot 803).

OWNER: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver.

METAL: Uranium.

DESCRIPTION: The property is underlain by a composite Middle Jurassic calc-alkaline plutonic complex of three distinct phases, all of quartz monzonite composition. Uranium mineralization occurs in fractures in granite especially in the vicinity of contact between youngest phases.

WORK DONE: Prospecting of selected regions; surface geological mapping, 1:5000 and 1:4000, covering all claims; ground scintillometer survey.

REFERENCES: Mineral Inventory 82E/SW-141; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 22; Assessment Reports 6360, 6504, 6949.

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

LOCATION: Lat. 49° 13' Long. 119° 40' (82E/4E)
OSOYOOS M.D. Six kilometres northeast of Cawston, and 0.5 kilometre southeast of Blind Creek.

CLAIM: IRENE.

OWNER: JAMES J. PENNEY, Box 88, Keremeos VOX 1N0.

METAL: Silver.

DESCRIPTION: Most of the claim is underlain by medium-grained Valhalla granodiorite. Medium to fine-grained, foliated Nelson metaquartz diorite outcrops in the northern part of the claim. A quartz vein, averaging 0.4 metre in width, locally contains pyrite and minor galena.

WORK DONE: Surface geological mapping, 1:2000, covering Irene.

REFERENCES: Mineral Inventory 82E/SW-153; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 395; Assessment Report 6797.

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

LOCATION: Lat. 49° 07' Long. 119° 55' (82E/4W)
OSOYOOS M.D. Eleven kilometres southwest of Keremeos, covering the headwaters of Gillanders Creek.

CLAIMS: GIL 1 to 26, LG 1 to 3, LI 1 to 20, LIG 1, 2, 13 to 18.

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

METALS: Tungsten, copper, molybdenum, zinc.

DESCRIPTION: Calc-silicate skarn zones are interlayered with cherts, argillites, and andesitic volcanic units. Mineralization is erratic and is associated with the skarn horizons.

WORK DONE: Road construction, 12 kilometres; drilling, 162 metres, on LG 2.

REFERENCES: Mineral Inventory 82E/SW-122; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 22; Assessment Reports 6191, 6557; PAC 15.

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

LOCATION: Lat. 49° 18' Long. 119° 45' (82E/5)
 OSOYOOS M.D. Twelve kilometres west of Okanagan Falls and covering the southern half of Twin (Nipit) Lakes.

CLAIMS: TWIN 3 (15 units), TWIN 5 (4 units), TWIN 6 (8 units), TWIN 7 (2 units), TWIN 8 (2 units).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

METAL: Uranium.

DESCRIPTION: Eocene Marron Formation volcanic rocks overlie the basal conglomerate of the Springbrook Formation.

WORK DONE: Surface geological mapping, 1:5000; geochemical survey, 113 soil and 16 silt samples analysed for uranium; and radiometric survey, reconnaissance and all outcrops, covering all claims.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 24; Assessment Reports 6506, 6945.

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

LOCATION: Lat. 49° 20' Long. 119° 46' (82E/5)
 OSOYOOS M.D. Thirteen kilometres west of Okanagan Falls, extending from Trout Lake to Indian Reserve 12A.

CLAIMS: YEL 1 to 17, 20 to 24, YEL 0, 26, and 27 Fractions, LOW 1, LOW 0 and 2 Fractions.

OWNERS: R. W. Yorke-Hardy, Victor Corrie, and Peter S. Mason.

OPERATOR: R. W. YORKE-HARDY, Box 2182, Revelstoke.

METAL: Uranium.

WORK DONE: Scintillometer survey, approximately 1 500 metres, and geochemical survey, 5 rock samples, covering Yel 1-4, 10, 11, Low 1, and Low 0 Fraction.

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

LOCATION: Lat. 49° 25' Long. 119° 45' (82E/5)
 OSOYOOS M.D. Twelve kilometres southwest of Penticton, between Shatford Creek and Indian Reserve 1.

CLAIMS: MAR 1 (4 units), MAR 2 (20 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: The area is underlain by Upper Eocene volcanic rocks of the Marron Formation.

WORK DONE: Reconnaissance geological mapping (4 rock chip samples collected); scintillometer survey; geochemical survey, 25 stream and lake silt samples analysed for uranium, 19 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 3 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering both claims.

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

LOCATION: Lat. 49° 16' Long. 119° 51' (82E/5W)
 OSOYOOS M.D. One kilometre west of the settlement of Olalla, astride Olalla Creek.

CLAIMS: DAVE 1 and 2 Fractions, MAX 1 to 4, HiL 1 (6 units).

OWNER: BRENDA MINES LTD., Box 420, Peachland V0H 1X0.

METALS: Copper, molybdenum, (silver).

DESCRIPTION: A pyroxenite stock is intruded by an alkaline syenite and by diorite. Chalcopyrite-molybdenite mineralization occurs in a shear zone on the Max claims. Quartz veins hosting chalcopyrite-galena assemblages occur in the pyroxenite stock.

WORK DONE: Surface geological mapping, 1:2000, covering all claims; diamond drilling, 4 NQ holes totalling 892.2 metres, on Max 1-3.

REFERENCES: Mineral Inventory 82E/SW-16; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 40; Assessment Report 7039.

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

LOCATION: Lat. 49° 20' Long. 119° 48' (82E/5W)
 OSOYOOS M.D. Fifteen kilometres north of Keremeos, extending northwest from Marsel Creek, approximately 2.4 kilometres north of its confluence with Keremeos Creek.

CLAIMS: RENO 1 to 8.

OPERATOR: A. FALKENSTEIN, Box 4, Keremeos.

METAL: Molybdenum.

WORK DONE: Stripping, on Reno 6; stripping and blasting, 2 trenches, totalling 38 metres, on Reno 7 and 8.

REFERENCES: Mineral Inventory 82E/SW-123; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 25; Assessment Reports 5005, 5871.

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

LOCATION: Lat. 49° 27' Long. 119° 48' (82E/5W)
 OSOYOOS M.D. Fifteen kilometres west-southwest of Penticton, extending north from Allen Grove and along Clark Creek.

CLAIMS: CLARK 1 (15 units), CLARK 2 (20 units), CLARK 3 (20 units), CLARK 4 (12 units), CLARK 5 (4 units), CLARK 6 (16 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: Eocene volcanic and sedimentary rocks of the Marron and Springbrook Formations overlie Middle and Upper Jurassic intrusive rocks. Older greenstones, cherts, and argillites of the Shoemaker and Independence Formations of Permian age underlie part of the area.

WORK DONE: Reconnaissance geological mapping (13 rock chip samples collected); scintillometer survey; and geochemical survey, 160 stream and lake silt samples analysed for uranium, 140 stream and lake water samples

analysed for uranium, pH, HCO_3 , and specific conductivity, and 6 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering all claims.

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

LOCATION: Lat. $49^\circ 28'$ Long. $119^\circ 46'$ (82E/5W)
 OSOYOOS M.D. Thirteen kilometres west-southwest of Penticton, extending south from Brent Lake and covering the south end of Farleigh Lake.

CLAIMS: CLARK 1 to 3 (56 units).

OWNER: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver.

DESCRIPTION: The claims are underlain by Tertiary volcanic rocks and Mesozoic granite. The contact is marked by a conglomerate unit referred to as the Springbrook Formation.

WORK DONE: 1977 — surface geological mapping, 1:4000; geochemical survey, 80 soil and silt samples and 15 water samples analysed for uranium, covering all claims.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 26; Assessment Report 6657.

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

LOCATION: Lat. $49^\circ 16'$ Long. $119^\circ 05'$ (82E/6E)
 GREENWOOD M.D. Nineteen kilometres south of Beaverdell, on the headwaters of Nelse Creek, 5 kilometres west of the West Kettle River.

CLAIMS: KAS (5 units), SAN (4 units).

OWNER: COLD LAKE RESOURCES INC., 314, 543 Granville Street, Vancouver V6C 1X9.

DESCRIPTION: Exposed on the property are Valhalla granite and Nelson granodiorite, the latter being cut by dykes of several varieties.

WORK DONE: Grid establishment, 11.5 kilometres, and geological mapping and sampling, covering both claims.

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

LOCATION: Lat. $49^\circ 27'$ Long. $119^\circ 14'$ (82E/6W)
 GREENWOOD M.D. Ten kilometres west of Beaverdell, between Saunier and Carmi Creeks.

CLAIMS: PLEX 1 (20 units), PLEX 2 (20 units).

OWNER: R. S. Adamson.

OPERATOR: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.

DESCRIPTION: Outcrops on the property are scarce but there are Eocene volcanic rocks, Eocene (?) sedimentary rocks, and Cretaceous plutonic rocks. No radioactive anomalous areas were located.

WORK DONE: 1977 -- geochemical survey, 322 soil, 10 silt, 1 water, and 1 rock chip samples analysed for uranium; geological mapping; and ground radiometric survey, covering both claims.

REFERENCE: Assessment Report 6626.

GREEN (Fig. E-1, NTS 82, No. 29)

LOCATION: Lat. 49° 24' Long. 118° 40' (82E/7E)
GREENWOOD M.D. Thirty-two kilometres north of Greenwood, east of Terraced Peak and on the southern headwaters of Gable Creek.

CLAIMS: GREEN 1 (15 units), GREEN 2 (15 units), GREEN 3 (15 units), GREEN 4 (20 units).

OWNER: CHARLES BOITARD, 2245 West 13th Avenue, Vancouver V6K 2S4.

WORK DONE: Surface geological mapping and electromagnetic and scintillometer surveys.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 27; Assessment Report 6617.

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

LOCATION: Lat. 49° 26' Long. 118° 34' (82E/7E)
GREENWOOD M.D. Forty-five kilometres north of Grand Forks, on the north branch of Gable Creek, 4 kilometres west of Granby River.

CLAIM: GABLE 1 (20 units).

OWNER: J. R. KERR, 1, 219 Victoria Street, Kamloops.

DESCRIPTION: The property is underlain by alkaline plutonic rocks of Tertiary Coryell intrusions. The most common rock type encountered is a grey to pinkish buff medium to coarse-grained syenite.

WORK DONE: 1977 -- ground magnetometer survey, 20.5 kilometres, covering Gable 1.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 27; Assessment Reports 6402, 6703.

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

LOCATION: Lat. 49° 22' Long. 118° 51' (82E/7W)
GREENWOOD M.D. Twenty kilometres north-northeast of Westbridge, on the east side of the Kettle River, immediately north of Lost Horse Creek.

CLAIM: RENO 1 (9 units).

OWNER: SAN ANTONIO EXPLORATIONS LTD., 1015, 470 Granville Street, Vancouver V6C 1V5.

METALS: (Copper, lead).

DESCRIPTION: The region of the claim is underlain by a variety of rocks varying in age from Paleozoic to Tertiary. In the north claim area, an extensive pyritization occurs in silicified Anarchist Group rocks near dykes.

WORK DONE: 1977 -- geochemical survey, 131 soil samples, covering Reno 1.

REFERENCE: Assessment Report 6899.

BARNATO (Fig. E-1, NTS 82, No. 70)

LOCATION: Lat. 49° 28' Long. 118° 53' (82E/7W)
 GREENWOOD M.D. Ten kilometres south-southwest of Christian Valley, at the head of Stewartson Creek.

CLAIMS: SILVER BELL, KAFFIR KING, SILVER DOLLAR, HACKLA, BARNATO, MONETOR, HUNTER, RAMBLER, DENVER, CHAMPION, MAME, BARNATO FR., ANCHOR, YORKSHIRE LASS (Lots 2044, 2646, 2842, 2847, 2848, 2858, 2859, 2861 to 2866, 3024).

OWNER: JAMES W. MacLEOD, 1220 Arbutus Street, Vancouver V6J 3W6.

METAL: Gold.

DESCRIPTION: Volcanic rocks of the Anarchist or Wallace Groups of Late Paleozoic or Early Mesozoic age underlie the claim group. Most of the exposures on the claim group appear to be quartz diorite.

WORK DONE: Ground electromagnetic survey, 6.5 kilometres, covering Hackla and Barnato; geochemical survey, 20 soil samples analysed for copper, molybdenum, lead, zinc, gold, silver, and arsenic, covering Barnato.

REFERENCES: Mineral Inventory 82E/SE-69, 109, 110, 157; Assessment Report 6751.

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

LOCATION: Lat. 49° 29' Long. 118° 50' (82E/7W, 10W)
 GREENWOOD M.D. Extending from Christian Valley southward to Paturages Creek.

CLAIMS: BAR 1 to 19 (approximately 250 units).

OPERATOR: NORCEN ENERGY RESOURCES LIMITED, 715 Fifth Avenue SW., Calgary, Alberta T2P 2X7.

DESCRIPTION: The claims are mainly underlain by Cretaceous Valhalla plutonic rocks. No anomalous radioactivity was encountered.

WORK DONE: Surface geological mapping, 1:15 850, covering all claims.

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

LOCATION: Lat. 49° 25' Long. 118° 23' (82E/8W)
 GREENWOOD M.D. Approximately 42 kilometres north of Grand Forks, on the east side of Burrell Creek, immediately north of Knappen Creek.

CLAIMS: HC 1 to 4 (20 units each).

OPERATOR: LONG LAC MINERAL EXPLORATION LTD., 1680, 1050 West Pender Street, Vancouver V6E 3S7.

DESCRIPTION:

The major portion of the property is covered by Marron volcanic rocks which are of Paleocene or Eocene age. The basement rocks in the area are the Coryell intrusive rocks (Paleocene), the Valhalla intrusive rocks (Cretaceous), and the Monashee and Grand Forks Groups (Proterozoic).

The Marron volcanic rocks are composed of sodic trachytes, andesites, and their intrusive equivalents and include minor sedimentary rocks. The intrusive rocks consist mainly of monzonites, syenites, granodiorites, and quartz monzonites. The Monashee and Grand Forks Groups consist of paragneiss.

Macroscopic mineralization consists of pyrite, hematite, limonite, magnetite, and carbonate within the Marron volcanic rocks.

WORK DONE: Linecutting, 3 kilometres, covering HC 2; geochemical survey, 292 soil, 4 silt, and 36 rock chip samples analysed for uranium and silver, covering all claims; scintillometer survey, 23.25 kilometres, and EM-16 survey, 11.45 kilometres, covering HC 2.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 28; Assessment Reports 6719, 6852.

QUARTZ (Fig. E-1, NTS 82, No. 268)

LOCATION: Lat. 49° 42' Long. 118° 43' (82E/10E)
GREENWOOD M.D. Eighteen kilometres north-northeast of Christian Valley, on the west side of Rendell Creek.

CLAIM: QUARTZ (20 units).

OWNER: KELVIN ENERGY LIMITED, 940, 540 Fifth Avenue SW., Calgary, Alberta T2P 0M2.

WORK DONE: Geochemical survey, 492 silt samples analysed for uranium, lead, zinc, molybdenum, and silver, and airborne magnetometer, electromagnetic, and spectrometer surveys, 2 050 kilometres, covering Quartz.

REFERENCE: Assessment Report 7088.

DEER (Fig. E-1, NTS 82, No. 39)

LOCATION: Lat. 49° 31' Long. 118° 51' (82E/10W)
GREENWOOD M.D. Five kilometres south-southwest of Christian Valley, 2 kilometres west of the Kettle River at Birched Creek.

CLAIMS: DEER 1 (20 units), DEER 2 (3 units).

OWNER: NORCEN ENERGY RESOURCES LIMITED, 715 Fifth Avenue SW., Calgary, Alberta T2P 2X7.

WORK DONE: 1977 – surface geological mapping, 1:15 850, covering Deer 2.

REFERENCE: Assessment Report 6670.

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

LOCATION: Lat. 49° 32' Long. 118° 52' (82E/10W)
GREENWOOD M.D. Five kilometres west of Christian Valley, from the headwaters of Dear Creek to the west branch of State Creek.

CLAIMS: FUKI 1 to 40, PNC 1 and 3.

OWNER: Nissho-Iwai Canada Ltd. [claims transferred to PNC Exploration (Canada) Co. Ltd. January 1979].

1978

(82E/10W)

OPERATOR: PNC EXPLORATION (CANADA) CO. LTD., 3060, 650 West Georgia Street, Vancouver V6B 4N8.
METAL: Uranium.
WORK DONE: Drill holes surveyed.
REFERENCES: Mineral Inventory 82E/NE-15; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 49; Assessment Reports 2013, 2484, 3135, 3775, 4630.

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

LOCATION: Lat. 49° 33' Long. 118° 51' (82E/10W)
GREENWOOD M.D. Three kilometres west of Christian Valley, on State Creek.
CLAIMS: DEAN 1 to 3 (28 units).
OWNER: SEATU EXPLORATIONS LTD., 631 Seventh Avenue SW., Calgary, Alberta T2P 0Y9.
DESCRIPTION: The claim area is apparently underlain entirely by Tertiary basaltic lavas and interbedded sedimentary rocks. None of the claim area was considered sufficiently anomalous for uranium to be considered economically important.
WORK DONE: Geochemical survey, 327 soil samples analysed for uranium, covering all claims.
REFERENCE: Assessment Report 7046.

CUP 2 (Fig. E-1, NTS 82, No. 33)

LOCATION: Lat. 49° 34' Long. 118° 50' (82E/10W)
GREENWOOD M.D. On the west side of Kettle River, at Barth Creek.
CLAIM: CUP 2 (20 units).
OWNER: R. S. Adamson.
OPERATOR: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.
DESCRIPTION: Eocene sedimentary rocks, almost completely overlain by Eocene volcanic flows, underlie the claim. A small remnant of Miocene (?) basalt rests on the Eocene flows. No geochemical or radiometric anomalies were found.
WORK DONE: 1977 — surface geological mapping, 1:16 000; geochemical survey, 313 soil, 13 silt, and 3 water samples; and reconnaissance scintillometer survey, covering Cup 2.
REFERENCE: Assessment Report 6649.

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

LOCATION: Lat. 49° 34' Long. 119° 00' (82E/10W, 11E)
GREENWOOD M.D. Fourteen kilometres west of Christian Valley, at the head of China Creek.

1978

(82E/10W)

CLAIMS: HONEST (4 units), HONEST 2 (9 units).
OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550
Alberni Street, Vancouver V6G 1A5.
DESCRIPTION: Olivine basalt flows are found unconformably overlying weathered
quartz monzonite.
WORK DONE: Surface geological mapping, 1:2500, covering both claims; percussion
drilling, 4 holes totalling 238 metres, on Honest 1.
REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977,
p. E 32; Assessment Report 6827.

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

LOCATION: Lat. 49° 36' Long. 118° 55' (82E/10W)
GREENWOOD M.D. Ten kilometres northwest of the settlement of
Christian Valley, on the west side of Lassie Lake.
CLAIMS: DONEN 1 to 40, 43 to 46, 61 to 64, 93, 95, 99 to 104, 108, 110, 112,
281 to 320.
OWNER: Nissho-Iwai Canada Ltd. [claims transferred to PNC Exploration
(Canada) Co. Ltd. January 1979].
OPERATOR: PNC EXPLORATION (CANADA) CO. LTD., 3060, 650 West Georgia
Street, Vancouver V6B 4N8.
METAL: Uranium.
WORK DONE: Drill holes surveyed.
REFERENCES: Mineral Inventory 82E/NE-47; *B.C. Ministry of Energy, Mines & Pet.
Res.*, Exploration in B.C., 1977, p. E 31.

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

LOCATION: Lat. 49° 36' Long. 118° 55' (82E/10W)
GREENWOOD M.D. Eleven kilometres northwest of Christian Valley,
at the north ends of Joan and Lassie Lakes.
CLAIMS: BEVERLY (18 units), BLIZZARD (20 units), MORAIG (15 units),
PATRICIA (10 units), JAN 1 to 3 (3 units), CARI (1 unit), SHARON
(1 unit).
OWNER: NORCEN ENERGY RESOURCES LIMITED, 715 Fifth Avenue SW.,
Calgary, Alberta T2P 2X7.
METAL: Uranium.
DESCRIPTION: Uranium mineralization occurs in loosely consolidated sediments
underlying Tertiary plateau basalt and unconformably overlying Cre-
taceous (?) granites.
WORK DONE: Diamond drilling, 294 holes, 15 000 metres, and rotary drilling, 47
holes, 2 000 metres, on Beverly, Jan 1-3, Patricia, Moraig, and Blizzard.
REFERENCES: Mineral Inventory 82E/NE-46; *B.C. Ministry of Energy, Mines & Pet.
Res.*, Exploration in B.C., 1977, p. E 32; Assessment Reports 6167,
6168, 6640, 7131.

TAR, BEE (Fig. E-1, NTS 82, No. 69)

LOCATION: Lat. 49° 37' Long. 118° 58' (82E/10W, 11E)
 GREENWOOD M.D. The claims extend from 12 kilometres west of Christian Valley, at the headwaters of St. John and China Creeks, northward to the headwaters of the north branch of Trapping Creek.

CLAIMS: TAR 2 to 17, BEE 1 (approximately 250 units).

OPERATOR: NORCEN ENERGY RESOURCES LIMITED, 715 Fifth Avenue SW., Calgary, Alberta T2P 2X7.

DESCRIPTION: The property is mainly underlain by Cretaceous Valhalla plutonic rocks. No anomalous radioactivity was encountered.

WORK DONE: Surface geological mapping, 1:15 850, covering all claims.

REFERENCE: Assessment Report 7042.

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

LOCATION: Lat. 49° 38' Long. 118° 57' (82E/10W)
 GREENWOOD M.D. Fourteen kilometres northwest of Christian Valley, along Trapping Creek.

CLAIMS: SHORE (15 units), LAKE (20 units).

OWNER: NORCEN ENERGY RESOURCES LIMITED, 715 Fifth Avenue SW., Calgary, Alberta T2P 2X7.

DESCRIPTION: On the Shore claim rock exposure consists predominantly of porphyritic biotite granite. The Shore claim is largely underlain by Valhalla and/or Nelson intrusive rocks varying from granite to granodiorite in composition.

WORK DONE: 1977 – surface geological mapping, 1:15 840; reconnaissance soil and silt geochemical survey; and ground gamma ray spectrometer survey, covering both claims.

REFERENCE: Assessment Report 6749.

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

LOCATION: Lat. 49° 40' Long. 119° 00' (82E/10W, 11E)
 GREENWOOD M.D. Forty kilometres southeast of Kelowna, on the northwest side of Trapping Creek, along Lost Creek.

CLAIMS: TRAP 1 (20 units), TRAP 2 (20 units), TRAP 3 (20 units), TRAP 4 (20 units), TRAP 5 (20 units), TRAP 6 (9 units), TRAP 7 (9 units).

OWNER: LACANA MINING CORPORATION, 312, 409 Granville Street, Vancouver V6C 1T2.

DESCRIPTION: Most of the property is underlain by Valhalla and Coryell intrusive rocks. A small basalt cap in the northwest corner of Trap 6 was drill tested in 1977. Much of the eastern edge of the claim group is covered by glacial debris up to 60 metres thick.

WORK DONE: Geochemical survey, 120 water and silt samples, covering all claims; percussion drilling, 13 holes totalling 700 metres, on Trap 1, 2, 3, and 6.

REFERENCES: B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, p. E 33; Assessment Report 6714.

BOX 1, 2, 3 (Fig. E-1, NTS 82, No. 71)

LOCATION: Lat. 49° 41' Long. 118° 56' (82E/10W)
 GREENWOOD M.D. Seventeen kilometres north-northwest of Christian Valley, on the southern slope of Big White Mountain.

CLAIMS: BOX 1 to 3, FRAC (50 units).

OWNER: SEATU EXPLORATIONS LTD., 631 Seventh Avenue SW., Calgary, Alberta T2P 0Y9.

DESCRIPTION: The claim area is underlain by Valhalla intrusive rocks, predominantly quartz monzonite and granites.

WORK DONE: Geochemical survey, 589 soil samples analysed for uranium and copper, covering all claims.

REFERENCE: Assessment Report 7045.

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

LOCATION: Lat. 49° 41' Long. 119° 00' (82E/10W, 11E)
 GREENWOOD M.D. Twenty kilometres northwest of Christian Valley and 8 kilometres southwest of Big White Mountain, along the east side of Lost Creek.

CLAIMS: JUNE 1 (6 units), JUNE 2 (16 units).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

DESCRIPTION: An olivine basalt unit, 1 800 metres by 400 metres by 91 metres thick, unconformably overlies weathered quartz monzonite.

WORK DONE: Percussion drilling, 12 holes totalling 608 metres, and diamond drilling, 3 HQ holes totalling 323 metres, on June 1 and 2.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, p. E 33.*

CAP, TAR (Fig. E-1, NTS 82, No. 38)

LOCATION: Lat. 49° 42' Long. 119° 00' (82E/10W, 11E)
 GREENWOOD M.D. Thirty-seven kilometres southwest of Kelowna, 6 kilometres northeast of Goathide Lake.

CLAIMS: CAP 1 (4 units), TAR 1 (20 units).

OWNER: NORCEN ENERGY RESOURCES LIMITED, 715 Fifth Avenue SW., Calgary, Alberta T2P 2X7.

DESCRIPTION: Miocene (?) plateau basalt overlies Cretaceous (?) Valhalla plutonic rocks.

WORK DONE: Surface geological mapping, 1:15 850, covering both claims.

REFERENCE: Assessment Report 6829.

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

LOCATION: Lat. 49° 31' Long. 119° 11' (82E/11E)
 GREENWOOD M.D. Nine kilometres north-northwest of Beaverdell, at and south of the junction of Saunier and Wilkinson Creeks.

CLAIMS: CAPCO 56 to 59, 61 to 63, 68 to 71, 78, 79, IVY 20 to 35, MY 8, 29, 30, CA 1 (16 units), CA 2 (16 units), CA 3 (20 units), CA 4 (15 units), CA 5 (20 units), CA 6 (9 units), CA 7 (3 units), MARY O 8, MARY O 27 to 33, MARC 1 to 24.

OWNER: Vestor Explorations Ltd.

OPERATOR: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Calgary, Alberta T2P 2K6.

METALS: Molybdenum, (copper, zinc, silver, gold, uranium).

DESCRIPTION: Molybdenite as rosettes and flakes occurs chiefly within breccia fragments of foliated Nelson granodiorite and to a lesser extent within the breccia quartz cement. Breccias appear to occur near the contact of Nelson granodiorite with intruding Valhalla quartz monzonite. Minor brannerite occurs in quartz cement of one breccia zone; uranium-lead dating gives an age of 62 Ma for the mineralizing event. Drill-indicated tonnages and grade are estimated at approximately 22.7 to 27.2 million tons of 0.15 per cent molybdenite as a total of two zones. Minor copper and zinc are apparent with some sections showing encouraging gold and silver values. Rhenium content of molybdenite is approximately 50 to 150 ppm.

WORK DONE: Surface geological mapping; induced polarization survey, 18 kilometres.

REFERENCES: Mineral Inventory 82E/NW-36; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 33, E 34; Assessment Report 6932.

BOX 4 (Fig. E-1, NTS 82, No. 72)

LOCATION: Lat. 49° 37' Long. 119° 01' (82E/11E)
GREENWOOD M.D. Forty-one kilometres east of Naramata, directly east of the Arlington Lakes and on the west side of Trapping Creek.

CLAIM: BOX 4 (20 units).

OWNER: SEATU EXPLORATIONS LTD., 631 Seventh Avenue SW., Calgary, Alberta T2P 0Y9.

DESCRIPTION: The claim area is underlain by Valhalla intrusive rocks, predominantly quartz monzonites and granites.

WORK DONE: Geochemical survey, 207 soil samples analysed for uranium; ground gamma-ray spectrometer and ground magnetometer survey, 8.2 kilometres, covering Box 4.

REFERENCE: Assessment Report 7044.

PB 81 to 140 (Fig. E-1, NTS 82, No. 53)

LOCATION: Lat. 49° 46' Long. 119° 08' (82E/11E, 14E)
GREENWOOD M.D. Centred 3.5 kilometres east of the south end of Hydraulic Lake.

CLAIMS: PB 81 to 140, PNC 2, D 1 (6 units).

OWNER: Nissho-Iwai Canada Ltd. [claims transferred to PNC Exploration (Canada) Co. Ltd. January 1979].

OPERATOR: PNC EXPLORATION (CANADA) CO. LTD., 3060, 650 West Georgia Street, Vancouver V6B 4N8.
WORK DONE: Drill holes surveyed.
REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 38.

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

LOCATION: Lat. 49° 40' Long. 119° 45' (82E/12)
 OSOYOOS M.D. Nine kilometres northwest of Summerland, on Eneas Creek and southwest of Okanagan Lake park.
CLAIMS: ENEAS 1 (15 units), ENEAS 2 (15 units), ENEAS 3 (12 units), ENEAS 4 (18 units).
OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.
DESCRIPTION: The area is underlain by Nelson plutonic rocks and by a small stock of Upper Eocene Coryell plutonic rock. A small occurrence of Nicola volcanic rocks also outcrops.
WORK DONE: Reconnaissance geological mapping (12 rock chip samples collected); scintillometer survey; and geochemical survey, 112 stream and lake silt samples analysed for uranium, 110 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 6 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering all claims.

SHIN (Fig. E-1, NTS 82, No. 78)

LOCATION: Lat. 49° 31' Long. 119° 51' (82E/12W)
 OSOYOOS M.D. Seventeen kilometres west of Penticton, at the headwaters of Shingle Creek and between Skulaow and Riddle Creeks.
CLAIMS: SHIN 1 (18 units), SHIN 2 (15 units).
OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.
DESCRIPTION: The area is underlain by Upper Jurassic Nelson plutonic rocks and by Upper Eocene volcanic rocks of the Skaha Formation.
WORK DONE: Reconnaissance geological mapping (1 rock chip sample collected); scintillometer survey; and geochemical survey, 37 stream and lake silt samples analysed for uranium, 36 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 1 heavy mineral sample analysed for silver, gold, tin, uranium, and tungsten, covering both claims.

AGUR, ASH (Fig. E-1, NTS 82, No. 42)

LOCATION: Lat. 49° 34' Long. 119° 52' (82E/12W)
 OSOYOOS M.D. Sixteen kilometres west-northwest of Penticton, extending from Agur Lake southward to the headwaters of Shingle Creek and to the western boundary of Indian Reserve 3.

CLAIMS: AGUR 1 to 6, ASH 1 to 3 (145 units).
 OWNER: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602
 West Hastings Street, Vancouver V6B 1P6.
 METAL: Uranium.
 DESCRIPTION:

The Ash-Agur claims encompass a unique complex of highly radioactive trachytes and related rocks. There are four possibilities for economic uranium concentrations:

- (a) Hydrothermal vein deposits in surrounding rock resulting from impregnation with hydrothermal fluids related to the eruptions.
- (b) Concentration of uranium during later hydrothermal alterations which have affected some of these rocks.
- (c) 'Porphyry' uranium potential based on large volumes of radioactive rock.
- (d) Secondary uranium concentrations, including subvolcanic channel deposits.

A chemical and petrographic study (staining and thin-section work) has been completed for the radioactive volcanic rocks and derived clastics. The major conclusions are as follows:

- (a) The Agur-Ash radioactive complex involves a series of porphyritic flows and ignimbrites together with apparently comagmatic syenites and associated tuffs, breccias, and sandstones.
- (b) Later biotite-argillite alteration has mobilized uranium in some of these rocks. This alteration phase appears to be associated with vanadium enrichment.
- (c) The most radioactive rocks tend to be boxwork syenites, felted trachytes, and pink crystal tuffs or grits which have been altered by late-stage radioactive fluids. Uranium concentrations in excess of 100 ppm and thorium in excess of 500 ppm have been encountered at several localities.
- (d) The most radioactive units tend to occur either directly below the Tertiary volcanic rocks or within the lowermost flows of the Yellow Lake phonolites.

WORK DONE: 1977 and 1978 – surface geological mapping, various scales but mainly 1:5000; geochemical survey, approximately 250 soil, 75 silt, and 60 water samples; gamma-ray spectrometer survey, 75 kilometres; diamond drilling, 7 holes totalling 271.6 metres.

REFERENCES: Assessment Reports 6750, 6768.

TOK (Fig. E-1, NTS 82, No. 81)

LOCATION: Lat. 49° 35' Long. 119° 54' (82E/12W)
 OSOYOOS M.D. Sixteen kilometres west of Summerland, on Isintok Creek and between Bull Creek and the headwaters of Liddell Creek.

CLAIMS: TOK 1 to 4 (20 units each).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: The area is underlain by Upper Jurassic Nelson intrusive rocks and by Jura granodiorite. Upper Eocene Skaha Formation is exposed in the southeast corner of the area.

1978

(82E/12W)

WORK DONE: Reconnaissance geological mapping (1 rock chip sample collected); scintillometer survey; and geochemical survey, stream and lake silt samples collected and analysed, covering all claims.

DARK (GLAD) (Fig. E-1, NTS 82, No. 80)

LOCATION: Lat. 49° 41' Long. 119° 53' (82E/12W)
OSOYOOS M.D. Eighteen kilometres northwest of Summerland, adjoining the southwest corner of Darke Lake park.

CLAIMS: DARK 1 (16 units), DARK 2 (16 units), DARK 3 (16 units), DARK 4 (16 units), DARK 5 (12 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

METALS: Copper, silver (previously reported).

DESCRIPTION: The area is underlain by Valhalla granodiorites and by Nelson plutonic rocks.

WORK DONE: Reconnaissance geological mapping (1 rock chip sample collected); scintillometer survey; and geochemical survey, 45 stream and lake silt samples analysed for uranium, 28 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 2 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering all claims.

REFERENCES: Mineral Inventory 82E/NW-13; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 293; Assessment Report 1843.

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

LOCATION: Lat. 49° 41' Long. 120° 00' (82E/12W; 92H/9E)
SIMILKAMEEN M.D. Twenty-five kilometres west-northwest of Summerland, on the southwest side of Trout Creek opposite O'Hagan Creek.

CLAIM: DEMUTH 1 (20 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: The area is underlain by Valhalla intrusive rocks and by Jura granodiorite plutons.

WORK DONE: Reconnaissance geological mapping (1 rock chip sample collected); scintillometer survey; and geochemical survey, 16 stream and lake silt samples analysed for uranium, 5 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 1 heavy mineral sample analysed for silver, gold, tin, uranium, and tungsten, covering Demuth 1.

MAURICE (Fig. E-1, NTS 82, No. 74)

LOCATION: Lat. 49° 53' Long. 119° 45' (82E/13)
OSOYOOS M.D. Eighteen kilometres west of Kelowna, on the south side of Pincushion Mountain.

CLAIMS: MAURICE 5 to 8.
 OWNER: M. R. CHAPLIN, Box 737, Westbank.
 METALS: Molybdenum, copper.
 WORK DONE: Linecutting, 16 kilometres, covering all claims.

ALMA MATER, SILVER KING, IRON HORSE (Fig. E-1, NTS 82, No. 73)

LOCATION: Lat. 49° 48' Long. 119° 55' (82E/13W)
 OSOYOOS M.D. Centred approximately 12 kilometres west of Peachland, along Greata Creek from Glen Lake to Peachland Creek.

CLAIMS: GREATA III to GREATA VIII.
 OWNER: BRENDA MINES LTD., Box 420, Peachland V0H 1X0.
 METALS: Molybdenum, copper.
 DESCRIPTION: The Greata claims cover a contact region between a diorite of the Pennask batholith and Nicola metasedimentary rocks. Along this generally east-west contact several mineral occurrences have been noted. To the east are several skarns hosting variable amounts of molybdenite and chalcopyrite. To the west in the diorite are several intrusive stocks around which occurrences of molybdenite and chalcopyrite have been found.

WORK DONE: Road survey, 4.5 kilometres; linecutting, 65 kilometres; geological mapping; and geochemical survey, 1 350 soil samples analysed for copper, molybdenum, and zinc, covering Greata III to V.

REFERENCES: Mineral Inventory 82E/NW-17, 18, 25; *Minister of Mines, B.C., Ann. Rept.*, 1898, p. 1130; 1899, p. 748; 1936, p. D26; 1967, pp. 212, 213; Assessment Reports 718, 1110.

SEC (Fig. E-1, NTS 82, No. 84)

LOCATION: Lat. 49° 52' Long. 119° 49' (82E/13W)
 OSOYOOS M.D. Twenty-three kilometres west of Kelowna, on the north side of Trepanier Creek and on the southwest slope of Mount Clements.

CLAIM: SEC 1 (12 units).
 OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: Units exposed in the area include volcanic rocks of the Upper Eocene Skaha Formation, Upper Jurassic to Lower Cretaceous McNulty quartz monzonite, and Valhalla granodiorite. Permian (?) Cache Creek Group rock is also exposed along with small occurrences of Pliocene plateau basalts.

WORK DONE: Reconnaissance geological mapping (9 rock chip samples collected); scintillometer survey; geochemical survey, 218 stream and lake silt samples analysed for uranium, 72 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 5 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering Sec 1.

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

- LOCATION:** Lat. 49° 55' Long. 119° 47' (82E/13W)
OSOYOOS and VERNON M.D. Twenty-two kilometres west-northwest of Kelowna, surrounding Jackpine and Banana Lakes.
- CLAIMS:** MAURICE 1 to 4, JACKPINE 1 (20 units), JACKPINE 2 (20 units), JACKPINE 3 (20 units), JACKPINE 4 (20 units).
- OWNERS:** Brenda Mines Ltd. and Maurice R. Chaplin.
- OPERATOR:** BRENDA MINES LTD., Box 420, Peachland V0H 1X0.
- METAL:** Molybdenum.
- DESCRIPTION:** Molybdenite rosettes up to 6 millimetres in size are hosted by a series of parallel, 1 to 10-centimetre quartz veins. These veins are in a coarse-grained quartz monzonite and strike generally east-west. East of the property the quartz monzonite, which may be part of the Pennask batholith, appears to form a contact with argillites of the Cache Creek Group.
- WORK DONE:** Road survey, 4.5 kilometres, covering Jackpine 1, 3 and Maurice 1-4; road construction, 2 kilometres, on Jackpine 1, 2; diamond drilling, 4 NQ holes totalling 358 metres; linecutting, 96 kilometres; geological mapping; and geochemical survey, 1 920 soil samples analysed for copper, molybdenum, and zinc, covering all claims.
- REFERENCES:** Mineral Inventory 82E/NW-7; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 31; 1977, p. E 35.

COMA (Fig. E-1, NTS 82, No. 83)

- LOCATION:** Lat. 49° 56' Long. 119° 51' (82E/13W)
OSOYOOS M.D. Twenty-seven kilometres west-northwest of Kelowna, between Cameo and Lacoma Lakes.
- CLAIMS:** COMA 1 (4 units), COMA 2 (16 units), COMA 3 (16 units).
- OWNER:** CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.
- DESCRIPTION:** The area is underlain by Valhalla granodiorite and by McNulty quartz monzonite of Early Cretaceous to Late Jurassic age.
- WORK DONE:** Reconnaissance geological mapping (7 rock chip samples collected); scintillometer survey; and geochemical survey, 99 stream and lake silt samples analysed for uranium, 72 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 3 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering all claims.

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

- LOCATION:** Lat. 49° 48' Long. 119° 33' (82E/13E)
VERNON M.D. Five to 16 kilometres north-northwest of Kelowna, along Lambly Creek.

1978

(82E/13E)

CLAIMS: ACTIVE 1 (20 units), ACTIVE 3 (20 units), ACTIVE 4 (20 units), ACTIVE 5 (20 units), ACTIVE 11 (3 units), ACTIVE 12 (20 units), ACTIVE 13 (6 units).
OWNER: MOUNTAIN MINERALS LIMITED, Box 700, Lethbridge, Alberta T1J 3Z6.
DESCRIPTION: The property is underlain by argillites, siltstones, limestones, and volcanic rocks of the Cache Creek Group, Nelson intrusive rocks, and Tertiary volcanic rocks of Eocene and Miocene (?) age.
WORK DONE: Surface geological mapping, 1:20 000; ground scintillometer survey, 30 kilometres; and geochemical survey, 241 soil and 15 water samples, covering Active 1-5, 10, 13.
REFERENCE: Assessment Report 6734.

ACTIVE 10 (Fig. E-1, NTS 82, No. 47)

LOCATION: Lat. 49° 52' Long. 119° 35' (82E/13E)
VERNON M.D. Six kilometres west of Kelowna, between McDougall Creek and Art Pond.
CLAIM: ACTIVE 10 (2 units).
OWNER: MOUNTAIN MINERALS LIMITED, Box 700, Lethbridge, Alberta T1J 3Z6.
DESCRIPTION: The property is underlain only by the Marron Formation, represented chiefly by massive porphyritic trachytes.
WORK DONE: Included with 82, No. 45 (Active).
REFERENCE: Assessment Report 6734.

ACTIVE 1 (Fig. E-1, NTS 82, No. 46)

LOCATION: Lat. 49° 59' Long. 119° 40' (82E/13E)
VERNON M.D. Seventeen kilometres northwest of Kelowna, 3 kilometres northeast of Lambly Lake, on Lambly Creek.
CLAIM: ACTIVE 1 (20 units).
OWNER: MOUNTAIN MINERALS LIMITED, Box 700, Lethbridge, Alberta T1J 3Z6.
WORK DONE: Included with 82, No. 45 (Active).
REFERENCE: Assessment Report 6734.

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

LOCATION: Lat. 49° 46' Long. 119° 20' (82E/14W)
OSOYOOS M.D. Seventeen kilometres southeast of Kelowna, bordered on the north and east by the Canadian Pacific Railway tracks and on the east by Pooley Creek.
CLAIM: WHO (12 units).
OWNER: Exel Exploration Ltd.
OPERATOR: MANNY CONSULTANTS LTD., 6017 Larch Street, Vancouver.
WORK DONE: 1977 — ground scintillometer survey, 19.5 kilometres, covering Who.
REFERENCE: Assessment Report 6620.

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

LOCATION: Lat. 49° 55' Long. 119° 17' (82E/14W)
 VERNON M.D. Sixteen kilometres east-northeast of Kelowna, extending southward from Scotty Creek to the headwaters of Prather Creek.

CLAIMS: SCOTT 1 to 6 (83 units).

OWNER: LACANA MINING CORPORATION, 312, 409 Granville Street, Vancouver.

DESCRIPTION: A Late Tertiary olivine basalt cap overlies a paleostream channel resting on the Monashee gneiss basement rocks.

WORK DONE: Percussion drilling, 5 holes totalling 300 metres, on Scott 3 and 4.

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

LOCATION: Lat. 49° 45' Long. 119° 11' (82E/14E)
 GREENWOOD M.D. Centred 1 kilometre south of the south end of Hydraulic Lake.

CLAIMS: KAL 1 to 44 and HAYNES 1 to 7 (103 units), TESS (15 units), WEDGE 1.

OWNER: PEREGRINE PETROLEUM LTD., 508, 475 Howe Street, Vancouver.

WORK DONE: Surface diamond drilling, 4 NQ holes totalling 180 metres, on Kal 1 and Haynes 6.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 34 (Goat); Assessment Report 6964.

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

LOCATION: Lat. 49° 46' Long. 119° 06' (82E/14E)
 GREENWOOD M.D. Thirty-two kilometres east-southeast of Kelowna and 5 kilometres east of Hydraulic Lake, at the headwaters of Clark Creek.

CLAIMS: ARK 1 to 4 (53 units) (restaking of GOAT 4 to 7).

OWNER: LACANA MINING CORPORATION, 312, 409 Granville Street, Vancouver V6C 1T2.

DESCRIPTION: Most of the property is underlain by gneisses of the Monashee Group. One small area of conglomerates (Kettle River?) was found in the northwest corner of the property.

WORK DONE: Prospecting; surface geological mapping, 1:10 000; geochemical survey, 750 soil samples; and radiometric survey, covering Ark 1-4.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 34 (Goat); Assessment Report 6116.

PB 260 to 289 (Fig. E-1, NTS 82, No. 258)

LOCATION: Lat. 49° 47' Long. 119° 03' (82E/14E)
 GREENWOOD M.D. Along the north side of the West Kettle River, opposite Campin Creek and northeastward.

CLAIMS: PB 260 to 289.
 OWNER: Nissho-Iwai Canada Ltd. [claims transferred to PNC Exploration (Canada) Co. Ltd. January 1979].
 OPERATOR: PNC EXPLORATION (CANADA) CO. LTD., 3060, 650 West Georgia Street, Vancouver V6B 4N8.
 METAL: Uranium.
 WORK DONE: Drill holes surveyed.
 REFERENCES: Mineral Inventory 82E/NW-52; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 38.

BASALT (Fig. E-1, NTS 82, No. 52)

LOCATION: Lat. 49° 47' Long. 119° 03' (82E/14E)
 GREENWOOD M.D. Thirty-four kilometres east-southeast of Kelowna, mainly on the south side of the West Kettle River at Campin Creek.
 CLAIMS: BASALT 1 to 5 (45 units).
 OWNER: LACANA MINING CORPORATION, 312, 409 Granville Street, Vancouver V6C 1T2.
 WORK DONE: Geochemistry, covering Basalt 3.
 REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 37; Assessment Report 6616.

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

LOCATION: Lat. 49° 48' Long. 119° 03' (82E/14E)
 GREENWOOD M.D. Thirty-three kilometres east-southeast of Kelowna, 1 kilometre northwest of the mouth of Campin Creek.
 CLAIMS: WKR 1 (12 units), WKR 2 (1 unit).
 OWNER: Wespas Resources Ltd.
 OPERATOR: RIVER MOUNTAIN RESOURCES LTD., 1606, 1055 West Georgia Street, Vancouver V6E 3P3.
 DESCRIPTION: The claims were staked to cover a possible extension of a uranium-bearing paleochannel covered by adjacent claims. Work on the property indicates that further exploration is not warranted.
 WORK DONE: Surface geological mapping, 1:5000; geochemical survey, 75 soil samples; and ground scintillometer survey, 3.5 kilometres, covering both claims.
 REFERENCE: Assessment Report 6981.

PB 180 to 259 (Fig. E-1, NTS 82, No. 259)

LOCATION: Lat. 49° 48' Long. 119° 12' (82E/14E)
 OSOYOOS and VERNON M.D. Centred 2.5 kilometres north-northwest of the north end of Hydraulic Lake.
 CLAIMS: PB 180 to 198, 208, 209, 212 to 214, 250 to 259.
 OWNER: Nissho-Iwai Canada Ltd. [claims transferred to PNC Exploration (Canada) Co. Ltd. January 1979].

OPERATOR: PNC EXPLORATION (CANADA) CO. LTD., 3060, 650 West Georgia Street, Vancouver V6B 4N8.
 WORK DONE: Drill holes surveyed.
 REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 38.

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

LOCATION: Lat. 49° 48' Long. 119° 12' (82E/14E)
 VERNON, OSOYOOS, and GREENWOOD M.D. Twenty-one kilometres east-southeast of Kelowna, between Hydraulic Lake and Mission Creek.
 CLAIMS: KETTLE 1 to 23, 101 to 108, 110, URANUS 1, 2, 4, TL 1 to 14.
 OWNER: Tye Lake Resources Ltd.
 OPERATOR: PLACER DEVELOPMENT LIMITED, 700, 1030 West Georgia Street, Vancouver V6E 2Y3.
 METAL: Uranium.
 DESCRIPTION: Uranium mineralization occurs in unconsolidated Tertiary sedimentary rocks below impermeable Miocene plateau basalt.
 WORK DONE: Surface diamond drilling, 9 HQ holes totalling 360 metres, on Kettle 6, 12.
 REFERENCES: Mineral Inventory 82E/NW-53; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 33; 1977, p. E 37; Assessment Reports 6011, 6288, 6390, 6418.

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

LOCATION: Lat. 49° 49' Long. 119° 01' (82E/14E)
 GREENWOOD M.D. Thirty-five kilometres east-southeast of Kelowna, on the north side of the West Kettle River, 4 kilometres northeast of the mouth of Campin Creek.
 CLAIM: BAG 1 (18 units).
 OWNER: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.
 DESCRIPTION: Acid volcanic rocks of the Phoenix Group are overlain by a small Miocene basalt capping. Oxidized fluvial sediments are present at the base of the basalt cap.
 WORK DONE: 1977 and 1978 – surface geological mapping, 1:10 000; gamma-ray spectrometer survey, 12 kilometres; geochemical survey, 212 soil samples analysed for uranium; and drilling, 2 holes, on Bag 1.
 REFERENCE: Assessment Report 6627.

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

LOCATION: Lat. 49° 49' Long. 118° 46' (82E/15W)
 GREENWOOD M.D. Thirty kilometres north of Christian Valley, along the east side of Damfino Creek, centred 2.5 kilometres north of Nevertouch Lake.

1978

(82E/15W)

CLAIMS: GRAND DADDY (12 units), GRAND 1 (6 units), GRAND 2 (6 units).
OWNERS: M. Morrison and Lacana Mining Corporation.
OPERATOR: LACANA MINING CORPORATION, 312, 409 Granville Street, Vancouver V6C 1T2.
DESCRIPTION: A Late Tertiary olivine basalt flow caps biotite schist basement rocks of the Monashee Group. It was hoped that the unconformity would host uraniferous sediments of the type found at Hydraulic Lake and Lassie Lake. No uranium mineralization was encountered.
WORK DONE: Limited geochemical survey for uranium; percussion drilling, 9 holes totalling 502.9 metres on Grand Daddy.
REFERENCE: Assessment Report 7025.

DAM (Fig. E-1, NTS 82, No. 140)

LOCATION: Lat. 49° 51' Long. 118° 50' (82E/15W)
VERNON M.D. On the north side of Damfino Creek, 8 kilometres northwest of Nevertouch Lake.
CLAIM: DAM (20 units).
OWNER: FALCONBRIDGE NICKEL MINES LIMITED, 700, 1112 West Pender Street, Vancouver V6E 2S1.
WORK DONE: 1977 — geochemical survey, 40 silt and 9 water samples, covering Dam.
REFERENCE: Assessment Report 6709.

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

LOCATION: Lat. 49° 51' Long. 118° 57' (82E/15W)
VERNON M.D. Thirty-eight kilometres east of Kelowna, on the West Kettle River, 8 kilometres northeast of the junction of the Big White road and the Crown Zellerbach East Kettle main logging road.
CLAIM: AUTUMN 1 (14 units).
OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.
DESCRIPTION: Miocene plateau basalt unconformably overlies Monashee gneiss.
WORK DONE: Linecutting, 7 kilometres; surface geological mapping, 1:2500, covering Autumn.
REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 38; Assessment Report 6847.

NOR (Fig. E-1, NTS 82, No. 61)

LOCATION: Lat. 49° 46' Long. 118° 42' (82E/15E)
GREENWOOD M.D. Twenty-five kilometres north-northeast of Christian Valley, 1 kilometre west of Rendell Creek.
CLAIMS: NOR 1 (8 units), NOR 2 (6 units).
OWNER: NORCEN ENERGY RESOURCES LIMITED, 715 Fifth Avenue SW., Calgary, Alberta T2P 2X7.

1978

(82E/15E)

DESCRIPTION: Two rock units were encountered during geological mapping of the property. The oldest rocks consist of Precambrian (Proterozoic) granitoid gneisses and mica schist of the Monashee Group. This unit is unconformably overlain by olivine basalt, believed to be of Tertiary (Miocene ?) age.

WORK DONE: 1977 – surface geological mapping, 1:16 000, covering both claims.

REFERENCE: Assessment Report 6669.

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

LOCATION: Lat. 49° 46' Long. 118° 43' (82E/15E)
GREENWOOD M.D. On Kettle River at its junction with Split Creek.

CLAIMS: JADO 1 (20 units), MILLA 1 (10 units).

OWNER: Wespas Resources Ltd.

OPERATOR: RIVER MOUNTAIN RESOURCES LTD., 1606, 1055 West Georgia Street, Vancouver.

DESCRIPTION: The claims are underlain by metamorphosed gneisses of the Precambrian Monashee Group. Small stocks, sills, and dykes of granite-granodiorite composition, and probably related to the Cretaceous Valhalla intrusions, irregularly intrude the gneisses.

WORK DONE: Surface geological mapping, 1:1333; geochemical survey, 67 soil samples; and ground scintillometer survey, covering Jado 1.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 39, E 40; Assessment Reports 6530, 6838.

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

LOCATION: Lat. 49° 47' Long. 118° 37' (82E/15E)
GREENWOOD M.D. Twenty-eight kilometres north-northeast of Christian Valley, between Rendell and Goatskin Creeks.

CLAIMS: SKIN (20 units), SKIN 2 (6 units).

OWNER: FALCONBRIDGE NICKEL MINES LIMITED, 700, 1112 West Pender Street, Vancouver.

DESCRIPTION: Columnar-jointed Tertiary plateau basalt overlies plutonic rocks varying in composition and texture from fine-grained diorite to coarse-grained granite. The surveys did not locate any anomalous values for uranium or fluorine.

WORK DONE: 1977 – geochemical survey, 12 silt and 19 water samples analysed for uranium and fluorine, covering both claims.

REFERENCE: Assessment Report 6700.

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

LOCATION: Lat. 49° 54' Long. 118° 30' (82E/15E, 16W)
VERNON M.D. Twenty-nine kilometres west-northwest of Edgewood, midway between Lightning Peak and Galloping Mountain, at the head of Rampalo Creek.

CLAIMS: GEO 1 (6 units), GEO 2 (15 units).
 OWNER: AMORE MINERALS INC., 575 Richards Street, Vancouver V6B 2Z5.
 DESCRIPTION: The area of the mineral claims is underlain by rocks of the Anarchist Group of probable Permian age which have been intruded by the Nelson and Valhalla plutonic rocks.
 WORK DONE: Linecutting, 15 kilometres; geochemical survey, 502 soil samples analysed for copper, lead, silver, and zinc, covering Geo 2.
 REFERENCE: Assessment Report 6825.

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

LOCATION: Lat. 49° 54.5' Long. 118° 40' (82E/15E)
 VERNON M.D. On the south side of Winifred Creek, 2 kilometres east of the Kettle River.
 CLAIMS: JILL 1 to 4.
 OWNER: GEORGE WILLIAM MONKS, 5, 447 Van Horne, Penticton V2A 4K7.
 METALS: Silver, lead, zinc.
 DESCRIPTION: A quartz vein occurs in an area of monzonite and micaceous schist.
 WORK DONE: Extension of trenching, approximately 1 metre in length and 1 metre wide; adit extended approximately 1 metre, on Jill 3 and 4.

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

LOCATION: Lat. 49° 55' Long. 118° 42' (82E/15E)
 VERNON M.D. Thirteen kilometres west-northwest of Lightning Peak, extending south from Stove Creek along the west side of the Kettle River.
 CLAIMS: BAS 1 (10 units), BASS 1 to 3 (1 unit each), BAAS 3 (1 unit).
 OWNERS: R. W. Yorke-Hardy and S. E. Arnold.
 OPERATORS: R. W. YORKE-HARDY, Box 2182, Revelstoke V0E 2S0 and SNOW-FLAKE MINING CO. LTD., 325, 6400 Roberts Street, Burnaby V5G 4C9.
 METALS: Gold, silver, lead, zinc, (tungsten, copper).
 DESCRIPTION: Galena, sphalerite, and pyrite with minor chalcopyrite and scheelite occur in quartz veins adjacent to a porphyry granite segment of the Nelson batholith and in quartz stringers forming a large stockwork or breccia zone.
 WORK DONE: Road building (approximately 500 metres) and upgrading (approximately 1 500 metres); surface geological mapping, 1:4800; percussion drilling, 3 holes totalling 355 metres; trenching and stripping, 6 trenches totalling approximately 300 metres, covering Bas 1.
 REFERENCES: Mineral Inventory 82E/NE-44; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 40; Assessment Report 4979.

NELSON 82F**HAWK (Fig. E-1, NTS 82, No. 89)**

LOCATION: Lat. 49° 00' Long. 116° 26' (82F/1W)
 NELSON M.D. Approximately 10 kilometres south-southeast of Creston, on Huscroft Creek at the International Boundary.

CLAIMS: HAWK, HAWK 1 to 3.

OWNERS: HARRY J. H. YERBURY, Lister and E. C. SHUNTER, Box 1501, Creston.

METALS: Copper, silver, gold.

DESCRIPTION: Chalcopyrite, malachite, silver, and gold occur in gabbro near the Aldridge Formation.

WORK DONE: Retimbering tunnel, 33 metres, on Hawk; open cut, 24 cubic metres, on Hawk 1; open cut, 16 cubic metres, on Hawk 3.

REFERENCE: Mineral Inventory 82F/SE-86.

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

LOCATION: Lat. 49° 08' Long. 116° 26' (82F/1W)
 NELSON M.D. On the north side of the Creston-Kitchener Highway (Route 3), 1.5 kilometres east of Arrow Creek.

CLAIM: SHUNTER.

OWNER: E. C. SHUNTER, Box 1501, Creston V0B 1G0.

DESCRIPTION: Scintillometer readings in rocks of the Aldridge Formation are reportedly equivalent to those taken at the Sullivan mine. Minor galena is also reported.

WORK DONE: Open cut, 19 cubic metres, on Shunter.

KID (Fig. E-1, NTS 82, No. 91)

LOCATION: Lat. 49° 12' Long. 116° 15' (82F/1W)
 NELSON M.D. Seven kilometres northeast of Kitchener, on Peterson Creek.

CLAIMS: BOO 1 and 2.

OWNER: J. McDONALD, Box 48444, Bentall Station, Vancouver V7X 1A2.

METALS: Silver, lead, zinc.

DESCRIPTION: Interbedded siliceous argillite and fine-grained argillaceous quartzite of the Middle Aldridge Formation underlie the claims.

WORK DONE: Two test pits and geochemical survey, 100 determinations, covering Boo 2.

REFERENCES: Mineral Inventory 82F/SE-2, 13; *Minister of Mines, B.C.*, Ann. Rept., 1967, p. 248; Assessment Report 1069, 1625, 1642.

WILD (Fig. E-1, NTS 82, No. 92)

LOCATION: Lat. 49° 13' Long. 116° 34' (82F/2E)
 NELSON M.D. Twelve kilometres north-northwest of Creston, on Wild Creek and extending to the headwaters of Drywash Creek.

CLAIMS: WILD 1 and 2 (12 units each).
 OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.
 DESCRIPTION: The claims are underlain by a sequence of limestone, dolomite, black argillite, and quartzite. The Wild claims were staked to explore a possible strike extension of silver-lead-zinc mineralization known to occur on the Liz claims.
 WORK DONE: Linecutting, 10 kilometres; geochemical survey, 452 soil samples analysed for silver, lead, and zinc, covering both claims.
 REFERENCE: Assessment Report 6772.

GIANT, MIDGET (Fig. E-1, NTS 82, No. 93)

LOCATION: Lat. 49° 02' Long. 116° 56' (82F/2W)
 NELSON M.D. Approximately 30 kilometres west-southwest of Creston, along the Priest River and about 2 kilometres north of the International Boundary.
 CLAIMS: GIANT 1 to 16, MIDGET, MIDGET A, MIDGET B, MIDGET C, MIDGET D, SILVER KING, SILVER KING A, SILVER KING B, SILVER KING C.
 OWNERS: E. C. SHUNTER, Box 1501, Creston V0B 1G0 and DAVID E. SHUNTER, 765 Ross Avenue, Penticton.
 METALS: Silver, lead, copper.
 DESCRIPTION: Galena, tetrahedrite, malachite, and pyrite are found in scattered grains and bunches in massive quartz veins.
 WORK DONE: Open cuts, 462 cubic metres, on Giant 2, 4, 14, Midget, Midget C, and Silver King.
 REFERENCES: Mineral Inventory 82F/SE-11; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 445.

MOLLY (Fig. E-1, NTS 82, No. 96)

LOCATION: Lat. 49° 05' Long. 117° 12' (82F/3E)
 NELSON M.D. On Lost Creek, 4 kilometres from the South Salmo River.
 CLAIMS: MOLLY, MOLLY 1 to 9 (Lots 14232 to 14241).
 OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.
 METALS: Molybdenum, tungsten.
 DESCRIPTION: Disseminated molybdenite and scheelite occur in garnet skarn within a limestone lens at the contact of the Active Formation (black argillites) and a Cretaceous granite stock.
 WORK DONE: Diamond drilling, 3 AQ holes totalling 266 metres on Molly, Molly 4; magnetometer survey, 4 kilometres, covering Molly, Molly 2, 4, 6.
 REFERENCES: Mineral Inventory 82F/SW-21; *Minister of Mines, B.C.*, Ann. Rept., 1915, pp. 27, 136, 165-167; 1927, p. 204; 1929, p. 353; 1930, p. 447; 1942, p. 77; 1943, p. 77; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 10, p. 146; Bull. 41, p. 132; *Geol. Surv., Canada*, Mem. 172, pp. 84, 85; Mem. 308, p. 193.

1978

(82F/3E)

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

LOCATION: Lat. 49° 05' Long. 117° 13' (82F/3E)
NELSON M.D. Centred 13 kilometres south-southeast of Salmo, extending from Nevada Mountain southwestward to Wilson Creek.

CLAIMS: MUT 1 to 6 (84 units).

OPERATORS: 1977 – WESTWIND MINES LTD., 904, 885 Dunsmuir Street, Vancouver; 1978 – BENSON MINES LTD., 404 Somerset Street, North Vancouver.

METALS: Tungsten, molybdenum, uranium.

DESCRIPTION: The main areas of interest on the claims are underlain by argillite, limestone, and limy argillite of the Active Formation adjacent to the Lost Creek stock. Scheelite and molybdenite occur in contact areas in garnet diopside skarn, in both intrusive and sedimentary environments. Uranium is indicated by fluorescence in platy argillite.

WORK DONE: 1977 – road construction and improvement, 10 kilometres; trenching, 260 metres; and surface geological mapping, covering all claims; surface diamond drilling, 1 AQ hole totalling 156 metres, on Mut 5; 1978 – stripping, 114 square metres, on Mut 5; surface diamond drilling, 3 AQ holes totalling 454.8 metres, and surface geological mapping, 1:2000 and detailed, covering Mut 4 and 5.

REFERENCES: Mineral Inventory 82F/SW-280; Assessment Reports 6667, 7041.

VICTORY, UDIVILLE, AMCO (Fig. E-1, NTS 82, No. 98)

LOCATION: Lat. 49° 08' Long. 117° 10' (82F/3E)
NELSON M.D. Ten kilometres southeast of Salmo, between Sheep and Lost Creeks, along Bennett and Billings Creeks.

CLAIMS: VICTORY (Lot 15842), UDIVILLE, AMCO, etc. (28 surveyed claims), WOW (10 units), WO 1 (12 units), WO 2 (8 units).

OPERATOR: MENTOR EXPLORATION AND DEVELOPMENT LTD., 300, 365 Bay Street, Toronto, Ontario M5H 2V1.

METALS: Tungsten, molybdenum, lead, zinc.

DESCRIPTION: Tungsten and molybdenite occur in skarn zones at limestone and granite contacts, molybdenite occurs in intrusive rock, and lead and zinc occur as replacement in limestone.

WORK DONE: Geochemical survey, 1 032 soil samples analysed for tungsten, lead, and zinc, covering Victory, Udiville, Alice, Last Chance, and Wow.

REFERENCES: Mineral Inventory 82F/SW-58, 59, 246; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 41; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 41; Assessment Reports 14, 63 (Deer), 82, 83, 6421, 6975.

DOUBLE B (SITTING BULL) (Fig. E-1, NTS 82, No. 95)

LOCATION: Lat. 49° 09' Long. 117° 10' (82F/3E)
NELSON M.D. Eight kilometres east-southeast of Salmo, on Hedgehog Creek, immediately north of Sheep Creek.

1978

(82F/3E)

CLAIMS: DOUBLE B, DOUBLE B 2, 3, 5, 6, DOUBLE B Fraction, plus Mineral Lease M-6 (SITTING BULL, Lot 2690).

OPERATOR: F. W. CARTWRIGHT, Box 754, Nelson V1L 5R7.

METALS: Zinc, silver, tungsten.

DESCRIPTION: Replacement deposits of zinc and silver minerals occur in dolomite. Tungsten mineralization occurs in skarn and silica zones along dolomite and granite contacts.

WORK DONE: Trenching, 60 metres; test pitting, 10 metres; stripping, 80 metres; diamond drilling, 19.8 metres of EX drilling (extended hole from 196.6 metres to 216.4 metres), on Sitting Bull.

REFERENCES: Mineral Inventory 82F/SW-263; *Minister of Mines, B.C.*, Ann. Rept., 1926, p. 280; 1928, p. 347; 1968, p. 244; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 42.

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

LOCATION: Lat. 49° 14' Long. 117° 07' (82F/3E)
NELSON M.D. Thirteen kilometres east-northeast of Salmo, on Active Creek, immediately east of Howard Creek.

CLAIMS: HOWARD (Lot 12540), PADDY (Lot 12538), GLENCOE (Lot 12539), LOCHIEL (Lot 12543), JEREMY FR. (Lot 12544), PRINCE CHARLIE (Lot 12541), CONTACT (Lot 12542), ALLAN FR. (Lot 12545), DURANGO JOHN (4 units).

OWNER: John Stoochnow.

OPERATOR: McINTYRE MINES LTD., 1003, 409 Granville Street, Vancouver V6C 1T2.

METALS: Gold, zinc, lead, silver, molybdenum, copper, nickel, cadmium.

DESCRIPTION: The Howard area is within the contact zone between a circular stock of porphyritic granite (satellitic Nelson intrusions), and quartzite and shale, with minor marble (Active Formation). Production in 1938 came from a single, well-defined, moderately dipping lens of massive sulphides contained within an intense alteration envelope. Work in 1978 was confined to sampling the altered zone for gold content.

WORK DONE: Soil sampling, 56 samples analysed for gold, lead, zinc, and silver, on Howard; underground channel sampling, 139 samples analysed for gold, on Howard and Paddy.

REFERENCES: Mineral Inventory 82F/SW-199; *Minister of Mines, B.C.*, Ann. Rept., 1926, pp. 276-278; 1942, p. 63; 1968, p. 241; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 316; Assessment Report 7010.

M (Fig. E-1, NTS 82, No. 94)

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

CLAIMS: M 1 to 7, 17.

OWNER: MCP Resources Corporation.

OPERATOR: JOHN H. KRUZICK, 2000 Arbury Avenue, Coquitlam.
 METALS: Zinc, lead, silver.
 DESCRIPTION: Sulphide mineralization, principally pyrrhotite, pyrite, and sphalerite, is localized along a shear zone in argillite and limestone of the Active Formation.
 WORK DONE: Surface geological mapping, 1:4800, covering all claims; geochemical survey, 9 silt samples analysed for lead, silver, and zinc.
 REFERENCES: Mineral Inventory 82F/SW-240; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 42, E 43; Assessment Reports 5321, 6474, 6973.

LOMOND (Fig. E-1, NTS 82, No. 100)

LOCATION: Lat. 49° 01' Long. 117° 19' (82F/3W)
 NELSON M.D. Twenty-eight kilometres east-southeast of Trail and 1 kilometre west of the border crossing point of Nelway.
 CLAIMS: HASTINGS, GLASGOW, SALMO, PIONEER, LAKE VIEW, MEDOC, RENFREW, GOLDEN ROD, INTERNATIONAL, GOLDEN FLEECE, PIONEER NO. 1 FR., RENFREW NO. 1, INTERNATIONAL NO. 1, GLASGOW NO. 1 FR., SALMO NO. 1 FR. (Lots 6590 to 6612).
 OWNER: J. W. MacLeod.
 OPERATOR: CARMAC RESOURCES LTD., 333, 885 Dunsmuir Street, Vancouver V6C 1N5.
 METALS: Lead, zinc, (silver).
 DESCRIPTION: Oxidized pyrite deposits replace Cambrian Nelway Formation limestone and dolomite.
 WORK DONE: Nine trenches, on Salmo, Renfrew No. 1, Golden Rod, and Lake View; geochemical survey, 268 soil samples analysed for lead and zinc, covering all claims.
 REFERENCES: Mineral Inventory 82F/SW-18; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 41, pp. 128-130; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 43; Assessment Reports 6416, 6880.

TOP (Fig. E-1, NTS 82, No. 102)

LOCATION: Lat. 49° 14' Long. 117° 45' (82F/4)
 TRAIL CREEK M.D. Six kilometres west-southwest of the community of Blueberry Creek, on the south side of China Creek.
 CLAIM: TOP 1 (16 units).
 OWNER: SAN ANTONIO EXPLORATIONS LTD., 1015, 470 Granville Street, Vancouver V6C 1V5.
 DESCRIPTION: The north and east claim area is underlain by metasedimentary rocks consisting primarily of quartz biotite schist with minor chlorite sericite schist and quartzite. The southwest portion of the area is underlain by rocks of the Nelson batholith.

1978

(82F/4E)

WORK DONE: 1977 – surface geological mapping, 1:4000; ground scintillometer survey, 12.4 kilometres; and geochemical survey, 250 soil samples analysed for uranium and silver, covering Top 1.

REFERENCE: Assessment Report 6800.

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

LOCATION: Lat. 49° 13' Long. 117° 39' (82F/4E)

NELSON M.D. Eleven kilometres south of Castlegar, along Champion Creek, immediately east of the Columbia River.

CLAIMS: ENERGY 2000 (20 units), ENERGY 5000 (20 units).

OWNER: BURLINGTON GOLD MINES LTD., 1012, 470 Granville Street, Vancouver V6C 1V5.

METAL: Uranium.

WORK DONE: Prospecting and geochemical survey, 238 soil samples analysed for uranium, covering both claims; percussion drilling and scintillometer probing, 16 holes 5 to 6 metres each, on Energy 2000.

CC (Fig. E-1, NTS 82, No. 103)

LOCATION: Lat. 49° 15' Long. 117° 43' (82F/4E, 5E)

TRAIL CREEK M.D. Four kilometres west of the community of Blueberry Creek, lying across China Creek.

CLAIMS: CC 6 and 7 (20 units each).

OWNERS: HANS BUHR, 5910 Highbury Street, Vancouver V6N 1Y9 and ROY CARLSON, 1765 Kilkenny Road, North Vancouver V7Y 1T8.

DESCRIPTION: Several radioactive occurrences were found on the property.

WORK DONE: 1977 – prospecting and trenching, covering both claims.

REFERENCE: Assessment Report 6702.

VELVET (Fig. E-1, NTS 82, No. 141)

LOCATION: Lat. 49° 01' Long. 117° 55' (82F/4W)

TRAIL CREEK M.D. Ten kilometres southwest of Rossland, on Christina Lake Highway, immediately east of Big Sheep Creek.

CLAIM: VELVET FR. (Lot 2521).

OWNER: VELVET EXPLORATION CO. LTD., c/o W. Graham, 2300 Tolmie Avenue, Coquitlam.

METALS: Silver, gold.

WORK DONE: Diamond drilling, 1 000 metres (planned).

REFERENCES: Mineral Inventory 82F/SW-162; *Minister of Mines, B.C.*, Ann. Rept., 1966, p. 199.

MAR (Fig. E-1, NTS 82, No. 104)

LOCATION: Lat. 49° 02' Long. 117° 54' (82F/4W)

TRAIL CREEK M.D. Seven kilometres southwest of Rossland, on the headwaters of Sophia Creek.

1978

(82F/4W)

CLAIMS: MAR 1 (20 units), MAR 2 to 4, SKIN 1 to 4, CAL (15 units), ROSS (10 units), LAND 1 to 6.

OWNERS: L. G. Morrison and A. M. White.

OPERATOR: UNITED CANSO OIL & GAS LTD., Box 2544 MPO, Calgary, Alberta T2P 2M7.

DESCRIPTION: Rossland Formation volcanic rocks, mainly andesites, are intruded by serpentinized ultrabasic stocks. The serpentinite and Rossland rocks are intruded by the Coryell pluton. There are no significant mineralized outcrops on the property. Exploration is being directed at areas where volcanic rocks and serpentinite in close proximity to each other are both intruded by the Coryell.

WORK DONE: Surface geological mapping, 1:10 000, covering all claims and 1:2500, covering Mar 1-4, Skin 1-4, and Cal; geochemical survey, 1 150 soil samples assayed for copper, lead, and zinc, covering Mar 1-4, Skin 1-4, and Cal, and 80 silt samples assayed for copper, lead, and zinc, covering all claims; proton magnetometer traversing, covering Mar 1-4, Skin 1-4, and Cal.

SYNDICATE (Fig. E-1, NTS 82, No. 105)

LOCATION: Lat. 49° 05' Long. 117° 56' (82F/4W)
TRAIL CREEK M.D. Nine kilometres west of Rossland, on the east side of Sheep Creek, 2 kilometres north of Freddy Creek.

CLAIM: SYNDICATE (12 units).

OWNER: FRANK HASTINGS, 2366 Third Street South, Cranbrook V1C 4X5.

DESCRIPTION: The property is situated on a shear zone in the Coryell syenites. The rock types vary from a fine-grained hornblende syenite to coarse-grained hornblende and biotite syenites, which, in places, contain various alteration minerals. Only magnetite has been identified in outcrop mineralization studies to date. However, significant U_3O_8 values have been discovered in the main shear's stream geochemistry.

WORK DONE: Linecutting (1 500 metres of access trail cut); scintillometer survey, 0.8 kilometre; and geochemical survey, 59 soil samples analysed for uranium, covering Syndicate.

REFERENCE: Assessment Report 6994.

LINDA (Fig. E-1, NTS 82, No. 107)

LOCATION: Lat. 49° 08.5' Long. 117° 57' (82F/4W)
TRAIL CREEK M.D. Twelve kilometres northwest of Rossland, midway between Old Glory Mountain and Lamb Creek.

CLAIMS: LINDA (20 units), GAIL (6 units), GLORY 1 (8 units), GLORY 2 (16 units).

OWNER: LACANA MINING CORPORATION, 312, 409 Granville Street, Vancouver V6C 1T2.

METAL: Uranium.

DESCRIPTION: Coryell granitic rocks, in places containing some pegmatite dykes, are the main rock type. Volcanic rocks of the Rossland Formation occur on the eastern and northern boundaries of the property.

WORK DONE: Prospecting and geochemical survey, 368 soil samples and 20 water samples, covering Gail and Linda.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 44; Assessment Report 6715.

ARROW (Fig. E-1, NTS 82, No. 108)

LOCATION: Lat. 49° 26' Long. 117° 59' (82F/5W)
NELSON M.D. Twenty-six kilometres west-northwest of Castlegar, 4 kilometres north of Lower Arrow Lake and 0.5 kilometre west of Little Cayuse Creek.

CLAIM: ARROW (1 unit).

OWNER: GEORGE ARGATOFF, 920 – 10th Avenue South, Castlegar V1N 3A2.

WORK DONE: Surface diamond drilling, 1 EX hole totalling 21.3 metres, on Arrow.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 45;

ROMA (Fig. E-1, NTS 82, No. 110)

LOCATION: Lat. 49° 16' Long. 117° 41' (82F/5E)
TRAIL CREEK M.D. Immediately west of Kinnaird, on Schofield Creek and Highway 3.

CLAIMS: ROMA 2, CC 1 to 3 (originally 64 units, reduced to 24 units).

OWNER: ROY CARLSON, 1765 Kilkenny Road, North Vancouver V7J 1T8.

METAL: Uranium.

DESCRIPTION: The known higher grade uranium showings occur in the coarse pegmatoid layers in the gneiss and in an area where the host rocks have background radioactivity approximately three times the regional background levels.

WORK DONE: 1977 – prospecting, covering all claims.

REFERENCES: Mineral Inventory 82F/SW-281; Assessment Report 6623.

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

LOCATION: Lat. 49° 18' Long. 117° 34' (82F/5E)
NELSON M.D. Seven kilometres east-southeast of Castlegar, on Aaron Hill.

CLAIM: LAST CHANCE (9 units).

OWNERS: Nina Terekoff and Rose Paszty.

OPERATORS: A. TEREKOFF, Site 17, Comp 8, SS 2, Castlegar V1N 3L4 and STEVE PASZTY, 1021 – 10th Avenue South, Castlegar.

METAL: Copper.

WORK DONE: Blasting and magnetometer survey, 1.3 kilometres, on Last Chance.

JACKASS (Fig. E-1, NTS 82, No. 109)

- LOCATION:** Lat. 49° 29' Long. 117° 33' (82F/5E)
NELSON M.D. Sixteen kilometres northeast of Castlegar, between the Slocan River and Smoky Creek.
- CLAIMS:** JACKASS 1 to 9 (approximately 75 units).
- OWNERS:** S. PASZTY, 1022 -- 10th Avenue South, Castlegar and A. TEREKOFF, Site 17, Comp 8, SS 2, Castlegar V1N 3L4.
- METAL:** Uranium.
- DESCRIPTION:** Uranium is found in biotite quartz feldspar pegmatitic dykes. Amorphous uranium silicates are also present. The wallrocks are hornblende amphibolites and gneisses and are relatively unmineralized with radioactive minerals.
- WORK DONE:** 1977 and 1978 -- grid preparation and scintillometer survey, 27 kilometres, covering Jackass 1-3.
- REFERENCES:** Mineral Inventory 82F/SW-275; Assessment Reports 6748, 7132.

**FREE SILVER, MAY BLOSSOM, STEWART (ARROW TUNGSTEN)
(Fig. E-1, NTS 82, No. 113)**

- LOCATION:** Lat. 49° 16' Long. 117° 15' (82F/6)
NELSON M.D. Centre of claims approximately 8 kilometres north of Salmo, extending west and southwest from Ymir.
- CLAIMS:** FREE SILVER (Lot 2902), RUBY (Lot 2904), ROYAL (Lot 5322), plus STEWART 1 to 4 (66 units).
- OWNERS:** Eric Denny and Jack Denny.
- OPERATOR:** ERIC DENNY, RR 1, Nelson V1L 5P4.
- METALS:** Tungsten, lead, zinc, molybdenum.
- DESCRIPTION:** Various showings and anomalies are found in a wide variety of rock types. The strong and large zones of contact metamorphism surrounding some of the intrusions were considered to be indicative of high potential for exploration.
- WORK DONE:** Linecutting, 11.3 kilometres, and geochemical survey, 251 soil and 7 silt samples analysed for molybdenum, copper, silver, zinc, lead, and tungsten, covering Stewart 1-3, Free Silver, Royal, and Ruby.
- REFERENCES:** Mineral Inventory 82F/SW-70, 229, 251, 277; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 45, E 46; Assessment Report 7074.

ATLANTA, CONSOLIDATED ALABAMA (Fig. E-1, NTS 82, No. 114)

- LOCATION:** Lat. 49° 20' Long. 117° 15' (82F/6W)
NELSON M.D. Three kilometres northwest of Ymir, on the south side of Stewart Creek.
- CLAIMS:** ATLANTA (Lot 2280), CONSOLIDATED ALABAMA (Lot 2279).
- OWNER:** UNION CARBIDE CANADA LIMITED, c/o 404, 1112 West Pender Street, Vancouver B6E 2S1.

1978

(82F/6W)

DESCRIPTION: In *Exploration in British Columbia, 1977*, pages 45 and 46, it was erroneously implied that these two claims covered the Stewart (Arrow Tungsten) showing which is approximately 1 500 metres to the northwest of the claims.

WORK DONE: 1977 – linecutting, 3.2 kilometres, and geochemical survey, 102 soil samples, covering both claims.

REFERENCE: Assessment Report 6654.

COTTONWOOD (Fig. E-1, NTS 82, No. 118)

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.

CLAIMS: KENA 1 to 32.

OWNER: Otakar Janout.

OPERATOR: SHELL CANADA RESOURCES LTD., Box 100, 400 Fourth Avenue SW., Calgary, Alberta T2P 2H5.

METAL: Copper.

DESCRIPTION: The claims are underlain by metamorphosed volcanic rocks of Early Jurassic age (Rosland Group). Finely disseminated pyrite and chalcopyrite are widespread.

WORK DONE: Ground electromagnetic survey, 2.1 kilometres, covering Kena 16-21.

REFERENCES: Mineral Inventory 82F/SW-237; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 35; Assessment Reports 5222, 5665, 6520, 6946.

PORCUPINE (Fig. E-1, NTS 82, No. 112)

LOCATION: Lat. 49° 15.5' Long. 117° 11' (82F/6E)
NELSON M.D. Four kilometres southeast of Ymir, south of Porcupine Creek.

CLAIMS: PORCUPINE (Lot 4634), FRANKLIN (Lot 4635), CHAMPAGNE (Lot 5131).

OWNER: I. URQUHART, c/o Cochrane Consultants Ltd., 4882 Delta Street, Delta.

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

DESCRIPTION: The Porcupine was the first claim staked in the Ymir Gold Camp. The claims lie in Pend d'Oreille schists close to the contact with small bodies of Nelson plutonic rocks. Mineralization consists of pyrite, galena, and sphalerite with associated gold and silver values lying within silicified zones.

WORK DONE: Surface geological mapping and sampling program (8 samples assayed), covering Champagne.

REFERENCES: Mineral Inventory 82F/SW-63; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 36; Assessment Reports 6140, 6993.

YANKEE GIRL (Fig. E-1, NTS 82, No. 111)

LOCATION: Lat. 49° 17.5' Long. 117° 11' (82F/6E)
 NELSON M.D. Three kilometres east-northeast of Ymir, between Oscar and Ymir Creeks.

CLAIMS: YANKEE GIRL (Lot 7712), LAKEVIEW (Lot 3245).

OPERATOR: BURLINGTON GOLD MINES LTD., 1012, 470 Granville Street, Vancouver V6C 1V5.

METALS: Gold, silver, lead, zinc.

DESCRIPTION: Granites and related rocks intrude the older sedimentary rocks of the Summit series and the Pend d'Oreille series which overlie the older sedimentary rocks. The Lakeview fault is a dominant structure and appears to be a controlling factor in localizing mineralization. Mineralization consists of pyrite, pyrrhotite, sphalerite, and galena.

WORK DONE: Surface geological mapping, 1:4000, covering both claims; electromagnetic survey, 4 kilometres, covering Lakeview.

REFERENCES: Mineral Inventory 82F/SW-68; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 34; *Geol. Surv., Canada*, Mem. 94, pp. 112-114.

OSPREY (Fig. E-1, NTS 82, No. 115)

LOCATION: Lat. 49° 17' Long. 116° 36' (82F/7E)
 NELSON M.D. Eleven kilometres north-northwest of Wynndel, immediately north of the headwaters of Jack Creek.

CLAIMS: OSPREY 1 and 2.

OWNER: R. P. CHERBO, Box 244, Nelson V1L 5P9.

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

WORK DONE: Clearing helicopter pad, 25 metres by 25 metres, on Osprey 1.

RICE, HOMESTAKE (Fig. E-1, NTS 82, No. 65)

LOCATION: Lat. 49° 27' Long. 116° 06' (82F/8E)
 FORT STEELE M.D. Along West Perry Creek, between Shorty and Glasgow Creeks.

49° 33' 116° 02' (82F/9E)
 FORT STEELE M.D. Along West Perry Creek, between Sawmill and Lisbon Creeks.

CLAIMS: PETER ROCK, TANIS, AZLIN, GOLD, BIRDIE LOAD, JANET, JANET 1, GOLDEN WOLFE, JOHN, MARK, LUKE (58 units) and ECLIPSE (Lot 343), ANNA (Lot 344), STANDARD (Lot 345), AGNES (Lot 346), PIONEER (Lot 347), OYSTER (Lot 348), EVENING STAR (Lot 349), QUARTZ CREEK (Lot 98), LONE EAGLE (Lot 97).

OWNERS: R. W. Hughes and Meridian Resources Ltd.

OPERATORS: MERIDIAN RESOURCES LTD., 706, 675 West Hastings Street, Vancouver, PHILLIP FORREST, Box 265, Marysville, and JOHN WOLFE, 101, 2117 Second Street North, Cranbrook.

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

DESCRIPTION: The area is underlain mainly by quartzites of the Creston Formation which are cut by Moyie intrusions, major faults, and numerous large quartz veins. The quartz veins and adjacent fault gouge and wallrock are, in places, mineralized with gold associated with pyrite, chalcopyrite, galena, and sphalerite. Tungsten has also been found in several localities.

WORK DONE: Geological mapping and geochemical survey, 337 soil and silt samples analysed for gold, covering all claims.

REFERENCES: Mineral Inventory 82F/NE-55 to 57, 117; 82F/SE-12; *Minister of Mines, B.C.*, Ann. Rept., 1930, p. 242; 1938, p. E15; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 66; Assessment Report 7103.

PITT (Fig. E-1, NTS 82, No. 119)

LOCATION: Lat. 49° 35' Long. 116° 02' (82F/9E)
FORT STEELE M.D. Approximately 10 kilometres south of Kimberley, stretching southwesterly along Pitt Creek to the headwaters of Pudding Burn Creek.

CLAIMS: PITT 1 to 8, 10 to 12 (92 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: (Lead, zinc).

DESCRIPTION: The Pitt claims are underlain by a wide variety of Precambrian clastic rocks belonging to the Aldridge Formation, Moyie intrusions, Creston Formation, and Kitchener Formation. Minor galena, sphalerite, and pyrite are known in quartz veins associated with the Moyie intrusions. The structural geology of the property is exceedingly complex and this probably is a result of its proximity to the St. Mary fault.

WORK DONE: Road construction and repair, on Pitt 5, 6, 7, 12; surface geological mapping, 1:24 000, covering all claims.

REFERENCES: Mineral Inventory 82F/NE-54, 101. *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 47; Assessment Reports 99, 471, 3250, 5634.

SULLIVAN MINE (Fig. E-1, NTS 82, No. 153)

LOCATION: Lat. 49° 42' Long. 116° 00' (82F/9E; 82G/12W)
FORT STEELE M.D. The mine is located within the city limits of Kimberley.

CLAIMS: Approximately 1 500 Crown-granted and located claims.

OWNER: COMINCO LTD., Box 2000, Kimberley V1A 2G3.

METALS: Lead, zinc, iron, silver, tin.

DESCRIPTION:

A stratabound iron-lead-zinc sulphide lens occurs toward the top of the lower division of the Middle Proterozoic Aldridge Formation. Tonnage mined plus reserves is in the order of 136 million tonnes of 15 per cent combined lead-zinc plus about 77 grams per tonne silver and minor but economically recoverable tin.

The Aldridge is a very fine-grained to fine-grained clastic sequence of quartzites, siliceous siltstones, and argillites. Significant portions were deposited by turbidity currents, below wave base.

WORK DONE: 1977 – diamond drilling, 1 HQ hole totalling 459 metres on Canton Fr. (Lot 5630), 1 HQ hole totalling 1 372 metres on Starr Fr. and Oxford Fr. (Lots 13798, 13799), 1 H hole totalling 183.5 metres on Upshot (Lot 13918), 1 H hole totalling 411.2 metres on Chance 5 (Lot 13393), and 1 HQ hole totalling 590.2 metres on Med 7; 1978 – road construction, approximately 1 kilometre; linecutting, approximately 35 kilometres; control survey, approximately 10 points; topographic survey (some photography); geological mapping, 1:4800; geochemical survey, approximately 1 500 soil samples; and electromagnetic survey, approximately 30 kilometres, covering various claims; trenching, 100 by 3 by 2 metres in overburden; surface diamond drilling, 4 HQ/NQ holes totalling 1 850 metres, on various claims; underground diamond drilling, 1 HQ/NQ hole extended 1 000 metres, on XL and Stoney.

REFERENCES: Mineral Inventory 82G/NE-52, 53; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, pp. 72-74; Assessment Reports 6656, 6660, 6661, 6785, 6786, 6970, 7020.

SHADO (Fig. E-1, NTS 82, No. 124)

LOCATION: Lat. 49° 40' Long. 116° 26' (82F/9W)
FORT STEELE M.D. Thirty-one kilometres west of Kimberley, and 2 kilometres southwest of Mount Bonner, on Redding Creek.

CLAIMS: SHADO 1 to 5 (8 units).

OWNERS: T. W. Bradford, R. E. Ruault, and M. Kirsh.

OPERATOR: T. W. BRADFORD, 400 Briar Avenue, Cranbrook V1C 4B5.

WORK DONE: Two trenches, 1 100 cubic metres, on Shado 1-3.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 48.

DAVE (Fig. E-1, NTS 82, No. 116)

LOCATION: Lat. 49° 31' Long. 116° 40' (82F/10E)
NELSON M.D. Twenty-three kilometres southeast of Kootenay Bay, Between La France and Lockhart Creeks.

CLAIMS: DAVE 1 (4 units), DAVE 2 (6 units), DAVE 3 (4 units), DAVE 4 (6 units), DAVE 5 (6 units), SANDY 1.

1978

(82F/10E)

OWNER: DAVID WIKLUND, Box 81, Boxwell VOB 1A0.

METALS: Silver, lead, zinc, barite, fluorite.

DESCRIPTION:

The claims are located along the erosional edge of the Dutch Creek (Late Precambrian) Formation, where it is in contact with the younger Toby conglomerate. The local sedimentary sequence from the oldest to the youngest beds are argillite, quartzite, limestone, with beds of brecciated limestone, quartzite, argillite, erosional contact, and Toby conglomerate.

High geochemical readings in lead and zinc were obtained in the brecciated limestone and quartzite. Replacement-type mineralization is found in the quartzite, near the contact with the argillite.

Also a number of veins, some of which are mineralized, have been located. These consist of quartz, carbonates, barite, and fluorite.

WORK DONE: Geochemical survey, 29 soil samples analysed for lead and zinc, covering Sandy 1.

REFERENCES: Mineral Inventory 82F/NE-138; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 48, E 49; Assessment Reports 5632, 6231, 6901.

CHICAGO, SNOW KING (Fig. E-1, NTS 82, No. 117)

LOCATION: Lat. 49° 34' Long. 116° 39' (82F/10E)

NELSON and FORT STEELE M.D. Seventeen kilometres southeast of Crawford Bay, on the north side of La France Creek, south of the headwaters of Baker Creek.

CLAIMS: WALL 1 to 9 plus CELEBRATION (Lot 7229), MONTANA (Lot 7230), MONTANA FR. (Lot 7231), ECHO (Lot 7232), EXPERIMENT (Lot 7238), ASSURANCE (Lot 7237).

OWNERS: Eric Denny and Peggy Denny.

OPERATOR: DeKALB MINING CORPORATION, 630 Sixth Avenue SW., Calgary, Alberta T2P 0S8.

METALS: Lead, zinc, silver.

DESCRIPTION: Limestones and weathered dolomites of the Mount Nelson Formation were explored for the presence of stratabound lead-zinc sulphides. Small veins of silver-bearing, lead-zinc sulphides have been examined and explored since the late 1800's but efforts have not been made to locate by drilling the possibility of stratabound deposits. Caverns and open fractures were encountered during the 1978 drilling season.

WORK DONE: Diamond drilling, 318.8 metres, on Celebration.

REFERENCES: Mineral Inventory 82F/NE-108, 109; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 70; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 39; Assessment Reports 4387, 6109.

UNITED COPPER (Fig. E-1, NTS 82, No. 125)

LOCATION: Lat. 49° 43' Long. 116° 37' (82F/10E)
 SLOCAN and FORT STEELE M.D. Seventeen kilometres east-northeast of Crawford Bay post office, in Cogle Pass, 2 kilometres north of the headwaters of Canyon Creek.

CLAIM: UNITED COPPER (since forfeited).

OPERATOR: F. W. CARTWRIGHT, Box 754, Nelson V1L 5R7.

METALS: Copper, silver, lead, zinc.

DESCRIPTION: Chalcopyrite, sphalerite, galena, pyrite, and pyrrhotite occur in quartz veins and lenses in shear zones and in foliations of chlorite schist.

WORK DONE: Trenching, 30 metres, and test pitting, 50 metres, on United Copper.

REFERENCES: Mineral Inventory 82F/NE-99; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 49.

JENNI (Fig. E-1, NTS 82, No. 126)

LOCATION: Lat. 49° 43' Long. 116° 37' (82F/10E)
 SLOCAN M.D. Seventeen kilometres east-northeast of Crawford Bay post office near Cogle Pass, at the head of Sawyer Creek.

CLAIM: JENNI (since forfeited).

OPERATOR: A. MORES, 609 Wasson Street, Nelson V1L 3G5.

METALS: Copper, silver, lead, zinc.

DESCRIPTION: Quartz veins carrying chalcopyrite, sphalerite, galena, pyrite, and pyrrhotite occur along shear zones and in foliations of chlorite schist.

WORK DONE: Stripping, 10 metres, and trenching, 35 metres, on Jenni.

REFERENCES: Mineral Inventory 82F/NE-99; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 49, E 50.

YOSIE (Fig. E-1, NTS 82, No. 122)

LOCATION: Lat. 49° 44' Long. 117° 18' (82F/11W)
 SLOCAN M.D. On the east side of Crusader Creek, immediately north of Mineral Creek.

CLAIMS: YOSIE 1 to 5.

OWNER: C. C. YOUNG, 324 Delbruck Street, Nelson V1L 5L3.

METALS: Lead, silver.

DESCRIPTION: Galena in small shears in Nelson granodiorite may be related to nearby pegmatite.

WORK DONE: Electromagnetic prospecting, covering Yosie 1, 2.

REFERENCE: Mineral Inventory 82F/NW-221.

GOLD REEF (Fig. E-1, NTS 82, No. 127)

LOCATION: Lat. 49° 44' Long. 117° 19' (82F/11W)
 SLOCAN M.D. Thirteen kilometres east of Slocan, 1 kilometre west of the junction of Mineral and Crusader Creeks.

CLAIMS: GOLD REEF, GOLD REEF 2.
 OWNER: H. AVIS, Winlaw.
 METALS: Zinc, lead, silver.
 WORK DONE: Trenching, 8 square metres, on Gold Reef 2.
 REFERENCES: Mineral Inventory 82F/NW-217; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 41.

ALTOONA (Fig. E-1, NTS 82, No. 271)

LOCATION: Lat. 49° 59' Long. 117° 14' (82F/14E)
 SLOCAN M.D. Nine kilometres east of New Denver, on the west slope of Mount Payne, 300 metres upstream on a westerly flowing tributary of Carpenter Creek.
 CLAIMS: ALTOONA (Lot 1918), BOWKNOT (Lot 1919).
 OWNER: HALLMAC MINES LTD., 403, 239 Eighth Avenue SW., Calgary, Alberta.
 METALS: Lead, zinc, silver.
 WORK DONE: Soil sampling, 4.4 kilometres (approximately 90 samples).
 REFERENCES: Mineral Inventory 82F/NW-15; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 76; *Geol. Surv., Canada*, Mem. 184, pp. 4, 5.

TAMARACK (Fig. E-1, NTS 82, No. 263)

LOCATION: Lat. 49° 47' Long. 117° 24' (82F/14W)
 SLOCAN M.D. Four kilometres east-northeast of Slocan, on Algiers Creek, 750 metres north of Springer Creek.
 CLAIMS: TAMARACK (Lot 6054).
 OWNER: George Sipos.
 OPERATOR: KACHIN EXPLORATIONS LTD., RR 4, Salmon Arm V0E 2T0.
 METALS: Silver, lead.
 DESCRIPTION: The claim is underlain by argillites and limy argillites and quartz diorite.
 WORK DONE: Prospecting covering Tamarack.
 REFERENCES: Mineral Inventory 82F/NW-156; *Minister of Mines, B.C.*, Ann. Rept., 1921, p. 139; Assessment Report 7151.

GOLD VIKING (Fig. E-1, NTS 82, No. 262)

LOCATION: Lat. 49° 47' Long. 117° 27' (82F/14W)
 SLOCAN M.D. Two kilometres northeast of the community of Slocan, on the north side of Springer Creek.
 CLAIMS: GOLD VIKING (Lot 4850), VIKING FR. (Lot 4852), NEW PHOENIX FR. (Lot 4851).
 OWNER: George Sipos.
 OPERATOR: KACHIN EXPLORATIONS LTD., RR 4, Salmon Arm V0E 2T0.
 METAL: Gold.
 DESCRIPTION: The general geology of the claims is one of an admixture of sedimentary rocks of the Slocan series in proximity to the Nelson batholith.

1978

(82F/14W)

WORK DONE: Prospecting, covering all claims.

REFERENCES: Mineral Inventory 82F/NW-193; *Geol. Surv., Canada*, Mem. 308, p. 155; Assessment Report 7078.

WESTMONT (Fig. E-1, NTS 82, No. 129)

LOCATION: Lat. 49° 50' Long. 117° 19' (82F/14W)

SLOCAN M.D. Twelve kilometres northeast of Slocan, on the south side of Westmont Creek, about 1 kilometre from Enterprise Creek.

CLAIMS: EASTMONT, WHITE CLOUD, ODDFELLOW, EASTMONT FR., CLIPPER, WESTMONT, LILLY G, WHITE CLOUD FR., YANKEE FR. (Lots 8924 to 8931, 8935).

OWNER: James A. Cullinane.

OPERATOR: HOKO EXPLORATION LTD., Box 11107, Royal Centre, 1055 West Georgia Street, Vancouver V6E 3P3.

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

DESCRIPTION: The underlying rock is chiefly coarse-grained, porphyritic, Nelson granite. The lode is composed of broken and crushed rock partly cemented with and replaced by vein quartz which also forms veins and lenses.

WORK DONE: Cleaned access road, prospected area east of old workings, and removed cave from 5 level portal.

REFERENCES: Mineral Inventory 82F/NW-145; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1971, p. 410.

MINNESOTA (Fig. E-1, NTS 82, No. 143)

LOCATION: Lat. 49° 58' Long. 117° 16' (82F/14W)

SLOCAN M.D. Six kilometres east-northeast of Silverton, at the head of Howson Creek.

CLAIMS: MINNESOTA FR. (Lot 14623), OPATUNKA (Lot 3523), MOLLIE O (Lot 1913).

OWNER: George Sipos.

OPERATOR: KACHIN EXPLORATIONS LTD., RR 4, Salmon Arm V0E 2T0.

METAL: Lead.

DESCRIPTION: Slates and thinly banded argillites of the Slocan series predominate in the area.

WORK DONE: Prospecting, covering all claims.

REFERENCES: Mineral Inventory 82F/NW-47; *Minister of Mines, B.C.*, Ann. Rept., 1926, p. 251; Assessment Report 7076.

CUBA (OREGON) (Fig. E-1, NTS 82, No. 261)

LOCATION: Lat. 49° 59' Long. 117° 16' (82F/14W)

SLOCAN M.D. Approximately 7.5 kilometres northeast of Silverton, at the head of Miller Creek.

CLAIMS: CUBA (Lot 4168), IXL FR. (Lot 5366), KATHY FR. (Lot 14617).
 OWNER: George Sipos.
 OPERATOR: KACHIN EXPLORATIONS LTD., RR 4, Salmon Arm V0E 2T0.
 METAL: Lead.
 DESCRIPTION: The area investigated showed a predominance of slates and thinly banded argillites.
 WORK DONE: Prospecting, covering all claims.
 REFERENCES: *Mineral Inventory 82F/NW-44; Minister of Mines, B.C., Ann. Rept., 1946, p. 163; B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, p. E 52 (Wonderful); Assessment Report 7080.*

CORINTH (Fig. E-1, NTS 82, No. 266)

LOCATION: Lat. 49° 59' Long. 117° 16.5' (82F/14W)
 SLOCAN M.D. Approximately 6.5 kilometres northeast of Silverton, on the east branch of Howson Creek.
 CLAIM: CORINTH (Lot 1264).
 OWNER: S. J. Chin.
 OPERATOR: KACHIN EXPLORATIONS LTD., RR 4, Salmon Arm V0E 2T0.
 METALS: Silver, lead, zinc.
 DESCRIPTION: The claim is underlain predominantly by argillites and slates. Argillites in some areas, especially where faulting has occurred, are thinly banded and crenulated.
 WORK DONE: Prospecting, covering Corinth.
 REFERENCES: *Mineral Inventory 82F/NW-45; Minister of Mines, B.C., Ann. Rept., 1946, p. 145; Assessment Report 7082.*

COMET (Fig. E-1, NTS 82, No. 265)

LOCATION: Lat. 49° 59' Long. 117° 17' (82F/14W)
 SLOCAN M.D. Approximately 6.5 kilometres northeast of Silverton, on the east fork of Howson Creek.
 CLAIM: COMET (Lot 1462).
 OWNER: George Sipos.
 OPERATOR: KACHIN EXPLORATIONS LTD., RR 4, Salmon Arm V0E 2T0.
 DESCRIPTION: The claim is underlain by slates, thinly banded argillites, limestone, and tuff of the Slocan series.
 WORK DONE: Prospecting, covering Comet.
 REFERENCE: Assessment Report 7081.

DAYBREAK (Fig. E-1, NTS 82, No. 142)

LOCATION: Lat. 49° 59' Long. 117° 17' (82F/14W)
 SLOCAN M.D. Two kilometres northeast of Silverton, east of Howson Creek.
 CLAIM: DAYBREAK (Lot 1464).

OWNER: George Sipos.
 OPERATOR: KACHIN EXPLORATIONS LTD., RR 4, Salmon Arm V0E 2T0.
 DESCRIPTION: Rock types noted were typical of the Slocan series — an admixture of argillite, limy argillite, and tuffs.
 WORK DONE: Prospecting, covering Daybreak.
 REFERENCE: Assessment Report 7077.

CONDUCTOR (Fig. E-1, NTS 82, No. 223)

LOCATION: Lat. 49° 59' Long. 117° 18' (82F/14W)
 SLOCAN M.D. Six kilometres northeast of Silverton, between the east and west branches of Howson Creek.
 CLAIMS: CONDUCTOR (Lot 1251), DEFENDER (Lot 1463).
 OWNER: S. J. Chin.
 OPERATOR: KACHIN EXPLORATIONS LTD., RR 4, Salmon Arm V0E 2T0.
 METALS: Lead, silver, zinc.
 DESCRIPTION: The geology of the claims is one of an admixture of the Slocan series of sedimentary rocks, a predominance of slates, thinly banded argillites, limy metamorphosed argillites, and limestones in combination with minor argillites. Some crosscutting faulting was observed with bedded faulting in some areas.
 WORK DONE: Prospecting, covering both claims.
 REFERENCES: Mineral Inventory 82F/NW-9; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 329; Assessment Report 7083.

TERRA ROSE (Fig. E-1, NTS 82, No. 131)

LOCATION: Lat. 49° 46' Long. 116° 57' (82F/15W)
 SLOCAN M.D. Four kilometres northwest of Ainsworth Hot Springs, on the north side of Cedar Creek.
 CLAIMS: TERRA ROSE, JACQUELINE J, DARCY K.
 OWNER: FREDERICK G. J. WILLIAMS, RR 2, Nelson, V1L 5P5.
 WORK DONE: Road repair; prospecting and linecutting, 1 kilometre, covering all claims.

WOODBURY CREEK (VIGILANT) (Fig. E-1, NTS 82, No. 272)

LOCATION: Lat. 49° 47' Long. 116° 54' (82F/15W)
 SLOCAN M.D. Five kilometres north of Ainsworth, on Woodbury Creek, immediately north of Lendrum Creek.
 CLAIMS: VERNA (6 units), DD Fraction (1 unit), DOROTHY 1 (1 unit), DOROTHY 2 (1 unit), DOROTHY 3 (1 unit).
 OWNER: CASCADIA RESOURCES LTD., 124, 744 West Hastings Street, Vancouver.
 METALS: Gold, silver, lead, zinc, copper.

1978

(82F/15W)

WORK DONE: Grid establishment, 12.2 kilometres; trenching and sampling (samples analysed for lead, zinc, silver, mercury, gold, and cadmium).

REFERENCES: Mineral Inventory 82F/NE-5; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 53; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 53, pp. 115-118; Assessment Report 6582.

STEP (Fig. E-1, NTS 82, No. 130)

LOCATION: Lat. 49° 57' Long. 116° 50' (82F/15W)
SLOCAN M.D. Six kilometres northeast of Kaslo, on the south side of Campbell Creek.

CLAIM: STEP 1 (10 units).

OWNER: W. A. STEPHENS, Balfour ZOG 1C0.

METALS: Lead, zinc (radioactivity reported).

WORK DONE: Trail cutting, prospecting, and trenching, on Step 1.

REFERENCE: Mineral Inventory 82F/NE-50.

NINE LAKE (Fig. E-1, NTS 82, No. 132)

LOCATION: Lat. 49° 59' Long. 116° 12' (82F/16E)
FORT STEELE M.D. Thirty-six kilometres north-northeast of Kimberley, at the head of Greenland Creek.

CLAIMS: MOB 1 to 4 (20 units each).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L6.

METAL: Tungsten.

DESCRIPTION: Scheelite and wolframite occur in vein stockwork zones in Moyie metadiorite sills which cut Aldridge quartzite.

WORK DONE: Surface geological mapping, 1:10 000, covering Mob 2-4; geochemical survey, 438 soil samples analysed for tungsten, copper, molybdenum, lead, zinc, and silver, covering all claims.

REFERENCES: Mineral Inventory 82F/NE-112, 132; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 39; Assessment Report 3927.

FERNIE 82G

COMMERCE (Fig. E-1, NTS 82, No. 133)

LOCATION: Lat. 49° 11' Long. 114° 22' (82G/1W)
FORT STEELE M.D. Approximately 6 kilometres east of Flathead River, extending southeast from the eastern headwaters of Commerce Creek.

CLAIMS: COMMERCE 1 to 16, 19 to 39, 41 to 48, 69 to 71, 75 to 78, 83, 84.

OWNER: KINTLA EXPLORATIONS LIMITED, Box 763, Cardston, Alberta T0K 0K0.

METALS: Gold, silver, copper, molybdenum, uranium, lead.

DESCRIPTION: Sedimentary beds in the Grinnell Formation carry gold, silver, copper, molybdenum, and uranium. Low-grade gold is found in syenite intrusions, the syenites being related to a large syenite plug. Uranium is associated with high-grade copper mineralization in the Grinnell Formation, as well as with the green and red argillites in the Appekunny and Grinnell Formations. Sedimentary copper is found in two dolomite beds in the Phillips Formation. The Phillips red beds also carry low-grade uranium. Some silver is found in the country rock where it is intruded by syenite sills and dykes.

WORK DONE: Radiometric survey, 200 kilometres, covering most claims.

REFERENCES: Mineral Inventory 82G/SE-6, 39 to 43; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 55; Assessment Reports 4535, 5070, 5560, 5938, 6398.

SOCIETY GIRL (Fig. E-1, NTS 82, No. 134)

LOCATION: Lat. 49° 16' Long. 115° 48' (82G/5W)
FORT STEELE M.D. Twenty-three kilometres south of Cranbrook, 2 kilometres east of the Moyie River, on the northern headwaters of Farrell Creek.

CLAIM: SOCIETY GIRL (Lot 4405).

OWNER: John W. Hornstein.

OPERATORS: JOHN GORHAM, RR 1, Olds, Alberta T0M 1P0 and ROD TYSON, 8507 - 111th Street, Edmonton, Alberta.

METALS: Lead, silver, (zinc, copper).

DESCRIPTION: A single vein of silver-bearing galena, from 2 to 50 centimetres wide, trends approximately north 60 degrees west, dipping approximately 60 degrees south, apparently follows the brecciated trace of an older fault. Small branches of the main vein fill cross-fractures for a few feet on either side. The upper 10 to 15 metres of the vein has been oxidized to cerussite and pyromorphite, which are imbedded in limonite and clay. Very little sphalerite was observed. Traces of malachite and azurite were seen. The deposit is in siliceous argillites of the Proterozoic Aldridge Formation. Average dip is 10 to 20 degrees east with some small-scale folding near the vein.

WORK DONE: Two trenches, totalling 20 square metres, on Society Girl.

REFERENCES: Mineral Inventory 82G/SW-30; *Minister of Mines, B.C.*, Ann. Rept., 1952, pp, 42, 195.

VINE (Fig. E-1, NTS 82, No. 135)

LOCATION: Lat. 49° 19'-29' Long. 115° 45'-58' (82G/5W)
FORT STEELE M.D. From 3 kilometres south of Cranbrook southward to Rabbit Foot Creek, a tributary of Lamb Creek.

CLAIMS: VINE 1 to 35 (527 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.
 METALS: Silver, lead, zinc.
 DESCRIPTION: Diamond drilling and geological mapping was undertaken in 1978 to evaluate the potential of the Vine property and to determine the geological setting of lead-zinc mineralization in Precambrian clastic rocks of the Aldridge Formation.
 WORK DONE: Diamond drilling, 626 metres on Vine 28 and 880 metres on Vine 1; geological mapping, covering Vine 1-3 and 5-35.
 REFERENCES: Mineral Inventory 82G/SW-8 (Lumberton), 35 (Helg); *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 56; *B.C. Ministry of Energy, Mines & Pet. Res.*, Geological Fieldwork, 1977, p. 14; Assessment Reports 1174, 6498, 6543, 6863, 6936, 7087.

STEEPLES (Fig. E-1, NTS 82, No. 137)

LOCATION: Lat. 49° 15'-35' Long. 115° 04'-116° 00' (82G/6, 11W)
 FORT STEELE M.D. The centre of this property is about 15 kilometres west-southwest of Fernie. The claims extend from Hungary Peak in the north, south to Sheep Mountain, and from Peckhams Lake on the west side to the headwaters of McDermid Creek on the east side.
 CLAIMS: STEEPLES 1 to 30, CEDAR 1 to 20, DOGWOOD 1 to 20, BALSAM 1 to 20, ELDERBERRY 1 to 18, ELDERBERRY SOUTH 1 to 4 and 6, FIR 12, ASPEN 1 to 13, EMPIRE (Lot 3540), STRATHCONA (Lot 11812), BONANZA 20 to 23, 30 to 40, LIZ 6, 7, 10, and 12 Fractions, JUNE 2 to 4, and 6, Mineral Lease M-69.
 OWNER: R. H. STANFIELD, 260 Three Calgary Place, 355 Fourth Avenue SW., Calgary, Alberta T2P 0J1.
 METALS: Copper, lead, silver, gold, zinc.
 DESCRIPTION: Vein and replacement zones of mineralization, chiefly galena, chalcopryrite, pyrite, sphalerite, hematite, quartz, calcite, and siderite, occur in Aldridge and Creston quartzite, argillaceous quartzite, and argillite. Major and minor faulting and very minor intrusions are present.
 WORK DONE: Road construction, 6.5 kilometres, on Cedar 5-8; VLF-EM survey, 57.5 kilometres, covering Steeples 21 and Cedar 5-8; airborne infrared photographic survey, approximately 1 000 kilometres, covering all claims (chiefly Steeples 1-30); diamond drilling, 1 NQWL hole totalling 330 metres on Cedar 11 and 1 NQW hole totalling 325 metres on Cedar 7; exploration adit, 167 metres, on Cedar 6.
 REFERENCES: Mineral Inventory 82G/NW-2, 6, 28, 44, 72; 82G/SW-13 to 18, 26, 40, 47, 48; Assessment Reports 3439, 5900, 5501, 5904, 5905, 5906, 7086.

CENTRE (Fig. E-1, NTS 82, No. 136)

LOCATION: Lat. 49° 25' Long. 114° 37' (82G/7E)
 FORT STEELE M.D. Six kilometres north-northeast of the settlement of Flathead, on Centre Mountain.

1978

(82G/7E)

CLAIM: CENTRE (16 units).
OWNER: KAISER RESOURCES LTD., Box 2000, Sparwood V0B 2G0.
DESCRIPTION: The property is underlain by Palliser, Exshaw, and Banff Formations. There is extensive moraine cover and scree slopes, and outcrop is confined to cliff faces.
WORK DONE: Geochemical survey, 51 soil, 35 silt, and 4 rock chip samples analysed for copper, lead, and zinc, covering Centre.
REFERENCE: Assessment Report 7068.

VAN (Fig. E-1, NTS 82, No. 138)

LOCATION: Lat. 49° 26' Long. 114° 37' (82G/7E)
FORT STEELE M.D. Eight kilometres north of the community of Flathead, 2 kilometres east of Squaw Creek.
CLAIM: VAN (2 units).
OWNER: KAISER RESOURCES LTD., Box 2000, Sparwood V0B 2G0.
DESCRIPTION: This property covers the Livingstone and Mount Head Formations of the Rundle Group. No mineralization has been noted.
WORK DONE: Geochemical survey, 71 soil and 32 stream sediment samples analysed for copper, lead, and zinc, covering Van.
REFERENCE: Assessment Report 6828.

CEDAR (Fig. E-1, NTS 82, No. 139)

LOCATION: Lat. 49° 44' Long. 115° 29' (82G/11W)
FORT STEELE M.D. Sixteen kilometres north-northeast of Fort Steele, on East Wild Horse River.
CLAIMS: CEDAR 1, 3, 7, 10, 12, DAISY 1 to 9.
OWNERS: E. J. Frost, K. A. Frost, and DeKalb Mining Corporation.
OPERATORS: E. J. FROST, Box 542, Cranbrook V1C 4J1 and DeKALB MINING CORPORATION, 630 Sixth Avenue SW., Calgary, Alberta T2P 0S8.
METAL: Tungsten.
DESCRIPTION: Scheelite mineralization occurs in altered Kitchener dolomitic limestones within a large hydrothermal alteration zone that is probably underlain by a monzonite intrusion similar to the one that occurs to the east of the showing. The mineralization occurs as quartz veining, as replacement in limestone, and as fracture filling in sedimentary rocks and in an intrusive dyke. The scheelite horizon has been traced for over 1,6 kilometres.
WORK DONE: Two trenches, 150 metres by 50 metres, on Cedar 10 and Daisy 7.
REFERENCES: Mineral Inventory 82G/NW-60; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 58; Assessment Reports 5439, 5584.

SULLIVAN MINE (Fig. E-1, NTS 82, No. 153)

LOCATION: Lat. 49° 42' Long. 116° 00' (82F/9E; 82G/12W)
Report on this property in 82F/9E.

BRENDA (Fig. E-1, NTS 82, No. 269)

LOCATION: Lat. 49° 59.5' Long. 115° 53' (82G/13W)
FORT STEELE M.D. Seven kilometres due west of Torrent siding, 2.5 kilometres north of Skookumchuck Creek and 1 kilometre west of Sandown Creek.

CLAIM: BONNY 1 (1 unit).

OPERATOR: MOUNTAIN MINERALS LIMITED, Box 700, Lethbridge, Alberta T1J 3Z6.

METALS: Barite, copper, silver, gold.

DESCRIPTION: Irregular patches of sparsely disseminated 'grey copper' (tetrahedrite) occur in barite and siderite in a Precambrian grey-green muscovite schist.

WORK DONE: Surface geological mapping, 1:500 and 1:5000, and 12 rock chip samples assayed for specific gravity, barite, silica, and iron, covering Bonny 1.

REFERENCES: Mineral Inventory 82G/N-65; *Minister of Mines, B.C.*, Ann. Rept., 1921, p. 166; 1922, p. 187; 1923, p. 207; 1924, p. 186; 1925, p. 230; 1926, p. 246; 1927, p. 267; PAC Report 14.

VAN (Fig. E-1, NTS 82, No. 145)

LOCATION: Lat. 49° 55' Long. 115° 17' (82G/14W)
FORT STEELE M.D. Thirty-two kilometres east of Skookumchuck, on Quinn Creek, west of Swanson Peak.

CLAIM: VAN (4 units).

OWNER: SILVER STANDARD MINES LIMITED, 904, 1199 West Hastings Street, Vancouver V6E 3T5.

DESCRIPTION: The lowest strata (Silurian to Lower Devonian) appear to be a fine-grained, dark fossiliferous limestone (Harrogate Formation) overlain by buff-weathering dolomite and limestone (Burnais Formation). The western part of the property is covered by glacial drift.

WORK DONE: Surface geological mapping, 1:5000, covering Van.

REFERENCE: Assessment Report 7038.

BRULE (Fig. E-1, NTS 82, No. 144)

LOCATION: Lat. 49° 55' Long. 115° 05' (82G/14E)
FORT STEELE M.D. Twenty-six kilometres north-northwest of Natal, extending north/south along the headwaters of Norboe Creek in the south and Brule Creek in the north.

CLAIMS: BRULE 1 to 4 (70 units).
 OWNER: KAISER RESOURCES LTD., Box 2000, Sparwood V0B 2G0.
 DESCRIPTION: The property is probably underlain by Palliser, Exshaw, and Banff Formations.
 WORK DONE: Geochemical survey, 251 soil, 2 rock chip, and 5 special bulk stream sediment samples analysed for copper, lead, and zinc, covering all claims.
 REFERENCE: Assessment Report 7018.

CANAL FLATS 82J

SOAB (Fig. E-1, NTS 82, No. 146)

LOCATION: Lat. 50° 04' Long. 115° 05' (82J/3E)
 FORT STEELE M.D. Twelve kilometres west of Round Prairie, extending from 2 kilometres south of Munroe Lake southward for 12 kilometres.
 CLAIMS: SOAB 1 (12 units), SOAB 2 (12 units), SOAB 3 (12 units), SOAB 4 (18 units), SOAB 5 (18 units), SOAB 42 (1 unit), SOAB 44 (1 unit), MUNROE (8 units).
 OWNER: Silver Standard Mines Limited.
 OPERATOR: COASTAL MINING LTD., 506, 1200 West Pender Street, Vancouver V6E 2S9.
 METAL: Zinc.
 DESCRIPTION: Zinc mineralization occurs in Middle Paleozoic carbonate rocks.
 WORK DONE: Blasting, 1 test pit totalling 6 metres, on Soab 5; diamond drilling, 8 BQ holes totalling 305 metres, on Soab 3.
 REFERENCES: Mineral Inventory 82J/SW-13; *B.C. Ministry of Energy, Mines & Pet Res.*, Exploration in B.C., 1977, p. E 60; Assessment Reports 6263, 6910.

WEST (Fig. E-1, NTS 82, No. 148)

LOCATION: Lat. 50° 06' Long. 115° 09' (82J/3E)
 FORT STEELE M.D. Eighteen kilometres west-northwest of Round Prairie, 4.5 kilometres southwest of Munroe Lake and 3 kilometres north of Smith Peak.
 CLAIM: WEST (8 units).
 OWNER: SILVER STANDARD MINES LIMITED, 904, 1199 West Hastings Street, Vancouver V6E 3T5.
 DESCRIPTION: The mapped area (southern half of the claim) appears to be underlain exclusively by limestone and shale of the Cambrian/Ordovician McKay Group. No mineralization or igneous rocks have been observed in the claim area.
 WORK DONE: Surface geological mapping, 1:10 000, covering West.
 REFERENCE: Assessment Report 6984.

TIE, RIP (Fig. E-1, NTS 82, No. 149)

LOCATION: Lat. 50° 07' Long. 115° 06' (82J/3E)
 GOLDEN M.D. Fourteen kilometres west-northwest of Round Prairie,
 2 kilometres south of Munroe Lake.

CLAIMS: TIE (4 units), RIP (4 units).

OWNER: KAISER RESOURCES LTD., Box 2000, Sparwood V0B 2G0.

DESCRIPTION: The property covers massive limestone and dolomite of the Fairholme Group (?) and shales of the McKay Formation. There is very limited exposure of outcrop.

WORK DONE: Geochemical survey, 167 soil and 21 stream sediment samples analysed for copper, lead, and zinc, covering both claims.

REFERENCE: Assessment Report 6815.

HORN (Fig. E-1, NTS 82, No. 147)

LOCATION: Lat. 50° 14' Long. 115° 06' (82J/3E)
 FORT STEELE M.D. Twenty-two kilometres northwest of Round
 Prairie, on the headwaters of Bingay Creek.

CLAIM: HORN 1 (20 units).

OWNER: KAISER RESOURCES LTD., Box 2000, Sparwood V0B 2G0.

DESCRIPTION: The property covers massive limestone and dolomite of the Fairholme Group (?). No mineralization was located.

WORK DONE: Geochemical survey, 60 soil and stream samples analysed for copper, lead, and zinc, covering Horn 1.

REFERENCE: Assessment Report 7017.

URSUS 78 (Fig. E-1, NTS 82, No. 150)

LOCATION: Lat. 50° 22' Long. 115° 50' (82J/5W)
 GOLDEN M.D. Three kilometres north of Fairmont Hot Springs, on
 the south side of Tatley Creek and on the eastern side of Indian Reserve
 3.

CLAIMS: URSUS 78 (12 units).

OWNER: JOHN M. McANDREW, 8961 Ursus Crescent, Surrey V3V 6L3.

METALS: Zinc, lead, silver.

DESCRIPTION: Six distinct rock types have been found on the Ursus 78 claim: quartz diorite, shale, Upper Jubilee dolomite, Lower Jubilee dolomite, and the Horsethief Creek conglomerate with quartzite horizons. Three types of mineralization occur: zinc oxides in brecciated Lower Jubilee dolomite, lead-zinc-silver mineralization in hematite-limonite vein in Lower Jubilee dolomite, and galena in structural zone in Horsethief Creek conglomerate.

WORK DONE: Surface geological mapping, 1:5000, and geochemical survey, 100 soil and 10 silt samples assayed for silver, copper, lead, and zinc, covering Ursus 78.

REFERENCES: *Mineral Inventory 82J/SW-6; Assessment Report 6990.*

1978

(82J/5W, 12W)

WESCO (Fig. E-1, NTS 82, No. 191)

LOCATION: Lat. 50° 30' Long. 115° 56' (82J/5W, 12W)
GOLDEN M.D. Six kilometres north-northeast of Windermere,
between Windermere and Shuswap Creeks.

CLAIMS: CPM 1 to 4 (52 units).

OWNER: CLARENCE HAGEL, 61 – 12th Street SW., Medicine Hat, Alberta.

WORK DONE: Prospecting and percussion drilling, 7 holes totalling 387.1 metres, on
CPM 2.

REFERENCES: Mineral Inventory 82J/SW-7; *B.C. Ministry of Energy, Mines & Pet.
Res.*, GEM, 1972, p. 68; Assessment Reports 2437, 7084.

RUS (Fig. E-1, NTS 82, No. 151)

LOCATION: Lat. 50° 24' Long. 115° 16.5' (82J/6W)
GOLDEN M.D. Forty-one kilometres east-northeast of Fairmont Hot
Springs, on tributaries of White River and North White River.

CLAIMS: RUS (4 units), RUS 3 (8 units), RUSS 2 (2 units).

OWNER: SILVER STANDARD MINES LIMITED, 904, 1199 West Hastings
Street, Vancouver V6E 3T5.

DESCRIPTION: The claims are underlain predominantly by impure limestones, grey
dolomite, and a breccia layer.

WORK DONE: Surface geological mapping, 1:5200, covering all claims.

REFERENCE: Assessment Report 7065.

SHAG (Fig. E-1, NTS 82, No. 152)

LOCATION: Lat. 50° 38' Long. 115° 31' (82J/11W, 12E)
FORT STEELE M.D. Thirty-eight kilometres east of Radium Hot
Springs, on the east side of the Albert River and west of Mount Queen
Mary.

CLAIMS: SHAG 1 to 8 (127 units).

OPERATOR: RIO TINTO CANADIAN EXPLORATION LIMITED, 520, 800 West
Pender Street, Vancouver V6C 2V6.

METALS: Zinc, (lead).

DESCRIPTION: Sphalerite and minor galena are found in carbonate rocks of the
Cathedral Formation.

WORK DONE: Surface geological mapping, 1:10 000, covering all claims; geochemical
survey, 555 soil samples analysed for lead and zinc, covering Shag 1-4,
6, 8.

REFERENCES: Mineral Inventory 82J/NW-4; Assessment Report 7036.

LARDEAU 82K**CUBA (Fig. E-1, NTS 82, No. 154)**

LOCATION: Lat. 50° 02' Long. 116° 55' (82K/2W)
 SLOCAN M.D. On the west side of Kootenay Lake, at the mouth of Schroeder Creek.

CLAIMS: RUTH 1 to 5.

OWNER: Amore Minerals Inc.

OPERATOR: MURRAY SWETZ, 203, 1215 Comox Street, Vancouver V6E 1K6.

METALS: Silver, lead.

WORK DONE: Two trenches totalling 5 metres, on Ruth 1.

REFERENCES: Mineral Inventory 82K/SE-31; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 62, E 63; *Geol. Surv., Canada*, Mem. 184, p. 213; Assessment Report 6465.

CALEDONIA (Fig. E-1, NTS 82, No. 155)

LOCATION: Lat. 50° 02' Long. 117° 06' (82K/3E)
 SLOCAN M.D. Twenty kilometres northwest of Kaslo, on the north side of the Kaslo River and immediately south of Rossiter Creek.

CLAIM: CALEDONIA (Lot 15415).

OWNER: GORDON DALLAS, Box 508, Kaslo V0G 1M0.

METALS: Lead, zinc, silver.

DESCRIPTION: Galena and sphalerite occur in fractures in slate and as replacement in limestone.

WORK DONE: Re-opened adit, 6.1 metres.

REFERENCES: Mineral Inventory 82K/SW-41; *Minister of Mines, B.C.*, Ann. Rept., 1967, p. 254; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 22, p. 31.

WHITewater (Fig. E-1, NTS 82, No. 270)

LOCATION: Lat. 50° 03' Long. 117° 08' (82K/3E)
 SLOCAN M.D. At Retallack, in the Kaslo River valley, west of Whitewater Creek.

CLAIMS: PAUPERS DREAM (Lot 1163), SLOPER FR. (Lot 5990), VANCOUVER (Lot 2024), KASLO (Lot 822), LEO Fraction, LEMAC (2 units).

OWNER: PETER LEONTOWICZ, RR 1, New Denver V0G 1S0.

METALS: Silver, lead, zinc.

WORK DONE: Stripping, 4 490 cubic metres.

REFERENCES: Mineral Inventory 82K/SW-33; *Minister of Mines, B.C.*, Ann. Rept., 1944, p. 69; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 22, pp. 18-27; *Geol. Surv., Canada*, Mem. 184, pp. 260-265.

EVENING STAR (Fig. E-1, NTS 82, No. 264)

LOCATION: Lat. 50° 04' Long. 117° 15' (82K/3E)
 SLOCAN M.D. Seven kilometres west-northwest of Retallack,
 between Ellis and O.K. Creeks.

CLAIMS: EVENING STAR (Lot 1584), KEYSTONE (Lot 1585), BELLE SMITH
 (Lot 3824).

OWNER: George Sipos.

OPERATOR: KACHIN EXPLORATIONS LTD., RR 4, Salmon Arm V0E 2T0.

DESCRIPTION: The claims are underlain by thinly banded argillites, slates, and limy
 argillite which are cut by dykes and sills.

WORK DONE: Prospecting, covering all claims.

REFERENCE: Assessment Report 7079.

COOPER (Fig. E-1, NTS 82, No. 156)

LOCATION: Lat. 50° 10' Long. 117° 09' (82K/3E)
 SLOCAN M.D. Fifteen kilometres west-northwest of Lardeau between
 Mount Cooper and Cooper Creek.

CLAIM: COOPER 1 (20 units).

OWNER: AMOCO CANADA PETROLEUM COMPANY LTD., 656, 409
 Granville Street, Vancouver V6C 1T2.

DESCRIPTION: The property is underlain by stratified rocks of the Triassic Slocan,
 Permian Kaslo, and Mississippian Milford Groups. Anomalous values for
 molybdenum and copper were obtained in silt samples from two
 streams draining the vicinity of the property. No sulphide minerali-
 zation was encountered during the follow-up work.

WORK DONE: Geochemical survey, 147 soil samples analysed for copper, molyb-
 denum, and tungsten, covering Cooper 1.

KANE (Fig. E-1, NTS 82, No. 157)

LOCATION: Lat. 50° 02' Long. 117° 17' (82K/3W)
 SLOCAN M.D. Twenty-six kilometres west-southwest of Lardeau,
 extending over 6 kilometres northward along Kane Creek from Seaton
 Creek.

CLAIMS: KANE 1 (20 units), KANE 2 (15 units), KANE 3 (20 units).

OWNER: AMOCO CANADA PETROLEUM COMPANY LTD., 656, 409
 Granville Street, Vancouver V6C 1T2.

DESCRIPTION: The entire claim group is underlain by metasedimentary rocks of the
 Triassic Slocan Group. Regional geochemical silt sampling indicated
 anomalous values for molybdenum in several streams draining the
 western slopes of the Kane Creek valley. Sulphide mineralization was
 not encountered during subsequent follow-up work.

WORK DONE: Geochemical survey, 685 soil samples analysed for copper, molyb-
 denum, and tungsten, covering all claims.

REFERENCES: Mineral Inventory 82K/SW-82 (Black Grouse, silver); *Minister of Mines,*
B.C., Ann. Rept., 1927, p. 274; Geol. Surv., Canada, Mem. 184, p. 17.

RIBBON (Fig. E-1, NTS 82, No. 158)

LOCATION: Lat. 50° 03' Long. 117° 24' (82K/3W)
 SLOCAN M.D. On the east side of the northern end of Slocan Lake, immediately north of Rosebery.

CLAIM: RIBBON 1 (20 units).

OWNER: TRANS WEST MINERALS LTD., 4611 North Lawn Drive, Burnaby V5C 3R9.

METAL: Molybdenum.

DESCRIPTION: The claim is underlain by Slocan series sedimentary rocks (Triassic) which have been intruded by an east/west-trending, granitic body that appears to be an apophysis of the Cretaceous Nelson pluton. Metallic mineralization includes pyrite, pyrrhotite, and molybdenite.

WORK DONE: Percussion drilling, 4 holes (91.44 metres each) totalling 365.76 metres; 1 sample for each 3.04 metres analysed for total molybdenum, covering Ribbon 1.

REFERENCES: Mineral Inventory 82K/SW-134 (V&G mine); *Minister of Mines, B.C.*, Ann. Rept., 1942, p. 77.

KUSP (Fig. E-1, NTS 82, No. 159)

LOCATION: Lat. 50° 08' Long. 117° 36' (82K/4E)
 SLOCAN M.D. Twenty kilometres southeast of Nakusp, north of Rugged Creek and south of, and along, Bonanza Creek.

CLAIMS: KUSP 1, 2, 4 to 6 (84 units).

OWNER: Canbrika Developments Ltd.

OPERATOR: J.R. WOODCOCK CONSULTANTS LTD., 721, 602 West Hastings Street, Vancouver V6B 1P2.

METALS: (Lead, zinc).

DESCRIPTION: The claims are underlain by a Jurassic volcanic sequence containing clastic strata with disseminated sulphides. Very high geochemical anomalies in copper, lead, and zinc are present. Drilling indicates sparse disseminated sphalerite and galena.

WORK DONE: Surface geological mapping, 1:5200, covering Kusp 1, 5; ground electromagnetic (Turam) survey, 0.5 kilometre, and ground electromagnetic (EM-16) survey, 14 kilometres, covering Kusp 1; geochemical survey, 44 silt samples analysed for lead, zinc, and copper, covering Kusp 1 and 165 soil samples, covering Kusp 1, 5; diamond drilling, 4 BQ holes totalling 308.5 metres, on Kusp 1.

REFERENCES: Assessment Reports 6845, 7054.

RB (Fig. E-1, NTS 82, No. 160)

LOCATION: Lat. 50° 21' Long. 117° 51' (82K/5W)
 SLOCAN M.D. Eleven kilometres north-northwest of Nakusp, on the east side of Upper Arrow Lake and on the south side of Cape Horn Creek.

CLAIM: RB 1 (20 units).

OWNER: COLD LAKE RESOURCES INC., 314, 543 Granville Street, Vancouver V6C 1X9.
METAL: (Copper).
DESCRIPTION: Granitic intrusive rocks belonging to the Kuskanax batholith underlie all but the extreme west side of the property. Much of the property is covered with a mantle of overburden.
WORK DONE: Field examination.

POPLAR (Fig. E-1, NTS 82, No. 164)

LOCATION: Lat. 50° 20' Long. 117° 14' (82K/6E)
 SLOCAN M.D. Thirty-two kilometres north of Retallack, between Poplar and Cascade Creeks on Mount Emmens.
CLAIMS: POPLAR 1 to 3 (52 units).
OWNER: AMOCO CANADA PETROLEUM COMPANY LTD., 656, 409 Granville Street, Vancouver V6C 1T2.
DESCRIPTION: The claim group is underlain by metasedimentary rocks of the pre-Upper Mississippian Lardeau Group, Upper Mississippian Milford Group, and post-Lower Jurassic Poplar Creek stock. Sulphide mineralization was not encountered during follow-up work.
WORK DONE: Geochemical survey, 170 soil samples analysed for copper, molybdenum, and tungsten, covering all claims.

RIO TINTO (Fig. E-1, NTS 82, No. 161)

LOCATION: Lat. 50° 24' Long. 117° 09' (82K/6E)
 SLOCAN M.D. On Poplar Creek, 3 kilometres west of its confluence with the Lardeau River.
CLAIMS: RT (1 unit), TIGERCAT (1 unit).
OWNER: ROBERT LEFTROOK, Box 373, New Denver V0G 1S0.
METALS: Lead, zinc, (gold, silver).
DESCRIPTION: Exposed rocks are carbonaceous schists, banded crystalline limestone, chlorite schists, and dykes of partly carbonated greenstone. A vein of quartz contains ankerite, pyrite, galena, and sphalerite.
WORK DONE: Prospecting, 6 days on Tigercat and 3 days on RT; 6 samples assayed for gold, silver, lead, and zinc, from Tigercat and RT; underground work, cleaning out and timbering old adit and rehabilitating tunnel, 8 days, on RT.
REFERENCES: Mineral Inventory 82K/SW-90; *Geol. Surv., Canada*, Mem. 161, p. 52.

PRESIDENT (RUBY) (Fig. E-1, NTS 82, No. 162)

LOCATION: Lat. 50° 24.5' Long. 117° 00' (82K/6E, 7W)
 SLOCAN M.D. Nineteen kilometres north of the community of Meadow Creek, 2 kilometres west of Gallop Point on the west side of Duncan Lake, on Gallop Creek headwaters.

CLAIMS: TWO BROTHERS, PRESIDENT, PRESIDENT FR., HAUSER, HAUSER FR. (Lots 2005 to 2009), plus RUBY 1 to 4.
OWNER: Consolidated Boundary Exploration Ltd.
OPERATOR: SAM CRAIG, Box 41, Tofino.
METALS: Gold, silver, copper.
WORK DONE: Open cutting, approximately 50 square metres, on Ruby 2.
REFERENCES: Mineral Inventory 82K/SE-12; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 65; Assessment Report 6282.

GREEN RIDGE (Fig. E-1, NTS 82, No. 163)

LOCATION: Lat. 50° 29' Long. 116° 17' (82K/8W)
 GOLDEN M.D. Sixteen kilometres west of Windermere, at the headwaters of the northern branches of Springs Creek.
CLAIMS: GREEN RIDGE 1 to 6.
OWNER: JOHN KOMPERDO, Box 61, Lunbreck, Alberta.
METALS: Copper, silver.
WORK DONE: Geochemical survey (Kaiser Resources Ltd.); cleaning old adit, 10 metres, and 8 pits in bedrock, approximately 2 square metres each, on Green Ridge 3.
REFERENCES: Mineral Inventory 82K/SE-78; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 66.

REDMAC (Fig. E-1, NTS 82, No. 194)

LOCATION: Lat. 50° 30' Long. 116° 27' (82K/8W, 9W)
 GOLDEN M.D. Twenty-nine kilometres west of Invermere, extending southward from the confluence of Red Line and McDonald Creeks.
CLAIMS: REDMAC 2, 6, 8, 18 to 26.
OWNER: V. Bostock.
OPERATOR: V. J. WINSER, Box 366, Invermere.
METALS: Lead, zinc, silver.
DESCRIPTION: Sedimentary rocks of the Upper Purcell Dutch Creek Formation carry lead-silver-zinc mineralization.
WORK DONE: Diamond drilling, 2 AQ holes totalling 136.7 metres, on Redmac 20.
REFERENCES: Mineral Inventory 82K/NE-59; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 46; Assessment Reports 5169, 5642, 7097.

KING (Fig. E-1, NTS 82, No. 120)

LOCATION: Lat. 49° 33' Long. 116° 01' (82K/9E)
 FORT STEELE M.D. Thirteen kilometres southeast of the sawmill on St. Mary Lake, on the road between Lisbon and Perry Creeks.
CLAIMS: KING 1, DAMMIT (1 unit).
OWNER: H. W. ZIEMAND, Box 1173, High River, Alberta.
METALS: Zinc, lead, copper.

- DESCRIPTION:** At the north boundary of the King claim are small exposures of Moyie intrusive rocks which contain minor amounts of metallic sulphides. Associated quartz-calcite veins also contain disseminated metallic sulphides. Minerals include pyrite, pyrrhotite, chalcopyrite, galena, and sphalerite. An east/northeast-trending shear zone cuts the southern and central parts of the Dammit claim. It is best exposed in the west wall of the canyon of Lisbon Creek. This zone is silicified and hematite stained. No work was done on this latter area during 1978.
- WORK DONE:** Trenching, 1 pit (5 metres long, 2-3 metres wide, and 1.5 metres deep) on King, and 3 pits (3 metres long, 2 metres wide, and 1 metre deep) on Dammit.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 35; Assessment Report 5362.

GROTTO (Fig. E-1, NTS 82, No. 165)

- LOCATION:** Lat. 50° 34' Long. 116° 21' (82K/9W)
GOLDEN M.D. Twenty-three kilometres west-northwest of Invermere, extending northward from Horsethief Creek, opposite the mouth of Gopher Creek.
- CLAIMS:** GROTTTO (29 claims).
- OWNER:** GROTTTO SILVER MINES LTD., 197 Howard Street, Kimberley V1O 1K0.
- METALS:** Zinc, lead, silver.
- WORK DONE:** Diamond drilling, 91 metres, on Grotto 8.
- REFERENCES:** Mineral Inventory 82K/NE-17; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 67.

TOBY (J) (Fig. E-1, NTS 82, No. 166)

- LOCATION:** Lat. 50° 37' Long. 116° 22' (82K/9W)
GOLDEN M.D. Twenty-three kilometres west of Radium Hot Springs, on the south side of Forster Creek.
- CLAIM:** TOBY (16 units).
- OWNER:** ESSO MINERALS CANADA LIMITED, 500 Sixth Avenue SW., Calgary, Alberta T2P 0S1.
- DESCRIPTION:** Present within the claim group are the Mount Nelson Formation (dolomites), Toby Formation (polymictic conglomerates), and Horsethief Creek Formation (mainly slates, argillites). Weak copper mineralization was detected but no uranium or thorium.
- WORK DONE:** Geochemical survey, 29 soil, 12 silt, and 5 rock chip samples analysed for copper, uranium, thorium, lead, zinc, and silver, and airborne radiometric survey, 80 kilometres, covering Toby.
- REFERENCES:** Mineral Inventory 82K/NE-3; Assessment Reports 1254, 6884.

BALTIC (Fig. E-1, NTS 82, No. 167)

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.

CLAIMS: BALTIC 1 to 37.

OWNERS: Gordon Larrabee and Arthur Louie.

OPERATOR: GORDON LARRABEE, Box 471, Invermere.

METALS: Silver, lead, zinc.

WORK DONE: Road construction, approximately 1 000 metres, on Baltic 1 and 2; diamond drilling, 1 AQ hole totalling 148.7 metres, on Baltic 2.

REFERENCES: Mineral Inventory 82K/NE-64; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 47; Assessment Reports 5555, 7061.

ANNETTE (Fig. E-1, NTS 82, No. 168)

LOCATION: Lat. 50° 38' Long. 116° 32' (82K/10E)
 GOLDEN M.D. In the Purcell Mountains, near the headwaters of Forster Creek, at the northern end of North Star Glacier.

CLAIMS: STAN 1 to 6 (77 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: (Uranium, molybdenum).

DESCRIPTION: The claims are underlain by rocks of the Lower to Middle Cretaceous Horsethief batholith, which concordantly intrude Upper Proterozoic argillites, dolomites, and conglomerates of the Mount Nelson Formation. At one location, small amounts of disseminated molybdenite occur in an aplite dyke and at another location, a 1-centimetre-wide quartz-muscovite vein contains very finely disseminated uranium mineralization.

WORK DONE: Surface geological mapping, 1:10 000, and geochemical survey, 154 soil and 8 silt samples analysed for copper, lead, zinc, silver, molybdenum, tungsten, uranium, and tin, covering all claims.

REFERENCES: Mineral Inventory 82K/NE-40; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 68; Assessment Reports 6593, 7048.

FIDELITY (Fig. E-1, NTS 82, No. 172)

LOCATION: Lat. 50° 33' Long. 117° 16' (82K/11W)
 REVELSTOKE M.D. Thirty-eight kilometres southeast of Beaton, at the head of Horsefly Creek.

CLAIMS: FIDELITY (Lot 7269), ANNIE E (Lot 7268), plus Lots 7270 to 7276 and 7432.

OWNERS: Mr. and Mrs. Ike Miller.

OPERATOR: GREAT BASINS PETROLEUM LTD., 1570 Elveden House, Calgary, Alberta T2P 0Z3.

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

DESCRIPTION: Galena, sphalerite, and pyrite mineralization occurs in the plane of a flat thrust fault and in narrow veinlets within the imbricate structure in the hangingwall. The mineralized zone is not exposed well in outcrop but has been exposed again in Horsefly Creek some 250 metres north of adit workings. Good silver values are associated with the galena, 34 grams per tonne to 1 per cent lead. Gold values are not related. Thin-bedded shales, arkoses, and dirty quartzites appear to form a simple homocline but do show some open folding. No obvious marker beds are present, so potential structural offsets by bedding plane thrust faults and crosscutting normal faults are not apparent, although suspected.

WORK DONE: Bulldozer road, 100 metres; bulldozer trench, 100 metres; geological mapping, 1:4000 and 1:2000; geochemical survey, 106 soil samples analysed for copper, lead, zinc, and silver, covering Fidelity and Annie E; adit mapping, 100 metres of workings, on Fidelity.

REFERENCES: Mineral Inventory 82K/NW-114; *Geol. Surv., Canada*, Mem. 161, pp. 27, 52-54.

BIG (Fig. E-1, NTS 82, No. 171)

LOCATION: Lat. 50° 35' Long. 117° 28' (82K/11W)
REVELSTOKE M.D. Twenty-five kilometres southeast of Beaton, on the south side of Trout Lake at Bigger Creek.

CLAIMS: BIG 1 to 4 (56 units).

OWNER: Newmont Mines Limited.

OPERATOR: NEWMONT EXPLORATION OF CANADA LIMITED, 1400, 750 West Pender Street, Vancouver.

DESCRIPTION: The property is underlain by a sequence of rocks of the Milford Group comprising fine-grained sandstone, phyllite, siltstone, quartzite, and limestone. These rocks have been intruded by the Kuskanax batholith.

WORK DONE: Surface geological mapping, 1:12 500, and geochemical survey, 166 soil and 27 rock chip samples analysed for copper, molybdenum, lead, zinc, and silver, covering all claims.

TRIUNE (Fig. E-1, NTS 82, No. 170)

LOCATION: Lat. 50° 38' Long. 117° 21' (82K/11W)
REVELSTOKE M.D. Twenty-nine kilometres east-southeast of Beaton, on Triune Mountain at the head of Triune Creek.

CLAIMS: TRIUNE, ENTERPRISE, SILVER CHIEF, KAMLOOPS FR., REVENGE (Lots 5681 to 5685), KAMLOOPS (Lot 4962).

OWNER: RICHROCK MINES LTD., Box 86114, North Vancouver V7L 4J5.

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

DESCRIPTION: The mineralization occurs in veins and shear zones in a siliceous dark grey slate.

WORK DONE: Road work, adit work, and sampling, on Silver Chief.

REFERENCES: Mineral Inventory 82K/NW-26; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 45, pp. 56, 78.

SILVER CHIEF (Fig. E-1, NTS 82, No. 169)

LOCATION: Lat. 50° 41' Long. 117° 16' (82K/11W)
 REVELSTOKE M.D. Seventeen kilometres east of Ferguson, on the northeast side of Index Creek, 2 kilometres north of Redcliff Peak.

CLAIMS: SILVER CHIEF 1 to 4.

OWNERS: George Sipos and Tacoma Resources Ltd.

OPERATOR: TACOMA RESOURCES LTD., 411, 850 West Hastings Street, Vancouver.

METALS: Lead, silver.

DESCRIPTION: Lade Peak limestone and argillaceous limestones outcrop in north-westerly trending bands along the crests of the Silver Chief anticlines. The mineralization is in the Lade Peak limestone.

WORK DONE: 1977 and 1978 – ground electromagnetic survey, 10.2 kilometres, covering all claims.

REFERENCES: Mineral Inventory 82K/NW-39; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 45, pp. 73-75; Assessment Reports 360, 6808.

BANNOCKBURN, SHELAGH (Fig. E-1, NTS 82, No. 173)

LOCATION: Lat. 50° 38.5' Long. 117° 09.5' (82K/11E)
 SLOCAN M.D. Forty-one kilometres east-southeast of Beaton, on the upper reaches of Hall Creek, a tributary of the Duncan River.

CLAIMS: BAN 1 (20 units), BAN 2 (1 unit), BAN 3 (1 unit), plus IRON MASK (Lot 4453), FOSSEL (Lot 4455), EVERGREEN (Lot 4456), BANACKBURN (Lot 4450), SILVER BOTTOM, (Lot 4451), BUCKEYE (Lot 4454), SILVER REEF (Lot 4452), NELSON (Lot 12848), SUPERIOR (Lot 12849), MAGNOLIA (Lot 12850), LITTLE TOMMY (Lot 4985), DEATH ON THE TRAIL (Lot 4986), MORNING (Lot 4987), MIDNIGHT (Lot 4988).

OWNERS: J.A.C. Ross (Crown grants) and S.E.R.E.M. Ltd. (Ban).

OPERATOR: S.E.R.E.M. LTD., 505, 850 West Hastings Street, Vancouver V6C 1E1.

METALS: Lead, zinc, silver.

DESCRIPTION: The mineralization on the property occurs in the upper part of the Hamill Group, a quartzite sequence of Late Proterozoic or Early Paleozoic age.

WORK DONE: 1977 – diamond drilling, 11 holes totalling 571 metres on Ban 1, Banackburn, Silver Bottom, and Buckeye; sampling, covering most claims.

REFERENCES: Mineral Inventory 82K/NW-51, 52, 57, 179; *Minister of Mines, B.C.*, Ann. Rept., 1960, pp. 78, 79; *Geol. Surv., Canada*, Mem. 161, pp. 77, 78, 82; Assessment Report 6729.

VMS (Fig. E-1, NTS 82, No. 178)

LOCATION: Lat. 50° 35' Long. 117° 36' (82K/12E)
 REVELSTOKE M.D. Nine kilometres south-southwest of Trout Lake village, extending northward from Asher Creek to Trout Mountain.

CLAIMS: ASH 1 (10 units), ASH 2 (15 units), TL 15 (6 units).
 OWNER: Newmont Mines Limited.
 OPERATOR: NEWMONT EXPLORATION OF CANADA LIMITED, 1400, 750 West Pender Street, Vancouver.
 METALS: Copper, lead, zinc, silver, (molybdenum).
 DESCRIPTION: Galena, sphalerite, and very minor molybdenite occur in quartz veins in sills and dykes. The property is underlain by a sequence of metamorphic rocks of the Lardeau and Milford Groups. The Milford rocks are black graphitic phyllites and argillites, light to dark grey quartzites, siltstones, and phyllitic quartzites. Lardeau rocks are highly deformed biotite-quartz feldspar schists and gneisses. These rock sequences have been intruded by small dykes and sills of aplitic and felsitic material from the Kuskanax batholith. The bedding and foliation/schistosity strike northwest and dip 50 to 70 degrees southwest.
 WORK DONE: Geological mapping, 1:600; rock assaying, 6 samples for copper, molybdenum, lead, zinc, and silver, 1 sample for tungsten and silver, and 1 sample for silver; and geochemical survey, 40 rock chip samples analysed for copper, molybdenum, lead, zinc, and silver and 18 samples analysed for tungsten, covering all claims.
 REFERENCES: Mineral Inventory 82K/NW-88 to 93; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 78; Assessment Report 3804.

TROUT LAKE (LUCKY BOY, COPPER CHIEF) (Fig. E-1, NTS 82, No. 177)

LOCATION: Lat. 50° 38' Long. 117° 36' (82K/12E)
 REVELSTOKE M.D. Centred 4 kilometres west of Trout Lake village, along Wilkie Creek and southward to Trout Mountain.
 CLAIMS: CH, XYZ, CD, BLUE JAY, DOUBTFUL (Lots 4741 to 4745), LUCKY BOY (Lot 5423), Mineral Lease M-24 (HORSESHOE, Lot 5324), ANEX, LUCKY BOY FR., 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 to 16, FOG 1 and 2.
 OWNERS: Alan E. Marlow and B. M. Oakey.
 OPERATOR: NEWMONT EXPLORATION OF CANADA LIMITED, 1400, 750 West Pender Street, Vancouver.
 METAL: Molybdenum.
 DESCRIPTION: A molybdenum deposit is associated with a small granodiorite stock that intrudes a sequence of argillite, phyllite, siliceous schists, and carbonates. Molybdenite is associated with stockworks of quartz veinlets in both the stock and country rocks.
 WORK DONE: Geological mapping, 1:4000, covering TL 5; geochemical survey, 200 soil, 10 silt, and 6 rock chip samples analysed for copper, molybdenum, lead, zinc, and silver, covering TL 5, and 54 rock chip samples analysed for copper, molybdenum, lead, zinc, and tungsten, covering Copper

Chief Moly; diamond drilling, 5 NQ holes (some HQ and BQ) totalling 4 298 metres, covering CH (Lot 4741), Anex, Lucky Jay 1, 6, Copper Chief Moly, and Copper Chief Moly 1.

REFERENCES: Mineral Inventory 82K/NW-3, 4, 87; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 465; Exploration in B.C., 1975, p. E 47; 1976, p. E 51; 1977, p. E 70; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 45, pp. 59-64; Assessment Reports 5598, 6094.

STAUBERT (Fig. E-1, NTS 82, No. 176)

LOCATION: Lat. 50° 41' Long. 117° 39' (82K/12E)
 REVELSTOKE M.D. Eight kilometres southeast of Beaton, at the north end of Staubert Lake, immediately east of the road from Trout Lake to Beaton.

CLAIM: STAUBERT.

OWNER: ROD PICKARD, 3705 – 39A Avenue, Vernon V1T 6S3.

METALS: Silver, lead, zinc.

WORK DONE: Road grading, on Staubert.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 51.

MAR (Fig. E-1, NTS 82, No. 175)

LOCATION: Lat. 50° 41' Long. 117° 42' (82K/12E)
 REVELSTOKE M.D. Centred 7 kilometres south-southeast of Beaton, covering Marlow Creek.

CLAIMS: MAR 1 (16 units), MAR 2 (12 units), MAR 3 (9 units), MAR 4 (9 units).

OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.

METAL: Molybdenum.

DESCRIPTION: The property is underlain by a section of metasedimentary rocks of the Milford and Lardeau Groups. Foliation generally strikes 110 to 150 degrees azimuth and dips 40 to 60 degrees to the northeast in the western part of the property and overturning in the centre of the property with dips of 45 to 70 degrees to the southwest in the eastern part of the property. Molybdenum soil geochemistry is associated with a quartz feldspar sericite schist, an altered equivalent of a quartz feldspar argillaceous banded schist within the Lardeau Group.

WORK DONE: Surface geological mapping, 1:5000, and geochemical survey, 587 soil samples analysed for copper, molybdenum, lead, and zinc, covering all claims; induced polarization survey (small detail grid), and diamond drilling, 3 BQ holes totalling 277 metres, on Mar 4.

REFERENCES: Mineral Inventory 82K/NW-105; Assessment Reports 6920, 7008.

RAIN (Fig. E-1, NTS 82, No. 174)

LOCATION: Lat. 50° 42' Long. 117° 43' (82K/12E)
 REVELSTOKE M.D. Five kilometres south of Beaton, along the south side of Pearson Creek.

CLAIMS: RAIN 1 (14 units), RAIN 2 (14 units).

OWNER: Newmont Mines Limited.

OPERATOR: NEWMONT EXPLORATION OF CANADA LIMITED, 1400, 750 West Pender Street, Vancouver .

DESCRIPTION: Rain 1 is entirely covered by overburden. Rain 2 is underlain by metamorphic rocks belonging to the Lardeau Group, which are of sedimentary and volcanic origin. This rock sequence has been intruded by small stocks of quartz monzonite of unknown age. The rock types present from the Lardeau Group are limestone, grey phyllite, biotite schist, chlorite schist, and quartzite. The bedding and foliation/schistosity strikes approximately 145 degrees and dips between 65 degrees and 80 degrees northeast. No mineral occurrences are known.

WORK DONE: Surface geological mapping, 1:12 500, covering Rain 2; geochemical survey, 316 soil, 16 stream silt, and 12 rock chip samples analysed for copper, molybdenum, lead, zinc, and silver, covering both claims.

REFERENCE: Assessment Report 7049.

OYSTER, CRITERION, EVA (Fig. E-1, NTS 82, No. 179)

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

CLAIMS: OYSTER (Lot 5416), CRITERION (Lot 5417), EVA (Lot 5172), MASCOTTE FR. (Lot 5418), GOLD FLY (Lot 5421), BLUE JAY (Lot 5184), ROSSLAND (Lot 4775), HIGHLAND MARY (Lot 5171), WEDGE FR. (Lot 5176), IRON DOLLAR (Lot 5173), STOCKHOLM (Lot 6934), STOCKHOLM FR. (Lot 5424), JOKER (Lot 5404), LAST CHANCE (Lot 5174), CHOLLA (Lot 5399), SLEVENAMON (Lot 4761), BALFOUR (Lot 4777).

OWNERS: Guy Allen and C. T. Runham.

OPERATOR: MADISON OILS LIMITED, 508, 630 Eighth Avenue SW., Calgary, Alberta T2P 1G6.

METALS: Gold, (silver).

DESCRIPTION: Four main veins (Eva A, Eva B, Criterion, and Oyster—Lucky Jack) contain free and milling gold in quartz. The veins cut slates, phyllites, and schists of the Precambrian Lardeau series.

WORK DONE: VLF—EM survey, 7.5 kilometres, covering Iron Dollar, Last Chance, Stockholm, and Joker.

REFERENCES: Mineral Inventory 82K/NW-65, 66, 143; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 49; *Geol. Surv., Canada*, Mem. 161, pp. 35-39; Assessment Reports 5172, 7013.

MAD (Fig. E-1, NTS 82, No. 180)

LOCATION: Lat. 50° 58' Long. 117° 23' (82K/14W)
 SLOCAN M.D. Thirty-four kilometres northeast of Beaton, covering Mount Ahab, Pequod Mountain, and Moby Dick Mountain.

CLAIMS: MAD 1 to 4 (20 units each).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L6.

METAL: Molybdenum.

DESCRIPTION: Molybdenite occurs as disseminations and in quartz-sericite veins within and peripheral to a high-level alaskite porphyry plug which intrudes the Battle Range batholith.

WORK DONE: Surface geological mapping, 1:10 000, covering Mad 1, 2; geochemical survey, 45 soil and rock chip samples analysed for molybdenum, copper, lead, zinc, and silver, covering Mad 1, 2, 4.

REFERENCE: Mineral Inventory 82K/NW-167.

ATLAS, RR (Fig. E-1, NTS 82, 181)

LOCATION: Lat. 50° 56' Long. 116° 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.

CLAIMS: RR 1 to 24, BR 2, 3, 6, 8, 10, RJR 1 to 5, 7 to 10, ML 1 and 2.

OWNER: COCHRANE OIL AND GAS LTD., 1400, 444 Fifth Avenue SW., Calgary, Alberta T2P 2T8.

METALS: Lead, zinc, silver, (copper, antimony, tin, tungsten).

DESCRIPTION: The claims are underlain by Proterozoic Horse Thief Creek series slates, argillites, quartz, pebble conglomerate, quartzite, and minor limestone. Sulphides and other minerals (pyrite, marcasite, galena, boulangerite, sphalerite, stibnite, malachite, azurite, and tetrahedrite) occur where faults and/or shear zones intersect favourable carbonate strata. They are found as obvious crosscutting late-stage veins and as disseminated replacement or bloom (manto) type bodies. Attempts are being made to correlate conditions on the claim group to those found at Ruth Vermont property adjoining to the northwest.

WORK DONE: Surface geological mapping, 1:5000, covering all claims plus fringes, and 1:1200, covering RR 1, 2, 15, 17, 20-24; geochemical survey, approximately 450 soil samples, covering RJR 1-5, 7-10 and RR 2, 15, 20, 21, 23, 24, and 15 silt samples, covering fringes of claim block plus RR 19, 20, 23, 24 and RJR 8; trenching, 35 metres, on RR 2, 21.

REFERENCES: Mineral Inventory 82K/NE-10; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 71; Assessment Reports 5446, 5869, 6257, 6744.

VERNON 82L**FOX (Fig. E-1, NTS 82, No. 182)**

LOCATION: Lat. 50° 09' Long. 118° 24' (82L/1W)
 VERNON M.D. Forty-two kilometres east-southeast of Lumby, extending from the headwaters of Yeoward Creek to Yeoward Mountain.

CLAIMS: VERNA (20 units), NUGGET (10 units).

OWNERS: David King and Harry Arnold.

OPERATOR: MURRAY RANKING DEVELOPMENTS LTD., 3304 – 20A Street, Vernon V1T 4E9.

METALS: Gold, silver, lead.

DESCRIPTION: The claims overlie, in the main, an extensive series of dark argillitic rocks of Carboniferous age. They are frequently transversed by numerous quartz veins carrying pyrite, arsenopyrite, and what appears to be the relics of pyrite and galena.

WORK DONE: Linecutting, 7.7 kilometres, and geochemical survey, 240 soil samples analysed for silver, lead, and cobalt, covering both claims.

REFERENCES: Mineral Inventory 82L/SE-20; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 87; Assessment Reports 5066, 5099, 7005.

GATE (Fig. E-1, NTS 82, No. 184)

LOCATION: Lat. 50° 04' Long. 118° 38' (82L/2E)
 VERNON M.D. Thirty kilometres southeast of Lumby, extending north and west from Bisson Lake.

CLAIMS: GATE 2, 4, 7, 8 (20 units each).

OWNER: SHELL CANADA RESOURCES LTD., Box 100, Calgary, Alberta T2P 2H5.

DESCRIPTION: Biotite granodiorite of the Nelson batholith forms the basement rocks and is overlain in places by Tertiary sedimentary rocks and basalts. No mineralization was observed in outcrop or in drill holes.

WORK DONE: 1977 – surface geological mapping, 1:50 000 and 1:20 000, and geochemical survey, 38 water and 37 silt samples analysed for uranium, covering all claims; 1978 – road construction, 1 kilometre; road ploughing, 16 kilometres; and drilling and radiometric logging, 2 tricorne holes totalling 157.3 metres, covering Gate 7 and 8.

REFERENCE: Assessment Report 6682.

COAL (Fig. E-1, NTS 82, No. 183)

LOCATION: Lat. 50° 05.5' Long. 118° 41' (82L/2E)
 VERNON M.D. Twenty-six kilometres southeast of Lumby, at the headwaters of Coalgoat Creek and northwestward to Ferry Creek.

CLAIMS: COAL 1 (20 units), COAL 2 (20 units), COAL 3 (4 units).

1978

(82L/2W)

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

DESCRIPTION: Tertiary basalt flows and interflow sedimentary rocks overlie a granitic basement.

WORK DONE: Surface geological mapping, 1:10 000, and geochemical survey, 49 water and 5 rock chip samples analysed for uranium, covering all claims; scintillometry of all outcrops.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 72; Assessment Reports 6638, 6983.

TAI, CLIER (Fig. E-1, NTS 82, No. 185)

LOCATION: Lat. 50° 10' Long. 118° 50' (82L/2W)
VERNON M.D. Centred 13 kilometres southeast of Lumby, from Creighton Creek southward to Harris Creek.

CLAIMS: TAI 1 to 7 (128 units), CLIER 1 to 5 (94 units).

OWNERS: Robert S. Adamson and E&B Explorations Ltd.

OPERATOR: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.

DESCRIPTION: The claims are underlain by Eocene volcanic and sedimentary rocks.

WORK DONE: Surface geological mapping, 1:10 000, covering Tai 1-7 and Clier 1, 4, 5; 3 silt, 8 water, and 23 rock samples collected; reconnaissance ground gamma-ray spectrometer survey, covering Tai 1-7 and Clier 4, 5; surface diamond drilling and radiometric probing, 3 NQ holes totalling 291.1 metres, on Tai 3, 5, 7.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 73 (Tai), E 74 (Clier); Assessment Reports 6595, 7075.

VAL (Fig. E-1, NTS 82, No. 186)

LOCATION: Lat. 50° 11' Long. 118° 53' (82L/2W)
VERNON M.D. Ten kilometres southeast of Lumby, 2 kilometres up Vidler Creek from its junction with Harris Creek.

CLAIMS: ARKOSE (6 units), ARKOSE 2 (20 units), ARKOSE 3 (1 unit), ARKOSE 4 (6 units), VIDLER (12 units), VIDLER 2 (12 units).

OWNER: K. L. Daughtry & Associates Ltd.

OPERATOR: BANQWEST RESOURCES LTD., 650, 409 Granville Street, Vancouver V6C 1T2.

METAL: Uranium.

DESCRIPTION: Uranium occurs in carbonaceous, tuffaceous siltstones, mudstones, and arkoses of Eocene age in a complexly faulted basin underlain by granitic Mesozoic rocks and Paleozoic to Mesozoic metasedimentary and metavolcanic rocks.

WORK DONE: Topographic and geological mapping; grid establishment, 24.4 kilometres; radiometric survey, 20.8 kilometres; geochemical survey, 453 soil samples analysed for uranium; and water sampling, covering Arkose, Arkose 2-4, and Vidler.

REFERENCES: Mineral Inventory 82L/SE-5; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 74; Assessment Reports 6341, 6376, 6560, 7015.

OYAMA 1 (Fig. E-1, NTS 82, No. 188)

LOCATION: Lat. 50° 10' Long. 119° 07' (82L/3E)
 VERNON M.D. Fifteen kilometres southeast of Vernon, at the headwaters of Craster Creek.

CLAIM: OYAMA 1 (18 units).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

DESCRIPTION: Miocene plateau basalt unconformably overlies Cretaceous quartz monzonite and Monashee gneiss.

WORK DONE: Percussion drilling, 2 holes totalling 46 metres, on Oyama 1.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 76; Assessment Reports 6624, 7125.

CHANNEL (Fig. E-1, NTS 82, No. 187)

LOCATION: Lat. 50° 10.5' Long. 119° 11' (82L/3E)
 VERNON M.D. Nine kilometres south-southeast of Vernon, extending northeasterly from King Edward Lake to Brewer Creek.

CLAIMS: CHANNEL (20 units), CHANNEL 2 (10 units), CHANNEL 3 (6 units), CHANNEL 4 (6 units), CODY (20 units).

OWNER: K. L. Daughtry & Associates Ltd.

OPERATOR: BANQWEST RESOURCES LTD., 650, 409 Granville Street, Vancouver V6C 1T2.

DESCRIPTION: Miocene and Eocene sedimentary rocks underlie Pliocene (?) plateau basalt.

WORK DONE: Grid establishment, 4.5 kilometres; 11 water, 6 silt, and 10 soil samples analysed for uranium, covering all claims.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 77; Assessment Reports 6408, 6483, 6487, 6914.

BURCHAN (Fig. E-1, NTS 82, No. 190)

LOCATION: Lat. 50° 12' Long. 119° 01' (82L/3E)
 VERNON M.D. Eighteen kilometres east-southeast of Vernon, centred 3 kilometres northeast of Bluenose Mountain and extending from Duteau Creek to Nicklen Creek.

CLAIM: BURCHAN (18 units).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

DESCRIPTION: A Tertiary paleochannel conglomerate rests on Monashee metamorphic rocks at the east end of the claim.

1978

(82L/3W)

WORK DONE: Surface geological mapping, 1:5000; geochemical survey, 155 soil and 14 water samples analysed for uranium; and reconnaissance scintillometry of all outcrops, covering Burchan.

REFERENCE: Assessment Report 6812.

ECHO (Fig. E-1, NTS 82, No. 189)

LOCATION: Lat. 50° 04' Long. 119° 18' (82L/3W)

VERNON M.D. Seven kilometres southeast of Oyama, between Echo Lake, Oyama Lake, and Clarke Creek.

CLAIMS: ECHO 1 to 4 (67 units).

OWNER: R. S. Adamson.

OPERATOR: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.

WORK DONE: 1977 – surface geological mapping, 1:16 000; and geochemical survey, 112 silt, 50 water, and 152 soil samples analysed for uranium, covering all claims; reconnaissance ground scintillometer survey, 42.3 kilometres, covering Echo 4.

REFERENCE: Assessment Report 6646.

REEF (Fig. E-1, NTS 82, No. 192)

LOCATION: Lat. 50° 04' Long. 119° 19' (82L/3W)

VERNON M.D. Twenty kilometres south of Vernon, extending from Oyama Lake southward along Clark Creek (mainly the west side) to Horse Creek.

CLAIMS: REEF 1 to 10 (100 units).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

DESCRIPTION: Tertiary quartz pebble conglomerates and sands are overlain by Miocene basalt flows and underlain by radioactive granitic rocks of the Nelson batholith.

WORK DONE: Surface geological mapping, 1:10 000; geochemical survey, 161 soil, 55 water, and 32 silt samples analysed for uranium and 26 rock samples analysed for uranium and thorium; and reconnaissance scintillometry of all outcrops, covering all claims; reconnaissance ground gamma-ray spectrometer survey, 12 kilometres of line.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 77; Assessment Reports 6631, 6944.

ESP (Fig. E-1, NTS 82, No. 202)

LOCATION: Lat. 50° 07' Long. 119° 45' (82L/4)

VERNON and NICOLA M.D. Thirty-eight kilometres west-southwest of Vernon, west of Loch Drinkie and north of Esperon Lake.

CLAIMS: ESP 1 to 8 (92 units).

1978

(82L/4E)

OWNER: SHELL CANADA RESOURCES LTD., Box 100, Calgary, Alberta T2P 2H5.

DESCRIPTION: Biotite quartz monzonite of the Valhalla complex underlies the property. Younger mafic dykes were observed crosscutting the Valhalla in places. No mineralization was observed in outcrop or in drill holes.

WORK DONE: 1977 – surface geological mapping, 1:50 000 and 1:20 000, and geochemical survey, 393 water and 481 silt samples analysed for uranium and 444 silt samples analysed for metals and 90 soil samples analysed for uranium, covering all claims; 1978 – road ploughing, 10 kilometres, and drilling and radiometric probing, 3 tricone holes totalling 41.5 metres, covering ESP 1 and 2.

REFERENCE: Assessment Report 6681.

NAHUN (Fig. E-1, NTS 82, No. 201)

LOCATION: Lat. 50° 04' Long. 119° 30.5' (82L/4E)
VERNON M.D. Four kilometres west-northwest of Okanagan Centre, on the west side of Okanagan Lake between Quilpituk and Reid Creeks.

CLAIMS: NAHUN 1 and 2 (20 units each).

OWNER: BRITISH NEWFOUNDLAND EXPLORATION LIMITED, 704, 602 West Hastings Street, Vancouver V6B 1P6.

DESCRIPTION: The property is underlain entirely by crystalline rocks assigned to the Nelson plutonic complex of Jurassic and/or Cretaceous age. Of the four units identifiable on the property, one is radioactive, a pink trachyte dyke.

WORK DONE: Surface geological mapping, 1:1000, and reconnaissance geochemical sampling and prospecting, approximately 50 silt, water, and rock chip samples analysed for uranium and thorium, covering both claims.

REFERENCE: Assessment Report 6753.

BALD (Fig. E-1, NTS 82, No. 199)

LOCATION: Lat. 50° 04' Long. 119° 33' (82L/4E)
VERNON M.D. Seven kilometres west of Okanagan Centre, at the headwaters of Bald Range Creek.

CLAIMS: BALD 1 to 4 (62 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: The majority of the area is underlain by intrusive rocks of Nelson plutonic suite of Late Jurassic age. To the west the intrusive rocks are overlain by volcanic rocks of the Upper Eocene Skaha Formation.

WORK DONE: Scintillometer survey; geochemical survey, 79 stream and lake silt samples analysed for uranium, 54 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 3 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten; reconnaissance geological mapping, 7 rock chip samples collected, covering all claims.

E 91

DUO (Fig. E-1, NTS 82, No. 196)

LOCATION: Lat. 50° 04' Long. 119° 39' (82L/4E)
 VERNON M.D. On Terrace Creek, from Lean-to Creek northward.

CLAIMS: DUO 1 to 5 (100 units).

OWNER: R. S. Adamson.

OPERATOR: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.

DESCRIPTION: The claims cover a part of the contact area between Cretaceous granitic rocks and Eocene volcanic flows. It was concluded that no uraniumiferous sedimentary horizon is present between the granitic basement and the overlying volcanic rocks.

WORK DONE: 1977 — reconnaissance geological mapping, 1:31 600 (12 silt samples), and ground scintillometer survey, 41 kilometres (2 water samples), covering all claims.

REFERENCE: Assessment Report 6647.

WHITE ELEPHANT (Fig. E-1, NTS 82, No. 193)

LOCATION: Lat. 50° 09' Long. 119° 33' (82L/4E)
 VERNON M.D. Twenty-four kilometres southwest of Vernon, 4 kilometres west of Okanagan Lake and 2 kilometres east-northeast of the junction of McMullen and Shorts Creeks.

CLAIM: WHITE ELEPHANT (Lot 4880).

OPERATOR: BRYAN T. MULOIN, RR 3, Salmon Arm V0E 2T0.

METALS: Gold, silver, tungsten, bismuth, tellurium.

DESCRIPTION: Lenses of pyrrhotite and veinlets of pyrite and chalcocopyrite, all of which have been partially replaced by tetradymite, occur in a body of vitreous quartz.

WORK DONE: Linecutting, 10.8 kilometres.

REFERENCES: Mineral Inventory 82L/SW-42; *Minister of Mines, B.C.*, Ann. Rept., 1921, pp. 192, 196; 1922, p. 144; 1923, p. 159; 1924, p. 140; 1927, p. 213; 1928, p. 220; 1929, p. 248; 1930, p. 207; 1931, p. 116; 1932, p. 143; 1934, p. E29; 1935, p. D13; *Geol. Surv., Canada*, Summ. Rept., 1931, pp. 86-90.

SHORT (Fig. E-1, NTS 82, No. 200)

LOCATION: Lat. 50° 09' Long. 119° 41' (82L/4E)
 VERNON M.D. Eighteen kilometres northwest of Okanagan Centre, on the north side of Shorts Creek, 4 kilometres south-southeast of Hudson Bay Lake.

CLAIM: SHORT 1 (12 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: The area is underlain by Nelson plutonic rocks. A limestone unit of the Cache Creek Group outcrops over a small area.

1978

(82L/4E)

WORK DONE: Scintillometer survey; geochemical survey, 47 lake and silt samples analysed for uranium, 41 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 2 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten; and reconnaissance geological mapping, 1 rock chip sample collected, covering Short 1.

WHITEMAN (Fig. E-1, NTS 82, No. 195)

LOCATION: Lat. 50° 13' Long. 119° 38' (82L/4E)

VERNON M.D. Twenty-seven kilometres west-southwest of Vernon, on the south side of Whiteman Creek, 10 kilometres west of Okanagan Lake.

CLAIMS: WHITEMAN 1 (6 units), WHITEMAN 2 (18 units).

OWNER: KENNCO EXPLORATIONS, (WESTERN) LIMITED, 730, 505 Burrard Street, Vancouver V7X 1M4.

WORK DONE: 1977 — geochemical survey, 24 silt, 368 soil, and 23 rock chip samples analysed for molybdenum, copper, lead, zinc, silver, gold, and fluorine, covering both claims.

REFERENCE: Assessment Report 6738.

ALFY, BEAR (Fig. E-1, NTS 82, No. 197)

LOCATION: Lat. 50° 01' Long. 119° 47' (82L/4W)

VERNON M.D. On the west side of Whiterocks Mountain, at the headwaters of North Lambly Creek.

CLAIMS: TAD 1 to 6 (56 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: Molybdenum, copper.

DESCRIPTION: Molybdenite and pyrite occur in quartz veinlets in a quartz porphyry stock. Chalcopyrite, pyrite, and magnetite occur in pyroxenite 1 500 metres to the southeast of the molybdenum area.

WORK DONE: Linecutting, 34.4 kilometres, and ground magnetometer survey, 25 kilometres, covering Tad 1-4; surface geological mapping, 1:5000, covering Tad 1-6; induced polarization survey, 13.5 kilometres, covering Tad 1, 3, 4; geochemical survey, 57 rock samples analysed for copper, platinum, and palladium, covering Tad 3, 4; percussion drilling, 11 holes totalling 961 metres (230 3.05-metre samples analysed for molybdenum, 58 3.05-metre samples analysed for copper, 49 15.25-metre composites analysed for tin, barite, tungsten, rubidium, strontium, copper, lead, zinc, silver, gold, and fluorine, and 12 15.25-metre composites analysed for zinc, silver, gold, cobalt, nickel, molybdenum, platinum, and palladium), covering Tad 1, 3, 4.

REFERENCES: Mineral Inventory 82L/SW-5, 9; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 79, E 80; Assessment Reports 1896, 2255, 5341, 5568, 6732.

GOOD (Fig. E-1, NTS 82, No. 198)

LOCATION: Lat. 50° 01' Long. 119° 51' (82L/4W)
 NICOLA M.D. Centred 5.76 kilometres east-southeast of the junction of Alocin Creek and Nicola River.

CLAIMS: GOOD, BETTER, BEST, MON, SAT (25 units).

OWNER: HERMAN A. WESSEL, 13005 -- 111th Avenue, Surrey V3T 2R8.

DESCRIPTION: A magnetometer survey was done on the Good claim to ascertain if the highly magnetic properties of the chrome showings to the south continue northward. High readings were obtained.

WORK DONE: Magnetometer survey, 7 kilometres, covering Good.

GOOD (Fig. E-1, NTS 82, No. 207)

LOCATION: Lat. 50° 01' Long. 119° 52' (82L/4W)
 NICOLA M.D. Thirty kilometres west of Okanagan Centre, 2 kilometres northwest of Eileen Lake.

CLAIM: GOOD (6 units).

OWNER: HERMAN H. WESSEL, 13005 -- 111th Avenue, Surrey.

DESCRIPTION: The area is underlain by metasedimentary and igneous rocks. Of exploration interest is a belt of serpentized peridotites containing segregated chromite.

WORK DONE: Ground magnetometer survey, 3.5 kilometres, covering Good.

REFERENCE: Assessment Report 7092.

JACK, CL, JOY (Fig. E-1, NTS 82, No. 203)

LOCATION: Lat. 50° 01' Long. 119° 52' (82L/4W)
 NICOLA M.D. Twenty-eight kilometres west of Okanagan Centre, extending northwest and southeast of Eileen Lake.

CLAIMS: JACK (4 units), CL (6 units), CL 2 (6 units), JOY (12 units), PENSTEMEN (6 units), RICH (4 units), PLENTY (4 units).

OWNERS: Mrs. R. O. Crosby, J. St. Mars, and A. Hrkac.

OPERATOR: PAN OCEAN OIL LIMITED, 1050 Three Calgary Place, 355 Fourth Avenue SW., Calgary, Alberta T2P 0J1.

DESCRIPTION: The potential for massive chromite deposits of the podiform type exists within the serpentized peridotite rocks of the Old Dave intrusions. The Old Dave intrusions occur as narrow dykes trending northwesterly and bounded on the east by metasedimentary rocks of the Chapperon Group and to the west by granitic rocks of the Coast Plutonic Complex. The ultrabasic dykes show a good deal of heterogeneity in lithology and contain zones of more intense serpentization, talc alteration, and disseminated chromite which may be related to massive chromite pods.

WORK DONE: Surface geological mapping, 1:2000, and airborne magnetometer survey, 186 kilometres, covering all claims; geochemical survey, 1 100 soil samples analysed for chromium, covering Rich, Jack, CL, and CL 2.

REFERENCE: Assessment Report 6791.

KENNALLAN (BUM, YOKAHAMA) (Fig. E-1, NTS 82, No. 204)

LOCATION: Lat. 50° 26.5' Long. 119° 49' (82L/5W)
 KAMLOOPS M.D. Centred 4.5 kilometres southwest of Westwold, on the west side of the Salmon River.

CLAIM: MOLY (16 units).

OPERATOR: DENAR MINES LTD., 33825 South Fraser Way, Abbotsford V2S 2C4.

METALS: Molybdenum, (tungsten, copper).

DESCRIPTION: The claim is underlain by Kamloops basalts and by a window of Cache Creek sedimentary rocks. Mineralization consists of erratic concentrations of molybdenite in skarn with minor chalcopyrite and pyrite.

WORK DONE: Cleaning out old trenches, on Moly.

REFERENCES: Mineral Inventory 82L/SW-43, 45; *Minister of Mines, B.C.*, Ann. Rept., 1896, p. 568; 1898, p. 1107; 1899, p. 733; 1915, pp. 216, 217; 1964, p. 104; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 9, pp. 28, 82; *Geol. Surv., Canada*, Mem. 296, p. 146; Assessment Reports 282, 2360.

GOODENOUGH (HUGEL, HUD) (Fig. E-1, NTS 82, No. 206)

LOCATION: Lat. 50° 18' Long. 119° 28' (82L/6W)
 VERNON M.D. Approximately 15 kilometres west-northwest of Vernon, on the north side of Naswhito Creek, 4 kilometres northwest of its mouth at Okanagan Lake.

CLAIMS: SUPER (18 units), NOVA (18 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METAL: Copper.

DESCRIPTION: Stratabound bands of magnetite, chalcopyrite, pyrite, and pyrrhotite are hosted by an intercalated sequence of calc-silicates, andesite tuffs, cherts, and argillites.

WORK DONE: Induced polarization survey, 16.6 kilometres, and ground magnetometer survey, 27.3 kilometres, covering both claims.

REFERENCES: Mineral Inventory 82L/SW-4, 18; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 80; *Geol. Surv., Canada*, Mem. 296, pp. 144, 145; Assessment Report 2042 (Hugel), 6404, 6947.

MOUNT VERNON (Fig. E-1, NTS 82, No. 205)

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.

CLAIMS: DG (9 units), DK (16 units), DB (9 units), DV (12 units).

OWNER: James Irwin.

OPERATOR: MURRAY RANKING DEVELOPMENTS LTD., Box 904, Vernon.

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

DESCRIPTION: The claims are underlain predominantly by Monashee gneisses contacting Cache Creek Group rocks at the junction of several fault systems. Intense silicification is evident in the form of quartz veins

which vary from a few centimetres to over 1 metre in width. The latest stripping has extended the Proctor zone where several high-grade quartz veins were exposed.

WORK DONE: Bulldozer stripping, on DB and DG.

REFERENCES: Mineral Inventory 82L/SW-8; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 53; Assessment Report 5432.

CHAPUT (Fig. E-1, NTS 82, No. 208)

LOCATION: Lat. 50° 16' Long. 118° 57' (82L/7W)
VERNON M.D. Immediately northeast of Lumby, on the east side of Bessette Creek.

CLAIMS: CHAPUT 1 to 24, GAIL 1.

OWNERS: Wallace Chaput and Edward Chaput.

OPERATOR: COAST INTERIOR VENTURES LTD., 2801 — 18th Avenue, Vernon.

METALS: Silver, lead, zinc, copper.

DESCRIPTION: The property overlies Monashee Group gneisses of Precambrian age and younger metamorphosed Cache Creek sedimentary rocks. The latter are intruded by a granitic stock. The present diamond drilling program indicates that the ore occurs in lenses which may be overlapping each other, *en echelon* style.

WORK DONE: 1977 — diamond drilling, 5 holes totalling 417.6 metres, on Chaput claims.

REFERENCES: Mineral Inventory 82L/SE-6; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 53; Assessment Report 6954.

OK (Fig. E-1, NTS 82, No. 209)

LOCATION: Lat. 50° 40' Long. 118° 41' (82L/10E)
VERNON M.D. Fifty kilometres southwest of Revelstoke, 7 kilometres north-northeast of Kingfisher, on the west side of Mabel Lake.

CLAIM: NOREEN (20 units).

OPERATOR: K. L. DAUGHTRY & ASSOCIATES LTD., Box 795 Vernon V1T 6M7.

METALS: Lead, zinc, (copper).

DESCRIPTION: The claim is underlain by high-grade Shuswap metamorphic rocks, including marble, quartzite, metasedimentary gneiss, amphibolite, and pegmatite. Mineralization comprises stratabound pyrrhotite-sphalerite-galena and minor chalcopyrite in marble, impure calc-silicate gneiss, and quartzite.

WORK DONE: Airborne magnetometer survey, 82 kilometres, and topographic mapping, covering Noreen.

REFERENCES: Mineral Inventory 82L/NE-13; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 102; Assessment Report 6678.

CLIFF (Fig. E-1, NTS 82, No. 210)

LOCATION: Lat. 50° 38' Long. 119° 03' (82L/11E)
 VERNON M.D. Seventeen kilometres east-southeast of Salmon Arm and 3 kilometres east of the Shuswap River, extending from the headwaters of Bongard Creek to south of Lambert Creek.

CLAIMS: CLIFF, CLIFF 2 and 3 (52 units).

OWNER: K. L. Daughtry & Associates Ltd.

OPERATOR: BANQWEST RESOURCES LTD., 650, 409 Granville Street, Vancouver V6C 1T2.

WORK DONE: Geochemical survey, 14 water and 10 silt samples analysed for uranium, covering all claims.

GOAT A (Fig. E-1, NTS 82, No. 267)

LOCATION: Lat. 50° 42.5' Long. 119° 08' (82L/11E)
 KAMLOOPS M.D. Ten kilometres east of Salmon Arm, at the headwaters of Violet Creek, 5 kilometres northwest of Mara.

CLAIM: GOAT A (9 units).

OWNER: BILL MERONIUK, RR 5, Baker Hogg Road, Vernon V1T 6L8.

METALS: Silica, lead, molybdenum.

DESCRIPTION: Exploration on the property is basically for the purpose of determining the qualities and quantities of high-grade silica which could be available for commercial use. Low-grade molybdenite and galena was encountered while prospecting and trenching. More exploration is required. - The galena occurs within the 240-metre-wide silica deposit.

WORK DONE: Prospecting, three seasons; random soil testing; and drilling and blasting, 150 metres, on all units; trenching, approximately 200 metres, on units 1 and 2; diamond drilling, 1 EX hole totalling 30 metres, on unit 1.

REFERENCES: Mineral Inventory 82L/NW-47; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 82.

JEN JEN (Fig. E-1, NTS 82, No. 211)

LOCATION: Lat. 50° 43' Long. 119° 25' (82L/11W)
 KAMLOOPS M.D. Ten kilometres west of Salmon Arm, at the headwaters of Apalmer and Gordon Creeks.

CLAIMS: JEN JEN 1 to 7 (117 units).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

DESCRIPTION: Tertiary basalt flows cap a series of paleochannel conglomerates lying on Coast Range granitic rocks.

WORK DONE: Surface geological mapping, 1:5000 and 1:2500; geochemical survey, 1 180 soil, 93 water, and 12 rock chip samples analysed for uranium; and grid preparation and gamma-ray spectrometer survey, 70.5 kilometres, covering all claims.

REFERENCE: Assessment Report 6982.

FS (Fig. E-1, NTS 82, No. 121)

LOCATION: Lat. 50° 49' Long. 119° 50' (82L/13W)
 KAMLOOPS M.D. Fourteen kilometres north of Pritchard, on Nisconlith Creek.

CLAIMS: FS 1, FS 2, FS 3 (4 units), HOPE (4 units).

OWNERS: G. Aulin, J. Felik, and J. Aulin.

OPERATORS: INTERIOR STONE & MARBLE LTD., Box 2070, Kamloops.

METALS: Tungsten, silica, talc.

DESCRIPTION: The silica is in a vein that runs north and south. On the east side of the vein there are strong tungsten showings and on the west side there is talc. Tungsten occurs in a quartz vein.

WORK DONE: Road construction, approximately 150 metres, on FS 3 and Hope; stripping, approximately 90 metres, on FS 3.

REFERENCES: Mineral Inventory 82L/NW-31; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 405.

SYPHON (Fig. E-1, NTS 82, No. 212)

LOCATION: Lat. 50° 43' Long. 119° 23' (82L/11W, 14W)
 KAMLOOPS M.D. Seven kilometres west-northwest of Salmon Arm, from Mount Tappan southward across Syphon Creek.

CLAIMS: SYPHON 1 to 4 (69 units).

OWNER: K. L. Daughtry & Associates Ltd.

OPERATOR: BANQWEST RESOURCES LTD., 650, 409 Granville Street, Vancouver V6C 1T2.

DESCRIPTION: A roof pendant of pyritic, pelitic, and arenaceous metasedimentary rocks is intruded by siliceous granite. A strong fracture zone cuts both rock types. Anomalous water, silt, soil, rock, and radiometric values occur.

WORK DONE: 1977 – airborne and reconnaissance ground radiometric survey and water sampling, covering Syphon 1, 3, 4; 1978 – grid establishment, 24 kilometres; topographic mapping, 1:5000 (451 soil samples analysed for uranium); radiometric survey, 24 kilometres (50 water and 26 silt samples analysed for uranium), covering Syphon 1, 3, 4.

WL (Fig. E-1, NTS 82, No. 213)

LOCATION: Lat. 50° 55' Long. 119° 14.5' (82L/14)
 KAMLOOPS M.D. Twenty-three kilometres north of Salmon Arm, 1 kilometre north of White Lake and 2 kilometres southwest of Eagle Bay.

CLAIMS: WL 1 to 3 (30 units).

OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.

DESCRIPTION: Pyrite mineralization occurs in graphitic and siliceous tuffites of the Eagle Bay Formation.

WORK DONE: Diamond drilling, 2 BQ holes totalling 186.5 metres, on WL 1.
 REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 84; Assessment Reports 3036, 6589, 7056.

PC (Fig. E-1, NTS 82, No. 214)

LOCATION: Lat. 50° 55' Long. 119° 18' (82L/14W)
 KAMLOOPS M.D. Thirty-four kilometres north of Salmon Arm, on the south side of Shuswap Lake, 4 kilometres west of Eagle Bay.
 CLAIMS: PC 1 and 2 (20 units each) (adjoining the WL claims on the west).
 OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.
 DESCRIPTION: Minor sulphide mineralization occurs in siliceous and graphitic tuffites of the Eagle Bay Formation.
 WORK DONE: Diamond drilling, 3 BQ holes totalling 283 metres, on PC 1 and 2.
 REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 81; Assessment Reports 6594, 7057.

NN (SCIMITAR) (Fig. E-1, NTS 82, No. 215)

LOCATION: Lat. 50° 53' Long. 119° 09' (82L/14E)
 KAMLOOPS M.D. Midway between White Lake to the west and Shuswap Lake to the east.
 CLAIMS: NN 1 to 3 (47 units).
 OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.
 DESCRIPTION: Minor sulphide mineralization occurs in graphitic and siliceous tuffites of the Eagle Bay Formation.
 WORK DONE: Diamond drilling, 3 BQ holes totalling 296 metres, on NN 1 and 2.
 REFERENCES: Mineral Inventory 82L/NW-43; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 86; Assessment Reports 6591, 7055.

CRAN (Fig. E-1, NTS 82, No. 216)

LOCATION: Lat. 50° 47' Long. 118° 02' (82L/16E)
 REVELSTOKE M.D. Twenty-five kilometres south-southeast of Revelstoke, on the west side of the Columbia River from the power house south to Halls Landing.
 CLAIMS: CRAN 1 (12 units), CRAN 2 (20 units), CRAN 3 (12 units), CRAN 4 (12 units), CRAN 5 (12 units); FRIDAY 1 (4 units), FRIDAY 2 (6 units), FRIDAY 3 (1 unit), FRIDAY 5 (1 unit), FRIDAY 6 (4 units).
 OWNER: Cajac Explorations Ltd.
 OPERATOR: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.
 METAL: Uranium.

- DESCRIPTION:** The property is underlain by Monashee Group rocks of the Shuswap Complex. These rocks include fine to medium-grained biotite-quartz \pm garnet \pm sericite gneiss and fine to medium-grained quartz feldspar \pm garnet granitic pegmatites. Radioactivity, where detected, is associated with the granitic pegmatites. Uranium minerals identified include uraninite and autunite.
- WORK DONE:** Grid establishment, 51 kilometres; surface geological mapping, 1:5000; and scintillometer prospecting, covering Friday 3, 5 and Cran 2-4; airborne gamma-ray spectrometer survey, 290 kilometres, covering all claims; 3 pits totalling 14 metres, on Cran 3, 4.
- REFERENCES:** Mineral Inventory 82L/NE-20; Assessment Report 6816.

SEYMOUR ARM 82M

MOUNT COPELAND MINE (Fig. E-1, NTS 82, No. 217)

- LOCATION:** Lat. 51° 08' Long. 118° 28' (82M/1W)
 REVELSTOKE M.D. Twenty-two kilometres northwest of Revelstoke, on Mount Copeland, between Hiren and Copeland Creeks and west to the head of Bews Creek.
- CLAIMS:** KNOX 9, 10, 12, 17 to 22, 67 to 69, 77 to 82, 87 to 92, HAP 1 to 4, KEN 3 and 4 Fractions.
- OWNER:** Phoenix Resources Company.
- OPERATOR:** H. O. HOWEY, 1135 Connaught Drive, Vancouver V6H 2G9.
- METAL:** Molybdenum.
- DESCRIPTION:**

Copeland Ridge west of Mount Copeland is cored by an elliptical-shaped, westerly trending, more or less continuous body of nepheline syenite gneiss. The nepheline syenite unit, flanked on the north and south by metasedimentary rocks, is approximately 900 metres across and trends along Copeland Ridge west of Mount Copeland for approximately 8 300 metres. The associated metasedimentary sequence comprises biotite schist, white quartzite, calc-silicate gneiss, marble, and grey gneiss.

The predominant structure along Copeland Ridge is an asymmetrical anticlinal fold which is overturned to the north. Fold limbs dip broadly south at dips ranging from 30 to 50 degrees. Lenses of syenite pegmatite and aplite occur along the northern limb of the structure at the nepheline syenite gneiss-metasedimentary rock contact. From an economic standpoint, these syenite lenses are important because they commonly contain concentrations of molybdenite.

Molybdenum tends to be localized, more or less continuously, along the northern periphery of the nepheline syenite body. Molybdenite mineralization occurs in two, apparently associated, rock types. These are syenite, which appears to contain the richer concentrations, and calc-silicate gneiss. Pyrite and pyrrhotite associated with the molybdenite provide a distinctive rusty signature along the nepheline syenite-metasedimentary contact zone.

WORK DONE: Seven trenches totalling 70.2 metres, on Knox 79.

REFERENCES: Mineral Inventory 82M-2; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, pp. 104-112; Assessment Reports 679, 776.

EVELYN-VENUS (BET, FLUKE), SAUL (Fig. E-1, NTS 82, No. 218)

LOCATION: Lat. 51° 04' Long. 119° 15' (82M/3E)
KAMLOOPS M.D. Sixteen kilometres north of Magna Bay; Fluke 8 claim is on Crowfoot Mountain and Fluke 3 to 6 claims are 2.5 kilometres north-northeast of Crowfoot Mountain.

CLAIMS: FLUKE 3 to 6, 8.

OWNER: RESOURCEX LTD., Box 7248, Station E, Calgary, Alberta T3C 3M1.

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

DESCRIPTION: The claims area lies within the Shuswap Complex of gneisses, schists, and carbonates intruded by granitic dykes and sills. Mineralization occurs as sulphide replacements of limestone and marble bands, and as galena in quartz-filled fractures.

WORK DONE: Ground spectrometer survey, 3.7 kilometres, covering Fluke 3, 4, and 8.

REFERENCES: Mineral Inventory 82M-104, 105; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 58; Assessment Reports 609, 3819, 3821, 4031, 5133, 6230, 6857.

CU (Fig. E-1, NTS 82, No. 219)

LOCATION: Lat. 51° 00' Long. 119° 30' (82M/3W, 4E)
KAMLOOPS M.D. Adams Plateau, 12 kilometres south of Pisima Mountain, between the headwaters of Bowler and China Creeks, 3 kilometres west of Scotch Creek.

CLAIMS: BC 1 to 4 and ZINC (52 units).

OWNER: Orell Copper Mines Ltd.

OPERATORS: ORELL COPPER MINES LTD., Box 457, Salmon Arm V0E 2T0 and CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.

METALS: Copper, zinc.

DESCRIPTION: Conformable bodies of massive sulphides, mostly pyrite and pyrrhotite with chalcopyrite and sphalerite, occur within a sequence of acid to intermediate fragmentals, siliceous tuffites, of the Eagle Bay Formation. Magnetite is also fairly common.

WORK DONE: Diamond drilling, 10 holes totalling 964.9 metres, on Zinc and BC 1, 2.

REFERENCES: Mineral Inventory 82M/138; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 87; Assessment Reports 5132, 6313, 6764, 6891.

RED, FIR (Fig. E-1, NTS 82, No. 220)

- LOCATION:** Lat. 51° 05' Long. 119° 24' (82M/3W)
KAMLOOPS M.D. Three kilometres east-southeast of the junction of Cross and Kwikoit Creeks.
- CLAIMS:** RED (6 units), FIR (3 units), PAT (2 units), JOE (3 units), JIM (6 units), DON (2 units), MIKE (12 units), PHIL (4 units), JERRY (10 units), ROB (6 units), MACK (6 units), ROLY (20 units).
- OWNER:** ORELL COPPER MINES LTD., Box 457, Salmon Arm V0E 2T0.
- METALS:** Silver, lead, zinc, gold, copper.
- DESCRIPTION:** A volcanic exhalative, within limy beds, overlies the Sicamous Formation. Andesitic flow rocks host the mineralization, with quartz veins being heavily mineralized. A rhyolite-breccia contact was located at the end of the 1978 field season. Trenching exposed a gossan on the southwest section of the claims. The gossan was heavily oxidized to 4.5 metres. Galena gobs were found in quartz in an oxidized vein which was trenched. Trenching of outcrops also exposed carbonates in appreciable quantities. Silver assays are in the range of 17 grams per tonne.
- WORK DONE:** Trenching, 4.5 by 3 metres on the gossan outcrop, on Fir and 9 by 9 metres on the high-grade red outcrop, on Red; surface geological mapping, covering 22 claim units on Red, Fir, Don, Joe, Jim, and Phil; magnetometer survey, 12 kilometres, covering Red, Fir, Don, Joe, Jim, and Phil.
- REFERENCES:** Mineral Inventory 82M-154; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 87; Assessment Reports 2776 (Marge), 6388.

BECA (TOM, GLEN, RHODE ISLAND) (Fig. E-1, NTS 82, No. 235)

- LOCATION:** Lat. 51° 01' Long. 119° 42' (82M/4E)
KAMLOOPS M.D. On the east side of Adams Lake, extending southward from a point opposite Skwaam Bay.
- CLAIMS:** BECA 1 to 11 (71 units).
- OWNER:** COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.
- METALS:** Copper, lead, zinc, silver, gold.
- DESCRIPTION:** The claims are underlain by a diverse suite of volcanic rocks, ranging from basalt to rhyolite. Base and precious metal mineralization occurs as pyritic disseminations to narrow sulphide lenses mainly within andesite.
- WORK DONE:** 1977 – surface geological mapping, 1:20 000, covering Beca 1-9; geochemical survey, 11 rock samples covering Beca 1, 7, 9, 27 silt samples covering Beca 3, 5, 9, and 325 soil samples covering Beca 5, 9; 1978 – surface geological mapping, 1:5000, covering Beca 5-8, 10, 11; induced polarization survey, 7.7 kilometres, covering Beca 2, 4, 5, 9; electromagnetic survey, 10 kilometres, and magnetometer survey, covering Beca 7, 8; geochemical survey, 1 146 soil samples analysed for

copper, lead, and zinc, 455 soil samples analysed for barite, and 31 rock samples analysed for copper lead, zinc, and barite, covering Beca 5-8, 10, 11.

REFERENCES: Mineral Inventory 82M-54, 55, 113; *Minister of Mines, B.C.*, Ann. Rept., 1967, p. 134; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1973, p. 113; Assessment Reports 1114, 4504, 6680, 6801, 7040, 7112.

OCT (Fig. E-1, NTS 82, No. 221)

LOCATION: Lat. 51° 03' Long. 119° 35' (82M/4E)
KAMLOOPS M.D. Adams Plateau, from the headwaters of Spillman Creek southeastward to Bowler Creek and northward to Gilfrid Lake.

CLAIMS: OCT 1 to 6 (110 units), OC 1 to 4 (65 units), AXL 1 (20 units).

OWNERS: Queenstake Resources Ltd. and Norman Newsom.

OPERATOR: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Copper, lead, zinc, silver.

DESCRIPTION: Thin lenses of massive galena-sphalerite-pyrite occur in quartz-sericite schist. The host rocks are metavolcanic and metasedimentary rocks of the Eagle Bay Formation, presumed to be Late Paleozoic in age.

WORK DONE: Reconnaissance geological mapping, 1:20 000 (85 square kilometres); horizontal loop electromagnetic survey, 10 kilometres; and geochemical survey, 419 soil samples analysed for copper, lead, zinc, and silver, covering AXL 1, OCT 1, 2, 4, and OC 2.

REFERENCES: Mineral Inventory 82M-13, 18, 68; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 89; Assessment Reports 45, 3220, 4936, 5176, 6513, 7019.

MOSQUITO KING (Fig. E-1, NTS 82, No. 222)

LOCATION: Lat. 51° 04' Long. 119° 31' (82M/4E)
KAMLOOPS M.D. Adams Plateau, 5 kilometres south-southeast of Pisima Mountain, east of the headwaters of Nikwikwaia Creek.

CLAIMS: MK 1 (20 units), MK 2 (10 units), MK 3 (12 units), MK 4 (4 units), A1-1, A2-1, FOX (4 units), HILTEC 1 and 2 (2 units).

OWNER: Orell Copper Mines Ltd.

OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.

METALS: Zinc, lead, silver, (gold, copper).

DESCRIPTION: Conformable bodies of massive sulphides, mostly sphalerite, galena, pyrrhotite, pyrite, and minor chalcopyrite, up to 2 metres thick, occur within a thick tuffite horizon which also contains occasional thin limestone beds. Indicated ore reserves on the A1 and A2 claims are 37 800 tonnes grading 75.5 grams per tonne silver, 2.65 per cent lead, and 3.8 per cent zinc.

WORK DONE: Diamond drilling, 2 BQ holes totalling 275 metres, on MK 1 and 2; pulse electromagnetic survey, 25 kilometres, covering all claims; VLF--EM, magnetometer, and Vector electromagnetic surveys, 7.5 kilometres each; surface geological mapping, 1:5000; and geochemical survey, 55 soil samples analysed for copper, lead, and zinc, covering Hiltec 1 and 2.

REFERENCES: Mineral Inventory 82M-16, 140; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 88-E 90 (Hiltec and MK, Oro); Assessment Reports 45, 69, 70, 3220, 4932, 5176, 6349, 6420, 6788, 6913.

CHRIS (Fig. E-1, NTS 82, No. 233)

LOCATION: Lat. 51° 11' Long. 119° 40' (82M/4E)
KAMLOOPS M.D. Four kilometres northwest of the mouth of Brennan Creek, at Adams Lake.

CLAIM: CHRIS (12 units).

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

DESCRIPTION: A sequence of quartzites and graphitic argillites underlie the claims. These rocks are part of the Eagle Bay Formation of Late Paleozoic age.

WORK DONE: Horizontal loop electromagnetic survey, 2.5 kilometres; geochemical survey, 100 soil samples; diamond drilling, 100 metres, on Chris.

BU (Fig. E-1, NTS 82, No. 229)

LOCATION: Lat. 51° 00.5' Long. 119° 50' (82M/4W)
KAMLOOPS M.D. Eight kilometres southwest of Skwaam Bay, on the north side of Bush Creek.

CLAIMS: BU 1 to 3 (50 units).

OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.

DESCRIPTION: The property straddles the contact between black argillite and limestone of the Sicamous Formation and acid to intermediate volcanic rocks of the overlying Eagle Bay Formation. Outcrop is rather sparse but the contact is defined as trending between the northwest and northeast corners of the group.

WORK DONE: EM-16 survey, 5 kilometres; magnetometer survey, 5 kilometres; and geochemical survey, 100 samples, covering BU 3.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 92; Assessment Report 6675.

CI (Fig. E-1, NTS 82, No. 230)

LOCATION: Lat. 51° 02' Long. 119° 49' (82M/4W)
KAMLOOPS M.D. Five kilometres southwest of Skwaam Bay, at the headwaters of Cicero Creek.

CLAIMS: CI 1 (12 units), CI 2 (20 units).
 OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.
 DESCRIPTION: The property is underlain by acid to intermediate volcanic rocks of the Eagle Bay Formation, including cherty bedded tuffites, except for a small area of graphitic shaly limestone of the Sicamous Formation in the southeast corner. Overburden is thin but outcrop is relatively sparse.
 WORK DONE: EM-16 survey, 3 kilometres; magnetometer survey, 3 kilometres; and geochemical survey, 60 samples, covering CI 2.
 REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 92 (Pine); Assessment Report 6890.

NC (Fig. E-1, NTS 82, No. 228)

LOCATION: Lat. 50° 04' Long. 119° 51' (82M/4W)
 KAMLOOPS M.D. At the headwaters of Homestake Creek, 4 kilometres west-southwest of Skwaam Bay.
 CLAIMS: NC 1 to 3 (56 units).
 OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.
 DESCRIPTION: The property is underlain by rhyolite, graphitic argillite, andesite, and possibly tufa of the Middle Eagle Bay Formation and by Tshinikin limestone.
 WORK DONE: 1977 — geochemical survey, 500 soil samples analysed for copper, lead, and zinc, covering NC 1, 2; 1978 — geochemical survey, 120 samples, and magnetometer survey, 6 kilometres, covering NC 3.
 REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 91; Assessment Report 6671.

FM (Fig. E-1, NTS 82, No. 227)

LOCATION: Lat. 51° 04' Long. 119° 58' (82M/4W)
 KAMLOOPS M.D. On Mount Fadear and eastward.
 CLAIMS: FM 1 (20 units), FM 2 (8 units).
 OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.
 DESCRIPTION: The property is underlain by rhyolite, graphitic argillite, andesite, and tufas of the Eagle Bay Formation, overlying or intruded by ultrabasic rocks.
 WORK DONE: Diamond drilling, 3 AQ holes totalling 285 metres, on FM 2.
 REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 92; Assessment Report 6747.

AGATE (TRYME) (Fig. E-1, NTS 82, No. 231)

LOCATION: Lat. 51° 05' Long. 119° 47' (82M/4W)
KAMLOOPS M.D. On the north side of Skwaam Bay, on the west side of Adams Lake.

CLAIMS: BAY 1 to 5 (32 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: (Copper, lead, zinc, silver).

DESCRIPTION: Volcanic and sedimentary rocks of the Paleozoic Eagle Bay Formation underlie the property. Alteration zones within acid volcanic rocks are visually prominent.

WORK DONE: 1977 — surface geological mapping, 1:20 000, covering Bay 1-4; geochemical survey, 396 rock samples analysed for mercury, copper, lead, and zinc, covering Bay 1-4, and 139 soil samples analysed for copper, lead, and zinc, covering Bay 1; 1978 — induced polarization survey, 7.56 kilometres, and geochemical survey, 611 soil samples analysed for copper, lead, zinc, and barite, covering Bay 1 and 2.

REFERENCES: Mineral Inventory 82M-53; *Minister of Mines, B.C.*, Ann. Rept., 1924, p. 157; 1961, p. 53; 1966, p. 145; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 86; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 57; Assessment Reports 1114, 2915, 4134, 4135, 5226, 6684, 7123.

MULE (Fig. E-1, NTS 82, No. 225)

LOCATION: Lat. 51° 07' Long. 119° 52' (82M/4W)
KAMLOOPS M.D. Two kilometres south of the confluence of Sinmax and Johnson Creeks.

CLAIM: MULE (8 units).

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

DESCRIPTION: The claims are underlain by quartzite and argillite of the Eagle Bay Formation.

WORK DONE: Linecutting, 8 kilometres; horizontal loop electromagnetic survey, 8 kilometres; and geochemical survey, 200 samples, covering Mule.

DEBBI (Fig. E-1, NTS 82, No. 226)

LOCATION: Lat. 51° 08' Long. 119° 56' (82M/4W)
KAMLOOPS M.D. Three kilometres south of Dixon Lake.

CLAIM: DEBBI (9 units).

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

METAL: (Copper).

DESCRIPTION: Minor chalcopyrite is found in a crosscutting quartz vein. Rock types on the claims are mafic volcanic lapilli tuffs, graphitic argillites, and quartzites.

WORK DONE: Diamond drilling, 45.7 metres, on Debbi.

1978

(82M/4W)

LYLA (Fig. E-1, NTS 82, No. 224)

LOCATION: Lat. 51° 11' Long. 119° 57' (82M/4W)
KAMLOOPS M.D. Two kilometres north of Dixon Lake.

CLAIM: LYLA (12 units).

OPERATOR: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

DESCRIPTION: The claims are underlain by metamorphosed volcanic and sedimentary rocks of the Eagle Bay Formation. Rock types present include graphitic argillite, andesite, and rhyolite. No mineralization was found.

WORK DONE: Linecutting, 8 kilometres; 40 soil samples collected; horizontal loop electromagnetic survey, 8 kilometres; and diamond drilling, 38.7 metres, on Lyla.

STAKE (Fig. E-1, NTS 82, No. 232)

LOCATION: Lat. 51° 09' Long. 119° 52' (82M/4W)
KAMLOOPS M.D. On the north side of Sinmax Creek, at Johnson and Alex Creeks.

CLAIMS: STAKE 1 (9 units), STAKE 2 (9 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

DESCRIPTION: Mafic volcanic rocks predominate on the property. There is no evidence of economic mineralization.

WORK DONE: 1977 — surface geological mapping, 1:20 000, and geochemical survey, 8 silt and 15 rock samples, covering both claims.

REFERENCE: Assessment Report 6679.

ANACONDA, LYNX (Fig. E-1, NTS 82, No. 240)

LOCATION: Lat. 51° 19.5' Long. 119° 55' (82M/5W)
KAMLOOPS M.D. Thirty-one kilometres south-southwest of Vavenby, on Bird Creek, immediately northwest of the Barriere River.

CLAIMS: BET 1 to 5 (45 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: Copper, lead, zinc, silver.

DESCRIPTION: Disseminated pyrite, sphalerite, chalcopyrite, galena, and massive bedded pyrite occur in felsic volcanic rocks of the Paleozoic Eagle Bay Formation.

WORK DONE: Induced polarization and VLF—EM surveys, 8.22 kilometres, covering Bet 1 and 3; diamond drilling, 6 BQ holes totalling 772.2 metres, on Bet 1 and 3.

REFERENCES: Mineral Inventory 82M-67; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 61; Assessment Reports 69, 70, 3333, 6202, 6802, 6879.

B&B (Fig. E-1, NTS 82, No. 239)

LOCATION: Lat. 51° 20' Long. 119° 49' (82M/5W)
KAMLOOPS M.D. Thirty kilometres south of Vavenby, on the southeast side of North Barriere Lake.

CLAIMS: LESLY (9 units), TG 1 (9 units).

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: (Copper, lead).

DESCRIPTION: Minor chalcopyrite and pyrrhotite are associated with chloritic mafic metavolcanic rocks and limestone. The mineralization occurs in Eagle Bay Formation rocks in proximity to the Baldy batholith, and appears to be skarn type. Minor galena in carbonate gangue has been found in float.

WORK DONE: Linecutting, horizontal loop electromagnetic survey, and magnetometer survey, 10 kilometres each; and geochemical survey, 400 samples, covering both claims; diamond drilling, 100 metres, on Lesly.

REFERENCES: Mineral Inventory 82M-110; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 314; Assessment Reports 2679, 3884.

ENARGITE, NORTH STAR (Fig. E-1, NTS 82, No. 238)

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.

CLAIMS: ENARGITE 1 to 40.

OWNER: Kam Creek Mines Ltd.

OPERATORS: D. L. RABBITT and R. A. RABBITT, Malakwa.

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

WORK DONE: Trenching, 657 metres by 4 metres, on Enargite 1-6.

REFERENCES: Mineral Inventory 82M-64, 65; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 63.

KATHY (Fig. E-1, NTS 82, No. 234)

LOCATION: Lat. 51° 17' Long. 119° 41' (82M/5E)
KAMLOOPS M.D. At the headwaters of John Creek, 3 kilometres northwest of East Barriere Lake.

CLAIM: KATHY (16 units).

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

METAL: (Copper).

DESCRIPTION: Most of the claim area is underlain by metamorphosed sedimentary rocks of the Eagle Bay Formation, mainly quartzites and argillites. Minor chalcopyrite and pyrrhotite occur in small quartz veins on the property.

WORK DONE: Linecutting, 8 kilometres; horizontal loop electromagnetic survey, 8 kilometres; and geochemical survey, 200 soil samples, covering Kathy.

BEX (Fig. E-1, NTS 82, No. 237)

LOCATION: Lat. 51° 17' Long. 119° 44' (82M/5E)
 KAMLOOPS M.D. On John Creek, 2 kilometres southeast of its mouth at East Barriere Lake.

CLAIM: JAY (4 units).

OWNERS: J. A. FENNELL and A. J. FENNELL, Box 189, Barriere.

METAL: Copper.

DESCRIPTION: The claim area lies within Paleozoic metasedimentary rocks close to a poorly defined contact with the granitic Baldy batholith. Mineralization is mainly pyrrhotite, as nearly massive bands with associated chalcopyrite, or as disseminations.

WORK DONE: 1977 — surface geological mapping, covering Jay.

REFERENCES: Mineral Inventory 82M-10; Assessment Reports 1634, 1870, 3432, 6720.

HILLTOP, FILL (Fig. E-1, NTS 82, No. 236)

LOCATION: Lat. 51° 29' Long. 119° 37' (82M/5E)
 KAMLOOPS M.D. Fourteen kilometres south-southeast of Vavenby, at the headwaters of Otter (Gollen) Creek.

CLAIM: LUCKY STRIKE (4 units).

OWNER: J. A. FENNELL, Box 463, Barriere.

METALS: Copper, zinc.

DESCRIPTION: The claim area is underlain by limestone, feldspar gneiss, and limy phyllite. Sulphide mineralization, in approximate decreasing order of abundance and distribution, includes pyrite, pyrrhotite, chalcopyrite, and sphalerite.

WORK DONE: Topographic mapping, 2.8 hectares; surface geological mapping, 1:1000; 11 samples collected, covering Lucky Strike.

REFERENCES: Mineral Inventory 82M-114; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 63; Assessment Reports 3430, 5929, 6792.

T, SNAKE EYES (Fig. E-1, NTS 82, No. 241)

LOCATION: Lat. 51° 27' Long. 118° 50' (82M/7W)
 KAMLOOPS M.D. Sixty-eight kilometres north-northeast of Revelstoke, 4 kilometres east of the Seymour River, between Blais Creek and the northwest slope of Mount Grace.

CLAIMS: T (20 units), SNAKE EYES (10 units), BLACK JACK (6 units), COTTON (6 units).

OWNER: United Mineral Services Ltd.

OPERATORS: CYPRUS ANVIL MINING CORPORATION, 330, 355 Burrard Street, Vancouver V6C 2G8 and METALLGESELLSCHAFT CANADA LIMITED, 824, 602 West Hastings Street, Vancouver V6B 1P2.

METALS: Lead, zinc, silver, (copper).

DESCRIPTION: The mineralization comprises predominantly stratabound, massive to disseminated lead-zinc mineralization in a carbonate-rich sequence of the Shuswap Complex. Three types of sulphide horizons can be categorized as: (a) massive sulphide; (b) rhythmic layers of ore minerals and carbonates/silicates; and (c) disseminated sulphides. Minerals present are: sphalerite, galena, pyrrhotite, and magnetite with rare chalcopyrite and pyrite.

WORK DONE: Pulse electromagnetic survey, 300 metres deep; diamond drilling, 2 holes totalling 517 metres; and 1 borehole, on T.

REFERENCES: Mineral Inventory 82M-153; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 93; Assessment Reports 486, 768, 958, 1768, 2637, 4367, 6207, 6888, 7007.

KS (Fig. E-1, NTS 82, No. 242)

LOCATION: Lat. 51° 28' Long. 118° 21' (82M/8W)
REVELSTOKE M.D. Fifty-three kilometres north of Revelstoke, east of the settlement of Downie Creek, lying between Keystone Peak, Downie Creek, and the Columbia River.

CLAIMS: JEN 2 (20 units), JEN 3 (16 units), JEN 4 (16 units), JEN 5 (18 units), JEN 6 (8 units), JEN 13 (20 units), JEN 14 (20 units), JEN 15 (20 units), STONE 1 (20 units), STONE 2 (18 units), STONE 4 (8 units), STONE 5 (20 units).

OWNER: CANADIAN NICKEL COMPANY LIMITED, 160, 10451 Shellbridge Way, Richmond V6X 2W8.

METALS: Lead, zinc, silver, copper.

DESCRIPTION: Galena, sphalerite, pyrite, pyrrhotite, and minor chalcopyrite occur in pods and stringers within a sequence of sericite and chlorite schists, with occasional graphitic and carbonate-rich horizons.

WORK DONE: Linecutting, 1.5 kilometres, and geochemical sampling of rock sections, approximately 100 samples analysed for lead, zinc, and silver, covering Jen 2 and 5.

REFERENCES: Mineral Inventory 82M-146; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 96; Assessment Report 6603.

O'REILLY (Fig. E-1, NTS 82, No. 243)

LOCATION: Lat. 51° 32' Long. 118° 25' (82M/9W)
REVELSTOKE M.D. Fifty-eight kilometres north of Revelstoke, 4 kilometres north of Downie Creek, between Cariboo and Granite Creeks.

CLAIM: O'REILLY 1 (20 units) (lapsed October 1978).

OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.

METAL: (Copper).

1978

(82M/9W)

DESCRIPTION: The property is underlain by a thick sequence of metasedimentary rocks consisting of banded quartz-mica schist, massive grey quartzite, micaceous quartzite, and graphite phyllite. Mineralization is sparse.

WORK DONE: Prospecting, covering O'Reilly 1.

REFERENCES: Mineral Inventory 82M-148; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 68; Assessment Report 6103.

MONTGOMERY (Fig. E-1, NTS 82, No. 244)

LOCATION: Lat. 51° 33' Long. 118° 18' (82M/9W)
REVELSTOKE M.D. Sixty-one kilometres north of Revelstoke, on Downie Peak, between the headwaters of Long and Boulder Creeks.

CLAIMS: KJ 1 to 20.

OWNER: CENT PAC DEVELOPMENT INC., 1190, 700 West Georgia Street, Vancouver.

METALS: Copper, zinc, gold, silver, lead.

DESCRIPTION: The claims are located within an area comprised of Lower Cambrian quartzite, limestone, phyllite, and argillite in addition to schists of the Hamill Group of rocks. There are at least three extensively mineralized areas.

WORK DONE: 1977 — surface geological mapping, 1:2400, covering all claims.

REFERENCES: Mineral Inventory 82M-85; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, pp. E 67, E 68; Assessment Reports 5810, 6712.

PAT (Fig. E-1, NTS 82, No. 245)

LOCATION: Lat. 51° 38' Long. 118° 25' (82M/9W)
REVELSTOKE M.D. Seventy-three kilometres north of Revelstoke along the Goldstream River, extending east and west of its confluence with French Creek.

CLAIMS: PAT 32, 33, 48, 60, PAT 100 (20 units), PAT 300 (20 units), PAT 1100 (12 units).

OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.

METAL: Copper.

WORK DONE: 1977 — gravity survey, 5.05 kilometres, over portal area; diamond drilling, 9 AQ holes totalling 941 metres, on all claims.

REFERENCES: Mineral Inventory 82M-141; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 69; Assessment Reports 6188, 6696.

BUN (Fig. E-1, NTS 82, No. 246)

LOCATION: Lat. 51° 41' Long. 118° 37' (82M/10E)
REVELSTOKE M.D. Along the east side of the Columbia River, from Nicholls Creek south to Old Goldstream Creek.

1978

(82M/11W)

CLAIMS: Sixty-six Crown-granted lots contained within Tree Farm Licence No. 38 and BUN 1 to 15 (209 units) (reduced to BUN 3, 6, 8, 12 to 15, 100 units).

OWNER: Beaumont Timber Co. Ltd.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: (Copper, lead, zinc).

DESCRIPTION: Traces of base metal mineralization occur in a cherty iron formation unit which is present within Lower Cambrian sedimentary and minor volcanic rocks.

WORK DONE: 1977 – geochemical survey, 535 soil and 100 silt samples, covering all claims; 1978 – airborne electromagnetic and magnetometer survey, 672 kilometres, covering all claims; electromagnetic surveys, VLF, 2.7 kilometres, max-min, 17.7 kilometres, Crone, 1.9 kilometres; magnetometer survey, 27.8 kilometres; and diamond drilling, 6 BQ holes totalling 623 metres, on L. 74-11, L. 73-14, L. 59-15, and L. 79-32.

REFERENCE: Assessment Report 6721.

CARIBOO (Fig. E-1, NTS 82, No. 247)

LOCATION: Lat. 51° 36' Long. 119° 21' (82M/11W)
KAMLOOPS M.D. Twenty-eight kilometres east of Vavenby, on the south fork of Otter Creek, 8 kilometres north-northwest of Mica Lake.

CLAIM: SONJA 10 (3 units).

OWNER: ROBERT J. FRANKS, Box 70, Vavenby V0E 3A0.

METALS: Copper, molybdenum, gold.

DESCRIPTION: Copper and molybdenum occur in a volcanic rock which shows a residual brown rust in the soil below the deposit which may indicate a large deposit of the above mineral. At the top there is a vein of copper and molybdenum striking east-west.

WORK DONE: Five trenches totalling 17 metres and 2 test holes, on Sonja 10.

REFERENCES: Mineral Inventory 82M-39; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 228.

VM (Fig. E-1, NTS 82, No. 250)

LOCATION: Lat. 51° 31' Long. 119° 44' (82M/12E)
KAMLOOPS M.D. Seven kilometres south of Vavenby, on the divide between Avery Creek and Barriere River (Saskum Creek).

CLAIMS: AV 1 (18 units), AV 2 (15 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METAL: Copper.

DESCRIPTION: Pyrite and chalcopyrite are disseminated in quartz-eye rhyolite of the Paleozoic Eagle Bay Formation. The rhyolite grades (?) downward into granodiorite gneiss and is overlain by graphitic argillite.

WORK DONE: Geochemical survey, 750 soil samples analysed for copper, lead, zinc, and silver, and geological mapping, 1:10 000, covering both claims.

REFERENCES: Mineral Inventory 82M-109; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1971, p. 442; 1972, p. 90; Assessment Reports 2988, 3195, 3525, 6878.

VAV (Fig. E-1, NTS 82, No. 251)

LOCATION: Lat. 51° 35' Long. 119° 37' (82M/12E)
KAMLOOPS M.D. Six kilometres east of Vavenby, south of Reg Christie Creek and east of Chuck Creek.

CLAIMS: PIPE 1 (20 units), PIPE 2 (20 units), PIPE 5 (20 units), EXHALITE 2 (20 units).

OWNER: BARRIER REEF RESOURCES LTD., 904, 675 West Hastings Street, Kamloops.

METAL: Copper.

DESCRIPTION: The property is underlain by metasedimentary and metavolcanic rocks of the Eagle Bay Formation. Mineralization consists of disseminated, fine-grained chalcopyrite along foliation planes and on fractures in the phyllites and quartz-chlorite-sericite schists.

WORK DONE: Surface geological mapping, 1:4800 and 1:10 000, covering Pipe 1, 2 and Exhalite 2; geochemical survey, 431 soil samples analysed for copper and uranium and 100 rock samples analysed for copper and molybdenum; ground scintillimeter survey, 13 kilometres; and percussion drilling, 5 holes totalling 363 metres, on Pipe 1 and 2.

REFERENCES: Mineral Inventory 82M-151, 152; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 72; Assessment Reports 5909, 6933, 7119.

GABRO (Fig. E-1, NTS 82, No. 248)

LOCATION: Lat. 51° 39' Long. 119° 38' (82M/12E)
KAMLOOPS M.D. Ten kilometres northeast of Vavenby, in the riverbed of the North Thompson River, near Irvine station.

CLAIM: SONJA 11 (2 units).

OWNER: ROBERT J. FRANKS, Box 70, Vavenby V0E 3A0.

METALS: Gold, copper, silver, tungsten, (uranium ?).

DESCRIPTION: Copper, gold, and silver occur in an intrusive rock exposed in the bottom of the North Thompson River over a large area, visible in the fall when the water is low. Copper and tungsten mineralization occurs on the south side of newly built road (Forestry Road No. 30) above the river.

WORK DONE: Sidehill cut above road, 50 metres long and 12-15 metres wide, on Sonja 11 (unit 2).

REFERENCES: Mineral Inventory 82M-128; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 91.

TOREADOR (Fig. E-1, NTS 82, No. 254)

LOCATION: Lat. 51° 35' Long. 119° 53' (82M/12W)
KAMLOOPS M.D. Two kilometres east-southeast of Birch Island, on the south side of the North Thompson River, between Clay and Lute Creeks.

CLAIMS: TOREADOR 1 (18 units), TOREADOR 2 (4 units).

OWNER: HIGHMONT MINING CORP. LTD., 1400, 1199 West Hastings Street, Vancouver.

METAL: (Copper).

DESCRIPTION: To the east of Clay Creek, pinkish grey tuffs, fragmental rocks, and intrusive porphyries outcrop. Pyrite and minor chalcopyrite occur throughout the unit as fine disseminations.

WORK DONE: 1977 – ground electromagnetic survey, 6.8 kilometres; ground scintillometer survey, 15.5 kilometres; and geochemical survey, 287 soil samples, covering Toreador 1.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 73; Assessment Reports 6161, 6773.

SONJA (BRENDA) (Fig. E-1, NTS 82, No. 249)

LOCATION: Lat. 51° 36' Long. 119° 51' (82M/12W)
KAMLOOPS M.D. Between Vavenby and Birch Island, on the north side of the North Thompson River near the mouth of Crossing Creek.

CLAIM: SONJA 4 (1 unit).

OWNER: ROBERT J. FRANKS, Box 70, Vavenby V0E 3A0.

METALS: Gold, silver, copper.

DESCRIPTION: The claim is underlain by granitic rock.

WORK DONE: Pit, 2 metres wide by 6 metres long; trench, 8 metres long, 2 metres wide, and 0.25 metre deep; stripping, 3 metres long, 3 metres wide, and 0.5 metre deep, on Sonja 4.

REFERENCES: Mineral Inventory 82M-36; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 91; Assessment Report 436.

SNOW (Fig. E-1, NTS 82, No. 252)

LOCATION: Lat. 51° 37' Long. 119° 49' (82M/12W)
KAMLOOPS M.D. Sixteen kilometres northeast of the village of Birch Island, on Mount McClelland and southward to the North Thompson River.

CLAIMS: NIMSIC, NIMSIC 2 (6 units), NIMSIC 3 (10 units), NIMSIC 4 (10 units), NIMSIC 5 (10 units), NIMSIC 6 (20 units), NIMSIC 11 (6 units), NIMSIC 12 (2 units), QUARTZ 1 (20 units), QUARTZ 2 (20 units), QUARTZ 4 (6 units), QUARTZ 5 (12 units).

OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Vancouver V2C 2E2.

1978

(82M/12; 92P/9E)

METALS: Lead, zinc, copper, gold, silver.
DESCRIPTION: Thin, conformable bodies of massive sulphides occur within tuffites and fragmental rocks of the Eagle Bay Formation.
WORK DONE: Road construction, 3 kilometres, and diamond drilling, 5 AQ holes totalling 382.9 metres, on Nimsic 1, 3, 4; electromagnetic survey, 42 kilometres, and magnetometer survey, 42 kilometres, covering Nimsic, Nimsic 1-4.
REFERENCES: Mineral Inventory 82M-45; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 101; Assessment Reports 436, 5813, 6174, 6603, 6931.

CW (Fig. E-1, NTS 82, No. 253)

LOCATION: Lat. 51° 37' Long. 120° 00' (82M/12W; 92P/9E)
KAMLOOPS M.D. Centred 5 kilometres southeast of Clearwater.
CLAIMS: CW 1 to 5, SONJA 5, 6, 9.
OPERATOR: CRAIGMONT MINES LIMITED, 270, 180 Seymour Street, Kamloops V2C 2E2.
METAL: (Copper).
DESCRIPTION: Silicification and pyritization, with minor chalcopyrite, occur within the basal unit of the Eagle Bay Formation.
WORK DONE: Electromagnetic survey, 10 kilometres, and magnetometer survey, 10 kilometres, covering CW 1; diamond drilling, 5 BQ holes totalling 498.5 metres, on CW 1 and 2.
REFERENCES: Mineral Inventory 82M-159; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 101; Assessment Report 6862.

BOULDER (Fig. E-1, NTS 82, No. 255)

LOCATION: Lat. 51° 50' Long. 119° 41' (82M/13E)
KAMLOOPS M.D. Thirty kilometres north-northeast of Birch Island, 4 kilometres due north of Silence Lake, on Maxwell Creek.
CLAIMS: GOTCHA (1 unit), GOTCHA 2 (9 units), MAX 1 (1 unit), MAX 2 (1 unit).
OWNER: UNITED MINERAL SERVICES LTD., 1326, 510 West Hastings Street, Vancouver V6B 1L8.
METAL: Tungsten.
DESCRIPTION: At least two parallel scheelite-bearing skarn bands have been exposed within an assemblage of metasedimentary gneisses, quartzite, marble, and minor amphibolite. The metamorphic rocks have been intruded by dykes, sills, and small irregular bodies of granitic rocks. Strong faulting and folding of the metasedimentary rocks hinder geological interpretation.
WORK DONE: Road construction, 660 metres, on Max 1, 2 and Gotcha; two trenches, 1 760 cubic metres on Gotcha and 500 cubic metres on Gotcha 2; stripping, approximately 5 096 cubic metres on Gotcha and Gotcha 2; percussion drilling, 18 holes totalling 297.2 metres, on Gotcha.

REFERENCES: Mineral Inventory 82M-123; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, pp. 117, 118; Assessment Report 4270; PAC Report 8.

CK (Fig. E-1, NTS 82, No. 256)

LOCATION: Lat. 51° 55' Long. 119° 35' (82M/13E)
 KAMLOOPS M.D. Twenty-three kilometres northwest of the Avola post office, along Raft River, northward and southward from Richie Creek.

CLAIMS: CK, RAFT, NORTH, ULO (approximately 300 units and 2 post claims).

OWNER: Andy Horne.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: Zinc, lead.

DESCRIPTION: Mineralization on the property consists of stratiform sphalerite and galena enclosed in an overall host of marblés, calc-silicates, and biotite gneisses which are cut by coarse pegmatites. All the rock types are part of the Shuswap Complex.

WORK DONE: Prospecting and geochemical survey, 600 samples analysed for lead and zinc, covering mainly central part of claim group; geological mapping, 1:5000, covering central and northern parts of claim group, and 1:1000, covering CK 1-6. 84; induced polarization, VLF-EM, and magnetometer surveys, 36 kilometres each, covering CK 1-9, 11, 13, 15, 16, 47, 48, 81, 83-86 and 92 Fraction; diamond drilling, 20 holes totalling 2 110.5 metres, on CK 2, 4, 48, 84, 85, 86; trenching (sampling and assaying), 595 metres, on CK 1, 3, 11, 84.

REFERENCES: Mineral Inventory 82M-137; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 75; Assessment Reports 6756, 6909.

TRIO (Fig. E-1, NTS 82, No. 257)

LOCATION: Lat. 51° 52' Long. 119° 20' (82M/14W)
 KAMLOOPS M.D. Seven kilometres north of Avola, on the west slope of the North Thompson valley at Cottonwood Flats.

CLAIMS: HYDRO 1 to 5 (36 units).

OWNER: BARRIER REEF RESOURCES LTD., 904, 675 West Hastings Street, Vancouver V6B 1N2.

METALS: Copper, molybdenum, (tungsten).

DESCRIPTION: Copper and molybdenum mineralization is found within a centrally located band of skarn hornfels, amphibolite, and lesser schists and gneisses. Copper appears to be intimately related to skarn occurrences while molybdenum, although often occurring in skarn, is always closely associated with quartz veins.

1978

(82M/15W)

WORK DONE: Grid establishment and magnetometer survey, 34 kilometres; surface geological mapping, 1:5000; geochemical survey, 354 soil samples analysed for copper, molybdenum, and tungsten, covering all claims.

REFERENCES: Mineral Inventory 82M-142; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 60; Assessment Reports 5125, 7127.

IT, TO (RUDDOCK CREEK) (Fig. E-1, NTS 82, No. 260)

LOCATION: Lat. 51° 47' Long. 118° 54' (82M/15W)

KAMLOOPS M.D. Twenty-seven kilometres east of the Avola post office, on the western slope of Gordon Horne Peak, between Oliver Creek and the headwaters of Ruddock Creek.

CLAIMS: IT 1 to 16, 27 to 30, 33, 35 to 42, 59, 61, 83 to 85, IN 2, 4, 6 to 19, TO 9 to 14, IF 1 to 7 (45 units).

OWNER: Falconbridge Nickel Mines Limited.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: Zinc, lead.

DESCRIPTION: Stratiform zinc-lead mineralization occurs within a metasedimentary sequence of biotite gneisses, marbles, and pegmatites of the Shuswap Complex.

WORK DONE: Geological mapping, 2 kilometres by 1 kilometre.

REFERENCES: Mineral Inventory 82M-82 to 84; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 102; Assessment Reports 5990, 6625.

CANOE RIVER 83D

VERITY (Fig. E-1, NTS 83, No. 1)

LOCATION: Lat. 52° 24' Long. 119° 10' (83D/6E)

KAMLOOPS M.D. Nine kilometres south of Gosnell, east of the North Thompson River and north of Serpentine Creek.

CLAIMS: VERITY 1, AR 1 (9 units), AR 2 (12 units), AR 3 (20 units), AR 4 (18 units).

OWNER: JOHN KRUSZEWSKI, 750, 320 Ninth Avenue SW., Calgary, Alberta.

METALS: Uranium, niobium.

DESCRIPTION: Uranium-bearing pyrochlore is found with numerous other minerals in crystalline dolomitized limestone interbedded with gneisses that have been injected with pegmatitic sills.

WORK DONE: 1977 – reconnaissance ground magnetometer and scintillometer survey, covering all claims; 1978 – scintillometer prospecting; trenching, 840.3 cubic metres; and sampling and analysis of two samples for uranium and rare earths, covering AR claims.

REFERENCES: Mineral Inventory 82C/D-5; *Minister of Mines, B.C.*, Ann. Rept., 1950, p. 229; Assessment Report 6741.

SOUTHWEST BRITISH COLUMBIA
(NTS Division 92 and part of 102)

VICTORIA 92B

NORTH, WEST, SOUTH, EAST (Fig. E-1, NTS 92, No. 2)

LOCATION: Lat. 48° 30.5' Long. 123° 44' (92B/12E)
VICTORIA M.D. At Leechtown, 5.5 kilometres westward along Leech River and 1.5 kilometres eastward along Old Wolf Creek.

CLAIMS: NORTH (15 units), WEST (20 units), SOUTH (15 units), EAST (20 units).

OWNERS: W. A. MORRIS, 936 Walfred Road, Victoria and M. RICHTER, RR 2, Box 8, West Coast Road, Sooke.

WORK DONE: Road building, 0.8 kilometre; one trench, 27.4 metres; and one shaft, 8.5 metres, on East; percussion drilling, 9 holes totalling 278.9 metres, and ball-mill testing, on North.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. 108 (Bill, Ski Jump); Assessment Reports 6144, 6907.

ASPEN (Fig. E-1, NTS 92, No. 1)

LOCATION: Lat. 48° 41' Long. 123° 42' (92B/12E)
VICTORIA M.D. Centred 6.5 kilometres west-northwest of Shawnigan Lake village, on the north side of the Koksilah River, astride the Canadian National Railway line.

CLAIMS: ASPEN (12 units), BIRCH (20 units).

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby, V5G 1H4.

DESCRIPTION: Sicker Group cherts and meta-andesite are intruded by Jurassic granodiorites. Some skarn and mineralization, with magnetite and chalcopryrite, are present on the adjacent Crown-granted claims (King Solomon mine).

WORK DONE: Geological mapping, 200-metre grid, and geochemical survey, approximately 700 soil samples analysed for copper, lead, and zinc, covering both claims.

BLAZE (Fig. E-1, NTS 92, No. 4)

LOCATION: Lat. 48° 31' Long. 123° 53' (92B/12W)
VICTORIA M.D. On the north side of Bear Creek reservoir.

CLAIMS: BLAZE 1 to 3 (15 units).

OWNER: ROBERT BEAUPRE, 4361 Shelbourne Street, Victoria V8N 3G4.

METALS: (Gold, silver, lead).

1978

(92B/12W)

DESCRIPTION: Quartz veins occur along foliations in Leech River schist.
WORK DONE: Four trenches, totalling 10 metres in length, and 10 rock chip samples assayed, on all claims.
REFERENCES: Mineral Inventory 92B-108; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration 1977, p. E 103; Assessment Reports 6298, 6844.

HEAVY METAL (Fig. E-1, NTS 92, No. 3)

LOCATION: Lat. 48° 39' Long. 123° 50' (92B/12W)
VICTORIA M.D. Centred 4 kilometres southeast of Waterloo Mountain, along the southwest side of the Koksilah River and westward.

CLAIMS: HEAVY METAL (16 units), METAL (16 units), HIDDEN METAL (15 units), MINI METAL (2 units), LATEM (4 units), METAL CACHE (12 units), JIM METAL (18 units), BOG METAL (4 units), METAL SOUTH (4 units), RICH METAL (6 units), DAN METAL (16 units), METAL EAST (6 units), MAXIMETAL (8 units), MAR METAL (4 units).

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

DESCRIPTION: The terrain is underlain by andesitic flows and agglomerates with minor tuffs and sediments striking northwesterly. The age of volcanic rocks is uncertain. Mineralization on the Robertson Crown grant, surrounded by the claims, consists of sphalerite, chalcopyrite, minor galena, and minor silver in veins and breccias.

WORK DONE: Geological mapping, 200 or 100-metre lines, and geochemical survey, approximately 3 500 soil samples analysed for copper, lead, and zinc, covering all claims; magnetometer, EM-16, and Crone shootback (2 frequencies) surveys, approximately 15 kilometres each, covering part of Hidden Metal.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1917, p. 269; 1928, p. 363 (Robertson); Assessment Report 6810.

LENORA, TYEE, RICHARD III (TWIN J) (Fig. E-1, NTS 92, No. 6)

LOCATION: Lat. 48° 52' Long. 123° 46' (92B/13W)
VICTORIA M.D. Straddling Big Sicker Mountain, 10 kilometres northwest of Duncan.

CLAIMS: Twenty-six Crown-granted claims including LENORA (Lot 35G), TYEE (Lot 36G), and RICHARD III (Lot 39G), plus ROCKY 1 to 4, CF 1 to 18 (30 units).

OWNER: S.E.R.E.M. LTD., 505, 850 Hastings Street, Vancouver.

METALS: Copper, zinc, lead, gold, silver, barite.

DESCRIPTION:

The property centres on an old underground mine which has been worked sporadically by various companies since the turn of the century. The initial discovery was made in 1897, with development and mining beginning on the Tyee claim in that year. Work on

the Lenora claim began in 1898, and the two claims were amalgamated by the Lenora Mount Sicker Mines Limited in 1900. Mining continued until 1907. Another company shipped a few tonnes from the Richard III claim in the same period.

Development and exploration work were done by Ladysmith-Tidewater Smelters Limited in 1926-29 and by Sheep Creek Mines Limited in 1939-40.

From 1943-47, Twin "J" Mines Limited produced copper and zinc concentrates from the consolidated group. In 1949-52, Vancouver Island Base Metals Limited rehabilitated the mine, with some production.

Some surface mining was done by the original principals of Mount Sicker Mines Limited in 1964, and the company was formed shortly thereafter. From that time until 1974 various operators explored the property, doing surface mapping and diamond drilling. In 1967 an attempt was made to extract copper from dump material by heap leaching, but it did not prove feasible.

Ore in the old mine occurred as two orebodies, more or less parallel and trending east/west. It was of massive sulphide type, containing principally copper and zinc, with minor lead and significant gold and silver. Barite is a major constituent of some ore and may be of economic interest. To date, production has been 277 408 tonnes of ore yielding 9 192 550 kilograms of copper, 20 847 570 kilograms of zinc, 1 245 756 grams of gold, and 26 166 611 grams of silver.

Orebodies occur within the Middle to Upper Paleozoic Sicker Group, associated with schists believed to be derived from acid volcanic rocks. They were similar to those now being mined by Western Mines Limited at Buttle Lake, and are hypothesized to be of Kuroko type.

Hopes of finding more ore on Mount Sicker are based on two possibilities. One is that there may be ore remaining in or near the old mine. Old mine plans and reports show a few occurrences of massive sulphides which were not exploited or followed up, and several references are made to low-grade, disseminated-type mineralization that was not of much interest in the early days. However, no specific information is available about what remains in the old mine area.

The other possibility is that there may be similar deposits elsewhere on the property. Many mineral occurrences have been found, and rocks similar to the host rocks in the mine are widespread on the flanks of Big Sicker Mountain.

WORK DONE: Topographic mapping, 28 square kilometres, and grid establishment, 55.3 kilometres, covering all claims.

REFERENCES: Mineral Inventory 92B-1 to 3; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 224; 1970, p. 291; 1972, p. 240; 1974, p. 163; *CIM*, Trans., Vol. XLVIII, 1945, pp. 294 to 308; Assessment Reports 1104, 1714, 3741, 3950, 3951, 4904, 5164, 6996.

VICTORIA, COPPER CANYON (Fig. E-1, NTS 92, No. 9)

LOCATION: Lat. 48° 52' Long. 123° 48.5' (92B/13W)
VICTORIA M.D. Straddling Chemainus River, 1 kilometre southwest of Copper Canyon.

CLAIMS: VICTORIA (Lot 21G), COPPER CANION (Lot 22G), KLONDYKE (Lot 68G).
OWNER: F. C. Loring.
OPERATORS: G. E. KINNEARD, Vancouver and A. B. L. WHITTLES, Nanaimo.
METALS: Copper, (silver, gold).
DESCRIPTION: Several pyrite-quartz veins, bearing some chalcopyrite, cut schists and Sicker Group metavolcanic rocks. Diorite is reported in the area.
WORK DONE: Geological mapping, 1:1200, and reconnaissance ground electromagnetic surveys, covering Victoria.
REFERENCES: Mineral Inventory 92B-4, 86; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 224; Assessment Reports 3099, 4626, 6972.

SEATTLE, QUEEN BEE (Fig. E-1, NTS 92, No. 8)

LOCATION: Lat. 48° 52.5' Long. 123° 47.5' (92B/13W)
 VICTORIA M.D. Copper Canyon, on Chemainus River, at the junction of Nugget Creek.
CLAIMS: SEATTLE (Lot 57G), QUEEN BEE (Lot 100G), CHEMAINUS (Lot 34G), DUNSMUIR (Lot 56G).
OWNER: Peter Postuk.
OPERATOR: POSTUK & ASSOCIATES, 3086 Gibbins Road, Duncan.
METALS: Zinc, copper, gold, silver.
DESCRIPTION: Mineralization occurs in sheared volcanic rocks of the Sicker Group and is thought to be associated with a system of diorite-gabbro dykes and intrusive quartz porphyry.
WORK DONE: Prospecting; geological mapping; trenching, 1 metre by 10 metres; and geophysical survey, 3 kilometres.
REFERENCES: Mineral Inventory 92B-88; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 104.

PAUPER (SHARON, COPPER, MONS) (Fig. E-1, NTS 92, No. 14)

LOCATION: Lat. 48° 52.5' Long. 123° 50' (92B/13W)
 VICTORIA M.D. On the west side of Holyoak Creek, 2 kilometres south of Holyoak Lake.
CLAIM: BRENT 1 (10 units) (restaking of MONS 1).
OWNER: ESSO MINERALS CANADA LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.
METALS: Copper, gold, silver.
DESCRIPTION: The claim is underlain by steeply dipping sericite and quartz augen sericite schists of the Sicker Group cut by Sicker diorite and gabbro sills and dykes. The mineralization is pyrite-chalcopyrite disseminations, apparently stratabound.

1978

(92B/13W)

WORK DONE: Surface diamond drilling, 1 BQ hole totalling 93 metres; electromagnetic survey, 7 kilometres; and self-potential survey, 4 kilometres, covering Brent 1.

REFERENCES: Mineral Inventory 92B-40; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 105.

HOPE (Fig. E-1, NTS 92, No. 11)

LOCATION: Lat. 48° 52.5' Long. 123° 52' (92B/13W)
VICTORIA M.D. Four kilometres north of Chemainus River and 3 kilometres south-southwest of Mount Brenton, on the west side of Humbird Creek.

CLAIM: HOPE (8 units).

OWNER: J. R. Deighton.

OPERATOR: UTAH MINES LTD., 1600, 1050 West Pender Street, Vancouver V8E 2S7

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

DESCRIPTION: The claim is underlain by a foliated sequence of Sicker Group volcanic and sedimentary rocks that contain disseminations and/or lenses or bands of sulphides.

WORK DONE: Geological mapping, 1:1250, and electromagnetic survey, 4 kilometres.

REFERENCES: Mineral Inventory 92B-110; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 105.

TWIN G (Fig. E-1, NTS 92, No. 7)

LOCATION: Lat. 48° 53' Long. 123° 47' (92B/13W)
VICTORIA M.D. Approximately 6.5 kilometres southwest of Chemainus on the south side of Chemainus River.

CLAIM: TWIN G (8 units).

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

DESCRIPTION: The claim area is underlain by Sicker Group meta-andesite and meta-rhyolite and by gabbro.

WORK DONE: Geological mapping, and geochemical survey, 158 soil samples analysed for copper, lead, and zinc.

REFERENCE: Assessment Report 6807.

FAITH (Fig. E-1, NTS 92, No. 10)

LOCATION: Lat. 48° 53' Long. 123° 49' (92B/13W)
VICTORIA M.D. Approximately 1.5 kilometres north of the junction of Holyoak Creek and Chemainus River.

CLAIM: FAITH (6 units).
 OWNER: J. R. Deighton.
 OPERATOR: UTAH MINES LTD., 1600, 1050 West Pender Street, Vancouver V8E 3S7.
 DESCRIPTION: The claim is underlain by a foliated sequence of Sicker Group volcanic and sedimentary rocks which have been intruded by diorite.
 WORK DONE: Geological mapping, 1:1250, and electromagnetic survey, 1 kilometre.
 REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 104, E 105; Assessment Report 6699.

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

LOCATION: Lat. 48° 53.5' Long. 123° 49.5' (92B/13W)
 VICTORIA M.D. On the east side of Holyoak Creek, immediately southeast of Holyoak Lake.
 CLAIMS: QQ 1, QQ 2 (10 units).
 OWNER: ESSO MINERALS CANADA LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.
 DESCRIPTION: Outcrop on the claim group is very sparse, but it is thought the claims are underlain by rocks of the Sicker Group.
 WORK DONE: Road building, 185 metres, and linecutting, 1 kilometre, on QQ 1; surface diamond drilling, 1 BQ hole totalling 78 metres, and electromagnetic survey, 2.2 kilometres, covering both claims.
 REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E. 105.

OAK (HOLY) (Fig. E-1, NTS 92, No. 13)

LOCATION: Lat. 48° 53.5' Long. 123° 52' (92B/13W)
 VICTORIA M.D. Six kilometres north of Chemainus River, on the south and west sides of Mount Brenton, between Holyoak and Solly Creeks.
 CLAIMS: OAK 1 to 4 (40 units) (restaking of HOLY 1 to 4).
 OWNER: ESSO MINERALS CANADA LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.
 DESCRIPTION: The claims are underlain by a series of pyritic sericite schists and quartz augen sericite schists, rhyolite and dacitic tuffs, and graphitic argillites and tuffs of the Sicker Group. Numerous concordant and discordant small dacitic to gabbroic intrusions have also been mapped (Sicker gabbro).
 WORK DONE: Road building, 200 metres on Oak 1, 2, and 800 metres on Oak 3; diamond drilling, 1 BQ hole totalling 47 metres on Oak 2 and 2 BQ holes totalling 136 metres, on Oak 3.
 REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 105.

BEAR, MOOSE (Fig. E-1, NTS 92, No. 15)

LOCATION: Lat. 48° 53.5' Long. 123° 55' (92B/13W)
 VICTORIA M.D. From Humbird Creek, northwestward to Chipman Creek.

CLAIMS: BEAR (20 units), MOOSE (20 units), SHEEP (6 units), DEER (6 units), ELK (4 units), PIKA (4 units), PUMA (2 units).

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

DESCRIPTION: Sicker meta-andesite and meta-rhyolite are overlain by Sicker cherts and by small remnants of Nanaimo conglomerates and argillites.

WORK DONE: Geological mapping, 200 and 100-metre lines, covering Bear, Elk, Deer, Puma, Moose; geochemical survey, approximately 1 800 soil samples analysed for copper, lead, and zinc, covering all claims; ground magnetometer, EM-16, and Crone horizontal loop shootback surveys, approximately 12 kilometres each, covering parts of Elk, Moose, Puma, and Bear.

VV (Fig. E-1, NTS 92, No. 16)

LOCATION: Lat. 48° 57.5' Long. 123° 56' (92B/13W)
 NANAIMO M.D. Nine kilometres west-southwest of Ladysmith, 4 kilometres north-northwest of Coronation Mountain, on the east side of Chipman Creek.

CLAIM: VV (4 units).

OWNER: ESSO MINERALS CANADA LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

DESCRIPTION: No outcrop appears on the claim, but it is believed that the property is underlain by rocks of the Sicker Group.

WORK DONE: Geochemical survey, 44 soil samples, and surface diamond drilling, 1 BQ hole totalling 100 metres, on VV.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, p. E 105.*

SUMAC (Fig. E-1, NTS 92, No. 5)

LOCATION: Lat. 48° 51' Long. 123° 44.5' (92B/13E)
 VICTORIA M.D. Nine kilometres north-northeast of Duncan, on Little Sicker Mountain.

CLAIMS: SUMAC (6 units), LARCH (10 units).

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

DESCRIPTION: Meta-andesite of Sicker age and gabbro intrusions are overlain by Nanaimo Group sedimentary rocks.

WORK DONE: Geochemical survey, approximately 400 soil samples analysed for copper, lead, and zinc, covering both claims.

CAPE FLATTERY 92C**DA (PC) (Fig. E-1, NTS 92, No. 17)**

LOCATION: Lat. 48° 51.5' Long. 125° 03' (92C/14E)
 ALBERNI M.D. Seven kilometres east-northeast of Bamfield, on the south slope of Pachena Cone.

CLAIMS: DA 1 to 7.

OWNER: Sir Michael Butler.

OPERATOR: TECK MINING GROUP LIMITED, 1199 West Hastings Street, Vancouver.

METALS: (Molybdenum, copper).

DESCRIPTION: The claims cover a quartz diorite plug which intrudes Jurassic-Cretaceous diorite. Triassic intermediate volcanic rocks outcrop in the northeastern corner of the property and further to the east. The quartz diorite is strongly pyritized and minor amounts of molybdenite and chalcopyrite occur in quartz-filled fractures in the quartz diorite and diorite.

WORK DONE: Geochemical survey, 47 soil and 12 rock chip samples analysed for copper and molybdenum, covering DA 5 and 6.

REFERENCES: Mineral Inventory 92C-82; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 258; Assessment Reports 600, 3794, 6799.

AMORE (Fig. E-1, NTS 92, No. 20)

LOCATION: Lat. 48° 57' Long. 124° 17' (92C/16W)
 VICTORIA M.D. Centred 8 kilometres north of Cowichan Lake and 3 kilometres east of Mount Buttle, at the head of Jump, McKay, and Cottonwood Creeks.

CLAIMS: AMORE 1 to 5 (approximately 60 units).

OWNER: E. SPECOGNA, Centenary Drive, RR 1, Nanaimo V9R 5K1.

METALS: Gold, silver.

DESCRIPTION: On Amore 2, a vein 3 to 30 centimetres in width occurs within silicified Sicker sedimentary rocks.

WORK DONE: Two-tonne bulk sample, from Amore 2.

REFERENCE: Mineral Inventory 92C-117.

ALLIES (MT. BUTTLE), DELPHI (JUBILEE) (Fig. E-1, NTS 92, No. 19)

LOCATION: Lat. 48° 59' Long. 124° 20' (92C/16W)
 NANAIMO M.D. Eight kilometres north of Cowichan Lake, on the northern slopes of Mount Buttle.

CLAIMS: CLOSE (20 units), DIBENEDETTO (4 units).

OWNER: Aquarius Resources Ltd.

OPERATOR: E. SPECOGNA, Centenary Drive, RR 1, Nanaimo, V9R 5K1.

METALS: Molybdenum, copper.

DESCRIPTION:

The Close claim covers the lower (northern) showings of the old Allies (Mt. Buttle) property where pyrite, molybdenite, and chalcopyrite occur in quartz-sulphide veins, ranging from 6 millimetres to 1.2 metres in width, in granodiorite. Also, minor amounts of sulphides occur as disseminations in the intrusive rock.

The present operator reports that molybdenite occurs over a much larger area than was previously reported and that radioactivity has been detected several times background, at two localities.

At the Delphi showings, mainly on the Dibenedetto claim, pyrrhotite and pyrite with minor chalcopyrite occur in quartz carbonate veins and disseminated in volcanic rocks.

WORK DONE: Prospecting, covering both claims; 1 trench, 6 metres long, and 1 rock cut, 5 metres long, on Close.

REFERENCES: ALLIES – Mineral Inventory 92C-14; *Minister of Mines, B.C.*, Ann. Rept., 1908, p. 150; 1918, p. 269; 1922, p. 243; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 107; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 9, pp. 73-76; Bull. 37, p. 60; Assessment Report 6963; DELPHI (JUBILEE) – Mineral Inventory 92C-13; *Minister of Mines, B.C.*, Ann. Rept., 1902, p. 236; 1904, p. 247; 1905, p. 215; 1908, p. 149; 1918, p. 268; 1930, p. 302; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 37, p. 60; Assessment Report 6963.

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

LOCATION: Lat. 48° 57' Long. 124° 00.5' (92C/16E)
VICTORIA M.D. Fifteen kilometres west-southwest of Ladysmith, at the head of the eastern fork of Haslam Creek.

CLAIM: YY (4 units).

OWNER: ESSO MINERALS CANADA LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

METAL: (Copper).

DESCRIPTION: Epiclastic fragmental rocks of intermediate to acidic composition are exposed together with graphitic argillite and thin acidic tuffs. Strata-bound pyrite and minor chalcopyrite have been observed.

WORK DONE: Geochemical survey, 43 soil samples, and electromagnetic survey, 2 kilometres, covering YY.

ALBERNI 92F

VILLALTA (Fig. E-1, NTS 92, No. 21)

LOCATION: Lat. 49° 06' Long. 124° 28' (92F/1W)
NANAIMO M.D. Three kilometres south-southwest of Labour Day Lake, at the headwaters of Nanaimo River.

1978

(92F/2E)

CLAIMS: VILLALTA (8 units), VILLALTA A (2 units), VILLALTA C (2 units), VILLALTA D (2 units).
OWNER: E. SPECOGNA, Centenary Drive, RR 1, Nanaimo V9R 5K1.
METALS: Gold, tungsten, zinc, iron, copper.
DESCRIPTION: The Villalta claims are located at the northwestern tip of the Nanaimo Lakes intrusive body. Mineralization occurs at the contact of the Mount Sicker sedimentary rocks and limestone, in bands within the limestone, and in dykes cutting the sedimentary rocks. Resampling in 1978 has indicated the presence of tungsten.
WORK DONE: Trenching, totalling 42 metres; 1 adit, 2 metres long; and 7 samples resampled, covering Villalta D.
REFERENCES: Mineral Inventory 92F-384; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 109.

DAISY (Fig. E-1, NTS 92, No. 24)

LOCATION: Lat. 49° 01.5' Long. 124° 41' (92F/2E)
ALBERNI M.D. Twenty-five kilometres south-southeast of Port Alberni, at the head of Corrigan and Parsons Creeks.
CLAIMS: DAISY 1, DAISY 2 (32 units).
OWNER: Daisy Kong and Golden Ram Resources Ltd.
OPERATOR: GLEN P. KONG, 212, 888 West Eighth Avenue, Vancouver.
DESCRIPTION: The claims are underlain by Karmutsen volcanic rocks which are cut by granodiorite dykes.
WORK DONE: Prospecting, covering both claims.
REFERENCE: Assessment Report 6865.

LIZARD (Fig. E-1, NTS 92, No. 23)

LOCATION: Lat. 49° 08' Long. 124° 40' (92F/2E)
ALBERNI M.D. Fourteen kilometres southeast of Port Alberni, on the south side of China Creek, at Lizard Lake.
CLAIMS: LIZARD (9 units), DINOSAUR (3 units) (partial restaking of the TASHA claim).
OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.
METAL: Gold.
DESCRIPTION: Sicker meta-andesites, cherts, and meta-dacites are overlain by sedimentary rocks (mostly Buttle Lake limestone) and intruded by Tertiary (?) quartz feldspar porphyry.
WORK DONE: Prospecting, covering both claims; geochemical survey, 18 rock chip samples, covering Lizard, and 80 soil samples analysed for silver and gold, covering part of Lizard.
REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 111; Assessment Report 6153 (Tasha).

PAMELA (Fig. E-1, NTS 92, No. 22)

LOCATION: Lat. 49° 13' Long. 124° 37' (92F/2E)
 NANAIMO M.D. Thirteen kilometres east of Port Alberni, on the north side of Cameron River, 2 kilometres southwest of Mount Arrowsmith.

CLAIM: PAMELA (4 units).

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

METAL: Copper.

DESCRIPTION: The property is underlain mostly by basalts of probable Karmutsen age. Minor chalcocite and bornite mineralization occurs in veins in tuff.

WORK DONE: Prospecting and geological mapping, covering Pamela.

MOR (Fig. E-1, NTS 92, No. 25)

LOCATION: Lat. 49° 01' Long. 124° 49' (92F/2W)
 ALBERNI M.D. On Parsons Creek, at and northeast of the Port Alberni—Bamfield road crossing.

CLAIM: MOR (1 unit).

OWNER: A. Monie (estate).

OPERATOR: R. T. McINTOSH, 404, 1550 Richmond Avenue, Victoria.

METAL: Copper.

DESCRIPTION: The claim is underlain mainly by andesite with some coarse-grained basic intrusive rock. Chalcopyrite and bornite, with minor malachite, are associated with quartz in very narrow shear zones.

WORK DONE: Prospecting, covering Mor.

REFERENCES: Mineral Inventory 92F-400; Assessment Report 6655.

PROSPER, AVON, BROOKLYN (Fig. E-1, NTS 92, No. 26)

LOCATION: Lat. 49° 24' Long. 125° 45' (92F/5)
 ALBERNI M.D. Four kilometres northeast of Bedwell Sound, on Bedwell River.

CLAIMS: BROOKLYN (Lot 701), BEC (3 units), BES (3 units), BAT 1 to 4, BEN 1 to 4.

OPERATOR: GOLDEN HINDE MINES LTD., c/o W. Guppy, Box 94, Tofino V0R 2Z0.

METALS: Gold, silver, copper.

WORK DONE: Open cut, 20 by 2 by 2 metres, and 13 test pits in rock, 1 metre each, on Bes.

REFERENCES: Mineral Inventory 92F-53, 350, 354; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 111.

OK (Fig. E-1, NTS 92, No. 27)

LOCATION: Lat. 49° 26.5' Long. 125° 43.5' (92F/5E)
ALBERNI M.D. On the north side of Bedwell River, 1 kilometre northeast of Noble Creek.

CLAIMS: CUB 2, 4, 11, 12.

OWNER: GOLDEN HINDE MINES LTD., c/o W. Guppy, Box 94, Tofino V0R 2Z0.

METALS: Gold, silver.

WORK DONE: Construction of helicopter landing pad, on Cub 11.

REFERENCES: Mineral Inventory 92F-58; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 113.

TRI (Fig. E-1, NTS 92, No. 28)

LOCATION: Lat. 49° 18' Long. 125° 21' (92F/6W)
ALBERNI M.D. Ten kilometres west of Taylor Arm, on Taylor River.

CLAIMS: TNW (6 units), TW (3 units), TE (6 units).

OWNER: GOLDEN HINDE MINES LTD., c/o W. Guppy, Box 94, Tofino V0R 2Z0.

METALS: Copper, zinc.

WORK DONE: Surface cuts and stripping, on TE and TNW.

REFERENCES: Mineral Inventory 92F-281; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 111.

SABINE (Fig. E-1, NTS 92, No. 38)

LOCATION: Lat. 49° 31' Long. 124° 09' (92F/9E)
NANAIMO M.D. On the southern end of Texada Island, along the road immediately west of Anderson Bay.

CLAIMS: SABINE, SABINE 2 to 8.

OWNERS: EDWIN T. JOHANSON, General Delivery, Vananda V0N 3K0 and ROY A. SAMUELSON, General Delivery, Gillies Bay V0N 1W0.

DESCRIPTION: A band of marble up to 60 metres thick runs through the claims from north to south. It is interbedded with schistose sedimentary, volcanic, and pyroclastic rocks of the Anderson Bay Formation. On the west side of this band and parallel to it, between the marble and the Texada Formation, is a self-potential anomaly correlated with magnetic and electromagnetic anomalies of over 450 metres in length. Two soil lines across the anomaly indicate the possibility of copper, zinc, and silver mineralization. Two pits in the overburden uncovered black chert with quartz stringers. The source of the anomalous readings evidently lies below this.

WORK DONE: Prospecting and self-potential survey, approximately 444 readings, covering all claims; reconnaissance VLF-EM and magnetometer survey, 700 metres, covering Sabine 3 and 4; 1 trench totalling 23 square

metres; 1 pit totalling 13 square metres; and trail construction totalling 228 metres, on Sabine 3; road work, 330 metres (rebuilt overgrown road), on Sabine and Sabine 2, 33; geochemical survey, approximately 60 soil samples analysed for copper, zinc, lead, and silver, covering Sabine 3 and 4.

REFERENCES: Mineral Inventory 92F-87; *Ministry of Energy, Mines & Pet. Res.*, Bull. 40, pp. 47, 48.

ART (Fig. E-1, NTS 92, No. 39)

LOCATION: Lat. 49° 40' Long. 124° 00' (92F/9E, 92G/12W)
VANCOUVER M.D. On the Sechelt Peninsula, 7 kilometres north-northeast of Madeira Park and 1 kilometre south of Sakinaw Lake.

CLAIM: ART (20 units).

OWNER: ARTHUR HEWITSON, 301, 1931 Nelson Street, Vancouver.

DESCRIPTION: The claim is underlain mainly by Jurassic quartz diorite and granodiorite. A 100-metre-wide band of limestone strikes diagonally across the claim.

WORK DONE: Geological mapping, 1:6000 and 1:500.

REFERENCE: Assessment Report 7001.

PRICE (Fig. E-1, NTS 92, No. 163)

LOCATION: Lat. 49° 33' Long. 125° 34' (92F/12E)
ALBERNI M.D. Centred 1 kilometre southwest of the south end of Buttle Lake.

CLAIMS: W and HAT (approximately 110 claims) and BOULDER, RAVEN, BETTY, BARITE (Lots 1971 to 1974).

OWNER: WESTERN MINES LIMITED, Box 49066, Three Bentall Centre, Vancouver V7X 1C4.

METALS: Copper, zinc, lead, silver, gold.

WORK DONE: Diamond drilling, 5 (of a total of 11) BQ holes totalling 2 105.6 metres, on Betty and W 19, 56.

REFERENCES: Mineral Inventory 92F-73; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 181; Assessment Reports 5184, 7089.

MAR (Fig. E-1, NTS 92, No. 164)

LOCATION: Lat. 49° 36' Long. 125° 37' (92F/12E)
ALBERNI M.D. Centred 6 kilometres northwest of the south end of Buttle Lake.

CLAIMS: MAR 1 to 31, W 41 to 46.

OWNER: WESTERN MINES LIMITED, Box 49066, Three Bentall Centre, Vancouver V7X 1C4.

WORK DONE: Diamond drilling, 2 holes totalling 1 098.5 metres, on Mar 1 and W 42.

REFERENCES: Assessment Reports 5184, 7090.

1978

(92F/13W)

DONNER LAKE (DONNER—HEBER) (Fig. E-1, NTS 92, No. 29)

LOCATION: Lat. 49° 45.5' Long. 125° 57' (92F/13W)
ALBERNI M.D. Centred 2 kilometres northwest of the north end of Donner Lake.

CLAIMS: DONNER LAKE (6 units), COPPER KING (12 units), COPPER QUEEN (12 units), WHITE RIDGE (12 units), DONNER 1 to 10, 42, 43, HEBER 3 to 6.

OPERATORS: WALTER BABKIRK, 107 Woolridge Street, Coquitlam (1977) and MONT ALTA PROJECTS LIMITED, 1004, 595 Howe Street, Vancouver V6C 2T5 (1978).

METALS: Copper, iron.

WORK DONE: 1977 — surface diamond drilling, 1 hole totalling 61.3 metres, on Heber 4; 1978 — geological mapping; control survey, 14.42 kilometres; magnetometer survey, 5.22 kilometres; VLF—EM survey, 5.22 kilometres; sampling and assaying.

REFERENCES: Mineral Inventory 92F-202; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 114; Assessment Reports 6281, 6705.

MOORE (COBALT), IRON HILL (Fig. E-1, NTS 92, No. 30)

LOCATION: Lat. 49° 51.5' Long. 125° 33.5' (92F/13E)
NANAIMO M.D. On the south side of upper Quinsam Lake, at the mouth of Sihun and Hawkins Creeks.

CLAIMS: COBALT (4 units), MINE (2 units), EUREKA (1 unit).

OWNER: J. W. McLEOD, 4086 West 17th Avenue, Vancouver V6S 1A6.

METALS: Copper, cobalt, gold.

DESCRIPTION: A mineralized shear occurs in Upper Triassic greenstones (?). Chalcopyrite, pyrite, cobaltite (?), malachite, and erythrite were observed.

WORK DONE: VLF—EM survey, 11 kilometres, covering Eureka and Cobalt.

REFERENCES: Mineral Inventory 92F-75, 288; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 114.

MT. WASHINGTON COPPER (Fig. E-1, NTS 92, No. 31)

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), MWC 101 to 161, 170 to 192, 201 to 218, 221 to 244, 247 to 252, 257, 258, 262, 264, 266, 269 to 276, 279 to 284, 289 to 292, 294, 296, 298, 300, 522, 524, 526, MWC 1.

OWNER: ESSO MINERALS CANADA LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Copper, gold, (molybdenum).

DESCRIPTION: Triassic Karmutsen basalt is unconformably overlain by Comox (Cretaceous) siltstone, etc. Both are intruded by Tertiary quartz diorite sills, stocks, and dykes, and associated intrusive breccias. Sulphide mineralization is found in semi-massive pods in flat or shallow-dipping veins near the unconformity and as disseminations and in fracture fillings in the porous outer rims of diatreme breccias.

WORK DONE: Geochemical and leaching studies (a series of column tests and research on 4 bulk samples).

REFERENCES: Mineral Inventory 92F-116, 117, 206, 365; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 115; Assessment Report 6930.

GLADYS C—CADET, MARBLE BAY (Fig. E-1, NTS 92, No. 33)

LOCATION: Lat. 49° 45.2' Long. 124° 34' (92F/15E)
NANAIMO M.D. On Texada Island, centred 1 kilometre southwest of Vananda.

CLAIMS: GLADYS C (Lot 135), CADET (Lot 138), MARBLE BAY FR. NO. 2 (Lot 157), LEONARD (Lot 136), PRIEST (Lot 137), GABRIOLA FR. (Lot 139), TEXADA (Lot 132), KEY FR. (Lot 141), LAP 7 FR. (Lot 529), LAP 8 FR. (Lot 530).

OWNER: LONGBAR MINERALS LTD., c/o 4882 Delta Street, Delta V4K 2T8.

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

WORK DONE: Induced polarization survey, 2.9 kilometres, covering most claims.

REFERENCES: Mineral Inventory 92F-270, 368; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 103; 1976, p. E 117; Assessment Report 6842.

DOROTHY FR. (Fig. E-1, NTS 92, No. 36)

LOCATION: Lat. 49° 45.5' Long. 124° 36' (92F/15E)
NANAIMO M.D. On Texada Island, 3 kilometres west of Vananda, straddling the highway.

CLAIM: DOROTHY FR.

OWNER: DOROTHY M. PASSCHIER, General Delivery, Blubber Bay V0N 1E0.

WORK DONE: Trenching totalling 13 metres.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 115.

OKE (Fig. E-1, NTS 92, No. 35)

LOCATION: Lat. 49° 46' Long. 124° 34' (92F/15E)
NANAIMO M.D. Texada Island, 1 kilometre northwest of Vananda, on the peninsula immediately north of Sturt Bay.

CLAIM: OKE (1 unit).

OWNERS: EDWIN T. JOHANSON, General Delivery, Vananda V0N 3K0, ROBERT DUKER, Vananda, and ROBERT PERRY, Twin Eagles Road, Powell River.

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

DESCRIPTION:

On the southwest corner of the claim, chalcopyrite, sphalerite, and silver-bearing veins occur in limestone adjacent to and parallel with a dyke. The dyke is lightly mineralized with chalcopyrite and runs generally parallel to a diorite contact a few hundred metres away.

In the west-central part of the claim, at approximately the same distance from the diorite contact, a few parallel quartz veins, with some felsite dyke material, cut the limestone. One quartz vein is 20 to 25 centimetres wide and is impregnated with galena, some chalcopyrite, and a little visible gold and native silver.

WORK DONE: Three test pits, totalling 12 square metres.

REFERENCES: Mineral Inventory 92F-374; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 118; *B.C. Ministry of Energy, Mines & Pet. Res.*, Geological Fieldwork, 1976, p. 37; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 40, pp. 52-58.

BOLIVAR, MARJORIE (Fig. E-1, NTS 92, No. 32)

LOCATION: Lat. 49° 46' Long. 124° 35' (92F/15E)
NANAIMO M.D. On Texada Island, centred 2.5 kilometres west of Vananda.

CLAIMS: BOLIVAR 24, 101 to 107, 112 to 119, 122, 123, ALI BABA 108, EAGLE 1 to 4, IRISH 1, 2A, 2B, BAR 5, 6, MAG 1 to 5, BIRCH, MARJORIE, STURT BAY FR., SNO.

OWNER: LONGBAR MINERALS LTD., c/o Cochrane Consultants Limited, 4882 Delta Street, Delta V4K 2T8.

METALS: Gold, silver.

DESCRIPTION: See *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, pp. 184-188.

WORK DONE: Road building, 1.8 kilometres, on Irish 1 and 2A; surface geological mapping, 1:2400 on Bolivar 24, 101, 108, 117, and Marjorie; control survey, on Irish 1 and 2A; induced polarization survey, 1.3 kilometres, on Bolivar 104-107, Irish 2A, 2B; geochemical survey, 103 soil samples analysed for gold, silver, copper, on Irish 1, 2A, and 2B; and surface diamond drilling, two AQ holes totalling 117.5 metres, on Bolivar 101 and Marjorie.

REFERENCES: Mineral Inventory 92F-109, 364; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 115, E 116; Assessment Report 6842.

PARIS (Fig. E-1, NTS 92, No. 37)

LOCATION: Lat. 49° 47.5' Long. 124° 36.5' (92F/15E)
NANAIMO M.D. On Texada Island, on the southeast shore of Blubber Bay.

CLAIMS: PIERRE, DENIS, SUZANNE, FERRO 3.

OWNER: J. MICHAUD, Box 168, Vananda V0N 3K0.
 METALS: Gold, silver.
 WORK DONE: Surface diamond drilling, 1 EX hole totalling 36.6 metres on Pierre; and road construction.
 REFERENCES: Mineral Inventory 92F-266; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 116; Assessment Report 6955.

LOYAL (Fig. E-1, NTS 92, No. 34)

LOCATION: Lat. 49° 47.5' Long. 124° 36' (92F/15E)
 NANAIMO M.D. On the northern tip of Texada Island, from the highway to Grilse Point.
 CLAIMS: CORTEZ 1 to 16, ED 1 to 17, ED Fraction 1, HUMAK, HUMAK A, HUMAK B.
 OWNER: LONGBAR MINERALS LTD., c/o 4882 Delta Street, Delta V4K 2T8.
 METALS: Copper, silver, lead, zinc.
 WORK DONE: Induced polarization survey, 6.9 kilometres, covering Ed 14-17 and Cortez 1-6; control survey, covering Ed 14-17.
 REFERENCES: Mineral Inventory 92F-265, 267; *B.C. Ministry of Energy, Mines and Pet. Res.*, Exploration in B.C., 1975, p. E 104; Assessment Report 6842.

LEWIS (Fig. E-1, NTS 92, No. 40)

LOCATION: Lat. 49° 58' Long. 124° 21' (92F/16W)
 VANCOUVER M.D. Eighteen kilometres northeast of Powell River, immediately north of Lewis Lake and eastward to Dodd Lake.
 CLAIMS: LEWIS 1 (20 units), CLARK (5 units), CANOE 1 (5 units), COVE (12 units).
 OWNER: Home Oil Company Limited.
 OPERATOR: ASARCO EXPLORATION COMPANY OF CANADA, LIMITED, 504, 535 Thurlow Street, Vancouver V6E 3L2.
 METALS: (Copper, molybdenum).
 DESCRIPTION: The claim group is underlain by quartz diorite and diorite of the Coast Plutonic Complex. Narrow, scattered remnants of andesite occur throughout the claim area. Whether these andesite masses are inclusions (pendant remnants) or transecting features (dykes) is not known. Pyrite mineralization is closely associated with andesite in contact with quartz diorite. Sparse chalcopyrite was noted interstitial to pyrite grains and quartz in the andesite adjacent to the contact with quartz diorite. Minor molybdenite was noted with veinlet quartz.
 WORK DONE: Twenty-three trenches, each 3 to 4 metres in length, and geochemical survey, 23 rock chip samples from trenches plus 16 tributary soil samples, on Lewis 1.
 REFERENCES: Mineral Inventory 92F-366; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 105; Assessment Reports 5844, 6989.

VANCOUVER 92G**EL (Fig. E-1, NTS 92, No. 46)**

LOCATION: Lat. 49° 18' Long. 122° 25' (92G/8W)
 NEW WESTMINSTER M.D. Thirteen kilometres north of Ruskin, at the head of Seventynine Creek and 5.5 kilometres east-northeast of the Alouette Lake dam.

CLAIMS: EL (20 units).

OWNER: POSTAL PROPERTIES INC., 729, 355 Burrard Street, Vancouver V6C 2G8.

METALS: Copper, molybdenum.

WORK DONE: Prospecting and reconnaissance magnetometer survey.

PRINCESS (Fig. E-1, NTS 92, No. 55)

LOCATION: Lat. 49° 36' Long. 122° 58' (92G/10W)
 VANCOUVER M.D. On Indian River, 3 kilometres northwest of the mouth of Meslilloet Creek.

CLAIMS: PRINCESS NO. 2 (Lot 3394), PRINCESS NO. 3 (Lot 3395), LONDON NO. 4 (Lot 3393), MYRTLE B NO. 1 (Lot 3396), MYRTLE B NO. 2 (Lot 3397), PEARL (Lot 4990).

OWNER: Texasgulf Canada Ltd.

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

METALS: Copper.

DESCRIPTION: Zones of pyrite mineralization, carrying erratic chalcopyrite, occur in narrow zones of silicified tuff within a complex felsic volcanic pile.

WORK DONE: Geological mapping, 1:12 500, covering all claims.

REFERENCES: Mineral Inventory 92G/NE-23; *Minister of Mines, B.C., Ann. Rept., 1917, p. 278; 1965, p. 221; Geol. Surv., Canada, Mem. 158; Assessment Report 6966.*

WAR EAGLE, INDIAN RIVER COPPER, BELLE (Fig. E-1, NTS 92, No. 47)

LOCATION: Lat. 49° 38.5' Long. 123° 01.5' (92G/11E)
 VANCOUVER M.D. Centred 10 kilometres southeast of Squamish, on the east side of Stawamus River and at the head of Indian River.

CLAIMS: WAR EAGLE, FALCON, CLARKE, MAR, JODY, CELESTE, HAROLD FRACTION, JARMILA FRACTION, BOB, SANTANA, JANETTE (approximately 90 units).

OWNER: Maggie Mines Ltd.

OPERATOR: PLACER DEVELOPMENT LIMITED, 700, 1030 West Georgia Street, Vancouver V6E 2Y3.

METALS: Copper, lead, zinc, silver.

DESCRIPTION: Chalcopyrite, galena, sphalerite, and pyrrhotite occur in volcanic tuffs which are intruded by granitic to quartz dioritic phase rocks.

- WORK DONE:** Geological mapping, 1:2500, covering Falcon, War Eagle, Janette, Bob, Santana, and 1:1000, covering War Eagle; diamond drilling, 7 BQWL holes totalling 900 metres; magnetometer survey, 7.8 kilometres; and geochemical survey, 428 soil samples analysed for copper, lead, zinc, and silver, covering War Eagle.
- REFERENCES:** Mineral Inventory 92G/NW-14, 24, 28, 41, 42; *Minister of Mines, B.C.*, Ann. Rept., 1913, pp. 246, 247; 1917, pp. 276, 277; 1918, p. 311; 1921, p. 231; 1937, pp. F25, F26; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 193; 1970, p. 232; *Geol. Surv., Canada*, Mem. 158; Assessment Reports 2632, 6866, 6867, 7047.

McVICAR (GOAT CREEK), BALDWIN (Fig. E-1, NTS 92, No. 48)

- LOCATION:** Lat. 49° 40' Long. 123° 01' (92G/11E)
VANCOUVER M.D. Ten kilometres east-southeast of Squamish, on the north side of Mount Baldwin, between the head of Stawamus River and Raffuse Creek.
- CLAIMS:** HARDING, RAINSTORM, NOONDAY, MAMQUAM, SLIDE FR., GROUSE FR., CABIN FR., HEATHER, WHISTLER, LILY, VIOLET, ROSE (Lots 6152 to 6163), BALDWIN 1 to 5 (36 units).
- OWNERS:** Texasgulf Canada Ltd. and Matachewan Consolidated Mines, Limited.
- OPERATOR:** TEXASGULF INC., 701, 1281 West Georgia Street, Vancouver V6E 3J7.
- METALS:** Lead, zinc, copper, silver.
- DESCRIPTION:** Galena, sphalerite, chalcopyrite, and pyrite occur in siliceous stringer zones and conformable massive sulphide lenses in a complex pile of felsic volcanic rocks of the Gambier Group.
- WORK DONE:** Geological mapping, 1:5000, covering all claims; trench mapping, 1:50 and 1:500, covering all Crown-granted claims; geochemical survey, 455 soil samples analysed for copper, lead, and zinc, covering Baldwin 3, Lily, Whistler, Grouse Fr., Rainstorm, Noonday, Cabin Fr., Slide Fr.; VLF-EM survey, orientation profiles, covering Whistler, Harding, Rainstorm; horizontal loop electromagnetic survey, orientation profiles, covering Harding, Rainstorm; and induced polarization survey, orientation profiles, covering Whistler.
- REFERENCES:** Mineral Inventory 92G/NW-6, 43; *Minister of Mines, B.C.*, Ann. Rept., 1925, p. 298; 1928, p. 387; 1929, p. 397; 1930, p. 309; 1937, p. F20-F25; 1953, pp. 159-162; 1964, p. 146; 1965, pp. 222, 223; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 232; *Geol. Surv., Canada*, Mem. 158; Assessment Reports 494, 496, 626, 2373, 2632, 7021.

RAY CREEK (BRUCE-RADIANT), McKINNON (Fig. E-1, NTS 92, No. 49)

- LOCATION:** Lat. 49° 41' Long. 123° 04' (92G/11E)
VANCOUVER M.D. Centred 6 kilometres east-southeast of Squamish, surrounding Mount Mulligan and westward to Stawamus River.

1978

(92G/11W)

CLAIMS: MULLIGAN 1 to 3, CRANE (19 units).
OWNER: Texasgulf Canada Ltd. and Eagle River Mines Ltd.
OPERATOR: TEXASGULF INC., 701, 1281 West Georgia Street, Vancouver V6E 3J7
METALS: Zinc, copper, silver.
DESCRIPTION: Conformable lenses of massive pyrite, with local concentrations of chalcopyrite and sphalerite, are associated with siliceous rocks in an essentially pyroclastic volcanic pile. Sulphide stringer zones are weakly developed.
WORK DONE: Geological mapping, 1:5000, covering Mulligan 1, 3, and Crane; geochemical survey, 99 soil and 34 silt samples analysed for copper, lead, and zinc, and VLF--EM survey, 8.55 kilometres, covering Mulligan 1 and Crane; horizontal loop electromagnetic survey, 160 metres, covering Mulligan 1.
REFERENCES: Mineral Inventory 92G/NW-10, 39; *Minister of Mines, B.C.*, Ann. Rept., 1919, pp. 229, 230; 1921, p. 229; 1925, p. 298; 1929, p. 397; 1930, p. 310; 1937, pp. F26-F28; Assessment Report 7026.

COPPER BAY (Fig. E-1, NTS 92, No. 50)

LOCATION: Lat. 49° 30.5' Long. 123° 21' (92G/11W)
VANCOUVER M.D. On the northeast coast of Gambier Island, immediately south of Douglas Bay.
CLAIM: DAYBREAK (20 units).
OWNER: 20TH CENTURY ENERGY CORPORATION, 729, 355 Burrard Street, Vancouver, V6C 1V8.
METALS: Copper, molybdenum, silver, (gold, zinc).
DESCRIPTION: Mineralization occurs as extremely fine specks in an andesitic breccia which is chloritized and silicified. Fracturing often shows slickensides and gouge. Secondary quartz in the fractures carries some copper and molybdenum.
WORK DONE: Diamond drilling, 3 BQ holes totalling 374 metres, on Daybreak.
REFERENCES: Mineral Inventory 92G/NW-25; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1971, p. 254; 1972, p. 276; Assessment Reports 3087, 3724, 3908, 7126.

ART (Fig. E-1, NTS 92, No. 39)

LOCATION: Lat. 49° 40' Long. 124° 00' (92F/9E, 92G/12W)
Report on this property in NTS 92F.

ABLE (Fig. E-1, NTS 92, No. 51)

LOCATION: Lat. 49° 55.5' Long. 123° 24.5' (92G/14W)
VANCOUVER M.D. On Pokosha Creek, 2 kilometres southwest of Ashlu Creek.

CLAIM: ABLE (8 units).
 OWNER: Jack Peever.
 OPERATOR: WALTER BABKIRK, 2055 Como Lake Avenue, Coquitlam.
 METALS: Gold, silver, tungsten, copper.
 DESCRIPTION: Sulphides occur in a massive stockwork of small veins in quartz diorite, monzonite, and syenite.
 WORK DONE: 1977 – diamond drilling, 1 EX hole totalling 21.3 metres, on Able;
 1978 – diamond drilling, 1 EX hole totalling 97.8 metres, on Able.
 REFERENCES: Mineral Inventory 92G/NW-44; Assessment Report 6774.

TUFF (Fig. E-1, NTS 92, No. 52)

LOCATION: Lat. 49° 56' Long. 123° 23.5' (92G/14W)
 VANCOUVER M.D. On Pokosha Creek, 0.5 kilometre southwest of Ashlu Creek.
 CLAIM: TUFF (1 unit).
 OWNER: JOHN N. McLEOD, Box 150, Brackendale V0N 1H0.
 METALS: Gold, silver.
 DESCRIPTION: The mineralized zone is a steeply dipping elongated pipe-like body of quartz, approximately 1 000 metres in length and approximately 35 metres in width. Mineralization consists of marcasite and pyrite with associated gold and silver values. The country rock to the south of this zone is granodiorite and to the north it is a gneiss diorite containing some mineralization.
 WORK DONE: Prospecting and trenching 3 metres, on Tuff.
 REFERENCES: 92G/NW-45; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 120 (Ashlu).

GOLD (Fig. E-1, NTS 92, No. 53)

LOCATION: Lat. 49° 57' Long. 123° 24.5' (92G/14W)
 VANCOUVER M.D. On the north side of Ashlu Creek, opposite the mouth of Roaring Creek.
 CLAIM: GOLD (4 units).
 OWNER: JOHN N. McLEOD, Box 150, Brackendale V0N 1H0.
 METALS: Gold, silver.
 DESCRIPTION: A flat-lying quartz vein, striking at 35 degrees and approximately 1 metre in width, is associated with an andesitic dyke, approximately 9 metres in width. Mineralization consists of marcasite, pyrite, and some pyrrhotite, with gold and silver values contained in the pyrite and pyrrhotite. The country rocks are diorite, gneiss, quartz diorite, and granodiorite.
 WORK DONE: Prospecting, 12 rock samples assayed for tellurium, gold, and silver and trenching totalling 5 square metres, on Gold.
 REFERENCES: Mineral Inventory 92G/NW-46; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 120 (Ashlu).

VENETIAN (Fig. E-1, NTS 92, No. 54)

LOCATION: Lat. 50° 00' Long. 123° 06' (92G/14E, 92J/3E)
VANCOUVER M.D. Centred 7 kilometres northeast of Garibaldi village, along the east side of Daisy Lake.

CLAIMS: DAISY 1 to 8, RON 1 to 12, FF 1 to 14; J 1 to 10, S 1 to 26, JAN (9 units).

OWNER: ACACIA MINERAL DEVELOPMENT CORPORATION LTD., 429, 470 Granville Street, Vancouver V6C 1V5.

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

WORK DONE: Trenching 62.8 metres, and 32 pit holes, on J, Daisy, Ron, and Jan; diamond drilling (BQ), 91.4 metres, on FF 9.

REFERENCES: 92G/NW-29; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 120, E 121; Assessment Report 7093.

MAYFLOWER (DANDY) (Fig. E-1, NTS 92, No. 56)

LOCATION: Lat. 49° 57' Long. 122° 26' (92G/16W)
NEW WESTMINSTER M.D. On Chief Paul Creek, along the west side of the Lillooet River, 2 kilometres northwest of Skookumchuk.

CLAIMS: MONEY MAKER 1 to 3 (24 units).

OWNER: GEORGE L. NAGY, 48989 Elkview Road, RR 2, Sardis V0X 1Y0.

METALS: Zinc, gold.

DESCRIPTION: Metasedimentary and metavolcanic rocks of the Fire Lake Group host mineralized felsic breccia. These rocks of Late Jurassic to Early Cretaceous (?) age have been subsequently intruded by a feldspar porphyry pluton. The felsic breccia contains angular felsic fragments, with pyrite, sphalerite, and gold mineralization.

WORK DONE: Geological mapping, 1:1500, and geophysical survey, covering Money Maker 1.

REFERENCES: Mineral Inventory 92G/NE-10; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 121.

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

LOCATION: Lat. 49° 07' Long. 120° 19' (92H/1W)
OSOYOOS M.D. At the confluence of McBride Creek and Ashnola River.

CLAIMS: ASH, NOLA, MAX, CAT, JAM, Q (approximately 40).

OWNER: Craigmont Mines Limited.

OPERATOR: PRISM RESOURCES LTD., 214, 850 West Hastings Street, Vancouver.

METALS: Copper, molybdenum.

WORK DONE: Geochemical survey, 23 drill core samples from 7 drill holes analysed for copper, molybdenum, tungsten, fluorine, and tin, covering Ash, Jam, and Q.

REFERENCES: Mineral Inventory 92H/SE-94; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 121, E 122; Assessment Report 6929.

GOLD COIN, NORTH STAR, SKAGIT GIANT (Fig. E-1, NTS 92, No. 57)

LOCATION: Lat. 49° 07.5' Long. 121° 05' (92H/3E)
NEW WESTMINSTER M.D. On Shawatum Creek, 4 kilometres east of the Skagit River.

CLAIMS: DENAR 20 (20 units), DENAR 40 (20 units).

OWNER: DENAR MINES LTD., 33825 South Fraser Way, Abbotsford V2S 2C4.

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

DESCRIPTION:

The claims are underlain by Hozameen cherty sedimentary rocks and fine-grained andesitic flows. Throughout the area is a series of nearly parallel veins or stringers, as well as less regular lens-shaped sulphide bodies. The veins are coincident with a series of joint planes or fractures which strike north 30 west and dip 75 degrees east. The veins are an admixture of sulphides of which pyrrhotite is most abundant. Other minerals present are sphalerite, pyrite, chalcopyrite, arsenopyrite, and stibnite.

One prominent vein strikes north 82 degrees west, dipping 75 degrees south, for a distance of 2 050 metres and averages 10.6 metres in width. It is composed mainly of dark bronze-coloured pyrrhotite, intersected by a number of narrow veinlets and stringers of pyrite and arsenopyrite. Associated with the pyrrhotite as irregular inclusions are small bodies of magnetite. High values in platinum group minerals have been reported.

WORK DONE: Stripping, totalling 3 000 square metres, and road work, 3.5 kilometres, on both claims.

REFERENCES: Mineral Inventory 92H/SW-14, 75 to 77; *Minister of Mines, B.C.*, Ann. Rept., 1929, p. 241; 1938, pp. F16-F21; 1950, p. 167; 1958, p. 55; 1960, p. 87; 1961, p. 86; Assessment Report 5474.

SLES (Fig. E-1, NTS 92, No. 165)

LOCATION: Lat. 49° 00.5' Long. 121° 37' (92H/4E)
NEW WESTMINSTER M.D. On Slesse Creek, with the International Boundary being the southern limit of the claim.

CLAIM: SLES 1 (12 units).

OWNER: Aquarius Resources Ltd.

OPERATOR: LONGBAR MINERALS LTD., c/o 4882 Delta Street, Delta.

DESCRIPTION: The claim is underlain by basic volcanic rocks and pelites of the Chilliwack Group.

WORK DONE: Geochemical survey, 194 soil samples analysed for gold, covering Sles 1.

REFERENCE: Assessment Report 7107.

BEE (Fig. E-1, NTS 92, No. 61)

LOCATION: Lat. 49° 16.5' Long. 121° 48' (92H/5W)
 NEW WESTMINSTER M.D. Three kilometres south-southwest of Harrison Hot Springs, along the west side of Miami Creek, immediately west of the golf course.

CLAIMS: BEE (6 units), N 1 and 2.

OWNER: JET-STAR RESOURCES LTD., 509, 850 West Hastings Street, Vancouver V6C 1E1.

METALS: Uranium, copper.

DESCRIPTION: The property is predominantly underlain by a medium-textured, hornblende granodiorite (Tertiary) in contact with a conglomerate of the Jurassic Kent Formation. An outcrop of siliceous pegmatitic material hosts an unidentified uranium mineral (possibly uraninite or uraniferous magnetite), a greenish yellow secondary mineral (possibly phosphouranylite), and pyrite, with occasional patches of chalcopyrite and splashes of malachite and erytherite.

WORK DONE: Geological mapping, 1:3000; geochemical survey, 145 soil samples analysed for uranium; and radiometric survey, 6.7 kilometres, covering portions of Bee, N 1, 2; diamond drilling, 3 AQ holes totalling 86 metres, and test pitting, approximately 0.33 cubic metre, on Bee.

REFERENCES: Mineral Inventory 92H/SW-110; Assessment Report 6790.

SENECA (Fig. E-1, NTS 92, No. 59)

LOCATION: Lat. 49° 19' Long. 121° 57' (92H/5W)
 NEW WESTMINSTER M.D. Centred 12 kilometres west-northwest of Harrison Hot Springs, on both sides of the Chehalis River and eastward.

CLAIM: DOROTHY 1 to 10 (140 units).

OWNERS: Isaac Miller and Dorothy Miller.

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

METALS: Zinc, copper, silver, gold, lead.

DESCRIPTION: A lens of Kuroko-type mineralization is associated with coarse felsic fragmental volcanic rocks of the Harrison Lake Formation.

WORK DONE: Geological mapping, 1:1200 and 1:5000, covering Dorothy 1-3, 9; road construction, 1 kilometre, and 9 pits, on Dorothy 2, 9; geochemical survey, 872 soil and 151 silt samples analysed for copper and zinc, covering Dorothy 1-4, 9; control survey, 12 kilometres (331 stations), covering Dorothy 1, 2.

REFERENCES: Mineral Inventory 92H/SW-13; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 122; Assessment Report 7053.

I AM, LUV, STONEY (FIG. E-1, NTS 92, No. 60)

LOCATION: Lat. 49° 21.5' Long. 121° 54' (92H/5W)
 NEW WESTMINSTER M.D. Eleven kilometres northwest of Harrison

Hot Springs, immediately north of and northwestward from Weaver Lake.

CLAIMS: I AM 1 to 4, 9 to 24, I AM 50 (20 units), SIR 4, SIR 5 and 6 Fractions, DOT 1 to 3, MARY J 1 to 4.

OWNERS: Isaac Miller and Dorothy Miller.

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

METALS: Zinc, copper.

DESCRIPTION: Stockwork-type disseminated mineralization is present in a coarse felsic volcanic breccia of the Harrison Lake Formation.

WORK DONE: 1977 – geochemical survey, 283 soil samples analysed for copper, zinc, and molybdenum, covering I AM 1-4, 13, 23, Dot 1-3, Mary J 4; 1978 – geological mapping, 1:4000, covering I AM 50, and geochemical survey, 230 soil samples, covering copper, zinc, and molybdenum, on I AM 4, 15-18, Mary J 1, 2.

REFERENCES: Mineral Inventory 92H/SW-69, 83; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. E 103; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, pp. E 78, E 79; Assessment Reports 6683, 6904, 7015.

WA (Fig. E-1, NTS 92, No. 166)

LOCATION: Lat. 49° 18' Long. 121° 37' (92H/5E)
NEW WESTMINSTER M.D. Three kilometres south-southwest of Laidlaw, on Wahleach Creek.

CLAIMS: WA 1 and 2 (3 units each).

OWNER: Aquarius Resources Ltd.

OPERATOR: LONGBAR MINERALS LTD., c/o 4882 Delta Street, Delta.

DESCRIPTION: The oldest rocks in the area of the claims are basic volcanic rocks and pelites of the Chilliwack Group. East of Wahleach Creek these rocks are intruded by the Late Cretaceous quartz diorites that form the southern exposure of the Spuzzum pluton. A small pyroxenite intrusion forms the west bank of the Wahleach Creek and lies along a north/south-trending fault.

WORK DONE: Geochemical survey, 175 soil samples analysed for gold, covering both claims.

REFERENCE: Assessment Report 7108.

RUB (Fig. E-1, NTS 92, No. 58)

LOCATION: Lat. 49° 23' Long. 121° 37' (92H/5E)
NEW WESTMINSTER M.D. Thirteen kilometres due west of Hope, centred at the junction of Ruby and Garnet Creeks.

CLAIMS: RUB 1 to 3 (42 units).

OWNER: AQUARIUS RESOURCES LTD., c/o 4882 Delta Street, Delta.

METAL: Gold.

WORK DONE: Prospecting (hand panning), and geochemical survey, 1 213 soil samples analysed for gold, covering all claims.

REFERENCE: Assessment Report 7109.

SILVERTIP, S&M, MARIAN (Fig. E-1, NTS 92, No. 63)

LOCATION: Lat. 49° 16.5' Long. 120° 45' (92H/7)
OSOYOOS M.D. On the north side of Whipsaw Creek, halfway between Fortyone and Fortyseven Mile Creeks.

CLAIMS: SILVERTIP 1 and 2, OK 1 to 5, CONTACT 1, M-1 Fraction, Mineral Lease M-30 comprising THREE FORKS (Lot 172) and CONTACT 3, CONTACT 1 to 4, and 10 Fractions (Lot 1549 to Lot 1556).

OWNERS: H. P. HUFF and R. M. HUFF, General Delivery, Princeton.

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

DESCRIPTION: Veins containing galena, sphalerite, chalcopyrite, argentite, bornite, and pyrite occur in chlorite and amphibolite schists.

WORK DONE: Drilling, 30 metres, on OK 1.

REFERENCES: Mineral Inventory 92H/SE-72 to 74, 120; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 125.

ALLENBY TAILINGS (Fig. E-1, NTS 92, No. 64)

LOCATION: Lat. 49° 25' Long. 120° 31.5' (92H/7E)
SIMILKAMEEN M.D. At Allenby, 4.5 kilometres south-southwest of Princeton.

CLAIMS: ABO (3 units).

OPERATOR: ABACUS INDUSTRIES LTD., 55, 200 Granville Street, Vancouver V6C 1S4.

METALS: Gold, copper.

DESCRIPTION: Reworking of the old Allenby tailings.

WORK DONE: Trenching, 50 2-metre deep sample trenches analysed for gold; pilot plant sluice operation, 500 cubic metres of material processed; pilot plant experimental jig operation, 200 cubic metres.

REFERENCES: Mineral Inventory 92H/SE-139; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 126.

COPPER MOUNTAIN (Fig. E-1, NTS 92, No. 66)

LOCATION: Lat. 49° 20' Long. 120° 30' (92H/7E, 8W)
SIMILKAMEEN M.D. Fifteen kilometres south of Princeton, bordering the Ingerbelle mine on the east and south.

CLAIMS: Twenty-one claims held by location including ELEPHANT and QUEEN; 6 claims held by lease including Mineral Leases M-39, M-40, M-42, M-44 to M-49, M-59, M-66; and 39 Crown-granted claims including ALABAMA (Lot 2429), DUKE OF YORK (Lot 63S), and FALUM (Lot 416S).

OWNER: NUFORT RESOURCES INC., 908, 330 Bay Street, Toronto, Ontario M5H 2S8.

METALS: Copper, (gold, silver).

DESCRIPTION: The property is underlain by volcanic rocks of the Nicola Group and, in the northeast, by igneous rocks of the Voigt stock. In the volcanic rocks, mineralization consists of pyrite and chalcopyrite with minor

magnetite and hematite. Pyrite-chalcopyrite deposits in the Voigt stock and in the volcanic rocks near the contact are noticeably higher in magnetite and hematite. Bornite occurs sparingly and, in one deposit on the No. 14 Crown Grant, gold is of importance.

WORK DONE: Four trenches totalling 180 metres, on Automatic Fr. (Lot 1775S).

REFERENCES: Mineral Inventory 92H/SE-17; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 128.

COPPER FARM (BONNIE, BARB) (Fig. E-1, NTS 92, No. 67)

LOCATION: Lat. 49° 27' Long. 120° 24' (92H/8W)
SIMILKAMEEN M.D. Eight kilometres east of Princeton, on the south side of the Similkameen River.

CLAIM: GOD (4 units).

OWNERS: John Kenneth Newton and Exel Explorations Ltd.

OPERATOR: EXEL EXPLORATIONS LTD., 6017 Larch Street, Vancouver.

METALS: Copper, silver.

WORK DONE: Diamond drilling, 1 AQ hole totalling 78 metres, on GOD.

REFERENCES: Mineral Inventory 92H/SE-91; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 71; Assessment Report 6601.

McNULTY (Fig. E-1, NTS 92, No. 65)

LOCATION: Lat. 49° 27' Long. 120° 07.5' (92H/8E)
OSOYOOS M.D. Ten kilometres north-northwest of Hedley, on the west side of McNulty Creek.

CLAIMS: McNULTY 1, 2 (30 units).

OWNER: LACANA MINING CORPORATION, 312, 409 Granville Street, Vancouver V6C 1T2.

DESCRIPTION: Tertiary basalts of the Princeton Group apparently overlies sedimentary rocks of the Princeton Group, which rest unconformably on intrusive rock of the Similkameen batholith.

WORK DONE: Road construction, 1 kilometre; percussion drilling, 6 holes totalling 429.8 metres, on McNulty 2.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 128, E 129; Assessment Report 6822.

FIN (Fig. E-1, NTS 92, No. 69)

LOCATION: Lat. 49° 36' Long. 120° 15' (92H/9E)
SIMILKAMEEN M.D. Fourteen kilometres south of Bankeir, at the head of Finnegan and Grant Creeks.

CLAIMS: FIN 1 and 2 (40 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

METAL: Uranium.

1978

(92H/9E)

DESCRIPTION: The area is underlain by intrusive units of the Okanagan batholith, mainly Jura granodiorite and McNulty quartz monzonite of Late Jurassic to Early Cretaceous age.

WORK DONE: Reconnaissance geological mapping, 2 rock samples collected; scintillometer survey; geochemical survey, 127 stream and lake silt samples analysed for uranium, 115 stream and lake water samples analysed for uranium, pH, HCO_3 , and specific conductivity; 3 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering both claims.

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

LOCATION: Lat. $49^\circ 41'$ Long. $120^\circ 00'$ (82E/12W; 92H/9E)
Report on this property in 82E/12W.

LINK (Fig. E-1, NTS 92, No. 70)

LOCATION: Lat. $49^\circ 41.5'$ Long. $120^\circ 14'$ (92H/9E)
SIMILKAMEEN M.D. Two kilometres south of Bankeir, immediately south of Link Lake.

CLAIMS: LINK 1 to 3 (42 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

METAL: Uranium.

DESCRIPTION: Rocks in the area are Empress granite, McNulty quartz monzonite, and Jura granodiorite.

WORK DONE: Reconnaissance geological mapping, 6 rock samples collected; scintillometer survey; geochemical survey, 131 stream and lake silt samples analysed for uranium, 118 stream and lake water samples analysed for uranium, pH, HCO_3 , and specific conductivity; 3 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering all claims.

DECANO (Fig. E-1, NTS 92, No. 68)

LOCATION: Lat. $49^\circ 44.5'$ Long. $120^\circ 01'$ (92H/9E)
SIMILKAMEEN M.D. Fifteen kilometres south of the Brenda mine, at the confluence of Camp and Chipman Creeks.

CLAIM: SPIRIT (20 units).

OWNER: BARDINE OILS LTD., 904, 885 Dunsmuir Street, Vancouver.

METAL: Molybdenum.

WORK DONE: Prospecting, covering Spirit.

REFERENCES: Mineral Inventory 92H/NE-27; *Minister of Mines, B.C.*, Ann. Rept., 1968, p. 217; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 129; Assessment Reports 1141, 6563, 6793.

GLAD (Fig. E-1, NTS 92, No. 71)

LOCATION: Lat. 49° 31' Long. 120° 28' (92H/9W)
SIMILKAMEEN M.D. Eight kilometres northeast of Princeton, at Separation Lakes.

CLAIMS: GLAD 1 to 4.

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

METAL: Uranium.

DESCRIPTION: Volcanic rocks of the Upper Triassic Nicola Group are partially overlain by Eocene Princeton Group sedimentary rocks. The succession is capped by Upper Eocene volcanic rocks.

WORK DONE: Reconnaissance geological mapping, 1 rock sample collected; scintillometer survey; geochemical survey, 115 stream and lake silt samples analysed for uranium, 83 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity; 5 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering all claims.

MUF (Fig. E-1, NTS 92, No. 72)

LOCATION: Lat. 49° 40' Long. 120° 28' (92H/9W)
SIMILKAMEEN M.D. Twenty-three kilometres north of Princeton, 2 kilometres east of Rampart Lake.

CLAIM: MUF (20 units).

OWNER: CONSOLIDATED KALCO VALLEY MINES LTD., 511, 850 West Hastings Street, Vancouver.

WORK DONE: Geochemical survey, 333 soil samples analysed for copper, molybdenum, and uranium, on Muf.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 84; Assessment Reports 5971, 6809.

ADRIANA (Fig. E-1, NTS 92, No. 73)

LOCATION: Lat. 49° 44' Long. 120° 36' (92H/10E)
SIMILKAMEEN M.D. Three kilometres north-northeast of Allison Lake.

CLAIM: ADRIANA (10 units).

OWNER: Bute Resources Inc.

OPERATOR: AMPHION RESOURCES LTD., 6th Floor, 475 Howe Street, Vancouver V6C 2B3.

METAL: (Copper).

DESCRIPTION: The westerly two-thirds of the property is underlain by Coast Range grey, medium-grained granodiorite and rusty red fine to coarse-grained granodiorite. The easterly one-third of the property is underlain by Nicola andesitic rocks. The contact strikes about north 5 degrees east. There are several faults indicated, but lack of outcrops have hindered geological mapping. A major fault, however, has been mapped just west

of the property — striking north-northwesterly. Minor copper showings have been indicated by malachite staining.

WORK DONE: Topographic mapping, 27 kilometres, (elevation taken); grid establishment, magnetometer, VLF—EM, and scintillometer surveys, 27 kilometres each; geochemical survey, 393 soil samples assayed for copper, on Adriana.

RED BIRD (LODE), SPOKANE (Fig. E-1, NTS 92, No. 75)

LOCATION: Lat. 49° 34' Long. 120° 49' (92H/10W)
SIMILKAMEEN M.D. Centred 5 kilometres northwest of Tulameen, on the south side of Lockie Creek.

CLAIMS: JOHN X 1 to 8 (36 units).

OWNER: NORTHERN LIGHTS RESOURCES LTD., 6017 Larch Street, Vancouver V6M 4E5.

METAL: Copper.

WORK DONE: Linecutting, 14 kilometres, and ground magnetometer survey, 14 kilometres, covering John X 1, 3.

REFERENCES: Mineral Inventory 92H/NE-19, 20; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 131; Assessment Report 7064.

IRA (IRISH BRITCO) (Fig. E-1, NTS 92, No. 74)

LOCATION: Lat. 49° 36' Long. 120° 55' (92H/10W)
SIMILKAMEEN M.D. On Skwum Creek, centred 3.5 kilometres northwest of its junction with Lawless Creek.

CLAIMS: MARA 1 to 4 (38 units).

OWNER: MARA MINERALS INC., 8, 784 Thurlow Street, Vancouver.

METALS: Copper, molybdenum.

DESCRIPTION: Zones of hydrothermal alteration with chalcopyrite and molybdenite occur in both Tertiary or Quaternary porphyry and in Nicola rocks on Mara 1 claim.

WORK DONE: Grid establishment, 8.3 kilometres; geological mapping, 1:5000; and ground magnetometer survey, 8.3 kilometres, covering Mara 1.

REFERENCES: Mineral Inventory 92H/NE-39; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 122; Assessment Reports 575, 707, 708, 2434, 4463, 4466, 5344, 6824.

KEYSTONE, JULIE, WHAT, JM, MAG (Fig. E-1, NTS 92, No. 85)

LOCATION: Lat. 49° 42' Long. 121° 02' (92H/11E)
NICOLA M.D. Centred 7 kilometres north-northwest of Coquihalla, along the Coldwater River and northwestward to Juliet Creek.

CLAIMS: KEYSTONE MIDNITE, ROVER, COVER, BURN, RIDGE, FALLS, WET, HOT, COMSTOCK, BONANZA LODE, RIVER, QUEEN 1 to 3, DRY 1 (126 units).

- OWNER:** WESTERN MINES LIMITED, 1103, 595 Burrard Street, Vancouver V7X 1C4.
- METALS:** Molybdenum, zinc, copper, lead, manganese (silver, gold).
- DESCRIPTION:** The property is underlain by foliated Eagle granodiorite that has been intruded by non-foliated quartz diorite intrusions, porphyritic bodies and dykes, and breccias. Sulphide mineralization is associated with several of these events and occurs with quartz veins, as disseminations, and along fractures. Molybdenite mineralization occurs both as a pre and a post-intrusive breccia event. Lead-zinc mineralization is dominantly post-intrusive brecciation.
- WORK DONE:** 1977 – geochemical survey, 405 soil, silt, and rock samples analysed for molybdenum, lead, zinc, manganese, copper, and fluorine, covering most claims; 1978 – geological mapping, covering most claims; induced polarization survey, 22 kilometres; diamond drilling, 1 NQ–BQ hole totalling 830 metres.
- REFERENCES:** Mineral Inventory 92H-22 to 25, 50; Assessment Reports 696, 2610, 3123, 3595, 4173, 4371, 4516, 6758, 7135.

AURUM, IDAHO, PIPESTEM (Fig. E-1, NTS 92, No. 86)

- LOCATION:** Lat. 49° 31' Long. 121° 18' (92H/11W)
NEW WESTMINSTER M.D. Eleven kilometres southeast of Yale, at the head of Ladner and Siwash Creeks.
- CLAIMS:** AURUM 1 to 6 (Lot 1236 to 1241), IDAHO (Lot 1234), TRAMWAY (Lot 1235), HOME GOLD 1 to 15, GOLD STAR 1 to 4, CABIN 1 to 14, CABIN 20 and 21 Fractions, SYLVIA FR., CARO 1 to 27, 29, 30, CARO 1 to 3, 5, 6 Fractions, D 1 (20 units), PCR 1 (6 units), PCR 2 (2 units).
- OWNER:** CAROLIN MINES LTD., 315, 850 West Hastings Street, Vancouver V6C 1E1.
- METALS:** Gold, silver.
- DESCRIPTION:**

The geology of the area has been described in various Geological Survey of Canada publications including Summary Report, 1919, Part B; 1920, Part A; Memoir 139, Coquihalla River Area, 1924; and Summary Report, 1929, Part A; and in the British Columbia Ministry of Energy, Mines and Petroleum Resources publication, Geological Fieldwork, 1975, pages 53 and 54.

The Carolin claims straddle the north-trending Coquihalla serpentine belt which lies between the Paleozoic Cache Creek (Hozameen) Group on the west and the Upper Jurassic Ladner slates on the east. Cache Creek rocks consist chiefly of interbedded cherts and shales and the Ladner Group is predominantly slates and argillites. The Idaho zone lies within what is believed to be the Lower Ladner Group and the regional trend of the host rocks is northwesterly. Rock units dip at steep to moderate angles northeasterly in the Idaho zone area. The serpentine contact is some 200 to 300 metres west of the Idaho zone, and this contact is nearly vertical. The host rocks of the Idaho zone are greywackes, argillites, and slates which have been variously albitized, carbonatized, and silicified. The

upper Idaho mineralized band appears to conform to the general bedding attitudes of the Ladner slates.

In the Idaho zone anomalously high gold values are found in silicified albite-carbonate bands which contain up to 20 per cent by volume sulphides and arsenides. Normally pyrrhotite and pyrite are the most abundant metallic minerals followed by arsenopyrite and chalcopyrite. Visible native gold is not common.

The sulphides and arsenides occur in streaks and bands within the altered, fractured host rocks as well as in disseminations for some distance on each side of the well-mineralized zones. Gold values are moderately uniform and the gold appears to be associated with pyrite.

A generalized and simplified vertical geological section through the Idaho from top to bottom may be described as follows:

- (a) non-mineralized argillite
- (b) grey-green greywacke, becoming fractured and chloritic
- (c) upper mineralized Idaho zone of albite-carbonate rock containing appreciable gold values
- (d) black to grey (graphitic) slates
- (e) lower mineralized Idaho zone
- (f) unmineralized greywacke to conglomerate with narrow mineralized bands.

Mineralization is best classified as A. H. Lang's 'E' type of ore, that is 'sulphide replacement – consisting chiefly of auriferous arsenopyrite, pyrite and pyrrhotite.'

Silver values are generally low (that is, less than 35 grams per tonne) and copper is often present in the 100 to 300-gram-per-tonne range within the auriferous zones.

WORK DONE: Crosscutting totalling 226.5 metres; decline ramp totalling 230.2 metres; surface diamond drilling (BQ) totalling 266.1 metres; underground diamond drilling (AQ) totalling 6 155.0 metres, on Idaho.

REFERENCES: Mineral Inventory 92H/NW-3, 6 to 11, 13, 14, 48; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 131-E133.

NORM (Fig. E-1, NTS 92, No. 88)

LOCATION: Lat. 49° 32' Long. 121° 20' (92H/11W)
 NEW WESTMINSTER M.D. Seven kilometres east-southeast of Yale, on the southwest slope of Spider Peak, on the north side of Qualark Creek.

CLAIMS: NORM 1 to 4.

OPERATOR: GOLDEN SHAMROCK RESOURCES LTD., 402, 602 West Hastings Street, Vancouver V6B 1P2.

METAL: Gold.

DESCRIPTION: The Hozameen fault traverses the Norm 1 and 2 claims. An intensely sheared and oxidized block of silicified carbonates (sometimes referred to as the Green Leader Formation) occupies a zone 100 to 160 metres

wide between the mafic complex on the west side of the Hozameen fault and the Ladner slates on the east side.

WORK DONE: Geological mapping; 3 rock samples assayed for gold.

REFERENCES: Mineral Inventory 92H/NW-56; Assessment Report 6889.

SPUZ, STEM (Fig. E-1, NTS 92, No. 87)

LOCATION: Lat. 49° 37' Long. 121° 22' (92H/11W)

NEW WESTMINSTER M.D. Centred 9 kilometres northeast of Yale, extending in a narrow belt from Spider Peak north-northwestward for a distance of 22 kilometres.

CLAIMS: SPUZ A, SPUZ B, SPUZ C, SPUZ D, SPUZ G, STEM 1 to 12, LAST, MAJ-C, MAJ-B, MAG A, RODD A, ROD D, ROD E, ROD F, LESLIE 1 to 5, PAW 5 to 8, DICK, SPID (approximately 170 units and 2 post claims).

OWNERS: Longbar Minerals Ltd. and Aquarius Resources Ltd.

OPERATOR: LONGBAR MINERALS LTD., c/o 4882 Delta Street, Delta V4K 2T8.

METAL: Gold.

DESCRIPTION:

The claims straddle the Hozameen fault/Coquihalla serpentine band, which marks the west boundary of the Methow graben, a major crustal feature separating Upper Jurassic Ladner Group slates from Paleozoic Hozameen Group cherts and metavolcanic rocks.

The gold occurrences along the belt are of various types, including shear zone, vein, breccia, and replacement varieties with some deposits exhibiting overlapping characteristics. Most of the former production was from shear zone and vein-type deposits but current exploration attention is biased toward deposits with larger dimensions such as breccia and replacement types.

WORK DONE: Prospecting, 66 hand-panned samples, covering Spuz A, Spuz C, Leslie 1-5, Paw 5-8; road construction totalling 2.2 kilometres on Rodd A, Rod D; geochemical survey, 340 soil samples analysed for gold, covering Maj-B, Mag A, Spuz B, Spuz G, Rodd A, Rod D.

REFERENCES: Mineral Inventory 92H/NW-5, 33, 53 to 55; *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1976, p. E 86; 1977, pp. E 133, E 134; Assessment Reports 5907, 6046, 6813, 6928, 6962.*

JERRY (Fig. E-1, NTS 92, No. 89)

LOCATION: Lat. 49° 39' Long. 121° 59' (92H/12W)

NEW WESTMINSTER M.D. At Doctor's Point, on the west shore of Harrison Lake.

CLAIM: JERRY 1 (4 units).

OWNER: GEORGE L. NAGY, 48989 Elkview Road, RR 2, Sardis VOX 1Y0.

DESCRIPTION: Sulphides occur along fracture planes in a silicified amphibolitic rock.

WORK DONE: Road construction, 200 metres, on Jerry 1.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, p. E 134.*

BOSS, DAISY (Fig. E-1, NTS 92, No. 80)

LOCATION: Lat. 49° 50' Long. 120° 35' (92H/15E)
 NICOLA M.D. Centred 3 kilometres west-northwest of the north end of Missezula Lake.

CLAIMS: THALIA 1 (20 units), THALIA 2 (5 units), THALIA 3 (9 units), THALIA 4 (4 units), THALIA 5 (6 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: Copper, silver.

DESCRIPTION: Chalcocite occurs in fractured, chloritized, and argillitized diorite dykes that have intruded a basaltic, volcanoclastic sequence.

WORK DONE: Linecutting, 11.9 kilometres, on Thalia 1, 3-5; geological mapping, 1:10 000, covering Thalia 1-5; induced polarization survey, 5.6 kilometres, covering Thalia 1, 4, 5; geochemical survey, 46 soil samples analysed for copper, covering Thalia 3 and 74 rock samples analysed for copper and zinc, covering Thalia 1-5.

REFERENCES: Mineral Inventory 92H/NE-91, 130, 151; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 156; Assessment Report 4495.

AM (Fig. E-1, NTS 92, No. 76)

LOCATION: Lat. 49° 53.5' Long. 120° 34.5' (92H/15E)
 NICOLA M.D. Approximately 7 kilometres southeast of Aspen Grove, immediately west of the south half of Kentucky Lake.

CLAIM: AM (6 units).

OWNER: SILVER ACORN DEVELOPMENTS LTD., 509, 850 West Hastings Street, Vancouver V6C 1E1.

METAL: Copper.

DESCRIPTION: Chalcopyrite, bornite, and chalcocite occur as disseminations and with associated carbonate stringers within fracture or shear zones. The host rock is a massive green sequence of the Nicola volcanic rocks.

WORK DONE: Geological mapping; VLF-EM survey, 13 kilometres; geochemical survey, 447 soil samples analysed for copper and silver on AM.

REFERENCES: Mineral Inventory 92H/NE-166; Assessment Report 6821.

AR (Fig. E-1, NTS 92, No. 77)

LOCATION: Lat. 49° 53.5' Long. 120° 35' (92H/15E)
 NICOLA M.D. Six kilometres southeast of Aspen Grove, 1.5 kilometres west of the south end of Kentucky Lake.

CLAIM: AR (6 units).

OWNER: R. F. Schibild.

OPERATOR: BELMONT RESOURCES INC., 404, 850 West Hastings Street, Vancouver.

METAL: Copper.

WORK DONE: Ground electromagnetic survey, 13 kilometres and geochemical survey, 424 soil samples analysed for copper and silver, covering AR.

REFERENCES: Mineral Inventory 92H/NE-177; Assessment Report 6761.

AG (Fig. E-1, NTS 92, No. 81)

LOCATION: Lat. 49° 55' Long. 120° 35' (92H/15E)
 NICOLA M.D. Four kilometres southeast of Aspen Grove, surrounding Miner Lake.

CLAIM: AG (12 units).

OWNER: WESTWARD ENERGY & RESOURCES CORP., 404, 850 West Hastings Street, Vancouver V6C 1E1.

METAL: Copper.

DESCRIPTION: Chalcopyrite, chalcocite, malachite, and pyrite occur in fracture or shear zones within green and red volcanic rocks of the Nicola Group.

WORK DONE: Ground electromagnetic survey, 24.6 kilometres, covering AG.

REFERENCES: Mineral Inventory 92H/NE-82 to 84, 172; *Minister of Mines, B.C., Ann. Rept., 1967, p. 174 (Pay)*; *B.C. Ministry of Energy, Mines & Pet. Res., GEM, 1974, p. 125 (Golden Gate, etc.)*; Assessment Reports 3758, 7029.

AK (Fig. E-1, NTS 92, No. 82)

LOCATION: Lat. 49° 56' Long. 120° 35' (92H/15E)
 NICOLA M.D. Three kilometres southeast of Aspen Grove.

CLAIM: AK (12 units).

OWNER: CAL DYNAMICS ENERGY CORP., 404, 850 West Hastings Street, Vancouver V6C 1E1.

METAL: Copper.

DESCRIPTION: Chalcopyrite, chalcocite, malachite, and bornite occur in fractures or shear zones within Nicola volcanic rocks.

WORK DONE: Ground magnetometer and electromagnetic surveys, 24.6 kilometres each, covering AK.

REFERENCES: Mineral Inventory 92H/NE-79 to 81; *Minister of Mines, B.C., Ann. Rept., 1967, p. 174 (Pay)*; *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1975, p. E 125 (Golden Gate, etc.)*; Assessment Reports 3758, 7050.

HALO (Fig. E-1, NTS 92, No. 78)

LOCATION: Lat. 49° 57' Long. 120° 35' (92H/15E)
 NICOLA M.D. Three kilometres northeast of Aspen Grove.

CLAIMS: HALO 100, HALO 200, HALO 300, HALO 400, HALO 500, HALO 600 (50 units).

OWNER: DAVID MINERALS LTD., 315, 850 West Hastings Street, Vancouver V6C 1E1.

METALS: Copper, silver, gold.

DESCRIPTION: The property is centred on the Big Kidd breccia, a pipe-like intrusion, intruding Nicola Group volcanic rocks. Mineralization consists of chalcopyrite, bornite, pyrite, and magnetite in the breccia pipe, and microdiorite to the north. Vein and shear zone copper occurrences are present close by.

WORK DONE: Road rehabilitation, 2.2 kilometres; rehabilitation of several trenches; and resampling and assaying.

REFERENCES: Mineral Inventory 92H/NE-71 to 76; *Minister of Mines, B.C.*, Ann. Rept., 1901, p. 1179; 1913, p. 221; 1920, p. 168; 1928, p. 222; 1958, p. 28; 1959, p. 35; 1962, p. 59; 1963, p. 54; 1964, p. 95; 1965, p. 156; 1968, p. 208; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 276; 1970, p. 378; 1971, p. 285; 1972, p. 138; Exploration in B.C., 1975, p. E 77; 1976, p. E 87; 1977, p. E 136; *B.C. Ministry of Energy, Mines & Pet. Res.*, Preliminary Map No. 10 (1973); No. 17 (1974); No. 18 (1975); Open File, Claim map of Aspen Grove (c. 1905); *Geol. Surv., Canada*, Mem. 243; Olien, K.O., (1957), unpubl. B.A.Sc. thesis, *Univ. of Western Ontario*; Schau, M.P., (1968), unpubl. Ph.D. thesis, *Univ. of British Columbia*; Assessment Reports 1620, 1827, 3512, 5719, 5849, 5944, 6035, 6555, 7100.

TAB, BLUEJAY (Fig. E-1, NTS 92, No. 79)

LOCATION: Lat. 49° 58.5' Long. 120° 35' (92H/15E)
NICOLA M.D. Centred 5 kilometres north-northeast of Aspen Grove, from Pothole Lake northwestward to Highway 5.

CLAIMS: SNOWFLAKE (6 units), SNOWFLAKE 2 (4 units), SNOWFLAKE 3 (6 units), SNOWFLAKE 4 (8 units), SNOWFLAKE 5 (2 units), SNOWFLAKE 6 (6 units), TULE 10 (4 units).

OWNERS: F. Gingell and B. Yorke-Hardy.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METAL: Copper.

DESCRIPTION: Native copper, chalcocite, chalcopyrite, bornite, and pyrite occur in propylitized diorite close to the contact with Nicola basalts.

WORK DONE: Percussion drilling, 14 holes totalling 1 281 metres, (360 3.05-metre samples analysed for copper and zinc with 40 composites analysed for tungsten, gold, and silver), covering Snowflake, Snowflake 3, Snowflake 6, and Tule 10.

REFERENCES: Mineral Inventory 92H/NE-52, 105, 145; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 136, E 137; Assessment Reports 250, 1842, 3555, 5875, 6260, 6837, 7122.

PACO (Fig. E-1, NTS 92, No. 84)

LOCATION: Lat. 49° 46' Long. 120° 25' (92H/16W)
SIMILKAMEEN M.D. Along the west side of Siwash Creek, opposite Tepee Creek. The Saskat 1 and 2 claims are 1 kilometre west of the junction of Galena and Siwash Creeks.

CLAIMS: JUNE, SKYE, PAT, SASKAT (18 units).

OWNER: D.E. Agur.

OPERATOR: AGUR LOGGING CO. LTD., Box 930, Summerland.

METALS: Copper, silver, zinc, lead, gold.

DESCRIPTION:

Three rock units are recognized in the claim area. The oldest rocks are situated north of the property and consist of green andesites believed to be Nicola Group of Late Triassic to Early Jurassic age. These volcanic rocks have been intruded by plutons of probable Jurassic age, which comprise a coarse-grained crystalline quartz-feldspar monzonite. These extensive monzonitic plutons have in turn been intruded by feldspar porphyry stocks and associated aplitic dykes. These latter plutons are believed to be related to the Otter intrusions of Late Cretaceous or Early Tertiary age.

Disseminated sulphide mineralization consisting of galena, chalcopyrite, and pyrite occur entirely within the quartz-feldspar monzonite pluton. Five showings were located while mapping the property on a scale of 1:15 840. The extent of the mineralization was difficult to determine due to lack of exposure. However, three 'belts' of mineralization are assumed to trend northwesterly, based on three showings along the road near the sites of three recently drilled diamond-drill holes.

WORK DONE: Prospecting; trenching and stripping, 1 000 metres; and road construction, 500 metres, covering June 1, 2; diamond drilling (BQ), 95 metres, on June 1.

REFERENCES: Mineral Inventory 92H/NE-98; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 160; Assessment Reports 3282, 4969.

PRIMER (KING GEORGE, OB, OC) (Fig. E-1, NTS 92, No. 83)

LOCATION: Lat. 49° 46' Long. 120° 29' (92H/16W)
SIMILKAMEEN M.D. Immediately east and southeast of the south end of Missezula Lake.

CLAIMS: PRIME, PRIME 1, PRIME 2 (44 units).

OWNER: PIPER PETROLEUMS LTD., 1024, 355 Burrard Street, Vancouver V6C 2G8.

METAL: Copper.

DESCRIPTION:

The Prime claim group is underlain by Nicola Group andesitic flows, tuffs, agglomerates, and limestone. These rocks are located within an embayment of the Okanagan granodiorite batholith that lies to the east of the property. Dykes, sills, and small stocks of varying composition cut the Nicola Group rocks in the property area. The rocks have been moderately to highly altered and fractured as a result of the extensive northwest and northeast-striking shear zones that are widely distributed throughout the claim group. The claims are bordered on the west by the major north-trending Summers Creek fault. Numerous copper-pyrite occurrences have been located on the property related primarily to areas of fractured andesite and diorite rock types. The claim area is largely covered by glacial overburden.

WORK DONE: Geological mapping, 1:500 (trenched area on Prime 2) and 1:2500, covering Prime, Prime 1; magnetometer survey, 7.3 kilometres, covering Prime, Prime 1.

REFERENCES: Mineral Inventory 92H/NE-55, 56, 110; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 137; Assessment Report 6877, 6900.

ASHCROFT 921**WAS (Fig. E-1, NTS 92, No. 90)**

LOCATION: Lat. 50° 01.5' Long. 120° 17' (921/1)
 NICOLA M.D. Eleven kilometres west of the north end of Pennask Lake, between Quilchena and Wasley Creeks.

CLAIMS: WAS 1 (18 units), WAS 2 (18 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: The area is underlain by the Pennask batholith of Early Cretaceous to Late Jurassic age. A small outlier of Upper Eocene Skaha Formation is present.

WORK DONE: Reconnaissance geological mapping (3 rock chip samples collected); scintillometer survey; and geochemical survey, 74 stream and lake silt samples analysed for uranium, 29 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 2 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, covering both claims.

PORCUPINE (Fig. E-1, NTS 92, No. 91)

LOCATION: Lat. 50° 02.5' Long. 120° 37' (921/2E)
 NICOLA M.D. Fourteen kilometres southeast of Merritt, 3 kilometres north of Courtenay Lake.

CLAIM: CR 1 (20 units).

OPERATOR: BURDOS MINES LTD., 1028, 510 West Hastings Street, Vancouver.

METAL: Copper.

DESCRIPTION:

The claim is underlain by Triassic Nicola rocks consisting of volcanic flows, tuffs, and minor sediments. The flows are relatively thin bedded, in the order of 1 to 10 metres in thickness. The tuffs are medium to coarse grained, brown to reddish, and generally only 1 or 2 metres thick.

The mineralization consisting of chalcopyrite, chalcocite, bornite, and native copper occurs as disseminations in amygdules and in thin fractures in andesite flows. Minor malachite and azurite occur near the surface and pyrite is relatively sparse.

The main showing was investigated by a shallow inclined shaft sunk on a mineralized amygdaloidal, dark grey basaltic flow which is overlain by red tuffs. The flow strikes north 50 degrees east and dips -45 degrees to the southeast and is extremely altered to chlorite and carbonate.

A composite grab sample of five random specimens taken from in and near the shaft by a government engineer in 1963 assayed 1.73 per cent copper. There was no chalcopyrite, bornite, nor native copper recognized in the specimens.

WORK DONE: VLF-EM survey, 12.5 kilometres, covering CR 1.

REFERENCES: Mineral Inventory 921/SE-54; *Minister of Mines, B.C.*, Ann. Rept., 1963, p. 54; 1964, p. 95; Assessment Reports 962, 1595, 7043.

GO, FAR (Fig. E-1, NTS 92, No. 92)

LOCATION: Lat. 50° 05' Long. 120° 43.5' (92I/2E)
 NICOLA M.D. Centred 5 kilometres east-southeast of the centre of Merritt, astride Highway 5.

CLAIMS: GO (12 units), FAR (12 units).

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

WORK DONE: Surface geological mapping, 1:5400 and 12 rock samples analysed by X-ray fluorescence, covering Far; magnetometer survey, 17.8 kilometres, covering Go.

REFERENCE: Assessment Report 6919.

NIK (Fig. E-1, NTS 92, No. 167)

LOCATION: Lat. 50° 11' Long. 120° 36' (92I/2E)
 NICOLA M.D. Centred 2 kilometres north of the north shore of Nicola Lake and 5.5 kilometres east-northeast of Nicola.

CLAIMS: GC 1 to 4 (16 units).

OWNER: George F. Cressy.

OPERATOR: BETHLEHEM COPPER CORPORATION, 2100, Guinness Tower, 1055 West Hastings Street, Vancouver V6E 2H8.

METAL: Copper.

DESCRIPTION: The claims are underlain by Nicola Group rocks, Paleozoic schist, and intrusive rocks, and by Jurassic intermediate to basic intrusive rocks. Minor copper occurs as malachite, chalcopyrite, and lesser bornite both as disseminations and fracture fillings in leucocratic dykes and pods in gneissic gabbro. Also copper-bearing quartz veins cut the adjacent gabbro.

WORK DONE: Percussion drilling, 3 holes totalling 73.2 metres, on GC 1.

REFERENCES: Mineral Inventory 92I/SE-143; Assessment Reports 3143, 7121.

FOX (Fig. E-1, NTS 92, No. 93)

LOCATION: Lat. 50° 14' Long. 120° 32' (92I/2E)
 NICOLA M.D. Twelve kilometres northwest of Nicola, 2 kilometres southeast of Fox Lake.

CLAIM: FOX 1 (12 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: The area is underlain by the Tertiary intrusive phase of the Nicola batholith.

WORK DONE: Reconnaissance geological mapping (13 rock chip samples collected); scintillometer survey; and geochemical survey, 44 stream and lake silt samples analysed for uranium, 23 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 1 heavy mineral sample analysed for silver, gold, tin, uranium, and tungsten.

BETTY LOU (Fig. E-1, NTS 92, No. 97)

LOCATION: Lat. 50° 11.5' Long. 120° 59' (921/2W)
 NICOLA M.D. From the summit of Promontory Hills westward and southwestward.

CLAIMS: BETTY (12 units), PROM ONE (8 units).

OWNER: CRAIGMONT MINES LIMITED, Box 3000, Merritt VOK 2B0.

METAL: (Copper).

DESCRIPTION: The claims lie within the contact aureole of the Guichon batholith and cover a complex area of volcanoclastic rocks with associated limy sedimentary and small intrusive rocks. The geological environment is similar to Craigmont. A small showing of galena and sphalerite (921/SE-173) occurs at the top of Promontory Hill.

WORK DONE: Magnetometer (vertical field) survey, 3.8 kilometres, covering Prom One; surface geological mapping, 1:2400, and pulse electromagnetic survey, 19.9 kilometres, covering Betty and Prom One; surface diamond drilling, 2 NQ holes totalling 993 metres, on Betty.

REFERENCES: Mineral Inventory 921/SE-173; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 140; Assessment Reports 5630, 6934.

CRAIGMONT – QUARTZITE, ETTA (Fig. E-1, NTS 92, No. 94)

LOCATION: Lat. 50° 12' Long. 120° 53' (921/2W)
 NICOLA M.D. Centred 3 kilometres east of the Craigmont open pit.

CLAIMS: Orange and Blue groups, comprising 65 located claims including QUARTZITE, ETTA, HAZEL, POND, OK, SANDY, etc.

OWNER: CRAIGMONT MINES LIMITED, Box 3000, Merritt VOK 2B0.

METAL: (Copper).

DESCRIPTION: This portion of the Craigmont mine property is located along strike easterly from the Craigmont orebodies and within the contact aureole of the Guichon batholith. A known, defined skarn zone occurs in Nicola rocks with an associated magnetic high. Only traces of copper are indicated. Extensive overburden (greater than 125 metres) covers much of the area.

WORK DONE: Surface diamond drilling, 4 HQ-NQ holes totalling 1 507 metres, on Etta 1 and Quartzite 3, 4; magnetometer (total field) survey, 5.3 kilometres and VLF-EM survey, 6.9 kilometres, covering Quartzite 4-6, Hazel 5, 6, and Etta 1, 2; induced polarization survey, 0.8 kilometre, covering Etta 1, 2 and Quartzite 6; linecutting, 18.9 kilometres; magnetometer (vertical field) survey, 20.3 kilometres; electromagnetic (pulse) survey, 12.4 kilometres; and survey control, 2.3 kilometres, covering SSP 1, 2, Chip 8, Sandy 3, 4, Hazel 2, 4-6, Etta 1, 2, Quartzite 4-6, B 2 Fraction, and Kermit; surface diamond drilling, 1 NQ hole totalling 323 metres on Etta 1 and 1 NQ hole totalling 275 metres on Kermit; underground diamond drilling, 1 NQ-BQ hole totalling 434 metres on Price 6, 4.

REFERENCES: Mineral Inventory 92I/SE-36 (Eric); *Minister of Mines, B.C.*, Ann. Rept., 1960, pp. 26-40; Assessment Reports 5327, 6746, 6942.

CRAIGMONT – WILLY (Fig. E-1, NTS 92, No. 96)

LOCATION: Lat. 50° 12' Long. 120° 57' (92I/2W)
NICOLA M.D. Centred 1 500 metres west-southwest of Craigmont pit.

CLAIMS: WILLY group of the Craigmont property, comprising 33 located claims including WILLY, HEC, and NED.

OWNER: CRAIGMONT MINES LIMITED, Box 3000, Merritt V0K 2B0.

METAL: (Copper).

DESCRIPTION: This portion of the Craigmont property is along strike westerly from the Craigmont orebodies and includes the first exposures of Nicola rocks to the west of the Kingsvale capping. It is a complex area of volcanoclastic rocks with associated limy sedimentary and small intrusive rocks within the contact aureole of the Guichon batholith.

WORK DONE: Surface geological mapping, 1:2400; magnetometer survey (total field), 15.7 kilometres; VLF-EM survey, 15.7 kilometres; and electromagnetic (pulse) survey, 15.7 kilometres, covering Hec 7-10, all Willy claims and fractions, and Blue Fraction; induced polarization survey, 40 kilometres, covering Willy 5-8 and Willy 1 and 2 Fractions; surface diamond drilling, 4 HQ-BQ holes totalling 2 109 metres, on Hec 10, Willy 7, and Willy 1 Fraction.

REFERENCES: Assessment Reports 6707, 6795.

CRAIGMONT – MERCHANTS (Fig. E-1, NTS 92, No. 95)

LOCATION: Lat. 50° 13' Long. 120° 57' (92I/2W)
NICOLA M.D. Centred 1 200 metres northwest of the Craigmont pit.

CLAIMS: Green group of the Craigmont property, comprising 34 located claims including PAYSTIN, MERCHANTS, HEC, MERRELL, etc.

OWNER: CRAIGMONT MINES LIMITED, Box 3000, Merritt V0K 2B0.

METAL: (Copper).

DESCRIPTION: This area is along strike westerly from the Craigmont orebodies, within the contact aureole of the Guichon batholith and follows the mine limestone horizon which has been offset some 500 metres north by faulting. A veneer of Kingsvale volcanic rocks, greater than 150 metres thick, covers all Nicola rocks.

WORK DONE: Surface diamond drilling, 1 HQ-NQ hole totalling 722 metres, on Merchants 6.

REFERENCES: Mineral Inventory 92I/SE-34 (Titan Queen; Paystin); Assessment Report 6811.

H (Fig. E-1, NTS 92, No. 104)

LOCATION: Lat. 50° 03.5' Long. 121° 38' (921/4E)
 KAMLOOPS and NEW WESTMINSTER M.D. Nineteen kilometres south-southwest of Lytton and 6 kilometres southeast of Pyramid Mountain, at the headwaters of an unnamed creek which flows eastward into the Fraser River.

CLAIM: CAB (12 units).

OWNER: NAHATLATCH RESOURCES LTD., 819, 602 West Hastings Street, Vancouver.

METALS: Nickel, silver, chromium, talc.

DESCRIPTION: A northwest-trending serpentized belt of ultrabasic rocks is associated with hornblende diorite and related rocks. A talc zone cuts across the claim, striking 110 degrees and dipping 55 degrees southwest. Surface exposures suggest a possible 100-metre width and a length of some 210 metres. Metallic mineralization comprises magnetite, which rims chromite and occurs as disseminations and veinlets, pentlandite, heazlewoodite, and possible millerite.

WORK DONE: 1977 — prospecting and three trenches totalling 29 metres, on Cab.

REFERENCES: Mineral Inventory 921/SW-63, 64, 65; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 403; Assessment Report 7058.

GLACIER (Fig. E-1, NTS 92, No. 105)

LOCATION: Lat. 50° 10' Long. 121° 49.5' (921/4W)
 KAMLOOPS M.D. Nineteen kilometres west-southwest of Lytton, on the south side of North Kwoiek Creek.

CLAIM: ALPINE (12 units).

OWNER: LONGBAR MINERALS LTD., Box 129, Vananda.

METALS: Gold, silver.

DESCRIPTION: A serpentine belt transects a steeply dipping, thick sequence of dark grey phyllites. Veins of massive, sugary quartz are well mineralized with arsenopyrite. Two occurrences of asbestos have been reported in the claim area but are small and of questionable quality.

WORK DONE: 1977 — rock chip and channel sampling; geochemical survey, 12 soil samples, covering Alpine.

REFERENCES: Mineral Inventory 921/SW-53; *Minister of Mines, B.C.*, Ann. Rept., 1929, pp. 236, 237; *Geol. Surv., Canada*, Mem. 262, p. 104; Assessment Reports 2536, 6854.

B, C (Fig. E-1, NTS 92, No. 128)

LOCATION: Lat. 50° 29.5' Long. 121° 40' (921/5E)
 KAMLOOPS M.D. Twenty-five kilometres southeast of Lillooet, centred 4 kilometres east of the mouth of McGillivray Creek at the Fraser River.

CLAIMS: A 1 to 16, B 1 to 16, C 1 to 6, O 1 to 4.

1978

(921/6E)

OWNER: ACACIA MINERAL DEVELOPMENT CORPORATION LTD., 429,
470 Granville Street, Vancouver V6C 1V5.

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

DESCRIPTION:

The rocks on the claims are extensively brecciated sedimentary and volcanic rocks (andesite, cherty tuffs, limestone, and limestone breccia). They are intruded near the mouth of McGillivray Creek by diorites of the Mount Lytton batholith and to the east at the headwaters of the creek by quartz diorite.

Feldspar porphyry dykes intrude brecciated andesites and limestone breccias. The dykes and adjacent intruded rocks contain disseminated chalcopyrite, magnetite, and bornite. Andesites, further from the dykes, contain massive and disseminated pyrite. Large areas of these pyritized rocks form limonite surface gossans.

WORK DONE: Trenching, 17.7 metres on O 1-4; linecutting, 56.3 kilometres and geochemical survey, 1 034 soil samples, covering A 1-16, B 1-16, C 1-6.

REFERENCES: Mineral Inventory 921/SW-78 (relocation of 921/NW-54); *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 228; 1974, p. 158; Assessment Report 7027.

FLEX, IBLE (? JAY) (Fig. E-1, NTS 92, No. 107)

LOCATION: Lat. 50° 19' Long. 121° 03' (921/6E)

KAMLOOPS M.D. At and westward from the confluence of Skuhun and Skuhost Creeks.

CLAIMS: FLEX (6 units), IBLE (10 units), GSE (5 units).

OWNER: Robert McLean.

OPERATOR: FLEXIBLE RESOURCES LTD., 305, 543 Granville Street, Vancouver V6C 1X8.

METALS: Copper, silver, zinc, lead.

WORK DONE: Geochemical survey, 8 silt samples, 34 soil samples, and 7 water samples analysed for copper, silver, and zinc, covering Ible; geographical mapping and prospecting, 1:1000; geochemical survey, 32 soil samples analysed for copper, lead, zinc, and silver; magnetometer survey, 2.5 kilometres; and VLF-EM survey, 2 kilometres, covering GSE.

REFERENCES: Mineral Inventory 921/SW-7; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 142.

TOKETIC (DORA KAY) (Fig. E-1, NTS 92, No. 106)

LOCATION: Lat. 50° 27.5' Long. 121° 13' (921/6E)

KAMLOOPS M.D. Eleven kilometres northeast of Spences Bridge and 3 kilometres southeast of Indian Reserve 9, on a west-flowing branch of Pimainus Creek.

CLAIM: TOK 1 (16 units).

OWNER: Valley Copper Mines Limited.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METAL: Copper.

1978

(92I/7W)

DESCRIPTION: Near the western contact of the Guichon batholith, pyrite and chalcopyrite occur in the Hybrid phase of the batholith and in volcanic rocks of the Spences Bridge or Cache Creek or Nicola Groups.

WORK DONE: Trenching and road work; linecutting, 12.3 kilometres; induced polarization survey, 7.3 kilometres, covering Tok 1.

REFERENCES: Mineral Inventory 92I/SW-46; *Minister of Mines, B.C.*, Ann. Rept., 1926, p. 194; 1958, p. 171; 1961, p. 29; 1963, p. 43; 1964, p. 85; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 135; Assessment Reports 151, 335, 4121, 5002, 6943.

SUNSHINE, LO (Fig. E-1, NTS 92, No. 101)

LOCATION: Lat. 50° 18.5' Long. 120° 46' (92I/7W)
NICOLA M.D. Eighteen kilometres north-northwest of Nicola, at the head of Tolman Creek.

CLAIMS: SUNSHINE 1 to 16, LO 6 and 7.

OWNER: RUSKIN DEVELOPMENTS LTD., 202, 900 West Pender Street, Vancouver V6C 1L1.

METALS: Zinc, lead, copper, silver.

WORK DONE: 1977 – surface diamond drilling, 4 NQ holes totalling 210.3 metres on Sunshine 1.

REFERENCES: Mineral Inventory 92I/SE-127 to 129; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 144; Assessment Report 6742.

BORNITE RIDGE, JERICHO (Fig. E-1, NTS 92, No. 102)

LOCATION: Lat. 50° 26' Long. 120° 56' (92I/7W)
KAMLOOPS M.D. Centred 9 kilometres southeast of the Bethlehem mine, immediately north of Billy Lake.

CLAIMS: JERICHO 1 to 5 (70 units).

OWNER: New Jericho Mines Ltd.

OPERATOR: HIGHMONT MINING CORP. LTD., 14, 1199 West Hastings Street, Vancouver V6E 2K5.

METAL: Copper.

DESCRIPTION: The Bornite Ridge showing (92I/SE-15) consists of a series of narrow quartz-bornite-chalcocite-chalcopyrite veins in the Guichon quartz diorite phase of the 200 Ma old Guichon batholith. The mineralized veins carry alteration envelopes of sericite, K-feldspar, and propylitic alteration.

WORK DONE: Surface diamond drilling, three packsack holes totalling 60 metres on Jericho 3.

REFERENCES: Mineral Inventory 92I/SE-11, 15, 89, 90, 91; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, pp. 141, 142.

FHK (Fig. E-1, NTS 92, No. 100)

LOCATION: Lat. 50° 27' Long. 120° 48' (921/7W)
 NICOLA M.D. Five kilometres south of Logan Lake, straddling Guichon Creek and the Mamit Lake road.

CLAIM: FHK (10 units).

OWNER: NORTHERN LIGHTS RESOURCES LTD., 6017 Larch Street, Vancouver.

DESCRIPTION: The claim is underlain on the west by the Gump Lake phase of the Guichon batholith and on the east apparently by Nicola andesites.

WORK DONE: Geochemical survey, 144 soil samples analysed for copper, covering FHK.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 142; Assessment Report 7035.

GC, TL (Fig. E-1, NTS 92, No. 103)

LOCATION: Lat. 50° 30' Long. 120° 50' (921/7W, 10W)
 KAMLOOPS and NICOLA M.D. The property extends north-northeastward from the south end of Mamit Lake, passing immediately west of Logan Lake village, to approximately 5 kilometres north of Forge Mountain.

CLAIMS: GC 1 to 12, TL 1 to 15 (471 units) (reduced to GC 4 to 7, 11, 12 and TL 1, 2, 4 to 12, 304 units, as of June 1978).

OWNER: Bethlehem Copper Corporation.

OPERATORS: PACIFIC PETROLEUMS LTD., GRANGES EXPLORATION AKTIE-BOLAG, and BETHLEHEM COPPER CORPORATION, c/o 2100, 1055 West Hastings Street, Vancouver V6E 2H8.

METAL: Copper.

DESCRIPTION:

The claims are underlain on the west by Guichon batholith intrusive rocks which are in contact on the east with Upper Triassic Nicola volcanic and sedimentary rocks. This contact generally follows the Guichon Creek valley throughout the entire length of the claims. The Nicola intrusive contact is overlain by Tertiary Kamloops volcanic rocks near the northern border of the claim block. The intrusive rocks on the border of the batholith consist of a hybrid phase which varies from a dark mafic rock near the contact to a diorite-quartz diorite in more distant areas. This border phase is quite variable in width and it generally grades into quartz diorite further to the west. The intrusive contact zone shows for the most part only minor alteration of the feldspars (to sericite) and mafic minerals (to chlorite), but certain areas do exhibit moderate alteration along with minor chalcopyrite and pyrite mineralization and they are generally related to adjacent faulting. The Nicola Group in the contact region consists of metavolcanic and metasedimentary rocks. These rocks have been subjected to regional metamorphism but not to the degree of the Nicola rocks further to the south, therefore the well-known epidote-streaked greenstone is not that prevalent in this assemblage.

WORK DONE: Surface geological mapping, 1:10 000; induced polarization survey, 101.1 kilometres; geochemical survey, 1 138 soil samples and 410 rock samples analysed for copper, lead, zinc, and molybdenum; and ground electromagnetic survey, several kilometres, covering all claims.

REFERENCES: Mineral Inventory 921/SE-148, 151, 154 and 921/NE-34, 40, 52, 109, 111, 117, 135; Assessment Report 6830.

SOPHIA (Fig. E-1, NTS 92, No. 99)

LOCATION: Lat. 50° 18.5' Long. 120° 44' (921/7E)
NICOLA M.D. Three kilometres northwest of Swakum Mountain, surrounding and north of Sophia Lake.

CLAIM: SOPHIA (20 units).

OWNER: LAKEWOOD MINING CO. LTD., 2245 West 13th Avenue, Vancouver V6K 2S4.

METALS: Zinc, lead, copper.

DESCRIPTION: The property is underlain by a sequence of limestone, argillite, greywacke, conglomerate, and andesite porphyry of the Nicola Group. Mineralization occurs as pyritization and associated sphalerite, galena, and chalcopyrite. Galena and sphalerite were encountered in one of the drill holes.

WORK DONE: Induced polarization survey, 17.5 kilometres; geochemical survey, 444 soil samples analysed for lead, zinc, copper, and molybdenum; electromagnetic survey, 11.2 kilometres; and surface diamond drilling, 3 holes totalling 178 metres, on Sophia.

REFERENCES: Mineral Inventory 921/SE-197; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 148; Assessment Report 7031.

LAST CHANCE (Fig. E-1, NTS 92, No. 98)

LOCATION: Lat. 50° 19' Long. 120° 41' (921/7E)
NICOLA M.D. Centred 16 kilometres north of Nicola and 1.5 kilometres east of Helmer Lake.

CLAIMS: HEL 1 to 4 (48 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METAL: Copper.

DESCRIPTION: The property is underlain by Upper Triassic flows, pyroclastics, and limestone of the Nicola Group. Copper mineralization is associated with skarn and occurs in fractures in the volcanic rocks.

WORK DONE: Induced polarization survey, 7.2 kilometres, covering Hel 3 and 4.

REFERENCES: Mineral Inventory 921/SE-27; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 95; Assessment Report 7016.

JENNY LONG (Fig. E-1, NTS 92, No. 110)

LOCATION: Lat. 50° 18.5' Long. 120° 22' (921/8W)
NICOLA M.D. Approximately 3.5 kilometres southeast of the south end of Stump Lake.

CLAIMS: JENNY LONG (Lot 718), AZELA (Lot 692), PARKVIEW NO. 3, BLUE BIRD, WREN (Lots 5041 to 5043), CLARA B, GARDEN NO. 1, DOROTHY (Lots 5045 to 5047), BRIAN, SCOTIA (Lots 5091 and 5092), GARDEN NOS. 2 to 5 (Lots 5093 to 5096).

OWNER: C. GRAHAM, Box 910, Merritt.

METALS: Copper, lead, zinc, gold, silver, and tungsten.

WORK DONE: Ground magnetometer survey, 4.9 kilometres in the Jenny Long – Dorothy area.

REFERENCES: Mineral Inventory 921/SE-31, 32; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 149; Assessment Reports 5565, 6348, 6856.

MARY REYNOLDS (Fig. E-1, NTS 92, No. 108)

LOCATION: Lat. 50° 20' Long. 120° 21' (921/8W)
NICOLA M.D. Four kilometres east of the south end of Stump Lake.

CLAIMS: Mineral Leases M-19R comprising MARY REYNOLDS (Lot 674) and GOLD CUP (Lot 675) and M-20R comprising ROBERT DUNSMUIR (Lot 673) plus PV 1 (2 units), PV 2 (16 units).

OWNER: PINE VALLEY EXPLORERS LTD., Box 441, Merritt VOK 2B0.

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

DESCRIPTION: Argentiferous galena occurs in quartz veins associated with a quartz-carbonate zone in massive augite andesite of the Nicola Group.

WORK DONE: Clearing of millsite, drillsites, and tailings area, 2.03 hectares, covering Mineral Lease M-20R and PV 2; backhoe trenching, 90 by 1 by 2 metres, covering PV 1 and 2; scraper trenching, 90 by 1 by 1 metres, covering PV 2.

REFERENCES: Mineral Inventory 921/SE-115; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 149.

ARGUS (Fig. E-1, NTS 92, No. 109)

LOCATION: Lat. 50° 21.5' Long. 120° 22' (921/8W)
NICOLA M.D. On the southeast shore of Stump Lake, immediately northeast of Mineral Hill.

CLAIMS: ARGUS 1 (12 units), ARGUS 2 to 4.

OWNER: AMORE MINERALS INC., 575 Richards Street, Vancouver V6B 2Z5.

DESCRIPTION: The drill hole encountered volcanic rocks only – an alternating sequence of intermediate to basic submarine flows. No significant alteration, mineralization, or structure was intersected and no obvious cause for a strong electromagnetic conductor was recognized.

WORK DONE: Linecutting, 11.9 kilometres; magnetometer survey, 11.9 kilometres; electromagnetic survey, 11 kilometres; surface diamond drilling, 1 BQ hole totalling 258 metres, all covering Argus 1.

REFERENCES: Assessment Reports 6724, 7133.

1978

(921/8W)

ULLA (Fig. E-1, NTS 92, No. 111)

LOCATION: Lat. 50° 24' Long. 120° 27' (921/8W)
NICOLA M.D. Six kilometres northwest of Stump Lake, on Deer
Creek, 2 kilometres west of Moore Creek.

CLAIMS: ULLA 1 to 6.

OWNER: ENVOY RESOURCES LTD., 335, 885 Dunsmuir Street, Vancouver
V6C 1N5.

METAL: Molybdenum.

DESCRIPTION: Granite intrudes hornfelsic sedimentary rocks. A copper soil anomaly
was not explained by the drilling. Molybdenite was noted in trenches.

WORK DONE: Percussion drilling, three holes totalling 304.8 metres on Ulla 3.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976,
p. E 96; Assessment Report 7003.

FRED (Fig. E-1, NTS 92, No. 112)

LOCATION: Lat. 50° 27' Long. 120° 26' (921/8W)
KAMLOOPS M.D. Centred 2.5 kilometres southeast of Lac Le Jeune.

CLAIMS: FRED, FRED 2 to 5 (68 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview
Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: The area is underlain by Tertiary acid intrusive rocks. Volcanic rocks of
the Upper Eocene Skaha Formation outcrop over a small area in the
northeast.

WORK DONE: Reconnaissance geological mapping (6 rock chip samples collected);
scintillometer survey; geochemical survey, 59 stream and lake silt
samples analysed for uranium, 46 stream and lake water samples
analysed for uranium, pH, HCO₃, and specific conductivity, and 2
heavy mineral samples analysed for silver, gold, tin, uranium, and
tungsten, all covering Fred, Fred 2-5.

STAKE (Fig. E-1, NTS 92, No. 113)

LOCATION: Lat. 50° 30' Long. 120° 27' (921/8W, 9W)
KAMLOOPS M.D. Immediately south of Stake Lake.

CLAIMS: STAKE 1 and 2 (30 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview
Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: Volcanic rocks of the Upper Triassic Nicola Group are overlain by
Upper Eocene volcanic and sedimentary rocks of the Kamloops Group.

WORK DONE: Reconnaissance geological mapping (2 rock chip samples collected);
scintillometer survey; geochemical survey, 56 stream and lake silt
samples analysed for uranium, 49 stream and lake water samples
analysed for uranium, pH, HCO₃, and specific conductivity, and 3
heavy mineral samples analysed for silver, gold, tin, uranium, and
tungsten, all covering Stake 1 and 2.

1978

(92I/9E)

RIVER SIDE (GOLDFIELDS) (Fig. E-1, NTS 92, No. 117)

LOCATION: Lat. 50° 41.5' Long. 120° 06' (92I/9E)
KAMLOOPS M.D. Fifteen kilometres east of Kamloops, 3 kilometres southeast of the summit of Mount Harper, on the east side of McGregor Creek.

CLAIM: MAC (6 units).

OWNER: Ian McCallum.

OPERATOR: WEST PROVIDENT RESOURCES LIMITED, 202, 900 West Pender Street, Vancouver V6C 1L1.

METALS: Silver, gold.

DESCRIPTION: The claim is underlain by Cache Creek argillites, greenstones, limestones, etc. These are cut by a north/south-trending shear zone containing veins and stockworks of quartz mineralized with pyrite and erratic but significant values in gold and silver.

WORK DONE: Geochemical survey, 55 soil samples analysed for silver.

REFERENCES: *Mineral Inventory 92I/NE-46; Minister of Mines, B.C., Ann. Rept., 1913, p. 193; 1914, p. 361; 1932, p. 145; 1934, p. D28; 1941, p. 24; B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1976, p. E 97; Geol. Surv., Canada, Mem. 249, pp. 69-72; Assessment Report 6817.*

NICK (Fig. E-1, NTS 92, No. 114)

LOCATION: Lat. 50° 31' Long. 120° 20.5' (92I/9W)
KAMLOOPS M.D. Eighteen kilometres south of Kamloops, between Menanteau, Nichol, and Brigade Lakes.

CLAIMS: NICK 1 to 3 (54 units).

OWNER: CANADIAN OCCIDENTAL PETROLEUM LTD., 311, 215 Carlingview Drive, Rexdale, Ontario M9W 5X8.

DESCRIPTION: The oldest rocks in the area are the Permian Cache Creek Group. The central part of the area is underlain by Upper Eocene volcanic rocks of the Kamloops Group.

WORK DONE: Reconnaissance geological mapping (14 rock chip samples collected); scintillometer survey; and geochemical survey, 281 stream and lake silt samples analysed for uranium, 46 stream and lake water samples analysed for uranium, pH, HCO₃, and specific conductivity, and 7 heavy mineral samples analysed for silver, gold, tin, uranium, and tungsten, all covering Nick 1 and 2.

GREY MASK, A, JD (Fig. E-1, NTS 92, No. 115)

LOCATION: Lat. 50° 34' Long. 120° 18' (92I/9W)
KAMLOOPS M.D. Centred 7 kilometres south-southeast of Knutsford, along the west side of Highway 5, between Separation and McLeod Lakes and Usher Creek.

CLAIMS: AND 1 to 5, LARK 1 to 4 (all restaked as AND 40, 50, 60, 70) and AND 8.

1978

(921/9W)

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.
METAL: Copper.
DESCRIPTION: Copper mineralization of the Afton type associated with intrusive phases of the Iron Mask batholith was sought.
WORK DONE: 1977 – geological mapping and geochemical survey, 32 rock samples, covering Lark 1-4; 1978 – percussion drilling, 2 holes totalling 146 metres on And 2 and 1 hole totalling 106 metres on And 3; induced polarization and ground magnetometer surveys, 6.5 kilometres each, covering And 4 and Lark 1, 2.
REFERENCES: Mineral Inventory 921/NE-15, 16, 124, 125; *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977*, p. E 150; Assessment Reports 6674, 6717, 6739, 6752.

KINGPIN (ACE), DEWEY (Fig. E-1, NTS 92, No. 116)

LOCATION: Lat. 50° 35' Long. 120° 20' (921/9W)
KAMLOOPS M.D. Centred 4 kilometres south of Knutsford, from Highway 5 at Separation Lake westward 5.5 kilometres.
CLAIMS: REG 1 to 14, BYR 1 to 10, ACE 1, GUS 1 Fraction, WILDROSE (20 units), WILDROSE 4 (1 unit), WILDROSE 6 (1 unit), WILDROSE 10 (2 units), BLACK BEAUTY (Lot 1560), ADMIRAL DEWEY (Lot 1561), CYCLONE (Lot 1562).
OWNERS: Cominco Ltd. and Great Plains Development Company of Canada, Ltd.
OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.
METAL: Copper.
DESCRIPTION: Copper mineralization was being sought in areas underlain by Iron Mask Hybrid phase and Cherry Creek and Sugarloaf units.
WORK DONE: Induced polarization and ground magnetometer surveys, 7.7 kilometres on Wildrose and 4.5 kilometres covering Byr 1, 3, Reg 5, 7, 9, 11, 12, Ace 1, and Black Beauty; percussion drilling, 9 holes totalling 651 metres on Wildrose and Wildrose 4, 6 and 12 holes totalling 873.4 metres on Reg 2, 11, Ace 1, and Black Beauty.
REFERENCES: Mineral Inventory 921/NE-19, 20, 21, 51, 118; *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977*, p. E 151; Assessment Reports 6767, 6803, 6820, 6826, 6860, 6991.

IRON MASK (DM) (Fig. E-1, NTS 92, No. 118)

LOCATION: Lat. 50° 40' Long. 120° 27' (921/9W)
KAMLOOPS M.D. From 7 to 12 kilometres west of Kamloops, on both sides of the Trans-Canada Highway.
CLAIMS: DM 55 to 57, 61 to 64, 71, 73, 75, 77, 96 to 99, 120, 121, 124, DM 2, 3, 5, 94, 95, and 99 Fractions, LORNA 1 to 4, AUDRA 1 Fraction, RO 5, 7 to 26, 47 to 52, 61, 63 to 65, EB 1 to 12, 14 to 19, REX 4 to 7 Fractions, DELLA 2, JAN 1 to 3, JAN 4 to 8 Fractions, MRO 1 to 8 and 10 to 14 Fractions, IRON CAP (Mineral Lease M-21, Lot 875), ERIN FR. (Lot 1066), NORMA (Lot 1302), IRON MASK (Lot 878),

SUNRISE (Lot 879), COPPER QUEEN (Lot 880), CIVIL FR. (Lot 1068), VICTOR (Lot 1340), MINT FR. (Lot 1342), EARNSCLIFF FR. (Lot 1301), EMORY (Lot 1050), NIGHTHAWK (Lot 1747), LUCKY STRIKE (Lot 1036), JUMBO FR. (Lot 1067), CHAMPION NO. 1 (Lot 5622), CHAMPION NO. 2 (Lot 5623), LS 6 (Lot 5624), LS 7 (Lot 5625), LS 8 (Lot 5628), LS 9 (Lot 5929), LS 10 (Lot 5627), LS 11 (Lot 5626), WINTY (Lot 4667), CON VERDANT (Lot 1341), MAY FR. (Lot 1311), SODIUM FR. (Lot 4666).

OWNER: Comet Industries Ltd.
 OPERATOR: CANADIAN SUPERIOR EXPLORATION LIMITED, 2201, 1177 West Hastings Street, Vancouver V6E 2K3.
 METALS: Copper, gold, silver.
 DESCRIPTION: The property covers many old showings including Lucky Strike, Iron Mask, Erin, Larsen, Iron Cap, and DM. Chalcopyrite occurs along the northeastern edge of the eastern part of the Upper Triassic Iron Mask batholith where major fault zones cut dioritic and basaltic rocks or where microdiorite and micromonzonite porphyries have intruded.
 WORK DONE: Percussion drilling, 22 holes totalling 1 897 metres on DM 96, Deb 2, 6, RO 11, 13, 14, Con Verdant, May Fr., Iron Cap, Jan 1, 2, and MRO 2.
 REFERENCES: Mineral Inventory 92I/NE-8, 10, 11, 18, 26, 30, 73, 74, 75, 127; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 154, E 155; Assessment Report 6805.

ZZ, WILL (Fig. E-1, NTS 92, No. 119)

LOCATION: Lat. 50° 41' Long. 120° 30' (92I/9W, 10E)
 KAMLOOPS M.D. Eleven kilometres west of Kamloops, immediately north of the Afton Mines' property and the Trans-Canada Highway.
 CLAIMS: ZZ 2 to 8, 15 to 20, 27 to 32, WILL 1 to 5, 7.
 OWNER: Horseshoe Mines Ltd.
 OPERATOR: CHINA COMMERCIAL CORPORATION LTD., 1555 Franklin Street, Vancouver V5L 1P3.
 WORK DONE: Surface diamond drilling, one AQ hole totalling 107 metres on ZZ 18.
 REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 156; Assessment Report 6706.

CHUM (Fig. E-1, NTS 92, No. 120)

LOCATION: Lat. 50° 31' Long. 120° 32' (92I/10E)
 KAMLOOPS M.D. Twenty-two kilometres southwest of Kamloops, at the head of Walloper Creek.
 CLAIMS: CHUM 1 to 9 (104 units).
 OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.
 METAL: Copper.
 DESCRIPTION: Pyrite and minor chalcopyrite are associated with chloritized diorite and diorite-monzonite breccia.

1978

(92I/10E)

WORK DONE: Induced polarization survey, 25 kilometres, covering Chum 1, 2, 4, 5, 8; ground magnetometer survey, 2 kilometres, covering Chum 8; geochemical survey, 18 rock samples analysed for copper and zinc.

REFERENCES: Mineral Inventory 92I/NE-67; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 156; Assessment Reports 4059, 6711.

TC, SPUR (DRG) (Fig. E-1, NTS 92, No. 122)

LOCATION: Lat. 50° 35' Long. 120° 39' (92I/10E)
KAMLOOPS M.D. Surrounding Roper Lake.

CLAIMS: HAPPY DAYS (20 units), HAPPY DAYS 3 (8 units).

OWNER: Keda Resources (1973) Ltd.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METAL: Molybdenum.

WORK DONE: Linecutting and induced polarization survey, 20.5 kilometres each, covering all claims.

REFERENCES: Mineral Inventory 92I/NE-71; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 156, E 157; Assessment Report 7052.

DOMINIC (Fig. E-1, NTS 92, No. 123)

LOCATION: Lat. 50° 35' Long. 120° 43' (92I/10E)
KAMLOOPS M.D. At the west end of Dominic Lake and 4 kilometres westward.

CLAIMS: DOMINIC LAKE (8 units), DOMINIC NORTH (10 units), DOMINIC SOUTH (20 units).

OWNER: CHARLES BOITARD, 2245 West 13th Avenue, Vancouver V6K 2S4.

WORK DONE: Induced polarization survey, 7 kilometres, and geochemical survey, 10 kilometres, covering all claims.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 157.

LED, NED (Fig. E-1, NTS 92, No. 121)

LOCATION: Lat. 50° 37' Long. 120° 38' (92I/10E)
KAMLOOPS M.D. Eleven kilometres south of the mouth of Cherry Creek at Kamloops Lake, on the north slope of Greenstone Mountain.

CLAIMS: GIL, GIL 2 (30 units).

OWNER: BARRIER REEF RESOURCES LTD., 904, 675 West Hastings Street, Vancouver.

METALS: (Copper, molybdenum).

DESCRIPTION: The claims are underlain by Nicola andesitic flows intruded by several small granitic plugs. Parts of the largest plug are hydrothermally altered and contain minor quartz veins carrying traces of chalcopyrite and molybdenite.

1978

(92I/11E)

WORK DONE: Geochemical survey, 147 soil samples analysed for copper and molybdenum, covering Gil 2.

REFERENCES: Mineral Inventory 92I/NE-122, 150; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, pp. 200, 201; Assessment Report 7073.

BARNESLEY (Fig. E-1, NTS 92, No. 124)

LOCATION: Lat. 50° 38.5' Long. 121° 01' (92I/11E)
KAMLOOPS M.D. Twenty kilometres southeast of Ashcroft and 3 kilometres southwest of Mount Fehr, on the headwaters of Guichon Creek.

CLAIMS: BARNESLEY 1 to 4 (48 units).

OWNER: UNITED HEARNE RESOURCES LTD., 14, 1199 West Hastings Street, Vancouver V0K 2J0.

METALS: (Copper, molybdenum).

DESCRIPTION: The Guichon and Bethlehem phases of the Guichon batholith are overlain by basaltic and andesitic lavas and agglomerates of the Kamloops Group. Chalcopyrite and molybdenite occur within the Guichon rocks.

WORK DONE: Magnetometer survey, 400 kilometres, covering all claims.

REFERENCES: Mineral Inventory 92I/NW-57; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 158, E 159; Assessment Report 6765.

BABY'S OWN (MOLY) (Fig. E-1, NTS 92, No. 125)

LOCATION: Lat. 50° 32.5' Long. 121° 17.5' (92I/11W)
KAMLOOPS M.D. Twenty kilometres south of Ashcroft, on the west side of the Thompson River and Highway 1, opposite the mouth of Coldstream Creek.

CLAIM: EM 77 (12 units).

OWNER: PENN ENERGY CORPORATION, 305, 1030 West Georgia Street, Vancouver V6E 2Y3.

METAL: Copper.

DESCRIPTION: The property is underlain by Nicola limestones and cherty limestones. Mineralization appears to be related to a skarn zone and to intermediate to basic dykes which intrude the limestone. Widespread chalcopyrite, associated with magnetite, occurs in northerly trending, steeply dipping shear zones. Assays have varied from 0.33 to 2.50 per cent copper.

WORK DONE: Ground electromagnetic survey, 22 kilometres; ground magnetometer survey, 22 kilometres; geochemical survey, 698 soil samples.

REFERENCES: Mineral Inventory 92I/NW-39; *Minister of Mines, B.C.*, Ann. Rept., 1951, p. 124; 1967, p. 149; Assessment Reports 155, 6713.

MARTEL (Fig. E-1, NTS 92, No. 127)

LOCATION: Lat. 50° 32.5' Long. 121° 20' (92I/11W)
 KAMLOOPS M.D. Centred 21 kilometres south-southwest of Ashcroft and 4 kilometres southwest of Spatsum, on the west side of Venables Creek.

CLAIM: MAR (18 units).

OWNER: VANTAGE RESOURCES LTD., 800, 543 Granville Street, Vancouver V6C 1X8.

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

DESCRIPTION: The Nicola Group of rocks comprises the surface geology. This main lithostratigraphic unit embraces quartzites, argillaceous sedimentary rocks, limestone, tuffs, and andesitic volcanic rocks, all of Late Triassic age. These rocks are intruded by small stocks of quartz diorite.

WORK DONE: Surface diamond drilling, 1 262 metres.

REFERENCES: Mineral Inventory 92I/NW-38; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 160, E 161.

LOFAR, SOFAR (Fig. E-1, NTS 92, No. 126)

LOCATION: Lat. 50° 34' Long. 121° 18.5' (92I/11W)
 KAMLOOPS M.D. Centred 17 kilometres south of Ashcroft, along the west side of the Thompson River, the Sofar claim being north of Indian Reserve 5 and the remainder south of Indian Reserve 5.

CLAIMS: LOFAR (18 units), LOFAR 2 (3 units), HIFAR (12 units), SOFAR (9 units).

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: (Copper, zinc, lead, gold, silver).

DESCRIPTION: Rhyolite and dacite pyroclastics are variably leached, silicified, and pyritized and impregnated with gypsum, locally talc and more rarely with trace barite, chalcopyrite, sphalerite, and galena.

WORK DONE: Surface geological mapping, 1:5000, covering Sofar, Lofar, and Hifar; geochemical survey, 377 soil samples analysed for copper, lead, zinc, and mercury, covering Sofar and Lofar; induced polarization survey, 5.9 kilometres; electromagnetic survey, 6.5 kilometres; and magnetometer survey, 6.5 kilometres, covering Lofar.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 228; 1973, p. 209 (Mars); Assessment Reports 3680, 6918.

PIKE (Fig. E-1, NTS 92, No. 129)

LOCATION: Lat. 50° 38.5' Long. 121° 59.5' (92I/12W)
 LILLOOET M.D. Seven kilometres southwest of Lillooet, between Enterprise, Cayoosh, and Phair Creeks.

CLAIMS: PIKE 1 to 8 (44 units).

OWNER: WILLIAM A. COOK, Box 398, Lillooet.

DESCRIPTION: A thick sequence of brown to green phyllites, quartz-sericite schists, argillaceous quartzites, and minor argillites of possible Mesozoic (or

older) age are intruded by a series of plugs and dykes of pale green, medium-grained feldspar porphyry. In the area of the intrusive rocks, mainly the north, several quartz carbonate veins, one of which returned low gold values, have been exposed by shallow hand trenches. Minor galena was exposed in one trench.

WORK DONE: Surface geological mapping, 1:5000, and geochemical survey, 67 soil and silt samples and 7 rock chip samples analysed for copper, zinc, silver, and gold.

REFERENCE: Assessment Report 6971.

BEATRICE (MAIDEN CR; AV) (Fig. E-1, NTS 92, No. 130)

LOCATION: Lat. 50° 58' Long. 121° 31.5' (921/13E)
CLINTON M.D. Twelve kilometres northwest of Carquile, on Maiden Creek, 2.5 kilometres southwest of Highway 97.

CLAIM: SNOW (12 units).

OWNER: Thomas M. Gibbeson.

OPERATOR: SEYMOUR RESOURCES LTD., 433, 355 Burrard Street, Vancouver.

METAL: Gold.

DESCRIPTION: Gold in the Coldwater conglomerates was first reported in 1901. Geochemical work in 1973 and 1978 produced anomalous gold-bearing zones. Further work is required to find the structural relationship between the gold-bearing stratum and the remainder of the Coldwater conglomerates.

WORK DONE: Geochemical survey, 184 soil samples and 29 rock chip samples analysed for gold.

REFERENCES: Mineral Inventory 921/NW-51; *Minister of Mines, B.C.*, Ann. Rept. 1901, p. 1091; 1931, p. 111; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, pp. 210, 211; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 1 (1932), pp. 71, 72; Assessment Reports 4304, 7063.

MAGGIE (Fig. E-1, NTS 92, No. 132)

LOCATION: Lat. 50° 55.4' Long. 121° 25' (921/14W)
KAMLOOPS M.D. Fourteen kilometres north-northwest of Cache Creek, on the west side of Highway 97.

CLAIMS: Mineral Lease M-33 (Lots 410 to 421), JB 1 to 3 and BC 1 and 2 (30 units), and 161 2 post claims including M, MO, and R.

OWNER: BETHLEHEM COPPER CORPORATION, 2100, 1055 West Hastings Street, Vancouver V6E 2H8.

METALS: Copper, molybdenum.

WORK DONE: Diamond drilling, 1 NQ hole totalling 53.4 metres on MM 3 Fraction (futile attempt at deepening a previous hole, no new coring).

REFERENCES: Mineral Inventory 921/NW-15; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 162, E 163; Assessment Report 7051.

FERGUSON CREEK (Fig. E-1, NTS 92, No. 131)

LOCATION: Lat. 50° 57' Long. 121° 23.5' (92I/14W)
 KAMLOOPS M.D. Six kilometres north-northeast of Carquile, on Ferguson Creek, 3.5 kilometres from the Bonaparte River.

CLAIM: TIK 1 (12 units).

OWNER: ST. JOSEPH EXPLORATIONS LTD., 970 Laval Crescent, Kamloops V2C 5P5.

METALS: Chromium, iron.

DESCRIPTION: In the area of Scottie and Ferguson Creeks, numerous bodies of chromite-bearing serpentine occur within Cache Creek rocks.

WORK DONE: 1977 – ground magnetometer survey, 14.5 kilometres.

REFERENCES: Mineral Inventory 92I/NW-35; *Geol. Surv., Canada*, Mem. 262, pp. 98, 99; Assessment Report 6662.

ALLIES (Fig. E-1, NTS 92, No. 133)

LOCATION: Lat. 50° 52.5' Long. 120° 34' (92I/15E)
 KAMLOOPS M.D. Twenty-eight kilometres northwest of Kamloops, on Cannell Creek, 2 kilometres east of Sydney Lake.

CLAIM: CANNEL (20 units).

OWNER: YAMOTO INDUSTRIES LTD., 1029, 510 West Hastings Street, Vancouver V6C 9Z9.

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

WORK DONE: Surface diamond drilling, 8 holes totalling 730 metres.

REFERENCES: Mineral Inventory 92I/NE-44; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, pp. E 105, E 106; Assessment Report 7085.

PEMBERTON 92J**CU-MOLY (Fig. E-1, NTS 92, No. 146)**

LOCATION: Lat. 50° 02' Long. 122° 32.5' (92J/2E)
 NEW WESTMINSTER M.D. On the west side of the Lillooet River, centred 2 kilometres south of the south end of Lillooet Lake and Billygoat Creek.

CLAIMS: CU-MOLY 1 to 8 (23 units and four 2 post claims).

OWNER: GEORGE L. NAGY, 48989 Elk View Road, RR 2, Sardis V0X 1V0.

METALS: Copper, molybdenum.

DESCRIPTION: Pyrite, molybdenite, and chalcopyrite occur within interbedded meta-sedimentary and metavolcanic rocks of the Fire Lake Group. These rocks of Late Jurassic to Early Cretaceous age have been subsequently intruded by a diorite pluton. At least two stages of intrusion occur within the area. The intrusive rocks are diorite, feldspar porphyry, and granodiorite.

1978

(92J/3E)

WORK DONE: Surface geological mapping, 1:10 000, and trenching, 24 cubic metres, covering Cu-Moly 1.

REFERENCE: Mineral Inventory 92J/SE-26.

VENETIAN (Fig. E-1, NTS 92, No. 54)

LOCATION: Lat. 50° 00' Long. 123° 06' (92G/14E, 92J/3E)
Report on this property in NTS 92G.

ZONE 4 (Fig. E-1, NTS 92, No. 142)

LOCATION: Lat. 50° 04' Long. 123° 07' (92J/3E)
VANCOUVER M.D. One kilometre northwest of McGuire.

CLAIM: DICK (3 units).

OWNER: VAN SILVER MINES LTD., 501, 409 Granville Street, Vancouver.

METALS: Zinc, silver, copper.

WORK DONE: 1977 – surface diamond drilling, four BQ holes totalling 173.6 metres on Dick.

REFERENCES: Mineral Inventory 92J/W-24; B.C. Ministry of Energy, Mines & Pet. Res., Geological Fieldwork, 1977, pp. 96-102; Assessment Report 7032.

HANS, PET (Fig. E-1, NTS 92, No. 143)

LOCATION: Lat. 50° 07' Long. 123° 08' (92J/3E)
VANCOUVER M.D. Ten kilometres north of Brandywine Falls, on the west side of Callaghan Creek.

CLAIMS: HANS (8 units), PET (4 units), BLITZEN (4 units), PRANCER (16 units), ANGEL (8 units), COMET (4 units), CUPID (4 units), DASHER (12 units), RUDOLF (8 units).

OPERATOR: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

DESCRIPTION: The claims are located within the Callaghan Creek roof pendant which is composed of volcanic/sedimentary rocks and lies within the southern part of the Coast Plutonic Complex. The claims are underlain by volcanic units of the Early Cretaceous Gambier Group.

WORK DONE: Geochemical survey, 600 soil samples analysed for copper, lead, and zinc, covering Hans, Pet, Comet, and parts of Prancer, Dasher, and Rudolf.

REFERENCES: Minister of Mines, B.C., Ann. Rept., 1968, p. 75 (Tarn); B.C. Ministry of Energy, Mines & Pet. Res., GEM, 1969, p. 191; B.C. Ministry of Energy, Mines & Pet. Res., Geological Fieldwork, 1977, pp. 96-102; Mineral Deposits in the Callaghan Creek Area, Southwestern British Columbia, CIM, Abstracts of 80th Annual Meeting, pp. 73, 74; Assessment Reports 1577, 6745.

NORTHAIR (WARMAN) (Fig. E-1, NTS 92, No. 144)

- LOCATION:** Lat. 50° 07.5' Long. 123° 06' (92J/3E)
VANCOUVER M.D. Ten kilometres north of Brandywine Falls and 2 kilometres east of Callaghan Creek.
- CLAIMS:** WARMAN 2, 3, 5, 10 to 13, 17, 18, CAT 1 to 32, 35 to 37, 382, DOG 1 to 55, 59 to 66, 67T to 70T, PINTO 1 to 14, BERT 4, 6, 7, 9 Fractions, FASS 207 Fraction, PIN 1 to 3 Fractions (Production Lease 1).
- OWNER:** NORTHAIR MINES LTD., 333, 885 Dunsmuir Street, Vancouver V6C 1N5.
- METALS:** Gold, silver, lead, zinc, copper.
- DESCRIPTION:** The mine consists of three faulted sections of the same vein, cutting a volcanic pendant at an oblique angle to the bedding. The veins strike northwest and dip at 80 to 90 degrees. They vary in width from 1 to 12 feet and are composed of quartz carbonate. The gold is most abundant in the Warman zone, the silver in the Manifold zone, and the base metals in the Discovery zone.
- WORK DONE:** Mapping, 17 trenches totalling 945.5 metres, and geochemical survey, 150 soil samples analysed for gold, silver, lead, zinc, and copper, covering Warman 9, 14-16, Dog 17, Cat 29, 30, 35, 36.
- REFERENCES:** Mineral Inventory 92J/W-12 (formerly 92J/W-89); *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, pp. 200-202; *Cdn. Mining Jour.*, March, 1977.

SANTA (Fig. E-1, NTS 92, No. 145)

- LOCATION:** Lat. 50° 10.5' Long. 123° 08' (92J/3E)
VANCOUVER M.D. Sixteen kilometres due north of Brandywine Falls, centred 3.5 kilometres southeast of Callaghan Lake.
- CLAIMS:** SANTA (20 units), SANTA NORTH (6 units), SANTA SOUTHEAST (2 units), SANTA EAST (3 units), SANTA SOUTH (2 units).
- OWNER:** LAKEWOOD MINING CO. LTD., 2245 West 13th Avenue, Vancouver V6K 2S4.
- WORK DONE:** Induced polarization survey, 2 500 metres, and geochemical survey, 100 soil samples analysed for lead, zinc, copper, and silver, covering Santa.
- REFERENCE:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 166.

GL (Fig. E-1, NTS 92, No. 147)

- LOCATION:** Lat. 50° 16.5' Long. 123° 01' (92J/6E)
LILLOOET M.D. One kilometre south of Rutherford Creek and 10 kilometres west of the Highway 99 bridge over Rutherford Creek.
- CLAIMS:** GL, GL 1 to 4 (30 units).
- OWNER:** John McGoran.

1978

(92J/9W)

OPERATOR: RAINBOW SYNDICATE, 3091 West Third Avenue, Vancouver V6U 1M9.
DESCRIPTION: The area is underlain by pyritiferous intermediate pyroclastics and flows (Early Cretaceous?).
WORK DONE: Two trenches totalling 100 metres; geochemical survey, 1 500 soil samples analysed for copper, lead, zinc, silver, and gold, covering all claims.
REFERENCE: Assessment Report 6976.

WM (ED) (Fig. E-1, NTS 92, No. 134)

LOCATION: Lat. 50° 31' Long. 122° 24' (92J/9W)
LILLOOET M.D. Seven kilometres southeast of D'Arcy, on the north side of Haylmore Creek.
CLAIM: WM (6 units).
OWNER: M. P. WARSHAWSKI, 6326 Montgomery Street, Vancouver V6M 2X8.
METALS: Copper, silver.
DESCRIPTION: The claim area appears to be underlain by a series of Late Paleozoic and/or Early Mesozoic sedimentary and volcanic rocks which have been intruded by granitic rocks of chiefly Jurassic age. Mineralization comprises pyrite in sedimentary and metamorphic rocks and chalcopyrite and silver minerals in granitic rocks. The deposit appears to be of the porphyry copper type.
WORK DONE: Prospecting.
REFERENCES: Mineral Inventory 92J/NE-38; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1971, pp. 307, 308; Assessment Reports 2864, 6716.

SALAL (Fig. E-1, NTS 92, No. 148)

LOCATION: Lat. 50° 47' Long. 123° 24' (92J/14W)
LILLOOET M.D. Sixty-four kilometres northwest of Pemberton, on the north side of the east fork (Lost Fork) of Salal Creek, in Athelney Pass.
CLAIMS: SALAL 1 to 4, 6 to 13 (189 units).
OWNERS: Utah Mines Ltd. and B.P. Minerals Limited.
OPERATOR: UTAH MINES LTD., 1600, 1050 West Pender Street, Vancouver V8E 3S7.
METAL: Molybdenum.
DESCRIPTION: The Salal Creek pluton is a complex comagmatic intrusion of Tertiary age that has been passively intruded into the regionally metamorphosed Coast Range Intrusive Complex. The rocks of the pluton form a continuous differentiating series with a modal composition of a quartz monzonite. Mineralization appears to be structurally controlled.
WORK DONE: Surface geological mapping, 1:5000, and geochemical survey, 578 rock samples analysed for fluorine, zinc, tungsten, and molybdenum, covering Salal 6, 9-13.

REFERENCES: Mineral Inventory 92J/W-5 to 8, 13 (formerly 92J/W-70 to 73, 91); *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 168; Assessment Report 6759, 6999.

VERITAS (Fig. E-1, NTS 92, No. 141)

LOCATION: Lat. 50° 30.5' Long. 122° 56' (92J/15W)
LILLOOET M.D. Six kilometres west-southwest of Gold Bridge, on the north side of Downton Lake, westward from Lajoie Lake.

CLAIMS: RANCH, VERITAS, VERITAS 2 (Lots 2355 to 2357), and ARTOMAS, ARTOMAS 2 to 5 (28 units).

OWNER: WILLIAM A. COOK, Box 398, Lillooet.

METALS: Gold, lead.

DESCRIPTION: The majority of the Artomas claims are underlain by sedimentary rocks of the Upper Triassic Hurley Formation. Several northwest-trending, serpentinized ultrabasic bodies cut the Hurley Formation rocks and andesitic volcanic rocks in the northwest portion of the claims. At the Veritas showing (Ranch claim), a northwesterly trending band of diorite is in close association with serpentinized ultrabasic rocks. The country rock is andesitic volcanic. Subparalleling the diorite/serpentine contact is a quartz vein(s) and/or shear zone that has been explored by at least four adits. Mineralization comprises pyrite, arsenopyrite, and minor concentrations of galena and chalcopyrite.

WORK DONE: Surface geological mapping, 1:5000, covering Artomas and Ranch; geochemical survey, 62 soil and silt samples and 4 rock samples analysed for copper, zinc, and gold, covering Artomas.

REFERENCES: Mineral Inventory 92J/NE-31; *Minister of Mines, B.C.*, Ann. Rept., 1932, p. 218; 1933, p. 268; *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 3, p. 35; *Geol. Surv., Canada*, Mem. 130, p. 95; Mem. 213, p. 131; Assessment Report 6971.

BRALORNE (Fig. E-1, NTS 92, No. 136)

LOCATION: Lat. 50° 46.5' Long. 122° 48' (92J/15W)
LILLOOET M.D. Five kilometres south-southeast of Gold Bridge, on the east side of Cadwallader Creek.

CLAIMS: BLACKBIRD (Lot 1176), IDA MAY (Lot 457).

OWNER: Bralorne Resources Limited.

OPERATOR: BRALORNE MINE MUSHROOMS, Bralorne VOK 1P0.

WORK DONE: The operators are engaged in an experimental mushroom project. The work is being carried out in the main haulage tunnel (8 level) of the Bralorne mine.

ELEPHANT (Fig. E-1, NTS 92, No. 137)

LOCATION: Lat. 50° 49.5' Long. 122° 49.5' (92J/15W)
LILLOOET M.D. Three kilometres south of Gold Bridge, between the Bralorne Road and Hurley River.

CLAIM: ELEPHANT (Lot 444).
 OWNER: G. A. ROSE, Box 721, Lillooet V0K 1V0.
 METALS: Gold, silver, arsenic.
 WORK DONE: Linecutting.
 REFERENCES: Mineral Inventory 92J/NE-21; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 168.

BRX (CALIFORNIA, ARIZONA) (Fig. E-1, NTS 92, No. 138)

LOCATION: Lat. 50° 50' Long. 122° 50' (92J/15W)
 LILLOOET M.D. From Gold Bridge southward to the Bralorne property, a distance of 5.3 kilometres.
 CLAIMS: Fifty-six surveyed claims including CALIFORNIA (Lot 3173) and ARIZONA (Lot 3176).
 OWNER: HAT CREEK ENERGY CORPORATION, Box 466, Lillooet.
 METALS: Gold, tungsten, silver, copper, zinc, molybdenum.
 DESCRIPTION:

The rock formations underlying this property include volcanic and sedimentary rocks of the Fergusson Group of Permian age, a large body of Bralorne augite-diorite, and other intrusive rocks. The Bralorne diorite grades into a belt of volcanic rocks correlated with the Pioneer Formation. In faulted relationship to members of the Fergusson Group is a partly synclinal belt of sedimentary rocks of the Hurley Formation. The general trend of these rocks is northerly, lengthwise of the property.

The California workings explore vein deposits in a shear that has been traced about 750 metres over the California and Oregon claims. The average strike of the shear is north 60 degrees west and dips vary from 45 degrees to 60 degrees northeast. It varies in width from several centimetres to 9 metres. The vein consists of quartz with disseminations and streaks of pyrite, arsenopyrite, and a little free gold. Narrow stringers and widely scattered grains of scheelite are also reported.

The Gloria Kitty workings encountered two sets of vein-bearing fissures, one striking west and the other more northwest. The country rocks include an intimate association of dioritic and greenstone types and are intersected by a dyke or small stock of quartz albite. Vein quartz deposits along the fissures are small, discontinuous, and sparsely mineralized with pyrite and arsenopyrite.

The Arizona workings are mainly in augite-diorite and associated minor bodies of greenstone-diorite. Two short adits follow fissures. The more northerly strikes north 50 degrees west and dips 55 degrees north. The quartz vein is well defined and varies from several centimetres to 0.6 metre in width. It is ribboned, mineralized with pyrite, galena, sphalerite, and chalcocite and contains gold and silver values. The second fissure curves, striking, in part, about north 35 degrees west and, in part, about north 65 degrees west. Dips are northeasterly at 45 degrees to 60 degrees. It is up to 1 metre wide and followed by a narrow, discontinuous quartz vein mineralized with chalcocite, sphalerite, pyrite, and chalcopyrite and stained with copper carbonates and iron oxide. Gold and silver values were reported.

The Golden Gate adit was driven along a wide shear that strikes north 20 degrees west and dips to the northeast. The shear intersects diorite and quartz albitite. Small concentrations of needle-like prisms of arsenopyrite carry gold values.

In 1937, a sample weighing 63.5 kilograms was sent to the Mines Branch in Ottawa for analyses. Assays from this investigation ran 21.3 grams per tonne gold, 5.1 grams per tonne silver; 0.01 per cent copper; 4.60 per cent iron; 2.68 per cent sulphur; and 0.14 per cent arsenic.

WORK DONE: Reclamation, road repair, and installation of underground track air pipe and fan pipe (670.6 metres), covering Arizona, Golden Gate, and Gloria Kitty; diamond drilling, 69.5 metres, on Arizona.

REFERENCES: Mineral Inventory 92J/NE-20 to 26; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 168, E 169.

WAYSIDE (Fig. E-1, NTS 92, No. 139)

LOCATION: Lat. 50° 53' Long. 122° 49.5' (92J/15W)
LILLOOET M.D. Three kilometres north-northeast of Gold Bridge, on the northwest shore of Carpenter Lake.

CLAIMS: Mineral Lease M-57 (WAYSIDE, Lot 3036) plus Lots 3037 to 3040, 5471, 5503 to 5507, 5509 to 5511, 5513, 5515, 5912 to 5918, 6955, 6956.

OWNER: CARPENTER LAKE RESOURCES LTD. (formerly Dawson Range Mines Ltd.), Box 466, Lillooet V0K 1V0.

METAL: Gold.

WORK DONE: Prospecting; stripping, 200 metres; and road construction, 600 metres, covering Wayside.

REFERENCES: Mineral Inventory 92J/NE-30; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 170.

CONGRESS (STIBNITE, ACE) (Fig. E-1, NTS 92, No. 140)

LOCATION: Lat. 50° 53.5' Long. 122° 48' (92J/15W)
LILLOOET M.D. Six kilometres northeast of Gold Bridge, on the north side of Carpenter Lake.

CLAIMS: ACE 16 to 20, 22 to 28, NAP 1, 3, 4 (20 units), POT Fraction, KETTLE Fraction, STIBNITE 1 to 4 (Lots 7236 to 7239), ROBERT Fraction, DAVID Fraction, SNOW FLAKE Fraction, TX NO. 1 Fraction.

OWNER: NEW CONGRESS RESOURCES LTD., 626 West Pender Street, Vancouver V6B 4K9.

METALS: Gold, silver, antimony.

WORK DONE: Surface diamond drilling, four BQ holes totalling 170 metres on Nap claims.

REFERENCES: Mineral Inventory 92J/NE-29; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 170.

HILLSIDE (Fig. E-1, NTS 92, No. 135)

LOCATION: Lat. 50° 53' Long. 122° 43' (92J/15E)
LILLOOET M.D. Nine kilometres northeast of Gold Bridge, on the south side of Carpenter Lake, 2 kilometres east of Girl Creek.

CLAIMS: ALTA 5 to 8, HILLSIDE 1 to 3, 5, 6, 8, ALTA 2 FR., HILLSIDE EXTENSION 3 and 4 (Lots 6270, 6269, 6272, 6271, 6273, 6274, 6277, 6278, 6279, 6281, 6283, 6276, 6275).

OWNER: D. B. INGRAM, Box 1219, Lillooet V0K 1V0.

METALS: (Gold, silver, zinc).

DESCRIPTION: Two parallel quartz veins carrying minor gold and silver values are presently being opened on Hillside 5 and 6 (Lots 6278 and 6279) to determine if values will improve with depth.

WORK DONE: Stripping, 160 square metres on Hillside 5 and 250 square metres on Hillside 6.

REFERENCE: *Minister of Mines, B.C.*, Ann. Rept., 1934, p. F31 (describes mineralization and work performed on adjoining claims to west, formerly Olympic Gold Mines Ltd.).

BUTE INLET 92K**COPPER BELL, COPPER HILL (Fig. E-1, NTS 92, No. 149)**

LOCATION: Lat. 50° 07' Long. 125° 16' (92K/3W)
NANAIMO M.D. On Quadra Island, 4 kilometres northwest of Heriot Bay village.

CLAIMS: COPPER BELL 1 and 2, COPPER HILL 1 and 2, EPSILON FR., EVELYN 1 to 3, KAPPA FR., BEAVER DAM 1 and 2, BIT 1 and 2, CLIFF 1 and 2, COPPER CLIFF.

OWNER: Quadra Mining Co. Ltd.

OPERATOR: QUADRA BELL MINING CO. LTD., 1161 South Alder Street, Campbell River V9W 1Z8.

METALS: Copper, (silver).

DESCRIPTION: Chalcocite occurs in basalts.

WORK DONE: Two trenches, 15 metres total length; stripping, 200 square metres.

REFERENCES: Mineral Inventory 92K-52, 58, 71 to 74, 103, 118, 119; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 125; 1977, p. E 172.

ALERT BAY 92L**EXTENSION 5, 7, 9 (Fig. E-1, NTS 92, No. 41)**

LOCATION: Lat. 50° 01.5' Long. 126° 47' (92L/2W)
ALBERNI M.D. Six kilometres northeast of Zeballos, between Gold Valley and Curly Creeks.

CLAIMS: EXTENSION 5 (Lot 1048), EXTENSION 7 (Lot 1714), EXTENSION 9 (Lot 1713), RIMY 1 (Lot 1902), RIMY 6 (Lot 1901), RIMY 7 (Lot 1768), RIMY 5 (Lot 1767), RIMY 8 (Lot 1766), H&J 7 (Lot 1997), H&J 8 (1998), ZA Fraction, ZB Fraction, ZC Fraction.

OWNER: GOLDEN HINDE MINES LTD., c/o W. Guppy, Box 94, Tofino V0R 2Z0.

DESCRIPTION: The claims are underlain mainly by rocks of the Island intrusions.

WORK DONE: Prospecting mainly on Extension 5, 7, and 9.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res., Bull. 27; Geol. Surv., Canada, Mem. 272; Assessment Report 7012.*

FIL (Fig. E-1, NTS 92, No. 42)

LOCATION: Lat. 50° 01' Long. 127° 06.5' (92L/3E)
ALBERNI M.D. Twenty kilometres west-northwest of Zeballos, on the southern side of Amai Inlet.

CLAIMS: AMAI GOLD (6 units), CACHALOT GOLD (6 units), NARROWGUT GOLD (4 units), PHIL MILL (1 unit).

OWNER: DAVID W. MURPHY, Box 142, Vananda V0N 3K0.

METALS: Gold, zinc, (copper, tellurides).

DESCRIPTION:

A Jurassic pluton intrudes Bonanza volcanic rocks. North/south-trending, dyke-filled shear zones and numerous quartz veins containing gold-bearing sulphides and free gold dominate the known mineralized zones. Anomalous geochemical rock and soil samples in the volcanic rocks indicate potential in that area. Mineralization observed so far consists of pyrite, the most abundant, black sphalerite, sparse chalcopyrite, and free gold. Tellurides have been observed but the species have not yet been identified. The visible gold is hosted by pure white nonporous quartz and also occurs in areas of brown oxidized pyrite as well as adhering to the faces of black sphalerite crystals. Much of the visible gold is crystalline and specimens collected so far range in size from microscopic to grains the size of a small pea.

The showings were developed by three adit levels in the early 1940's.

WORK DONE: Prospecting; surface geological mapping, 1:5000, covering all claims; geochemical survey, 167 soil and 22 rock samples analysed for gold; 2 trenches totalling 6 metres; trail cutting, 4.5 kilometres; linecutting, 4 kilometres; underground channel sampling, covering Amai Gold.

REFERENCES: Mineral Inventory 92L-33; *B.C. Ministry of Energy, Mines & Pet. Res., GEM, 1974, p. 209 (TV); Geol. Surv., Canada, Paper 74-8, p. 59; Assessment Report 7062.*

LITTLE LAKE, POWER (Fig. E-1, NTS 92, No. 43)

LOCATION: Lat. 50° 14.5' Long. 127° 29' (92L/3W)
ALBERNI M.D. Thirty kilometres southwest of Port Alice, centred 4 kilometres north of the north end of Power Lake.

1978

(92L/11W)

CLAIM: LIT 1 to 56.
OWNER: GEO-LON VENTURES LTD., 150, 890 West Pender Street, Vancouver V6C 1J9.
METALS: Iron (copper).
DESCRIPTION: The Power River deposits are contact metasomatic replacements of volcanic flows and related pyroclastics by magnetite and minor pyrite. Discontinuous lenses extend for 5.6 kilometres in a narrow band extending along a ridge and steep slope. At Contact Lake, 8 diamond-drill holes were completed along the easterly side of the ridge, in the area of the Little Lake showing. Minor iron (magnetite) and copper values were observed and further drilling is planned.
WORK DONE: Diamond drilling, 8 XRT holes totalling 135.7 metres, on Lit 2, 6.
REFERENCES: Mineral Inventory 92L-2, 3; *Minister of Mines, B.C.*, Ann. Rept., 1961, p. 100; 1962, pp. 98, 99; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, pp. 210, 211; Assessment Reports 379, 5375, 6831.

FRANCES, LITTLE JOE (Fig. E-1, NTS 92, No. 44)

LOCATION: Lat. 50° 38.3' Long. 127° 29' (92L/11W)
NANAIMO M.D. Ten kilometres south of Port Hardy and 5 kilometres east of Quatse Lake.
CLAIM: CLIFF 78 (10 units).
OWNER: JOHN M. McANDREW, 8961 Ursus Crescent, Surrey V3V 6L3.
METALS: Copper, iron, zinc.
DESCRIPTION: Contact metasomatic deposits occur within Quatsino limestone and Karmutsen volcanic rocks which are cut by porphyry dykes. Chalcopyrite, magnetite, and sphalerite occur in skarn zones at footwall and hangingwall contacts.
WORK DONE: Partial sampling of some of the showings, 5 rock chip samples assayed for copper, silver, lead, zinc, arsenite, and cobalt over widths of 3.6 to 9 metres and one 23-kilogram bulk sample taken for mill and metallurgical tests.
REFERENCES: Mineral Inventory 92L-113, 159; *Minister of Mines, B.C.*, Ann. Rept., 1959, p. 132; 1963, p. 99; 1968, p. 90; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 266; Assessment Report 2381.

NORTH SHORE (LAKE) (Fig. E-1, NTS 92, No. 45)

LOCATION: Lat. 50° 42.5' Long. 127° 52' (92L/12W)
NANAIMO M.D. On the northwest shore of Nahwitti Lake.
CLAIMS: LAKE, LAKE 2 and 3, JEAN 1 to 10, FTR 1 to 15.
OWNER: F. T. RUSSELL, Box 5, RR 1, Heffley Creek V0E 1Z0.
METALS: Copper, zinc, silver, lead.
WORK DONE: Two trenches totalling 15 metres on Lake and FTR 2.
REFERENCES: Mineral Inventory 92L-77; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B. C., 1976, p. E 129.

MOUNT WADDINGTON 92N**DUCHARNE (COPPER QUEEN), NORFA (Fig. E-1, NTS 92, No. 150)**

LOCATION: Lat. 51° 11' Long. 124° 13' (92N/1E)
 CLINTON M.D. Centred 3 kilometres southwest of the west end of Franklyn Arm, between Deschamps and Good Hope Creeks.

CLAIMS: DAISIE 1 to 30.

OWNER: GORDON RESOURCES LTD., 4240 Manor, Burnaby.

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

DESCRIPTION:

Triassic volcanic and interbedded sedimentary rocks are intruded by Coast Range granodiorite and quartz diorite. Overlying younger sedimentary rocks are of Early Cretaceous age. Stocks of diorite are common near the major contacts.

Contact metamorphic deposits occur in altered limestone and in part may be subject to saddle reef control. The abundant minerals are chalcopyrite, bornite, pyrrhotite, pyrite, magnetite, molybdenite, sphalerite, and scheelite, with much skarnitization.

WORK DONE: Surface diamond drilling, 1 006 metres on Daisie 3 and 4.

REFERENCES: Mineral Inventory 92N-14, 15, 26; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 115.

HOODOO (VAN, BZT) (Fig. E-1, NTS 92, No. 151)

LOCATION: Lat. 51° 21' Long. 125° 36' (92N/5E)
 VANCOUVER M.D. Thirty kilometres north of the head of Knight Inlet, along Hoodoo Creek from 1 to 8.5 kilometres east of the Klinaklini River.

CLAIMS: BZT 1 to 9 (103 units).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L6.

METALS: Molybdenum, copper, silver, gold, lead, zinc.

DESCRIPTION:

Two high-level acid porphyry stocks of Miocene/Pliocene age intrude Coast Range quartz diorite. Acid porphyry dykes of several distinct types form an intense dyke swarm which post-dates and is centred on the stocks. Thick lahar deposits post-date all intrusive phases and cap the ridge top to the northwest.

Molybdenite and chalcopyrite occur in fracture and quartz vein stockworks in the two stocks. Quartz sulphide veins containing zinc, lead, copper, silver, and gold occupy late-stage shear zones.

WORK DONE: Base map preparation, 1:5000 (contoured orthophoto), covering BZT 3, 6-8 and 1:10 000 (topographic), covering all claims; surface geological mapping, 1:5000 and 1:10 000, and geochemical survey, 440 soil and rock chip samples analysed for copper, molybdenum, gold, silver, lead, and zinc, covering BZT 3, 6-9.

REFERENCES: Mineral Inventory 92N-29, 34; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 175; Assessment Reports 1668, 6819.

MOUNTAIN BOSS, BLUEBELL, BRITON—MONARCH (Fig. E-1, NTS 92, No. 152)

LOCATION: Lat. 51° 49' Long. 125° 04' (92N/14E)

CARIBOO M.D. Thirty-three kilometres west-southwest of Tatla Lake settlement, the Apex claims lying on the northeast ridge of Perkins Peak and the Crown-granted claims on the southeast slope of Perkins Peak.

CLAIMS: APEX 1 to 54 plus BLUEBELL, HEATHER, MONARCH, IRON, CROWN NO. 7, BRITON, BELCHER 1 to 8 reverted Crown-granted claims.

OWNER: Kleena Kleene Gold Mines Ltd.

OPERATOR: HUNTER POINT EXPLORATIONS LTD., 105 West Sixth Avenue, Vancouver V5Y 1K3.

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

DESCRIPTION:

On the Apex claims (*Mountain Boss, Commodore, and Bluebell adits*), large quartz veins or silicified zones, striking north and dipping vertically, occur in a series of Lower Cretaceous (?) sedimentary rocks. This series comprises black argillites, dark brown argillaceous sandstones, and fine, cherty conglomerate. In the area, the sedimentary rocks are cut by rocks of the Coast Range Plutonic Complex. A small diorite stock outcrops 1 kilometre southeast of the showings.

Sulphides, mainly arsenopyrite with some pyrite, occur as small lenses and aggregates disseminated throughout the silicified material and along quartz-filled fractures.

To the south, on the Briton and Monarch claims (Lots 1062 and 1076), hematite occurs in a bed of tuffs near the Coast Range contact. In places the tuff bed, 3 to 9 metres thick, is completely replaced by hematite.

WORK DONE: Diamond drilling, two AQ holes totalling 235.3 metres, on Apex 1, 3.

REFERENCES: Mineral Inventory 92N-10, 11, 12; *Minister of Mines, B.C.*, Ann. Rept., 1916, p. 166; 1921, p. 218; 1938, p. F38-F41, 1940, p. 57; 1945, p. 82; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 130; *Geol. Surv., Canada*, Summ. Rept., 1925, Pt. A, pp. 162, 163; Assessment Reports 2540, 5301, 5773, 6397, 6960.

EMM (Fig. E-1, NTS 92, No. 153)

LOCATION: Lat. 51° 58' Long. 124° 16' (92N/16)

CLINTON M.D. Centred 24 kilometres east-northeast of Tatla Lake settlement, extending northeastward from Eagle Lake through Buckhorn Lakes.

CLAIMS: EMM 1 to 4 (66 units).

OWNER: KELVIN ENERGY LIMITED, 940, 540 Fifth Avenue SW., Calgary, Alberta T2P 0M2.

DESCRIPTION: The area is covered mainly by glacial moraine. No outcrops were seen.

1978

(92N/16W)

WORK DONE: 1977 — fission track etch survey, scintillometer survey, geochemical soil survey, covering all claims; 1978 — grid established, 18.1 kilometres and ground magnetometer and VLF—EM surveys, 18.1 kilometres, covering EMM 2-4; airborne magnetometer and electromagnetic surveys, covering all claims.

REFERENCE: Assessment Report 6693.

CUMO 78 (Fig. E-1, NTS 92, No. 168)

LOCATION: Lat. 51° 54' Long. 124° 16' (92N/16W)
CLINTON M.D. Centred 4 kilometres southwest of the northeast end of Eagle Lake.

CLAIM: CUMO 78 (9 units).

OWNER: JOHN S. BURNS, Box 136, Lions Bay.

METAL: (Copper).

DESCRIPTION: Quartz biotite schist and quartz biotite gneiss are the main rock types exposed on the claim. Mineralization consists mainly of pyrite. Iron oxide staining is very common. Copper mineralization was located but is considered to be minor.

WORK DONE: Five hundred and forty samples collected in 1972 re-analysed for uranium and silver.

REFERENCES: Assessment Reports 4072, 4073, 7091.

TASEKO LAKES 920

GIANT, RED BIRD, BJ (Fig. E-1, NTS 92, No. 154)

LOCATION: Lat. 51° 20' Long. 122° 29' (92O/8W)
CLINTON M.D. Twenty-six kilometres south-southeast of Gang Ranch, surrounding Black Dome Mountain.

CLAIMS: DOME 1 to 3, 6, 7 (59 units), Lots 7871 to 7880, BLACK DOME 1 to 4.

OPERATOR: BARRIER REEF RESOURCES LTD., 904, 675 West Hastings Street, Vancouver.

METALS: Gold, silver.

WORK DONE: 1977 — surface geological mapping, 1:5000; geochemical survey, 97 rock samples and 55 silt samples analysed for gold, silver, and arsenic, covering Dome 1-3, 6, 7 (59 units).

REFERENCES: Mineral Inventory 92O-50 to 53, 66; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 268; 1974, pp. 222, 223; Assessment Report 6692.

JAY (Fig. E-1, NTS 92, No. 155)

LOCATION: Lat. 51° 48' Long. 123° 07' (92O/14E)
CLINTON M.D. Centred on Hutch Lake, 10 kilometres northwest of Big Creek settlement.

1978

(92P/5E, 6W)

CLAIMS: JAY 1 to 11 (208 units).
OWNER: F. T. Cousins.
OPERATOR: CANADIAN KELVIN RESOURCES LTD., 940, 504 Fifth Avenue SW., Calgary, Alberta T2P 0M2.
WORK DONE: 1977 – fission track etch, ground scintillometer, and geochemical soil surveys; 1978 – airborne electromagnetic and magnetometer surveys, covering all claims.
REFERENCE: Assessment Report 6693.

BONAPARTE RIVER 92P

BAF (Fig. E-1, NTS 92, No. 156)

LOCATION: Lat. 51° 20' Long. 121° 18' - 44' (92P/5E, 6W)
CLINTON M.D. Centred 10 kilometres northwest of 70 Mile House.
CLAIMS: BAF 1 to 31 (620 units).
OWNER: PACIFIC PETROLEUMS LTD., Box 6666, Calgary, Alberta T2P 6T6.
DESCRIPTION: Anomalous uranium values occur in alkaline lakes aligned along possible paleochannels which are now covered by Late Tertiary basalts. The drilling encountered no radioactivity.
WORK DONE: Surface geological mapping, 1:5000; linecutting, induced polarization survey, and magnetic and scintillometer survey, each 22.1 kilometres in 10 lines, covering Baf 9, 10, 13-16, 21, 22, 25; surface diamond drilling, 1 hole totalling 249 metres on Baf 10; percussion drilling, 10 holes totalling 1 289 metres on BAF 15, 16, 25; 41 water well samples taken.
REFERENCES: Mineral Inventory 92P-59, 60, 62 to 67; *Geol. Surv., Canada*, Mem. 118, 363.

WONDER (Fig. E-1, NTS 92, No. 157)

LOCATION: Lat. 51° 20' Long. 121° 03' (92P/6E)
CLINTON M.D. Centred 25 kilometres east-northeast of 70 Mile House, 4 kilometres east of Rayfield River and 8 kilometres north of Bonaparte River.
CLAIMS: WONDER 1 to 3 (58 units) (since lapsed).
OWNER: ESSO MINERALS CANADA LIMITED, 500 Sixth Avenue SW., Calgary, Alberta T2P 0S1.
DESCRIPTION: The property is underlain by Pliocene and/or Miocene olivine basalts and Triassic or Jurassic monzonites and granodiorites belonging to the Thuya and Takomkane batholiths. Minor malachite staining is associated with granodiorites. There is no visible uranium nor any detected through soil survey.
WORK DONE: Geochemical survey, 910 soil samples analysed for uranium and 5 rock samples analysed for copper and uranium, covering Wonder 1 and 3.

CC (CHU CHUA) (Fig. E-1, NTS 92, No. 158)

LOCATION: Lat. 51° 23' Long. 120° 03' (92P/8E)
KAMLOOPS M.D. Centred 9 kilometres east-northeast of Chu Chua station and 1 kilometre east of Chu Chua Mountain.

CLAIMS: CC 1 to 11 (150 units).

OWNERS: Vestor Explorations Ltd., Seaforth Mines Ltd., and Pacific Cassiar Limited.

OPERATORS: VESTOR EXPLORATIONS LTD. and PACIFIC CASSIAR LIMITED, 166, 10551 Shellbridge Way, Richmond V6X 2W9; SEAFORTH MINES LTD., 202, 11111 -- 87th Avenue, Edmonton, Alberta; and CRAIGMONT MINES LIMITED, 270 Seymour Street, Kamloops.

METALS: Copper, zinc, gold, silver.

DESCRIPTION: Stratabound massive sulphide mineralization occurs within the Mississippian Fennel Formation. The footwall rock is a felsic, silicified tuff containing stringers and veinlets of pyrite with chalcopyrite. The mineralized zone comprises massive pyrite up to 20 metres thick with blebs and stringers of chalcopyrite, minor sphalerite, and values in gold and silver. Minor gangue consists of calcite and ankerite. The hangingwall rock is a pyroxene andesite.

WORK DONE: Prospecting, surface geological mapping, and geochemical survey, 20 soil samples analysed for copper and zinc, covering CC1; VLF-EM and magnetometer surveys, 25 kilometres each, covering CC 1-4; surface diamond drilling, 23 BQ holes totalling 2 843.2 metres, on CC 1 and 4.

REFERENCES: Mineral Inventory 92P-140; Assessment Report 7110.

CW (Fig. E-1, NTS 82, No. 253)

LOCATION: Lat. 51° 37' Long. 120° 00' (82M/12W; 92P/9E)
Report on this property in 82M/12W.

SONJA (Fig. E-1, NTS 92, No. 160)

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.

CLAIMS: SONJA 3, SONYA 2 (Lot 6201).

OWNER: ROBERT J. FRANKS, Box 70, Vavenby V0E 3A0.

METALS: Gold, silver, copper, molybdenum.

WORK DONE: Trenching in soil, 12 metres long, 3 metres wide, and 2 metres deep; rock pit, 3 metres by 3 metres by 3 metres, covering Sonja 3.

REFERENCES: Mineral Inventory 92P-49; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 132.

1978

(92P/9E)

JEWEL (Fig. E-1, NTS 92, No. 159)

LOCATION: Lat. 51° 41' Long. 120° 03.5' (92P/9E)
CARIBOO M.D. Five kilometres northwest of Clearwater, on the west side of the Clearwater River, immediately north of Gates Creek.

CLAIMS: JEWEL 1 to 8.

OWNER: FRANK BLACKMAN, Box 81, Valemount V0C 2Z0.

WORK DONE: One pit, 5 metres, on Jewel 7.

SO (BOG) (Fig. E-1, NTS 92, No. 169)

LOCATION: Lat. 51° 37' Long. 120° 30' (92P/9W, 10E)
CLINTON M.D. At the headwaters of Windy Creek, centred 4 kilometres northwest of Friendly Lake.

CLAIMS: BOG 3 to 42, 44, 46, 48, 50, FRI 1 to 11, 13, 15, 17 to 31.

OWNER: G. H. Rayner & Associates Ltd.

OPERATOR: COMMONWEALTH MINERALS LTD., 706, 675 West Hastings Street, Vancouver V6B 1N2.

METAL: Copper.

DESCRIPTION: Nicola volcanic rocks are intruded by rocks ranging from leucogranite to leucosyenite. Chalcopyrite and chalcocite occur disseminated and in veins in monzonite.

WORK DONE: Two control grids established; soil geochemical survey for copper and silver; and limited Crone electromagnetic orientation survey.

REFERENCES: *Mineral Inventory 92P-7; Minister of Mines, B.C., Ann. Rept., 1965, p. 159; 1966, p. 143; 1967, p. 133; 1968, p. 167; B.C. Ministry of Energy, Mines & Pet. Res., GEM, 1970, p. 304; 1972, p. 321, 1973, p. 277; 1974, p. 226; B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1975, p. E 121; Assessment Reports 753, 952, 1966, 3900, 4836, 5137.*

WD (FF, YEP) (Fig. E-1, NTS 92, No. 161)

LOCATION: Lat. 51° 55' Long. 121° 22' (92P/14W)
CLINTON M.D. Centred 12 kilometres northeast of Lac la Hache village, on Timothy Creek, 7 kilometres northwest of Timothy Lake.

CLAIMS: WESTIM, WESTIM 2 and 3, RAINBOW 1 to 3 (71 units).

OWNER: Clifford E. Gunn.

OPERATOR: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.

METALS: Silver, lead, zinc, copper.

DESCRIPTION: The property is underlain by Skull Hill Formation volcanic rocks consisting of trachytic andesite and agglomerate. Mineralization occurs as veins within sheared and altered zones. Vein content varies from massive galena to variable amounts of galena, chalcopyrite, sphalerite, quartz, and calcite.

1978

(92P/16W)

WORK DONE: Linecutting, 22.85 kilometres; surface geological mapping, 1:2500; and geochemical survey, 855 soil samples analysed for copper, zinc, lead, molybdenum, and silver, covering Westim and Westim 2.

REFERENCES: Mineral Inventory 92P-33; *Minister of Mines, B.C.*, Ann. Rept., 1966, p. 135; 1967, p. 126; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, pp. 322, 323; 1973, p. 277; 1974, pp. 226, 227; Assessment Reports 3817, 4544, 5067.

GRIT (Fig. E-1, NTS 92, No. 162)

LOCATION: Lat. 51° 52' Long. 120° 17' (92P/16W)
KAMLOOPS M.D. Centred 30 kilometres north-northwest of Clearwater, eastward and southward from Maury Lake.

CLAIMS: GRIT 1 to 9 (totalling approximately 100 units).

OPERATOR: AQUITAINE COMPANY OF CANADA LTD., 540 Fifth Avenue SW., Calgary, Alberta T2P 0M4.

DESCRIPTION: One piece of float contains lead mineralization in pyritic quartzite. The basement rock is mica schist and chlorite quartzite overlain by black carbonaceous phyllites and quartzite (Sicamous Formation) and green diorite (Fennel Formation). A small intrusion of K-feldspar biotite granite is present.

WORK DONE: Surface geological mapping, 1:16 000 and geochemical survey, 190 soil samples analysed for copper, zinc, lead, uranium, and silver, covering all claims; surface diamond drilling, 1 BQ hole totalling 125.6 metres on Grit 6.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 178; Assessment Report 6903.

**EAST CENTRAL BRITISH COLUMBIA
(NTS Division 93)**

QUESNEL LAKE 93A

SAM (Fig. E-1, NTS 93, No. 2)

LOCATION: Lat. 52° 17' Long. 121° 28' (93A/6W)
 CARIBOO M.D. On Moffat Creek, 6 kilometres southwest of Horsefly.

CLAIM: SAM (4 units).

OWNER: Marge Enterprises Ltd.

OPERATOR: SILVER ACORN DEVELOPMENTS LTD., 1014, 111 Richmond Street West, Toronto, Ontario.

DESCRIPTION: Most of the Sam claim is underlain by Miocene basalt.

WORK DONE: Geological mapping.

REFERENCE: Assessment Report 6965.

TJW (Fig. E-1, NTS 93, No. 1)

LOCATION: Lat. 52° 05' Long. 121° 22' (93A/3W)
 CARIBOO M.D. One kilometre west of the west end of Murphy Lake.

CLAIMS: TJW (6 units), TJW B (3 units), TJW C (2 units).

OWNERS: JOSEPH FRANKS, 8842 — 119th Street, Delta V4C 6M4, THEODORE KUHN, 560 — 184th Street, Surrey, and WILLIAM FRANKS, 101, 2710 Fir Street, Vancouver.

WORK DONE: Surface diamond drilling, 3 EX holes totalling 7.3 metres, on TJW (unit 1); two leads totalling 2 metres and two holes, 1 metre by 1 metre by 0.5 metre deep, on TJW (unit 2).

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 179; Assessment Report 6381.

PESO (Fig. E-1, NTS 93, No. 3)

LOCATION: Lat. 52° 37' Long. 121° 35' (93A/11W)
 CARIBOO M.D. Four kilometres due south of the west end of Spanish Lake.

CLAIMS: PESO, PESO A to PESO F (81 units), MARINER II (4 units).

OWNERS: Longbar Minerals Ltd. and Robert E. Mickle.

OPERATOR: LONGBAR MINERALS LTD., c/o 4882 Delta Street, Delta.

METALS: Gold, silver, lead.

DESCRIPTION: Gold occurs in quartz veins, associated with pyrite.

WORK DONE: 1977 — geological mapping and geochemical survey, 14 rock and 60 soil samples analysed for gold and silver and 5 rock samples analysed for gold, covering Peso; 1978 — surveying, covering Peso and Mariner II; rebuilding road; prospecting and panning decomposed rock; trenching with suction dredge and with backhoe in decomposed rock (recovered

approximately 34 grams per tonne gold and silver plus free gold in galena and quartzite); 14 trenches (60 cubic metres excavated and mostly backfilled), covering Peso.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1947, p. 123; Assessment Report 6935.

CARIBOO-BELL (Fig. E-1, NTS 93, No. 4)

LOCATION: Lat. 52° 32' Long. 121° 37' (93A/12E)
 CARIBOO M.D. On the west slope of Mount Polley, 9 kilometres south-southwest of Likely.

CLAIMS: BJ 1 to 27, 43, 45, 47, 49 to 60, 63 to 72, 113 to 126, 130, 132, 144, 146, 148, BOOTJACK 1 and 2 Fractions, RED 15 to 18.

OWNER: HIGHLAND CROW RESOURCES LTD., 1199 West Hastings Street, Vancouver V6E 2K5.

METALS: Copper, gold.

DESCRIPTION: Indicated reserves of 25 million tonnes grading 0.49 per cent copper occur in syenodiorite-monzonite intrusions in Upper Triassic Takla Group volcanic rocks.

WORK DONE: Percussion drilling, 5 holes totalling 353.6 metres, on BJ 124.

REFERENCES: Mineral Inventory 93A-8; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 181; Assessment Reports 646, 6326, 6911.

LOCK, HINGE (Fig. E-1, NTS 93, No. 6)

LOCATION: Lat. 52° 37' Long. 121° 38' (93A/12E)
 CARIBOO M.D. Six kilometres east of Likely, on the south bank of the Quesnel River.

CLAIMS: LOCK 1 to 5 (58 units), HINGE 1 and 2 (12 units), CAP (9 units), ROAD (2 units), TOP (2 units), HAT (10 units), YALE (4 units).

OWNER: CANADIAN-AMERICAN LOAN INVESTMENT CORP. LTD., 319, 475 Howe Street, Vancouver V6C 2B3.

DESCRIPTION: Disseminated pyrite occurs in pyroclastic rocks, gabbro, and andesite.

WORK DONE: Linecutting, 8.9 kilometres, and ground magnetometer survey, 10 kilometres, covering Hat, Top, Hinge, and Road; geochemical survey, 461 soil samples analysed for gold, silver, and copper, covering all claims and 72 rock samples analysed for gold, silver, and copper, covering Hat and Road; 6 trenches totalling 970 metres, on Hat and Road.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 181; Assessment Reports 5954, 5955, 5956, 6437, 6861.

1978

(93A/12E, 11W)

MOOSE, LUKIN (Fig. E-1, NTS 93, No. 8)

LOCATION: Lat. 52° 38' Long. 121° 31' (93A/12E, 11W)
CARIBOO M.D. On both sides of the south end of Poquette Lake, 3 kilometres northeast of Likely.

CLAIMS: EASY 1 to 6.

OWNER: R. E. MICKLE, 5416 Manson Avenue, Powell River V8A 3P4.

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

DESCRIPTION: Gold occurs in quartz veins.

WORK DONE: Sampling, 180 rock and 80 soil, and panning (100 pans); bulldozer cut, 4 metres by 6 metres by 30 metres; blast cut, 1 metre by 3 metres.

REFERENCES: Mineral Inventory 93A-127; *Minister of Mines, B.C.*, Ann. Rept., 1933, p. 136; 1967, p. 122.

PR (Fig. E-1, NTS 93, No. 7)

LOCATION: Lat. 52° 40' Long. 121° 47' (93A/12W)
CARIBOO M.D. Eight kilometres west of Quesnel Forks, on the north side of the Quesnel River.

CLAIMS: QR 1 to 4 (20 units each), QR 5 and 6 (10 units each).

OWNERS: Newconex Canadian Exploration Ltd., Dome Exploration (Canada) Limited, and P. E. Fox.

OPERATORS: GOLD FIELDS MINING CORPORATION, 310, 445 Union Boulevard, Lakewood, Colorado 80228 and DOME EXPLORATION (CANADA) LIMITED, 600, 365 Bay Street, Toronto, Ontario M5H 2V4.

METAL: Copper.

DESCRIPTION: Interbedded sedimentary (argillite, tuff, greywacke) and basaltic rocks of the Nicola Group are intruded by an alkalic stock. Chalcopyrite and pyrite, as disseminations and in fracture fillings, are associated with intensely epidotized basalts along the northern margin of the stock.

WORK DONE: Surface geological mapping, 1:5000; induced polarization survey, 16 kilometres; and percussion drilling totalling 4 063 metres, covering QR 1-4; diamond drilling totalling 1 596 metres, on QR 2.

REFERENCES: Mineral Inventory 93A-121; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 180; Assessment Reports 6079, 6417, 6730, 6967.

HA (Fig. E-1, NTS 93, No. 13)

LOCATION: Lat. 52° 51' Long. 121° 21' (93A/14W)
CARIBOO M.D. Five kilometres northwest of Cariboo Lake.

CLAIM: HA 1.

OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.

DESCRIPTION: The property is underlain by sedimentary rocks belonging to the Midas and Snowshoe Formations of the Early Paleozoic Cariboo Group. The

Midas Formation consists of grey and black phyllitic rocks and minor limestone. The Snowshoe Formation is generally a quartzite unit. Both formations are intensely folded. A prominent gossan, which consists of intensely stained creeks, swamps, and seeps, is located near the centre of the property.

WORK DONE: Surface geological mapping, 1:5000, HA 1.

REFERENCE: Assessment Report 7130.

CARIBOO—HUDSON (Fig. E-1, NTS 93, No. 11)

LOCATION: Lat. 52° 53' Long. 121° 20' (93A/14W)
CARIBOO M.D. Fifteen kilometres north-northeast of Keithly Creek, at the headwaters of Cunningham Creek.

CLAIMS: Mineral Lease M-32.

OWNER: RESOURSEX LTD., 615, 744 West Hastings Street, Vancouver.

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

DESCRIPTION: The area is underlain by Precambrian or Cambrian metamorphosed sedimentary rocks, primarily limestone, chlorite schists, and slates of the Snowshoe Formation. Gold occurs in quartz veins. There are also silver-lead veins and scheelite zones in quartz-ankerite lenses in quartz-sericite schist.

WORK DONE: Geochemical survey, 251 soil samples analysed for gold and 18 rock samples analysed for lead, zinc, copper, gold, and silver, covering Mineral Lease M-32.

REFERENCES: Mineral Inventory 93A-71; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 182.

ROUNDTOP, BON, PARK (Fig. E-1, NTS 93, No. 12)

LOCATION: Lat. 52° 55' Long. 121° 21' (93A/14W)
CARIBOO M.D. Twenty-seven kilometres southeast of Barkerville, extending from Nugget to Roundtop Mountain.

CLAIMS: ROUNDTOP 1, 3, 10 to 26, ROUNDTOP 27 and 28 Fractions, BON 1 to 4, BON Fraction, PARK 1 to 15, TARN, RT 41 to 44, BASE METAL 1 to 10, SILVER MOUNTAIN 2; PENNY, CRAZE, TREE, BOOZE, MID, SIM, WEE, NUG, LEAF, LOST, FIRM 1 and 2, ANT 1 to 7, VIC 1 and 2, BRAL 1 (230 units); FOURTH OF JULY (Lot 9818), INTERNATIONAL 1 (Lot 3489), INTERNATIONAL 2 (Lot 3490), INTERNATIONAL 3 (Lot 3491), INTERNATIONAL 4 (Lot 3492), INTERNATIONAL 6 (Lot 3486), INTERNATIONAL 7 (Lot 3487), INTERNATIONAL 1 FR. (Lot 3495), DAWN FR. (Lot 3493), DAWN 2 FR. (Lot 3494), FEDERAL 1 (Lot 3507), FEDERAL FR. (Lot 3509), PEERLESS 1 (Lot 3504), PEERLESS 2 (Lot 3502), PEERLESS 3 (Lot 3499), PEERLESS 4 FR. (Lot 3508), HUB 2 FR. (Lot 3498), HUB FR. (Lot 3500), SEDAN (Lot 3501), SEDAN 1 (Lot 3503), SEDAN 3 (Lot 3497), SEDAN 4 FR. (Lot 3505), SEDAN 5 FR.

(Lot 3506), SURPRISE 1 (Lot 3513), SURPRISE 2 (Lot 3510), SURPRISE 3 (Lot 3514), SURPRISE 4 (Lot 3511), SURPRISE 6 (Lot 10940), SURPRISE 7 FR. (Lot 3512).

OWNERS: Rio Tinto Canadian Exploration Limited, Coast Interior Ventures Ltd., R. J. Miller, W. J. Thomson, J. Hajek, and M. Hajek.

OPERATOR: RIO TINTO CANADIAN EXPLORATION LIMITED, 520, 800 West Pender Street, Vancouver V6C 2V6.

METALS: Lead, zinc, silver, gold.

DESCRIPTION: Black graphitic shales, chlorite-ankerite phyllites, and minor carbonates are folded into overturned folds with axial planar cleavage dipping moderately to the northeast. The black shales host small replacement bodies of galena and sphalerite. Disseminated mineralization occurs locally in the carbonates. Elsewhere, massive poddy argentiferous galena is found as fracture fillings near scattered lead and zinc mineralization in thinly laminated black shales and ankerite phyllites.

WORK DONE: Geological mapping, 1:500, and topographical survey, 1:500, covering Bon 1-4, Bon Fraction, Tarn, and Park 7-12; trenching, 3 495 metres, and trench mapping, 1:500, covering Park 11, Booze, Craze, Tree, Lost, and Lots 3510 and 3513; geochemical survey, 3 158 soil samples analysed for copper, lead, and zinc, covering Nug, Firm 1, 2, Leaf, Bon 1-4, Bon Fraction, Tarn, Park 5-12, Silver Mountain 2, Base Metal 1-10, and Roundtop 13-26; diamond drilling, 10 BQ holes totalling 934.4 metres, on Park 11, Booze, Craze, and Lots 3510 and 3513.

REFERENCES: Mineral Inventory 93A-60, 90, 131; *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977*, pp. E 182, E 183; Assessment Reports 6314, 6545, 6855, 7106.

QUESNEL 93B

ZE (Fig. E-1, NTS 93, No. 16)

LOCATION: Lat. 52° 36' Long. 122° 16' (93B/9W)

CARIBOO M.D. Along the northern boundary of the Gibraltar mine property (north of the tailings dam), 12 kilometres north-northeast of the north end of Cuisson Lake.

CLAIMS: ZE (Fig. E-1, NTS 93, No. 15)

OWNER: GIBRALTAR MINES LIMITED, Box 130, McLeese Lake VOL 1PD.

METAL: Copper.

DESCRIPTION: The claims are underlain mainly by a sequence of andesitic flows, volcanic greywackes, calcareous siltstones, and minor graphitic schists. Quartz diorite of the Granite Mountain batholith is exposed along western portions of the claims in contact with conglomerates of the Jurassic sequence. The conglomerates contain weak chalcopyrite mineralization.

WORK DONE: Percussion drilling, 10 holes totalling 209.5 metres, on ZE 1-3.

REFERENCE: Assessment Report 6794.

ALEXANDRIA (Fig. E-1, NTS 93, No. 101)

LOCATION: Lat. 52° 36' Long. 122° 31' (93B/10E)
 CARIBOO M.D. On both sides of General Creek, on the west side of the Fraser River.

CLAIMS: ALEXANDRIA 1 to 4 (approximately 30 units).

OWNER: United Mineral Services Ltd.

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

DESCRIPTION: Continental sedimentary rocks of the Miocene Fraser River Formation are capped by Late Miocene to Early Pliocene basalts, and constitute an environment potentially favourable for the formation of paleostream channel uranium deposits. Geochemical surveys offered no evidence of economic concentrations of uranium.

WORK DONE: Geochemical survey, 31 surface water samples analysed for uranium, conductivity, and pH, covering all claims.

BUCK RIDGE (Fig. E-1, NTS 93, No. 102)

LOCATION: Lat. 52° 46' Long. 122° 29.5' (93B/16W)
 CARIBOO M.D. Two kilometres west of Fraser River, 3 kilometres northeast of the community of Narcosli Creek.

CLAIMS: BUCK RIDGE 1 to 4 (approximately 40 units).

OWNER: United Mineral Services Ltd.

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

DESCRIPTION: Continental sedimentary rocks of the Miocene Fraser River Formation are capped by Late Miocene to Early Pliocene basalts and constitute an environment potentially favourable for the formation of paleostream channel uranium deposits. Geochemical surveys offered no evidence of economic concentrations of uranium.

WORK DONE: Geochemical survey, 47 surface and well water samples analysed for uranium, conductivity, and pH as well as molybdenum, phosphatetion, and alkalinity determined on most samples, covering all claims.

ANAHIM LAKE 93C**BEE, EFF, GEE (Fig. E-1, NTS 93, No. 16)**

LOCATION: Lat. 52° 07' Long. 124° 25' (93C/1, 2E)
 CLINTON M.D. On both sides of the Chilanko River, extending from Chantslar Lake to Puntzi Mountain.

CLAIMS: BEE 1 to 35, EFF 1 to 41, GEE 1 to 4, TEE 1 to 5 (approximately 1 400 units).

OWNER: F. T. Cousins.

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(93D/9W)

OPERATOR: CANADIAN KELVIN RESOURCES LTD., 940, 540 Fifth Avenue SW., Calgary, Alberta T2P 0M2.
WORK DONE: 1977 -- fission track etch, ground scintillometer, and geochemical soil surveys; geochemical overburden drilling; 1978 -- grid established, airborne magnetometer, and airborne electromagnetic surveys, 39.6 kilometres each, covering all claims.
REFERENCE: Assessment Report 6693.

BELLA COOLA 93D

NIFTY (Fig. E-1, NTS 93, No. 17)

LOCATION: Lat. 52° 35' Long. 126° 25' (93D/9W)
SKEENA M.D. On Noosgulch Creek, extending to Tseetsaysul Mountain.
CLAIMS: NIFTY, NIFTY 2 to 7, KEEN 1 to 3.
OWNER: United Mineral Services Ltd.
OPERATOR: PAN OCEAN OIL LIMITED, 1050 Three Calgary Place, 355 Fourth Avenue SW., Calgary, Alberta T2P 0J1.
METALS: Zinc, lead, silver, barite.
DESCRIPTION: Massive sulphide mineralization, locally banded, occurs in Hazelton (?) submarine volcanoclastic rocks.
WORK DONE: Surface geological mapping, 1:15 840, and geochemical survey, 771 soil and 221 stream sediment samples analysed for copper, lead, zinc, and silver, covering all claims; surface geological mapping, 1:2500, covering Nifty 2-5; linecutting, 16 kilometres, covering Nifty 2-5 and Keen 1, 2; electromagnetic (max-min) survey, 5.1 kilometres, covering Keen 1 and 2; diamond drilling, 5 BQ holes totalling 670.6 metres, on Nifty 2.
REFERENCES: Mineral Inventory 93D-6, 7; *Minister of Mines, B.C.*, Ann. Rept., 1930, p. 61; Assessment Reports 6735, 6836.

WHITESAIL LAKE 93E

WEE (Fig. E-1, NTS 93, No. 18)

LOCATION: Lat. 53° 44' Long. 127° 08' (93E/11E)
OMINECA M.D. Surrounding the east end of Sweeney Lake.
CLAIMS: WEE 1 to 41, 43, 45, 47, 49, 51, 53, 55, 57 to 74, 110, 112, 114, 116, 118.
OWNER: HUDSON'S BAY OIL AND GAS COMPANY LIMITED, 700 Second Street SW., Calgary, Alberta T2P 0X5.
METAL: Copper.

DESCRIPTION: Chalcopyrite and pyrite are unevenly distributed in open space fillings in several shatter breccia bodies composed of angular tuff, andesite, granodiorite, and quartz monzonite. The breccias are part of a southerly dipping sequence of Hazelton Group volcanic and sedimentary rocks of Mesozoic age that have been intruded by several small weakly altered granodiorite stocks.

WORK DONE: Linecutting, 14.2 kilometres, covering Wee 1, 3-12, 21-30, 35-40, 49, 51, 53, 55, 63, 64, 69, 70; geochemical survey, 148 soil and 77 silt samples analysed for copper, molybdenum, lead, zinc, and silver, covering Wee 1, 2, 10-13, 27-30, 36, 38-40, 49, 51, 53, 55; electromagnetic survey, 17.7 kilometres, covering Wee 1, 3-12, 21, 23, 25, 27-30, 63, 64, 69, 70; induced polarization survey, 6.7 kilometres, and magnetometer survey, 3.5 kilometres, covering Wee 21-30, 35-40, 49, 51, 53, 55.

REFERENCES: Mineral Inventory 93E-86; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 139; Assessment Report 7006.

PC, JOW (Fig. E-1, NTS 93, No. 19)

LOCATION: Lat. 53° 57' Long. 127° 46' (93E/13W)
OMINECA M.D. Seven kilometres west of Morice Lake, 8 kilometres southwest of Atna Bay.

CLAIMS: MISTY DAY (12 units), COPPER CLIFF (12 units), NEW MOON (20 units), HALF MOON (8 units).

OWNER: Charles Kowall.

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

METALS: Zinc, copper, silver, lead.

DESCRIPTION: Float mineralization consisting of high-grade boulders dispersed in medial and terminal glacial moraines were traced to a source beneath a glacier. No such mineralization was observed in outcrop, however numerous chalcopyrite occurrences were located in association with narrow shear zones and dykes. Evidence of subaqueous volcanism was documented by dirty limestone units intercalated with tuffs, normally graded, thin-bedded to laminated tuffs, thin-bedded argillites, and possibly pillow breccia flows. A volcanic centre environment is indicated by the preponderance of coarse pyroclastic rocks, intense shearing and faulting, and prolific dyke activity (ranging from mafic to rhyolitic varieties).

WORK DONE: Grid establishment, 16.5 kilometres; prospecting, covering all claims; surface geological mapping, 1:2000; magnetometer survey, 16 kilometres; electromagnetic (max-min) survey, 16 kilometres; and geochemical survey, 57 soil samples analysed for lead, zinc, copper, silver, and gold, covering Copper Cliff, New Moon, and Half Moon.

REFERENCES: Mineral Inventory 93E-11; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 244; Assessment Report 7022.

TETS (Fig. E-1, NTS 93, No. 20)

LOCATION: Lat. 53° 51' Long. 126° 57' (93E/15W)
 OMINECA M.D. Seven kilometres southeast of the east end of Nadina Lake.

CLAIMS: TETS, LAKE, SOUTH, JIM-BO, JOHN BOY.

OWNERS: Sibola Copper Mines Ltd. and James G. Ager.

OPERATOR: SIBOLA COPPER MINES LTD., 1318, 510 West Hastings Street, Vancouver.

METALS: Copper, silver, zinc, lead.

DESCRIPTION: The property is underlain by a variety of volcanic and sedimentary rocks of the Hazelton Group. Bornite, sphalerite, chalcopyrite, and minor galena occur in shear zones.

WORK DONE: Surface geological mapping; induced polarization survey, 21.4 kilometres; ground electromagnetic survey, 24 kilometres; and 19 samples studied, covering Tets.

REFERENCES: Mineral Inventory 93E-84; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 248; Assessment Report 7101.

TAGA (Fig. E-1, NTS 93, No. 21)

LOCATION: Lat. 53° 58' Long. 126° 55' (93E/15W)
 OMINECA M.D. Immediately east of the southeast end of Tagetochlain Lake.

CLAIMS: TAGA, TUSH (20 units each).

OWNER: Kenneth A. Gracey (in trust for Gold River Mines & Enterprises Ltd.).

OPERATOR: J. CHIAVARINI, 15 Glenridge Avenue, St. Catherines, Ontario.

WORK DONE: 1977 - geochemical survey, 249 soil samples.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 185 (Ian, Joey); Assessment Report 6718.

NECHAKO RIVER 93F**NED, D (Fig. E-1, NTS 93, No. 22)**

LOCATION: Lat. 53° 18' Long. 125° 08' (93F/6)
 OMINECA M.D. Extending east-southeast from Capoose Lake to Fawnie Nose.

CLAIMS: NED, A to N (approximately 160 units).

OWNER: GRANGES EXPLORATION AKTIEBOLAG, 1060, 1055 West Hastings Street, Vancouver V6E 2E9.

METALS: Molybdenum, copper, lead, zinc, gold, silver.

DESCRIPTION: Two mineralized areas were noted: minor molybdenite and chalcopyrite occurring in plutonic rocks belonging to the Capoose batholith, and

1978

(93F/9E)

sphalerite and galena with silver and gold values occurring in rhyolitic rocks belonging to the Hazelton Group (?).

WORK DONE: Grid establishment, 26 kilometres; tractor road, 32 200 metres (to Ned and E claims); geochemical survey, 1 197 soil samples analysed for copper, molybdenum, and silver, covering J, K, and L; pulse electromagnetic survey, 25.8 kilometres, covering D, E, and F; percussion drilling 63 holes totalling 3 688.1 metres, on Ned, A, B, D, and F.

REFERENCES: Mineral Inventory 93F-39, 40; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 185; Assessment Reports 6868, 6869, 6870, 6988.

RON (Fig. E-1, NTS 93, No. 24)

LOCATION: Lat. 53° 35' Long. 124° 08' (93F/9E)
OMINECA M.D. Immediately east of the small lake, approximately 12 kilometres northeast of the east end of Finger Lake.

CLAIMS: RON 1 to 4.

OWNER: DENISON MINES LIMITED, Box 40, Royal Bank Plaza, Toronto, Ontario M5J 2K2.

WORK DONE: Outcrop mapping and photogeology; geochemical survey, soil, rock, and water samples analysed for uranium, copper, lead, zinc, and molybdenum; scintillometer, spectrometer, and emanometer surveys, covering all claims.

SWAN (Fig. E-1, NTS 93, No. 26)

LOCATION: Lat. 53° 38' Long. 124° 42' (93F/9E)
OMINECA M.D. Ten kilometres southerly of the confluence of Swanson Creek and the Nechako River.

CLAIM: SWAN 1 (20 units).

OWNER: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.

METAL: (Copper).

DESCRIPTION: Sparse specular hematite and weakly distributed chalcopyrite occur in thinly bedded rhyolite flows. The flows are cut by a northeasterly fault. Anomalous values in uranium were obtained from stream sediments.

WORK DONE: Surface diamond drilling, 2 holes totalling 225.9 metres, on Swan 1 (unit 25).

REFERENCE: Assessment Report 6915.

GY (Fig. E-1, NTS 93, No. 27)

LOCATION: Lat. 53° 39' Long. 124° 39' (93F/9E)
OMINECA M.D. South of the Nechako River, extending from the headwaters of Greer Creek to Cutoff Creek.

CLAIMS: GY 100 to 4100 (41 claims, 20 units each).
OWNER: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.
DESCRIPTION: Pre-Miocene Ootsa Lake and Takla volcanic rocks underlie much of the southern part of the claims and granitic intrusions of the Topley granitic complex the northern. All are in part capped by Miocene basalts of the Endako Group. Unconsolidated to semiconsolidated conglomerates and sandstones occur at the unconformity between the basalts and other rocks.
WORK DONE: Surface geological mapping and geochemical sampling, covering all claims; diamond drilling, 4 holes totalling 615.2 metres, on GY 100, 500, 3300, and 3700.

CABIN (Fig. E-1, NTS 93, No. 29)

LOCATION: Lat. 53° 37' Long. 124° 20' (93F/9W)
 OMINECA M.D. Four kilometres north of the west end of Finger Lake.
CLAIMS: CABIN 1 to 13 (260 units).
OPERATOR: SHELL CANADA RESOURCES LTD., Box 100, Calgary, Alberta T2P 2H5.
DESCRIPTION: Takla Group andesites, conglomerates, and shales (Upper Triassic and Lower Jurassic), Topley granites and granodiorites (Lower Jurassic), Hazelton Group volcanic, volcanoclastic, and sedimentary rocks (Middle Jurassic), and Ootsa Lake Group acid and basic volcanic rocks (Cretaceous to Miocene) are overlain by poorly consolidated argillites, siltstones, sandstones, and conglomerates and are capped by massive to vesicular basalt of Miocene age. The unconsolidated sedimentary rocks and basalt form the Endako Group.
WORK DONE: 1977 and 1978 – radiometric probing; diamond drilling, 3 NQ holes totalling 187.4 metres, on Cabin 8, Cabin 2, and Cabin 5, 6, 9, and 10 (corner post); geochemical survey, 99 stream silt samples analysed for uranium, thorium, and loss on ignition and 46 stream water and 5 rock samples analysed for uranium and thorium, covering all claims; surface geological mapping, 1:20 000, covering all claims.
REFERENCE: Assessment Report 6804.

KNOB (Fig. E-1, NTS 93, No. 25)

LOCATION: Lat. 53° 41' Long. 124° 21' (93F/9W)
 OMINECA M.D. Twelve kilometres north of the west end of Finger Lake.
CLAIMS: KNOB 1 and 2.
OWNER: HIMAC RESOURCES LTD., 508, 475 Howe Street, Vancouver V6C 2B3.
DESCRIPTION: A basaltic neck intrudes granitic gneiss.
WORK DONE: Reconnaissance geological mapping.

RUP (Fig. E-1, NTS 93, No. 23)

LOCATION: Lat. 53° 43' Long. 124° 20' (93F/9W)
 OMINECA M.D. South of the Nechako River, immediately east of the largest of the lakes on Greer Creek.

CLAIMS: RUP 1 to 5, 10 to 15.

OWNER: Denison Mines Limited.

OPERATORS: DENISON MINES LIMITED, Box 40, Royal Bank Plaza, Toronto, Ontario M5J 2K2 and TAIGA CONSULTANTS LTD., 301, 1300 Eighth Street SW., Calgary, Alberta T2R 1B2.

DESCRIPTION: The objective of the program was to locate and evaluate the potential of Miocene stream channel sediments for hosting economic uranium deposits.

WORK DONE: Outcrop mapping; scintillometer, spectrometer, and emanometer surveys; geochemical survey, soil, rock, and water samples analysed for uranium, copper, lead, zinc, and molybdenum; and rotary drilling, 12 holes totalling 265 metres, on all claims.

JIM (Fig. E-1, NTS 93, No. 28)

LOCATION: Lat. 53° 39' Long. 124° 17' (93F/10W)
 OMINECA M.D. Approximately 9.5 kilometres north of Finger Lake.

CLAIM: JIM 1 (20 units).

OWNER: DENISON MINES LIMITED, Box 40, Royal Bank Plaza, Toronto, Ontario M5J 2K2.

WORK DONE: Outcrop mapping and photogeology; geochemical survey, soil, rock, and water samples analysed for uranium, copper, lead, zinc, and molybdenum; scintillometer, spectrometer, and emanometer surveys, covering Jim 1.

BIN (Fig. E-1, NTS 93, No. 30)

LOCATION: Lat. 53° 52' Long. 125° 32' (93F/13E)
 OMINECA M.D. Extending from Binta Lake to Getzuni Lake.

CLAIMS: BIN 1 to 8 (116 units).

OWNER: J. C. Stephen.

OPERATOR: DOME EXPLORATION (CANADA) LIMITED, 600, 365 Bay Street, Toronto, Ontario M5H 2V9.

DESCRIPTION: Acid tuffs and rhyolites underlie an area indicated as anomalous for uranium by silt sampling.

WORK DONE: 1977 and 1978 – surface geological mapping, 1:6000, and airborne scintillometer survey, 113 kilometres, covering all claims; geochemical survey, 1 039 soil and 54 silt samples analysed for molybdenum and uranium, covering Bin 1, 3-8.

REFERENCE: Assessment Report 6834.

NITHI, JEN (Fig. E-1, NTS 93, No. 34)

LOCATION: Lat. 53° 59' Long. 124° 52' (93F/14W)
OMINECA M.D. Eight kilometres south of Fraser Lake, on Nithi Mountain.

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 39, 42 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: NITHEX EXPLORATION LTD., 404, 470 Granville Street, Vancouver.

METAL: Molybdenum.

DESCRIPTION: The Nithi Mountain property is underlain by phases of Topley intrusions, which range from diorite to granite and include porphyritic felsic dykes. Quartz-molybdenite veins occur in coarse-grained quartz monzonite and medium-grained granite. Argillic, phyllic, and potassic alteration is associated with the quartz-molybdenite veins.

WORK DONE: Sampling and trenching, 620 metres.

REFERENCES: Mineral Inventory 93F-6 to 17; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 142, E 143.

CABIN (Fig. E-1, NTS 93, No. 31)

LOCATION: Lat. 53° 53' Long. 125° 02' (93F/14E)
OMINECA M.D. Twenty-three kilometres south of Endako, covering the western end of Cabin Lake.

CLAIMS: CABIN, SWAMPY, and SHACK plus CB and AM (in excess of 100 units).

OWNER: NITHEX EXPLORATION LTD., 404, 470 Granville Street, Vancouver.

METALS: Silver, lead, zinc, gold.

DESCRIPTION: Intensely silicified granodiorite occurs within a fine-grained phase of the Topley granodiorite.

WORK DONE: Trenching, 610 metres, and road work, 6.4 kilometres.

REFERENCES: Mineral Inventory 93F-38; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 186.

SWAB (Fig. E-1, NTS 93, No. 35)

LOCATION: Lat. 53° 51' Long. 124° 50' (93F/15W)
OMINECA M.D. Five kilometres northwest of Hallett Lake.

CLAIMS: SWAB 1 to 4 (20 units each).

OWNER: J. C. Stephen.

OPERATOR: DOME EXPLORATION (CANADA) LIMITED, 600, 365 Bay Street, Toronto, Ontario.

1978

(93F/15W)

DESCRIPTION: Geochemical anomalies associated with an alaskite intrusion into older volcanic rocks and diorite are being investigated.

WORK DONE: 1977 and 1978 – surface geological mapping, 1:6000; geochemical survey, 1 394 soil and 64 silt samples analysed for uranium and molybdenum; and airborne scintillometer survey, 60 kilometres, covering all claims; magnetometer survey, 6.6 kilometres, covering Swab 2 and 3; diamond drilling, 1 BQ hole totalling 230 metres, on Swab 2.

REFERENCE: Assessment Report 6832.

NIT (Fig. E-1, NTS 93, No. 37)

LOCATION: Lat. 53° 53' Long. 124° 56' (93F/15W)
OMINECA M.D. Approximately 10.5 kilometres northwest of Hallett Lake, in the Nithi Creek drainage area.

CLAIM: NIT 1 (20 units).

OWNER: J. C. Stephen.

OPERATOR: DOME EXPLORATION (CANADA) LIMITED, 600, 365 Bay Street, Toronto, Ontario.

DESCRIPTION: Rhyolite lithic tuff is the only unit which outcrops on the property.

WORK DONE: Surface geological mapping, 1:6000; airborne scintillometer survey, approximately 10 kilometres; and geochemical survey, 424 soil samples analysed for uranium and molybdenum and 17 silt samples analysed for uranium, molybdenum, and copper, covering Nit 1.

REFERENCE: Assessment Report 6833.

STREP (LINDA) (Fig. E-1, NTS 93, No. 36)

LOCATION: Lat. 53° 58' Long. 124° 50' (93F/15W)
OMINECA M.D. Immediately southeast of Nithi Mountain.

CLAIM: STREP (9 units).

OWNER: PETER L. OGRYZLO, Box 22, Topley Landing, Granisle SS1.

METAL: Molybdenum.

WORK DONE: 1977 and 1978 – surface geological mapping, 1:5000, and geochemical survey, 40 soil and 9 silt samples, covering Strep.

REFERENCES: Mineral Inventory 93F-17; Assessment Report 7004.

LILY (Fig. E-1, NTS 93, No. 33)

LOCATION: Lat. 53° 25' Long. 124° 34' (93F/15E)
OMINECA M.D. East of Francois Lake, surrounding Lily Lake.

CLAIMS: LILY 1 to 6, LEG 1 to 5.

OPERATOR: PLACER DEVELOPMENT LIMITED, 700, 1030 West Georgia Street, Vancouver V6E 2Y3.

DESCRIPTION: Topley plutonic rocks are unconformably overlain by Endako basalt and volcanoclastic sedimentary rocks. The age of the sedimentary rocks is unknown. They are texturally immature and hence are marked by low porosity and permeability. Weak disseminated pyrite and plant debris occur locally in the sedimentary rocks.

WORK DONE: Diamond drilling and radiometric probing, 5 NQ holes totalling 489.5 metres, on Leg 1, 2, and Lily 2.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 187; Assessment Reports 6728, 6902.

TAIGA, RAPID (Fig. E-1, NTS 93, No. 32)

LOCATION: Lat. 53° 55' Long. 124° 34' (93F/15E)
OMINECA M.D. East of Francois Lake, surrounding the Lily, Leg claim group, which surrounds Lily Lake.

CLAIMS: TAIGA 1 to 8, RAPID 1 to 6.

OWNER: Denison Mines Limited.

OPERATORS: DENISON MINES LIMITED, Box 40, Royal Bank Plaza, Toronto, Ontario M5J 2K2 and TAIGA CONSULTANTS LTD., 301, 1300 Eighth Street SW., Calgary, Alberta T2R 1B2.

DESCRIPTION: The objective of the work was to locate and evaluate Miocene stream channel sedimentary rocks as a possible loci for uranium mineralization.

WORK DONE: Outcrop locating and identification; geochemical survey, soil, rock, and water samples analysed for uranium, copper, lead, zinc, and molybdenum; and scintillometer, spectrometer, and emanometer surveys, covering all claims; rotary drilling, 6 holes totalling 381 metres, on Taiga 4, 8 and Rapid 1, 4.

GREER, KLUSKUS (Fig. E-1, NTS 93, No. 39)

LOCATION: Lat. 53° 48' Long. 124° 18' (93F/16W)
OMINECA M.D. Extending north from the headwaters of Greer Creek to Stony Creek.

CLAIMS: GREER 1 to 8, KLUSKUS 1 and 2.

OPERATOR: SHELL CANADA RESOURCES LTD., Box 100, Calgary, Alberta T2P 2H5.

DESCRIPTION: Takla Group andesites, conglomerates, and shales (Upper Triassic and Lower Jurassic), Topley granites and granodiorites (Lower Jurassic), Hazelton Group volcanic, volcanoclastic, and sedimentary rocks (Middle Jurassic), and Ootsa Lake Group acid and basic volcanic rocks (Cretaceous to Miocene) are overlain by poorly consolidated argillites, siltstones, sandstones, and conglomerates, and are capped by massive to vesicular basalt of Miocene age. The unconsolidated sedimentary rocks and basalt form the Endako Group.

1978

(93F/16W)

WORK DONE: 1977 and 1978 – diamond drilling and radiometric probing, 4 HQ holes totalling 508.8 metres and 1 NQ hole totalling 313 metres, on Kluskus 2 and Greer 2, 4, 6, 7; geochemical survey, 60 stream silt samples analysed for uranium, thorium, and loss of ignition and 30 stream water samples analysed for uranium and thorium, covering all claims.

REFERENCES: Assessment Reports 6685, 7120.

GRABEN (Fig. E-1, NTS 93, No. 5)

LOCATION: Lat. 53° 48' Long. 124° 27' (93F/16W)
OMINECA M.D. Surrounding Harlow Lake, on Greer Creek.

CLAIMS: GRABEN 1 and 2 (20 units each).

OWNER: Denison Mines Limited.

OPERATORS: DENISON MINES LIMITED, Box 40, Royal Bank Plaza, Toronto, Ontario M5J 2K2 and TAIGA CONSULTANTS LTD., 301, 1300 Eighth Street SW., Calgary, Alberta T2R 1B2.

WORK DONE: Outcrop mapping; geochemical survey, soil, water, and rock samples analysed for uranium, copper, lead, zinc, and molybdenum; scintillometer, spectrometer, and emanometer surveys; and VLF–EM survey, covering both claims; rotary drilling, 1 hole totalling 91 metres.

EN (Fig. E-1, NTS 93, No. 41)

LOCATION: Lat. 53° 51' Long. 124° 30' (93F/16W, 15E)
OMINECA M.D. Extending from Mount Greer, south to Greer Creek and north to the Nechako River.

CLAIMS: EN 99, 100 to 1800 (19 claims, 20 units each).

OWNER: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.

DESCRIPTION: Rhyolite flows and tuffs of the Lower Tertiary Oootsa Lake Group and Topley granitic intrusions are overlain by a thick semiconsolidated sequence of Miocene sedimentary rocks. These include conglomerates, sandstones, and siltstones with thin interbedded coal beds. Maximum thickness to any coal bed is 1 metre. Flow breccias and vesicular basalt flows of the Endako Group overlie the sedimentary rocks. These are Oligocene in age and form the bulk of Greer Mountain.

WORK DONE: Surface geological mapping, covering all claims; geochemical survey; diamond drilling, 2 holes totalling 620.1 metres, on EN 1000, 1500.

GAP (Fig. E-1, NTS 93, No. 42)

LOCATION: Lat. 53° 53' Long. 124° 19' (93F/16W)
OMINECA M.D. On both sides of Stony Creek, approximately 12 kilometres southwest of Nulki Lake.

1978

(93F/16W)

CLAIMS: GAP 1 to 6.
OWNER: DENISON MINES LIMITED, Box 40, Royal Bank Plaza, Toronto, Ontario M5J 2K2.
WORK DONE: Outcrop mapping and core logging; geochemical survey, soil, rock, and water samples analysed for uranium, copper, lead, zinc, and molybdenum; and scintillometer, spectrometer, and emanometer surveys, covering all claims; rotary drilling, 2 holes totalling 354 metres.

WELCH, STONY (Fig. E-1, NTS 93, No. 38)

LOCATION: Lat. 53° 54' Long. 124° 22' (93F/16W)
OMINECA M.D. Extending from Welch Lake northeastward, north of Stony Creek, nearly to Tachick Lake.
CLAIMS: WELCH 1 and 2, STONY 1 to 8, TACHICK 1 to 6, BASIN 1 to 5 (416 units).
OWNER: SHELL CANADA RESOURCES LTD., Box 100, Calgary, Alberta T2P 2H5.
DESCRIPTION: Takla Group andesites, conglomerates, and shales (Upper Triassic and Lower Jurassic), Topley granites and granodiorites (Lower Jurassic), Hazelton Group volcanic, volcanoclastic, and sedimentary rocks (Middle Jurassic), and Ootsa Lake Group acid and basic volcanic rocks (Cretaceous to Miocene) are overlain by poorly consolidated argillites, siltstones, sandstones, and conglomerates and are capped by massive to vesicular basalt of Miocene age. The unconsolidated sedimentary rocks and basalt form the Endako Group.
WORK DONE: 1977 — surface geological mapping (8 silt samples collected), 1:50 000, covering Stony, Tachick, and Basin; 1978 — diamond drilling, 3 HQ holes totalling 598 metres, and radiometric probing, covering Welch 1 and Stony 2, 4.
REFERENCE: Assessment Report 6787.

ER (Fig. E-1, NTS 93, No. 40)

LOCATION: Lat. 53° 49' Long. 124° 12' (93F/16E)
OMINECA M.D. Five kilometres south of the west end of Nulki Lake.
CLAIMS: ER 100 to 3000 (30 claims, 20 units each).
OWNER: E&B EXPLORATIONS LTD., 3015 Shell Centre, 400 Fourth Avenue SW., Calgary, Alberta.
DESCRIPTION: The oldest rocks are paragneisses. These are banded quartz-feldspar-biotite gneisses with feldspathic pegmatitic segregation. In contact with these are foliated quartz diorites/granodiorites of the Topley intrusion. Overlapping the above rocks is a thick sequence (300 metres plus) of semi-consolidated conglomerates, sandstones, and siltstones with thin intercalated beds of coal. The sedimentary rocks are in part overlain by Miocene basalt.

WORK DONE: Surface geological mapping, covering all claims; geochemical survey; diamond drilling, 4 NQ holes totalling 463.8 metres, on ER 700, 900, 1100, and 3000.

PRINCE GEORGE 93G

BURN (Fig. E-1, NTS 93, No. 104)

LOCATION: Lat. 53° 55' Long. 122° 30' (93G/15E)
 CARIBOO M.D. Two kilometres east of Taber Lake, 10 kilometres east of Prince George.

CLAIMS: CAT 1 to 4, TAC 1 and 2, PRINCE (4 units).

OWNER: MATTAGAMI LAKE MINES LIMITED, 502, 8215 - 112th Street, Edmonton, Alberta T6G 2C8.

METALS: Tungsten, molybdenum, (copper, bismuth, zinc).

DESCRIPTION: Scheelite and molybdenite occur in quartz-sericite-filled joints in metamorphosed argillites and greywackes. Minor diorite intrusions occur but are not mineralized.

WORK DONE: Grid establishment, 16 kilometres; surface geological mapping, 1:2500; VLF--EM survey, 16 kilometres; magnetometer survey, 16 kilometres; Crone electromagnetic survey, 4 kilometres; induced polarization survey; geochemical survey, 591 soil samples analysed for tungsten and molybdenum (444 samples assayed for copper); and altimeter survey, 16 kilometres, covering all claims; 14 rock samples assayed and core from three old diamond-drill holes re-logged.

REFERENCES: Mineral Inventory 93G-24; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 187; Assessment Report 6876.

McBRIDE 93H

PROSERPINE (Fig. E-1, NTS 93, No. 43)

LOCATION: Lat. 53° 04' Long. 121° 30' (93H/3W, 4E)
 CARIBOO M.D. Four kilometres southeast of Barkerville.

CLAIMS: Forty-eight Crown-granted claims, including HARD CASH (Lot 9564), INDEPENDENCE (Lot 9563), KITCHENER (Lot 10558), WARSPITE (Lot 9560), TRUE BLUE (Lot 10557), and BLIGHTY (Lot 9569).

OWNER: Petra Gem Explorations Ltd.

OPERATOR: McINTYRE MINES LIMITED, 1003, 409 Granville Street, Vancouver V6C 1T2.

METALS: Gold, lead.

DESCRIPTION: The Proserpine property is underlain by micaceous quartzite and black phyllite of the Snowshoe Formation located in the hinge of the Island Mountain anticlinorium. Many quartz veins are known on the property that carry more or less erratic gold values. Attention was directed toward low-grade gold values reported to occur within a pyritic, silicified quartzite bed near the Warspite shaft.

WORK DONE: Geochemical survey, approximately 1 000 soil samples analysed for gold, arsenic, lead, copper, silver, and zinc, covering Warspite, True Blue, Blighty; rock sampling (39 samples, 12 elements) and petrology (30 specimens), on Warspite.

REFERENCES: Mineral Inventory 93H-21; Assessment Report 7128.

CHISHOLM (Fig. E-1, NTS 93, No. 46)

LOCATION: Lat. 53° 04' Long. 121° 43' (93H/4E)
CARIBOO M.D. Nine kilometres southwest of Wells, on the southeast slope of Mount Nelson.

CLAIMS: CHISHOLM 1 to 4 (Lots 10428 to 10431), CHISHOLM FR. (Lot 10434), WONDER (Lot 1674), WONDER FR. (Lot 1679), GARBO (Lot 1675), BURNS 14 to 16 (Lots 8895 to 8897), GARBO NO. 1 (Lot 1662), OSLO FR. (Lot 1676), GLORIA NO. 2 (Lot 8899).

OWNER: GOLDEN ARK INDUSTRIES LTD., Box 904, Vernon V1T 6M8.

METAL: Gold.

DESCRIPTION: Gold occurs in quartz veins associated with pyrite.

WORK DONE: 1977 — geochemical survey, 288 soil samples analysed for copper and silver, covering most claims.

REFERENCES: Mineral Inventory 93H-35; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 249; Assessment Reports 5554, 6668.

NEL (Fig. E-1, NTS 93, No. 44)

LOCATION: Lat. 53° 05' Long. 121° 42' (93H/4E)
CARIBOO M.D. Nine kilometres west-southwest of Wells, immediately east of Mount Nelson.

CLAIM: NEL 1 (20 units).

OWNER: MURRAY RANKING DEVELOPMENTS LTD., Box 904, Vernon.

WORK DONE: Ground magnetometer survey, 20 kilometres, and geochemical survey, 80 soil samples, covering Nel 1.

REFERENCE: Assessment Report 7099.

BUZ (Fig. E-1, NTS 93, No. 45)

LOCATION: Lat. 53° 05' Long. 121° 40' (93H/4W)
 CARIBOO M.D. On the northeast slope of Mount Nelson, 9 kilometres west of Wells.

CLAIMS: BUZ 69 to 74, ZUB 1 Fraction.

OWNER: GOLDEN ARK INDUSTRIES LTD., Box 904, Vernon V1T 6M8.

METAL: Gold.

DESCRIPTION: The claims are underlain by Lower Precambrian rocks consisting of limestone, phyllites, and quartzites. Well-developed quartz veins exhibit weathering of former sulphide mineralization.

WORK DONE: Bulldozing, covering Buz 71-73 and Zub 1 Fraction.

REFERENCES: Mineral Inventory 93H-18; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 230.

DOUG (Fig. E-1, NTS 93, No. 49)

LOCATION: Lat. 53° 39' Long. 121° 16' (93H/11W)
 CARIBOO M.D. On the eastern side of Everett Creek, 15 kilometres southeast of Tumuch Lake.

CLAIMS: DOUG, DOUG 2 to 6.

OWNERS: BRUCE BRIED and GORDON BRIED, 2135 Westsyde Road, Kamloops.

METAL: Copper.

DESCRIPTION: Chalcopyrite and chalcocite mineralization occurs in Mural Formation limestone, often associated with quartz.

WORK DONE: Prospecting, covering all claims; reconnaissance electromagnetic survey, 4 kilometres, covering Doug; reconnaissance geochemical survey, 36 soil samples analysed for copper, covering Doug 2 and 6; 4 trenches totalling 37 metres, on Doug and Doug 6.

REFERENCES: Mineral Inventory 93H-39; Assessment Report 6938.

BS (Fig. E-1, NTS 93, No. 50)

LOCATION: Lat. 53° 37' Long. 121° 41' (93H/12E)
 CARIBOO M.D. The Bowron River, 6 kilometres northwest of the confluence of Hagen Creek.

CLAIM: BS (16 units).

OWNER: John Hogan.

OPERATOR: LONG LAC MINERAL EXPLORATION LTD., 1680, 1050 West Pender Street, Vancouver V6E 3S7.

DESCRIPTION: The outcrops within the claim area are comprised of contorted and shattered, medium to steep-dipping shales with minor siltstones (Antler

Formation, Early Mississippian and/or younger). These rocks are found in road cuts and are restricted to the slopes on the eastern side of the Bowron River road. Syngenetic pyrite and limonite are found in the shales as well as quartz and carbonate veining. Locally the shales were found to be radioactive.

WORK DONE: Geochemical survey, 56 soil and 4 silt samples analysed for uranium and 35 rock samples analysed for uranium, gold, copper, fluorine, and molybdenum, and percussion drilling, 7 holes totalling 106.7 metres, covering BS.

FORT FRASER 93K

LOY, LIZ, JAN (Fig. E-1, NTS 93, No. 63)

LOCATION: Lat. 54° 01' Long. 124° 15' (93K/1; 93F/16)
OMINECA M.D. Surrounding Negaard Lake, approximately 16 kilometres west of Vanderhoof.

CLAIMS: LOY 1 and 2, LIZ 1, JAN 1 to 3.

OWNER: DENISON MINES LIMITED, Box 40, Royal Bank Plaza, Toronto, Ontario M5J 2K2.

DESCRIPTION: *The exploration work was directed toward delineating the presence of uranium mineralization in Miocene continental sedimentary rocks thought to underlie the area.*

WORK DONE: Outcrop mapping and photogeology; geochemical survey, soil rock, and water samples analysed for uranium, copper, lead, zinc, and molybdenum; and scintillometer, spectrometer, and emanometer surveys, covering all claims; drilling, 1 hole totalling 163.5 metres, on Loy 2.

STELLA (Fig. E-1, NTS 93, No. 51)

LOCATION: Lat. 54° 08' Long. 124° 35' (93K/2E)
OMINECA M.D. Eight kilometres north-northwest of Fort Fraser.

CLAIMS: STELLA 1 to 6 (20 units each).

OWNER: HIMAC RESOURCES LTD., 508, 475 Howe Street, Vancouver V6C 2B3.

WORK DONE: Percussion drilling, 5 holes totalling 640 metres, on Stella 1, 3, 5.

REFERENCE: Assessment Report 6992.

ENDEX (Fig. E-1, NTS 93, No. 54)

LOCATION: Lat. 54° 14' Long. 124° 56' (93K/2W)
OMINECA M.D. Immediately north of Justine Lake.

CLAIMS: ENDEX 20 (16 units), ENDEX 21 (16 units), ENDEX 22 (16 units).

OWNER: PLACER DEVELOPMENT LIMITED, Endako Mines Division, Endako V0J 1L0.

DESCRIPTION: A foliated metamorphic complex is overlain by porphyritic, felsic volcanic flow rocks. This is in turn partly overlain by younger, black amygdaloidal basalt flows.

WORK DONE: Geochemical survey, 45 soil samples analysed for molybdenum and uranium, covering Endex 20, 50 water and 38 stream sediment samples analysed for molybdenum and uranium, covering all claims; scintillometer survey, covering all claims.

SAVORY RIDGE (Fig. E-1, NTS 93, No. 53)

LOCATION: Lat. 54° 02' Long. 125° 14' (93K/3)
OMINECA M.D. Seventeen kilometres westerly from Endako, covering the headwaters of Sam Ross Creek.

CLAIMS: END 95 (12 units), END 96 (20 units), ENDEX 10 (18 units), ENDEX 11 to 14 (20 units each), RAIN 1 (20 units), RAIN 2 (12 units), RAIN 3 (15 units).

OWNER: PLACER DEVELOPMENT LIMITED, Endako Mines Division, Endako V0J 1L0.

METALS: Uranium, molybdenum.

DESCRIPTION: The area is underlain by two intrusive rock units: medium-grained red granite and porphyritic pink granite. The cap of Savory Ridge, overlying the intrusive rocks, is composed of two contemporaneous volcanic units. One is composed of rhyolite and quartz-latitude flows and pyroclastics, while the other is made up of basalt and andesite flows and breccias. The youngest unit which forms the south-facing slope of Savory Ridge is massive amygdaloidal basalt.

WORK DONE: Geochemical survey, 85 bulk rock samples assayed for molybdenum and uranium, covering End 95, 96 and Endex 10-14, 296 water and 170 stream sediment samples assayed for molybdenum and uranium, covering End 95, Endex 10, 11, 13, 14, and Rain 1, 2, and 324 soil samples assayed for molybdenum, covering Rain 2, 3; scintillometer survey, covering End 95, 96, Endex 10-14, and Rain 1-3.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 116 (Sam).

NU, ELK (Fig. E-1, NTS 93, No. 57)

LOCATION: Lat. 54° 03' Long. 125° 09' (93K/3E)
OMINECA M.D. Nine kilometres west-southwest of Endako village.

1978

(93K/3E)

CLAIMS: NU, ELK, DIS, DAT, etc., totalling 466 claims, 23 mineral leases, and 1 mining lease.

OWNER: PLACER DEVELOPMENT LIMITED, Endako Mines Division, Endako V0J 1L0.

METAL: Molybdenum.

DESCRIPTION: Quartz-molybdenite veins and stockwork occur in the Endako quartz monzonite rock unit that is locally kaolinized in varying degrees. Pyrite and magnetite are intimately associated with molybdenite. Pre-mineral aplite, andesite, porphyritic granite, quartz feldspar porphyry, and post-mineral basalt dykes intrude quartz monzonite. Faulting is prevalent over the claim area.

WORK DONE: Percussion drilling, 130 holes totalling 10 797 metres, on Dat 402, 404, 406-410, 412, Dat 1, 4, 7, 414 Fractions, Nu 1-4, 6-8; diamond drilling, 61 holes totalling 5 053 metres, on Dat 404, 406, Dat 1, 414 Fractions, Nu 1-6, Tan 4, Boot 3; road construction, 19.2 kilometres, covering all claims on which drilling was done.

REFERENCES: Mineral Inventory 93K-8; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 188.

MOLY (Fig. E-1, NTS 93, No. 58)

LOCATION: 54° 04' Long. 125° 10' (93K/3E)
OMINECA M.D. Four kilometres southerly from Savory on the Canadian National Railway line.

CLAIMS: LILY (8 units), DAISY (8 units) (a restaking of Moly claims).

OWNER: Gene P. Huck.

OPERATOR: GRANGES EXPLORATION AKTIEBOLAG, 1060, 1055 West Hastings Street, Vancouver V6E 2E9.

METAL: Molybdenum.

DESCRIPTION: The property overlies Endako quartz monzonite.

WORK DONE: Road construction (to drill sites), 4 000 metres, and percussion drilling, 21 holes totalling 1 310.64 metres, on both claims.

REFERENCES: Mineral Inventory 93K-83; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 188; Assessment Report 6995.

LOON (Fig. E-1, NTS 93, No. 56)

LOCATION: Lat. 54° 11' Long. 125° 08' (93K/3E)
OMINECA M.D. Surrounding Owl Lake, approximately 12 kilometres northwest of Endako.

CLAIMS: LOON 1 to 4 (64 units).

OWNER: PLACER DEVELOPMENT LIMITED, 700, 1030 West Georgia Street, Vancouver V6E 2Y3.

METALS: (Molybdenum, uranium).
DESCRIPTION: Topley plutonic rocks and a foliated quartz diorite complex occur in fault contact. They are unconformably overlain by Ootsa Lake volcanic rocks. Down-faulting and subsequent erosion have resulted in a northwest-trending outcrop belt of Ootsa Lake volcanic rocks. Very minor amounts of secondary uranium have been found in shear zones cutting the volcanic rocks. Molybdenite occurs in small amounts in a weakly developed stockwork to the west of the volcanic belt.
WORK DONE: Diamond drilling, 5 holes totalling 567.2 metres, on Loon 2 and 4.
REFERENCE: Mineral Inventory 93K-82.

HANSON LAKE (Fig. E-1, NTS 93, No. 52)

LOCATION: Lat. 54° 14' Long. 125° 05' (93K/3E)
 OMINECA M.D. Along the southern shore of Hanson Lake, 23 kilometres north-northwest of the community of Fraser Lake.
CLAIMS: ENDEX 1 (4 units), ENDEX 2 (15 units), ENDEX 3 (6 units), ENDEX 4 (7 units), ENDEX 5 (14 units), ENDEX 6 (2 units), ENDEX 7 (12 units), ENDEX 8 (6 units), ENDEX 9 (2 units).
OWNER: PLACER DEVELOPMENT LIMITED, Endako Mines Division, Endako V0J 1L0.
METALS: Molybdenum, copper.
DESCRIPTION: Thin quartz-pyrite-molybdenite veinlets with intermittent minor chalcopyrite occur in a weakly kaolinized and locally sericitized porphyritic quartz monzonite stock. Mineralization extends into older quartz diorite gneiss that borders part of the intrusive stock. Narrow andesitic and granitic dykes intrude both rock units.
WORK DONE: Diamond drilling, 3 BQ holes totalling 354 metres, on Endex 2.
REFERENCES: Mineral Inventory 93K-81; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 189; Assessment Report 6664.

MONA (Fig. E-1, NTS 93, No. 59)

LOCATION: Lat. 50° 06' Long. 125° 44' (93K/4E)
 OMINECA M.D. Immediately west of Tchesinkut Lake.
CLAIM: RED BARON (12 units).
OWNER: HILLSIDE ENERGY CORPORATION, 503, 134 Abbott Street, Vancouver.
METALS: Copper, lead, zinc, silver, barite.
DESCRIPTION: Quartz-calcite-barite veins, mineralized with pyrite, chalcopyrite, galena, and sphalerite, cut andesite flows. Disseminated pyrite and possibly other sulphides are present within the andesitic rocks.

Copper-zinc soil anomalies have been detected within the andesite terrain. Coincident induced polarization and magnetic anomalies have also been identified.

WORK DONE: Linecutting, 14.8 kilometres; prospecting; and geochemical survey, 297 soil samples analysed for copper, lead, zinc, covering all units; induced polarization survey, 3.3 kilometres, and magnetometer survey, 5.4 kilometres, covering central units of Red Baron.

REFERENCES: Mineral Inventory 93K-32; *Minister of Mines, B.C.*, Ann. Rept., 1929, p. 181.

GOLDEN GLORY, MO (Fig. E-1, NTS 93, No. 60)

LOCATION: Lat. 54° 17' Long. 125° 52' (93K/5W)
OMINECA M.D. Straddling Gerow Creek, 1.5 kilometres southwest of Decker Lake.

CLAIM: DECK 1 (9 units).

OWNER: G. H. Rayner.

OPERATOR: COMMONWEALTH MINERALS LTD., 706, 675 West Hastings Street, Vancouver V6B 1N2.

METALS: Copper, silver, lead, zinc.

DESCRIPTION: Mineralization on the Deck property consists of chalcopyrite, pyrite, galena, and sphalerite. These minerals occur disseminated and in fractures in a light-coloured, brecciated, intermediate volcanic rock. The attitude of the mineralization structure is uncertain.

WORK DONE: Linecutting, 20 kilometres; petrography, 11 thin sections; geochemical survey, 349 soil and 15 rock samples analysed for copper, silver, lead, and zinc; and pulse electromagnetic survey, 13 kilometres, covering Deck 1.

REFERENCES: Mineral Inventory 93K-31; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 331; Assessment Reports 6917, 7114.

HELENE LAKE (Fig. E-1, NTS 93, No. 55)

LOCATION: Lat. 54° 16' Long. 125° 00' (93K/6E, 7W, 3E)
OMINECA M.D. Immediately south of the east end of Helene Lake.

CLAIMS: ENDEX 15 to 18 (20 units each), ENDEX 19 (10 units).

OWNER: PLACER DEVELOPMENT LIMITED, Endako Mines Division, Endako V0J 1L0.

DESCRIPTION: Porphyritic, felsic volcanic flow rocks overlie a foliated metamorphic complex. These are, in part, overlain by younger amygdaloidal basalt flow rocks.

WORK DONE: Geochemical survey, 17 bulk rock samples assayed for uranium, covering Endex 15, 17, 18; scintillometer survey, covering Endex 15-19, track etch cup survey, covering Endex 16.

1978

(93K/8)

NOBLE (Fig. E-1, NTS 93, No. 62)

LOCATION: Lat. 54° 16' Long. 124° 15' (93K/8)
OMINECA M.D. Nineteen kilometres southerly from Fort St. James,
near the road and between Dog Creek and Tsah Creek.

CLAIMS: NOBLE A to NOBLE D (20 units).

OWNER: ARTHUR GERALD WILSON, 9352 - 101A Avenue, Edmonton,
Alberta T5H 0C3.

METALS: Copper, gold, silver.

DESCRIPTION: On Noble D claim (unit 2), a trench 40 metres in length has exposed a
quartz vein of good size embedded within a fault, cutting carbonatized
peridotite. The vein which is 5 metres in width contains copper-gold-
silver values.

WORK DONE: Geochemical survey, 31 soil samples analysed for copper, gold, and
silver, and 6 trenches totalling 60 metres, on Noble D (unit 2).

PUP (Fig. E-1, NTS 93, No. 61)

LOCATION: Lat. 54° 15.5' Long. 124° 21' (93K/8W)
OMINECA M.D. Twenty-two kilometres southwest of Fort St. James,
where the road crosses Dog Creek.

CLAIMS: PUP 1 to 4.

OWNER: A. L. McCUBBIN, Box 1, Endako V0J 1L0.

METAL: (Gold).

DESCRIPTION: Low-lying gravel flats bordering Dog Creek show indications of
mineralization. No bedrock is exposed. The origins and values are under
investigation.

WORK DONE: Four trenches totalling 30 metres, on Pup 1; 4 trenches totalling 20
metres, on Pup 2; 3 trenches totalling 25 metres, on Pup 3.

SMITHERS 93L

SAM GOOSLY (Fig. E-1, NTS 93, No. 64)

LOCATION: Lat. 54° 12' Long. 126° 16' (93L/1W)
OMINECA M.D. Forty kilometres southeast of Houston, 6.5 kilo-
metres east of Goosly Lake.

CLAIMS: SG 1 to 52, 54, 56, 61 to 64, 66, SG 1 to 5 Fractions, TAN 1 to 7, T 1
to 41, 46 to 53, 66 to 199, 202 to 295, NET 1 to 3 Fractions, REV 1
to 15, GAUL 1 to 20, X1-1 (3 units).

OWNER: EQUITY MINING CORPORATION, 908, 1111 West Hastings Street,
Vancouver V6E 2J3.

- METALS:** Silver, copper, gold, antimony.
- DESCRIPTION:** The Sam Goosly deposits occur as tabular zones within a window of Early Cretaceous rocks which are surrounded by younger volcanic rocks and intruded by two stocks along the flanks of the host unit. The principal minerals of economic importance are tetrahedrite and chalcopyrite. All of the reserves outlined to date lie within a narrow band of pyroclastics forming two separate zones. The presently outlined open-pit reserves on the property are estimated at: main line, 30 000 000 tonnes yielding 0.30 per cent copper, 96.1 grams per tonne silver, 0.79 gram per tonne gold, and 0.084 per cent antimony; southern tail, 9 500 000 tonnes yielding 0.40 per cent copper, 92.6 grams per tonne silver, 1.20 grams per tonne gold, and 0.078 per cent antimony; total reserves, 39 500 000 tonnes yielding 0.33 per cent copper, 95.4 grams per tonne silver, 0.89 grams per tonne gold, and 0.085 per cent antimony.
- WORK DONE:** Diamond drilling, 18 NQ holes totalling 2 128 metres, on SG 17, 35, T 93, 102 and SG 25, 28, 43, 44, 45, 47, 48 (Mining Lease No. 1).
- REFERENCES:** Mineral Inventory 93L-1; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 189, E 190; Assessment Report 6985.

IRK (Fig. E-1, NTS 93, No. 65)

- LOCATION:** Lat. 54° 12' Long. 126° 38' (93L/2E)
OMINECA M.D. Twenty-four kilometres south of Houston, 1 kilometre north of Parrott Creek.
- CLAIMS:** IRK I to IRK VII (26 units).
- OWNER:** ASARCO EXPLORATION COMPANY OF CANADA LIMITED, 504, 535 Thurlow Street, Vancouver V6E 3L2.
- WORK DONE:** Geochemical survey, 137 soil samples analysed for copper, lead, zinc, silver, mercury, arsenic, and gold, covering Irk I to VI.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 190; Assessment Reports 6477, 7072.

RED (Fig. E-1, NTS 93, No. 66)

- LOCATION:** Lat. 54° 10' Long. 126° 58' (93L/2W)
OMINECA M.D. Thirty-three kilometres southwest of Houston, on Code Creek about 4 kilometres south of Morice River.
- CLAIMS:** RED (16 units), RED 2 (9 units), JAY 2 (16 units).
- OWNER:** VITAL MINES LTD., 1014, 111 Richmond Street West, Toronto, Ontario M5H 2G4.
- DESCRIPTION:** The property is underlain by Mesozoic and Tertiary volcanic rocks. No mineralization was found. There are geochemical indications of silver-zinc-lead in soils largely derived from glacial tills.

1978

(93L/3E)

WORK DONE: Geological mapping; geochemical survey, 450 soil samples analysed for silver, lead, copper, zinc, and gold; surface diamond drilling, 2 NQ holes totalling 178.3 metres, on Jay 2.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, pp. 373-379; Assessment Report 7014.

HAGAS (Fig. E-1, NTS 93, No. 67)

LOCATION: Lat. 54° 09' Long. 127° 02' (93L/3E)
OMINECA M.D. Ten kilometres west of Tsalit Mountain, 35 kilometres south of the Morice River.

CLAIMS: HAGAS 1 to 6 and 16, HAGAS 76 (4 units), HAGAS 77 (4 units), HAGAS 78 (18 units), HEM (12 units), FRY (20 units), PAN (16 units).

OPERATOR: AQUITAINE COMPANY OF CANADA LTD., 540 Fifth Avenue SW., Calgary, Alberta T2P 0M4.

METALS: Zinc, copper.

DESCRIPTION: The property is underlain by brown and green andesite, andesitic pyroclastic rocks, and minor dacite and rhyolite flows of the Hazelton Group. Some minor conglomerate and sandstone were intersected in drill holes. Zinc and copper mineralization is associated with fracturing in the Hazelton volcanic rocks. Two electromagnetic conductors were drilled off with negative results. One was associated with a silver, arsenic, and mercury geochemical anomaly.

WORK DONE: 1977 — airborne electromagnetic survey, 183.5 kilometres, covering all Hagas and Hem claims; 1978 — surface geological mapping, 1:25 000; electromagnetic survey, 9 850 metres; and geochemical soil survey, covering Fry and Pan.

REFERENCES: Mineral Inventory 93L-5, 221; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 192; Assessment Reports 4194, 6233, 6658.

FRY (Fig. E-1, NTS 93, No. 70)

LOCATION: Lat. 54° 09' Long. 127° 03' (93L/3E)
OMINECA M.D. Approximately 2.5 kilometres southeast of confluence of Lamprey Creek and Morice River.

CLAIMS: FRY (20 units), PAN (16 units).

OWNER: AQUITAINE COMPANY OF CANADA LTD., 540 — 5th Avenue SW., Calgary, Alberta T2P 0M4.

METAL: Copper.

DESCRIPTION: The claims are underlain by brown basaltic, pyroclastic, and andesitic tuffs and flows of the Hazelton Group which are covered by Tertiary (Buck Creek) volcanic rocks.

1978

(93L/7W)

WORK DONE: Geological mapping, 1:25 000; electromagnetic survey, 9 850 metres; geochemical soil survey, 9 850 metres, covering both claims.

REFERENCE: Mineral Inventory 93L-5.

BARR (Fig. E-1, NTS 93, No. 69)

LOCATION: Lat. 54° 26' Long. 126° 53' (93L/7W)
OMINECA M.D. Ten kilometres west-northwest of the confluence of Morice and Bulkley Rivers.

CLAIMS: JAILBIRD, JAILBIRD 2 (6 units each).

OWNER: K. WAYNE LIVINGSTONE, 4317 West 12th Avenue, Vancouver.

METAL: Molybdenum.

DESCRIPTION: Molybdenite occurs in fine quartz veinlets in a pervasively altered breccia.

WORK DONE: Geochemical survey, 47 rock samples analysed for copper, lead, zinc, manganese, molybdenum, tin, and tungsten, covering Jailbird 2.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res., GEM, 1971, p. 174; Assessment Report 7060.*

GOLD BRICK (Fig. E-1, NTS 93, No. 68)

LOCATION: Lat. 54° 18' Long. 126° 37' (93L/7E)
OMINECA M.D. At the junction of Bob Creek and Buck River, 12 kilometres south-southeast of Houston.

CLAIMS: GODFREY, CLOUD, LORNE, BUCK, HC (40 units).

OPERATOR: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

METALS: Copper, lead, zinc, silver, gold.

DESCRIPTION: The property covers a partially exposed western portion of a Hazelton-aged felsite sheet or dome, capped by Lower Ootsa Lake Group. Minor chalcopyrite and galena with arsenopyrite and subordinate sphalerite occur in veinlets and disseminated within the acid Mesozoic volcanic sequence. The mineralization occurs in tuff and breccia facies adjacent (distal ?) to a feldspar porphyry unit of similar composition.

WORK DONE: Surface geological mapping, 1:1500, covering Buck and Lorne; pulse electromagnetic survey, 13 kilometres, covering Buck, Godfrey, and Lorne; surface diamond drilling, 6 BQ holes totalling 751 metres, on Buck.

REFERENCES: Mineral Inventory 93L-9; *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, p. E 193; Assessment Reports 6737, 6912.*

SILVER CUP (Fig. E-1, NTS 93, No. 72)

LOCATION: Lat. 54° 35' Long. 126° 15' (93L/9)
 OMINECA M.D. Nine kilometres north-northeast of Topley.

CLAIMS: SILVER CUP 1 and 2, HIGH COMMAND, BIG QUA, VINCENT, MAPLE LEAF, SAM, SILVER.

OWNER: L. W. PERRY, Box 790, Smithers VOJ 2N0.

METALS: Lead, zinc, copper.

DESCRIPTION: Sulphides occur in a fissure zone in altered andesite breccia.

WORK DONE: Surface diamond drilling, 2 holes totalling 100 metres, on Silver Cup and High Command.

REFERENCES: Mineral Inventory 93L-16; *Minister of Mines, B.C.*, Ann. Rept., 1952, p. 95; Assessment Report 6771.

LIB (Fig. E-1, NTS 93, No. 71)

LOCATION: Lat. 54° 43' Long. 126° 10' (93L/9E)
 OMINECA M.D. Nine kilometres south of Topley Landing.

CLAIMS: LIB 1 (6 units), LIB 2 (6 units).

OWNER: L. COTE, RR 2, Viewmount Road, Smithers VOJ 2N0.

WORK DONE: Geochemical survey, 43 soil samples analysed for copper, molybdenum, lead, and zinc, and one trench totalling 360 square metres, on both claims.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 195.

MINERAL HILL (HUBER) (Fig. E-1, NTS 93, No. 74)

LOCATION: Lat. 54° 31' Long. 126° 43.5' (93L/10E)
 OMINECA M.D. Fourteen kilometres north-northwest of Houston, mainly northwest of Fishpan Lake.

CLAIMS: MINERAL HILL (16 units), MINERAL HILL A (2 units), MINERAL HILL B (2 units).

OWNER: GRANBY MINING CORPORATION, 1500, 1066 West Hastings Street, Vancouver V6E 3X1.

METALS: Molybdenum, (copper, silver).

DESCRIPTION: Molybdenite, with minor chalcopyrite, occurs in quartz veinlets or stockwork in hornfelsed volcanic rocks and in alaskite dykes peripheral to and some distance from a granitic intrusion.

WORK DONE: Linecutting, 16 kilometres; induced polarization and magnetometer survey, 16 kilometres; geochemical survey; and geological mapping, covering Mineral Hill and Mineral Hill B; diamond drilling, 1 036 metres, and percussion drilling, 588 metres, on Mineral Hill.

REFERENCES: Mineral Inventory 93L-27, 28; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 195; Assessment Report 7117.

DL (Fig. E-1, NTS 93, No. 73)

- LOCATION:** Lat. 54° 42' Long. 126° 39' (93L/10E)
OMINECA M.D. Approximately 28 kilometres due east of Telkwa, immediately east of Deception Lake.
- CLAIM:** DL 1 (20 units).
- OWNER:** NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.
- DESCRIPTION:** The property is underlain by volcanic and sedimentary rocks belonging to the Telkwa Formation of the Early Jurassic Hazelton Group. Volcanic rocks noted include medium grey, fine-grained tuff, lapilli tuff, andesite and andesitic lapilli tuff, and tuff breccia. Sedimentary rocks noted include black graphitic siltstone and tuffaceous sandstone. Pyrite is common.
- WORK DONE:** Linecutting, 12.85 kilometres; surface geological mapping, 1:5000; Crone electromagnetic survey, 10.75 kilometres; induced polarization survey, 7.15 kilometres; vertical loop electromagnetic survey, 1.25 kilometres; magnetometer survey, 7.35 kilometres; geochemical survey, 86 soil samples analysed for copper, molybdenum, lead, and zinc; and diamond drilling, 2 BQ holes totalling, 253.5 metres, on DL 1.

LAVA (Fig. E-1, NTS 93, No. 75)

- LOCATION:** Lat. 54° 31' Long. 127° 07' (93L/11E)
OMINECA M.D. Twenty-one kilometres southerly from Telkwa, east of the pear-shaped lake at the headwaters of the most eastern branch of Webster Creek.
- CLAIMS:** OLD TOM 1 and 2, HANKIN 1 to 16.
- OPERATOR:** CARDERO RESOURCES LTD., c/o 203, 2025 Bellevue Avenue, West Vancouver V7V 1B9.
- METALS:** Copper, molybdenum, silver.
- DESCRIPTION:** Flat-lying Hazelton volcanic rocks are intruded by granodiorite and diorite dykes. Chalcopyrite and molybdenite occur as disseminations and fracture coatings in the intrusive rocks.
- WORK DONE:** Surface diamond drilling, 2 BQW holes totalling 183 metres, on Old Tom 1.
- REFERENCES:** Mineral Inventory 93L-37; B.C. Ministry of Energy, Mines & Pet. Res., GEM, 1972, p. 417; Assessment Report 7070.

KING TUT (Fig. E-1, NTS 93, No. 76)

- LOCATION:** Lat. 54° 46' Long. 127° 21' (93L/14W)
OMINECA M.D. Approximately 2.5 kilometres northeast of Aldrich Lake, about 21 kilometres west-northwest of Telkwa.

1978

(93L/15W)

CLAIMS: SPRUCE 1 to 3.
OWNER: KEVIN COSWAN, Box 3277, Smithers V0J 2N0.
METALS: Gold, silver, lead, zinc.
DESCRIPTION: A 1 to 2-metre shear zone carries sphalerite, minor galena, and chalcopyrite, with associated siderite stringers in country rock consisting of Hazelton volcanic rocks, predominantly rhyolite.
WORK DONE: Linecutting, 1.6 kilometres, covering all claims; control survey, 0.8 metre, on Spruce 1; road survey, 1 kilometre, on Spruce 1 and 3; 11 trenches totalling 27 cubic metres, on Spruce 1.
REFERENCES: Mineral Inventory 93L-87; *Minister of Mines, B.C.*, Ann. Rept., 1928, p. 61.

CRONIN MINE (Fig. E-1, NTS 93, No. 78)

LOCATION: Lat. 54° 55' Long. 126° 48' (93L/15W)
OMINECA M.D. Nine kilometres west of Chapman Lake, at the headwaters of Cronin Creek.
CLAIMS: SUNFLOWER FR. (Lot 7417), SUNFLOWER (Lot 7418), HOME-STAKE, BONANZA, EUREKA, LUCKY STRIKE, BABINE CHIEF, BULKLEY PIONEER (Lots 1859A to 1864A), VIEW 1 to 8, DEL 1 to 16, JIM NO. A Fraction, MILL 1 and 2, SUNRISE 7, RED (4 units).
OWNER: HALLMARK RESOURCES LTD., 2050, 200 Granville Street, Vancouver V6C 1S4.
METALS: Silver, lead, zinc, (gold, cadmium).
DESCRIPTION:

Mineralization occurs as vein fillings in a fine-grained, porphyritic intrusive sill (rhyolite ?) of Tertiary age, near the contact of a fine-grained argillaceous sediment of the Jurassic Hazelton Group. The mineralized veins are the result of two rather sinuous faults. Movement along the fault planes created significant cavities and zones of brecciation which subsequently filled with mineralizing fluids and quartz gangue. Mineralization occurs as pods within the main fault plane, up to 40 metres long by 6 metres wide. There is a distinct zoning of minerals within the pods: galena, boulangerite, and tetrahedrite concentrated near the fault plane, and sphalerite spread out into the altered and brecciated wallrock. Pyrite and chalcopyrite occur erratically throughout the vein system.

WORK DONE: Geological mapping, 1:250, covering Bonanza; survey level 1, with check survey level 3; sampling level 1.
REFERENCES: Mineral Inventory 93L-127; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 263.

MONA (Fig. E-1, NTS 93, No. 79)

LOCATION: Lat. 54° 46' Long. 126° 37' (93L/15E)
OMINECA M.D. Three kilometres northeast of Dome Mountain, approximately 28 kilometres east-northeast of Telkwa.

1978

(93L/15E)

CLAIMS: MONA 1 to 20.
OPERATOR: CASSINI MINES LIMITED, 420, 890 West Pender Street, Vancouver V6C 1K1.
METALS: Gold, silver, copper.
DESCRIPTION: Mineralization occurs in quartz veins cutting Hazelton andesites and phyllites.
WORK DONE: Magnetometer and electromagnetic surveys, covering all claims.
REFERENCE: Assessment Report 6619.

ASCOT (Fig. E-1, NTS 93, No. 77)

LOCATION: Lat. 54° 47' Long. 126° 43' (93L/15E)
OMINECA M.D. Five kilometres southeast of Mount McKendrick, surrounding the four small lakes located there.
CLAIMS: MS (9 units), MS 2 (6 units), BYRON (16 units), BYRON 2 (16 units).
OPERATOR: PETRA GEM EXPLORATIONS LTD., 200, 3540 West 41st Avenue, Vancouver.
METALS: Zinc, lead, (copper, silver).
DESCRIPTION: Galena, sphalerite, pyrite, and minor chalcopyrite occur disseminated in rhyolitic tuffs and along bedding planes in limestone.
WORK DONE: 1977 – prospecting and diamond drilling, 3 holes totalling 8 metres, on MS; 1978 – prospecting; surface geological mapping, 1:2400; and ground magnetometer survey, 5.1 kilometres, covering Byron.
REFERENCES: Mineral Inventory 93L-24; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 100; Assessment Reports 6784, 6937.

HAZELTON 93M

MT (Fig. E-1, NTS 93, No. 80)

LOCATION: Lat. 55° 04' Long. 127° 33' (93M/4E)
OMINECA M.D. Immediately east and southeast from Brian Boru Peak.
CLAIMS: NELSON, CHEYENNE, CORY, TOM, GRANNY, JACKPOT, MICHAEL (3 units each).
OWNERS: Lillian Mitchell, Helen Nikal, Gloria Mitchell, Tom Mitchell, Emma Mitchell, Winnie Joseph, and Kenneth R. Van Gaalen.
OPERATOR: KENNETH R. Van GAALLEN, Box 51, Smithers V0J 2N0.
METALS: Gold, silver, lead, copper.
DESCRIPTION: Pyrite, molybdenite, sphalerite, and tetrahedrite occur in fracture sets in volcanic rocks of the Brian Boru Formation.
WORK DONE: Trail cutting and prospecting, 200 samples analysed for silver and gold, covering all claims.
REFERENCES: Mineral Inventory 93M-63; *Minister of Mines, B.C.*, Ann. Rept., 1967, p. 85; Assessment Report 6894.

1978

(93M/4E)

VICTORIA (Fig. E-1, NTS 93, No. 81)

LOCATION: Lat. 55° 10' Long. 127° 39' (93M/4E)
OMINECA M.D. Eight kilometres south-southeast of Hazelton.

CLAIMS: Thirty-seven Crown-granted claims, including VICTORIA (Lot 3303).

OWNERS: Sandra Frenzel, Kathleen McGowan, and J. M. Hutter.

OPERATOR: J. M. HUTTER, RR 1, Telkwa V0J 2X0.

METALS: Gold, cobalt, molybdenum.

DESCRIPTION: A series of westerly striking veins cut granodiorite of the Rocher Deboule stock. Work was confined to the No. 1 vein on the Victoria claim. In this vein, cobalt-nickel-iron sulpharsenides containing gold are found in streaks and lenses within a gangue which is primarily actinolite.

WORK DONE: Improvement of access road, 3 kilometres; re-opening and re-timbering two portals, on Victoria.

REFERENCES: Mineral Inventory 93M-72; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 155.

AMERICAN BOY (Fig. E-1, NTS 93, No. 82)

LOCATION: Lat. 55° 19' Long. 127° 33' (93M/5E)
OMINECA M.D. On the southwest slope of Nine Mile Mountain, 10 kilometres northeast of Hazelton.

CLAIMS: CINDY LOU (4 units), JANELLE (2 units), BONNIE (Lot 6454), MARWILL NO. 1 (Lot 6457), CANADIAN QUEEN (Lot 2410), CANADIAN QUEEN FR. (Lot 2415), MARWILL NO. 2 (Lot 6456).

OWNER: A. Homenuke.

OPERATOR: CAN-EX RESOURCES LTD., c/o Box 12542, 1540, 1066 West Hastings Street, Vancouver.

METALS: Silver, lead, gold, zinc.

WORK DONE: Prospecting and ground electromagnetic survey, 5 kilometres, covering Crown grants; trenching, 99 metres, and sampling, covering Cindy Lou and Janelle.

REFERENCES: Mineral Inventory 93M-47; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 173; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 200; Assessment Report 6789.

SUPRISE (Fig. E-1, NTS 93, No. 83)

LOCATION: Lat. 55° 19' Long. 127° 37' (93M/5E)
OMINECA M.D. Immediately north of Mount Glen, 8 kilometres northerly of Hazelton.

1978

(93M/5E)

CLAIMS: SUPRISE (Lot 3711), SHAMROCK (Lot 3712).
OWNERS: John Coswan and Kevin Coswan.
OPERATOR: KEVIN COSWAN, Box 3277, Smithers V0J 2N0.
METALS: Gold, silver, lead, zinc.
DESCRIPTION: Pyrite, sphalerite, and some galena occur in veins cutting sandstone and greywacke of the Bowser Formation.
WORK DONE: Linecutting, 900 metres, on both claims; trail cutting, 150 metres, on Surprise; pit, 1 cubic metre, on Surprise; control survey, 400 metres, covering both claims.
REFERENCES: Mineral Inventory 93M-48, 49; *Minister of Mines, B.C.*, Ann. Rept., 1950, p. 95;

SUNRISE (Fig. E-1, NTS 93, No. 89)

LOCATION: Lat. 55° 21' Long. 127° 29' (93M/6W)
OMINECA M.D. On the eastern flank of Nine Mile Mountain.
CLAIMS: VAN 1 to 6, ALPHA 1 to 30.
OPERATOR: SUNRISE METALS CORPORATION, 613, 837 West Hastings Street, Vancouver V6C 1B6.
METALS: Silver, lead, zinc.
DESCRIPTION: Lead and zinc sulphides occur in veins cutting granodiorite and intruded sedimentary rocks.
WORK DONE: Road work, 3.5 kilometres long and 4 metres wide; surface geological mapping, covering all claims.
REFERENCES: Mineral Inventory 93M-43, 46; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 270.

MG (Fig. E-1, NTS 93, No. 84)

LOCATION: Lat. 55° 16' Long. 127° 10' (93M/6E)
OMINECA M.D. On the south bank of the Suskwa River, approximately 24 kilometres east of New Hazelton.
CLAIMS: MAX (6 units), MARTIN 1 to 6 (56 units).
OPERATOR: REBEL DEVELOPMENTS LTD., 3, 425 Howe Street, Vancouver V6C 2A9.
METALS: Zinc, lead, antimony, silver, gold.
DESCRIPTION: The property is underlain by Bowser Group sedimentary rocks (quartzites, conglomerate, greywacke, cherts, sandstones, grits, shales, etc.) which have been intruded by a Cretaceous plug of quartz diorite with associated dykes of microdiorite, aplite, etc. Mineralization consists essentially of two main types: (1) gash veins in the intrusive rocks which carry boulangerite, jamesonite, sphalerite, pyrite, with

quartz and carbonate gangue; (2) similar mineralization in sedimentary rocks adjacent to the intrusive rocks, as well as possible replacement of selected beds. Mineralogy in the sedimentary rocks is similar but generally carries higher silver and antimony values.

WORK DONE: 1977 and 1978 -- road construction, 1.9 kilometres; linecutting, 1 890 metres; trenching, 126 metres; and diamond drilling, 6 BQ holes totalling, 303.6 metres and one winkie hole totalling 52.1 metres, on Max; surface geological mapping, 1:2400, covering Max and Martin 1, 5.

REFERENCES: Mineral Inventory 93M-27; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 201; Assessment Report 6998.

BEAR (Fig. E-1, NTS 93, No. 85)

LOCATION: Lat. 55° 33' Long. 127° 38' (93M/12E)
OMINECA M.D. Five kilometres north-northeast of the confluence of Sterritt Creek and Skeena River.

CLAIMS: MORE 1 and 2 (21 units).

OWNER: ASARCO EXPLORATION COMPANY OF CANADA, LIMITED, 504, 535 Thurlow Street, Vancouver V6E 3L2.

METALS: Molybdenum, copper.

DESCRIPTION: Molybdenite, chalcopyrite, pyrite, and minor specularite and sphalerite occur in quartz veinlets in the monzonite stock.

WORK DONE: Surface geological mapping, 1:2500, and geochemical survey, 54 rock samples, covering More 1.

REFERENCES: Mineral Inventory 93M-79; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 177; Assessment Report 7071.

FOG (Fig. E-1, NTS 93, No. 86)

LOCATION: Lat. 55° 54' Long. 127° 30' (93M/13E, 14W)
OMINECA M.D. Approximately 8.5 kilometres northeast of the confluence of Rosenthal and Shedin Creeks.

CLAIMS: FOG (8 units), PEAK (12 units).

OWNER: A. Horne.

OPERATOR: ST. JOSEPH EXPLORATIONS LTD., 970 Laval Crescent, Kamloops V2C 5P5.

METALS: Copper, molybdenum, (gold, silver, tungsten).

DESCRIPTION: Porphyry-type copper-molybdenum mineralization is present within a felsic stock which trends northeast and has dimensions of approximately 4.5 by 2.5 kilometres. Grades are about 0.05 per cent copper and 0.008 per cent molybdenum. Vein-type molybdenum-copper

mineralization is found 500 metres east of the previously mentioned stock within siltstones of the Jurassic Bowser Group. The vein has erratically distributed mineralization, however, five chip samples averaged 0.27 per cent molybdenum and 0.11 per cent copper over a true width of 3.9 metres and a length of 130 metres.

WORK DONE: Prospecting; surface geological mapping; and geochemical survey, 24 widely spaced bedrock samples, covering both claims.

REFERENCES: Mineral Inventory 93M-125; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1971, p. 191; Assessment Report 7116.

GOATHEAD (Fig. E-1, NTS 93, No. 88)

LOCATION: Lat. 55° 45' Long. 127° 26' (93M/14W)

OMINECA M.D. Eleven kilometres northeast of the site of Kisgegas.

CLAIM: MOLLY BLUE (8 units).

OWNER: JOHN CHRISOSTEM BOT, Box 41, Smithers.

METALS: Molybdenum, copper.

DESCRIPTION: Molybdenite, chalcopyrite, and pyrite occur in quartz veinlets in a porphyritic granodiorite stock that intrudes argillic Bowser Group sedimentary rocks.

WORK DONE: Prospecting.

REFERENCES: Mineral Inventory 93M-82; *Minister of Mines, B.C.*, Ann. Rept., 1966, p. 81; Assessment Report 6723.

SHEL (Fig. E-1, NTS 93, No. 87)

LOCATION: Lat. 55° 57' Long. 127° 01' (93M/14E)

OMINECA M.D. At the headwaters of the Nilkitkwa River, 5 kilometres east of the Sicintine Range.

CLAIMS: SHEL 1 to 29, 31, 32, 34, 36 to 47, SHEL D Fraction.

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: Molybdenum, copper.

DESCRIPTION: Disseminated molybdenite and chalcopyrite occur as fracture fillings and in quartz veins within hornfelsed clastic sedimentary rocks of the Bowser Basin, intruded by a quartz monzonite stock of Late Cretaceous/Early Tertiary age.

WORK DONE: Linecutting, 34 kilometres; geochemical survey, 469 soil samples analysed for copper and molybdenum; magnetometer survey, 33.62 kilometres; induced polarization survey, 22.22 kilometres; and surface geological mapping, 1:5000, covering all claims; geochemical survey, 220 rock samples analysed for copper, lead, zinc, molybdenum, and tungsten, covering Shel 1-10, 29-41, 43.

REFERENCES: Mineral Inventory 93M-92, 132, 133; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 273; Assessment Report 6849.

MANSON RIVER 93N

JW, JEAN (Fig. E-1, NTS 93, No. 90)

LOCATION: Lat. 55° 06' Long. 124° 53' (93N/2W)
 OMINECA M.D. Twelve kilometres south of Tchentlo Lake, at the headwaters of Jean Marie Creek.

CLAIMS: JW and JEAN, totalling 211.

OWNER: NBC Syndicate.

OPERATOR: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: Copper, molybdenum.

DESCRIPTION: Copper and molybdenum mineralization occurs in Takla volcanic rocks and in a composite intrusion of the Jean stock.

WORK DONE: Linecutting, 8.5 kilometres; induced polarization and ground magnetometer surveys, 11.2 kilometres, covering Jean claims.

REFERENCES: Mineral Inventory 93N-83; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 201; Assessment Report 6948.

DON, JOHN (Fig. E-1, NTS 93, No. 91)

LOCATION: Lat. 55° 18' Long. 125° 35' (93N/5E)
 OMINECA M.D. Approximately 11.5 kilometres east-northeast of Dominion Point, on Takla Lake.

CLAIMS: DON (12 units), JOHN (18 units), DAIRY (12 units).

OWNER: PLACER DEVELOPMENT LIMITED, Endako Mines Division, Endako BOJ 1L0.

METAL: Molybdenum.

DESCRIPTION: Mineralization occurs as scattered quartz-molybdenite veins in a fresh to weakly altered medium to fine-grained, grey, equigranular quartz monzonite stock. The surrounding older rock is medium grained, pink to grey, equigranular to porphyritic quartz monzonite of the Mitchell batholith.

WORK DONE: Geochemical survey, 186 soil and stream sediment samples assayed for molybdenum, copper, zinc, lead, nickel, silver, uranium, and tungsten, covering all claims, 9 water samples assayed for molybdenum, copper, zinc, lead, nickel, gold, and uranium, covering Dairy, 394 soil and stream sediment samples assayed for molybdenum, copper, and

uranium, 12 water samples assayed for molybdenum, and 9 rock samples assayed for molybdenum and copper, covering John and Don.

REFERENCES: Mineral Inventory 93N-181; Assessment Report 6814.

STROH (Fig. E-1, NTS 93, No. 92)

LOCATION: Lat. 55° 37' Long. 124° 23' (93N/9W)
OMINECA M.D. On Boulder Creek, 1.5 kilometres from its confluence with Mansen Lake.

CLAIMS: BOLD 1 to 4 (58 units).

OWNER: ESSO RESOURCES CANADA LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Lead, zinc, molybdenum, copper, (silver).

DESCRIPTION: A narrow lens of high-grade, massive mineralization, consisting of pyrite, galena, sphalerite, and molybdenite, is associated with brecciated limestone and talc schists. Galena-bearing quartz veins also occur.

WORK DONE: Road upgrading, 2 000 metres, and trenching, 2 500 square metres, on Bold 2; linecutting, 27.2 kilometres; geochemical survey, 958 soil samples analysed for lead, zinc, copper, molybdenum, and silver; electromagnetic and magnetometer survey, 25 kilometres; and geological mapping, 1:2500, covering all claims.

REFERENCES: Mineral Inventory 93N-137; Assessment Reports 1659, 3804, 4611, 6941.

LUSTDUST (Fig. E-1, NTS 93, No. 93)

LOCATION: Lat. 55° 34' Long. 125° 24' (93N/11W)
OMINECA M.D. Immediately west of Silver Creek, between Dream and West Kwanika Creeks.

CLAIMS: K (6 units), L (12 units), M (20 units).

OWNER: GRANBY MINING CORPORATION, 1500, 1066 West Hastings Street, Vancouver V6E 3X1.

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

DESCRIPTION: Lenses of massive pyrrhotite, with pyrite, sphalerite, chalcopyrite, and galena, occur principally at the contact of a greenstone unit with a limestone unit within a predominantly argillite succession. Fold and fault structures make small-scale geology quite complex. Granby is exploring for repetitions, hopefully larger, of the massive sulphide deposits on strike from the old showings which the claims surround.

WORK DONE: Prospecting; linecutting, 67 kilometres; surface geological mapping, 1:5000; and geochemical survey, 910 soil samples analysed for lead, zinc, copper, and silver, covering all claims; geophysics, 30 kilometres, covering L and M.

REFERENCES: Mineral Inventory 93N-9; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 180; Assessment Report 7059.

WASI (Fig. E-1, NTS 93, No. 98)

LOCATION: Lat. 55° 57' Long. 125° 18' (93N/14W)
 OMINECA M.D. Approximately 2.5 kilometres east-southeast of a small lake at the headwaters of Steele Creek.

CLAIMS: WASI NORTH, WASI SOUTH (32 units).

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

METAL: (Copper).

DESCRIPTION: The claims are underlain by Hogem (Jurassic) monzonite and minor syenite. Minor copper mineralization, consisting of chalcopyrite and malachite, and hematite are found along fractures.

WORK DONE: Surface geological mapping, 1:10 000; scintillometer survey, 12 kilometres; and geochemical survey, 160 soil samples analysed for uranium, covering both claims.

NINA (Fig. E-1, NTS 93, No. 97)

LOCATION: Lat. 55° 50' Long. 124° 46' (93N/15W)
 OMINECA M.D. Seven kilometres northwest of Germansen Landing.

CLAIMS: NINA 1 and 2 (20 units each).

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

WORK DONE: Linecutting, 7 kilometres, and ground electromagnetic survey, 6.3 kilometres, covering Nina 2.

REFERENCE: Assessment Report 6781.

JACKFISH (Fig. E-1, NTS 93, No. 94)

LOCATION: Lat. 55° 46' Long. 124° 35' (93N/15E)
 OMINECA M.D. On both sides of Jackfish Creek, 8 kilometres due east of Germansen Landing.

CLAIMS: JACKFISH 1 to 4 and 6 (87 units).

OWNER: Esso Mineral Canada Limited.

OPERATOR: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

DESCRIPTION: No mineralization was observed. The area is underlain by Late Paleozoic argillites, siltstones, and limestones with minor andesitic units.

WORK DONE: Geochemical survey, 200 soil samples analysed for zinc, lead, and copper, and electromagnetic survey, 4 kilometres, covering Jackfish 3 and 6.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 204; Assessment Report 6778.

FARRAH (Fig. E-1, NTS 93, No. 96)

LOCATION: Lat. 55° 48' Long. 124° 43' (93N/15E)
OMINECA M.D. Approximately 1.5 kilometres northwest of
Germansen Landing.

CLAIM: FARRAH 1 (9 units).

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver
V6E 3J7.

WORK DONE: 1977 -- linecutting, 3 kilometres; ground electromagnetic survey, 2.6
kilometres; geochemical survey, 80 soil samples analysed for copper,
zinc, lead, and silver, covering Farrah 1.

REFERENCE: Assessment Report 6780.

HAL (Fig. E-1, NTS 93, No. 95)

LOCATION: Lat. 55° 56' Long. 124° 43' (93N/15E)
OMINECA M.D. Immediately east of Echo Lake.

CLAIM: HAL (9 units).

OWNER: ESSO RESOURCES CANADA LIMITED, 314, 1281 West Georgia
Street, Vancouver V6E 3J7.

DESCRIPTION: The claims are underlain by a homogeneous sequence of well-bedded
grey limestones with minor breccia of Middle Devonian age. No
mineralization was observed.

WORK DONE: Surface diamond drilling, 1 BQ hole totalling 110.41 metres, on Hal
(unit 4).

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976,
p. E 158; Assessment Report 6969.

PINE PASS 930**FALCON (Fig. E-1, NTS 93, No. 99)**

LOCATION: Lat. 55° 42' Long. 123° 20' (93O/11W)
OMINECA M.D. Eight kilometres northeast of the junction of Six
Mile Creek and Williston Lake.

CLAIMS: FALCON 1 (20 units), FALCON 2 (16 units).

OWNERS: Welcome North Mines Ltd., Ventures West Capital Ltd., and Sefel J. &
Associates Ltd.

OPERATOR: SEFEL J. & ASSOCIATES LTD., 500 Bow Valley Square II, Box 9088,
Calgary, Alberta T2P 2W4.

1978

(930/11W)

METAL: Iron.
WORK DONE: Aeromagnetic survey, 309.7 kilometres, covering both claims.
REFERENCES: Mineral Inventory 930-16; *B.C. Ministry of Energy, Mines & Pet. Res.*,
Exploration in B.C., 1977, p. E 204; Assessment Report 6280.

SCOTT (Fig. E-1, NTS 93, No. 100)

LOCATION: Lat. 55° 44' Long. 123° 24' (930/11W)
OMINECA M.D. Fourteen kilometres east-northeast of the confluence
of Scott Creek and the Parsnip River.
CLAIMS: SCOTT 1 to 4 (61 units).
OPERATOR: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380,
Vancouver V6B 3T5.
DESCRIPTION: The property is underlain by the Misinchinka Group consisting of
slates, phyllites, schistose grits, conglomerates, and limestone.
WORK DONE: Prospecting, covering all claims.

WEST CENTRAL BRITISH COLUMBIA
(NTS Division 103)

GRAHAM ISLAND 103F and parts of 103 G, J, and K

BUCKHORN (Fig. E-1, NTS 103, No. 1)

LOCATION: Lat. 53° 05' Long. 132° 33' (103F/2E)
SKEENA M.D. On Moresby Island, 2 kilometres southeast of Buck Point.

CLAIMS: BUCKHORN 1 to 3 (22 units).

OWNER: G. G. Richards.

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

DESCRIPTION: The claims are underlain by rocks of the Karmutsen Formation, including massive grey and black limestones, flaggy black limestone, and limy argillite, thin-bedded limy argillite, and non-calcareous argillite.

WORK DONE: 1977 — surface geological mapping, 1:4800; geochemical survey, 90 rock, 85 soil, and 25 silt samples analysed for gold, arsenic, and mercury, covering all claims.

REFERENCE: Assessment Report 7023.

COURTE (STIB, ANT) (Fig. E-1, NTS 103, No. 3)

LOCATION: Lat. 53° 22' Long. 132° 24' (103F/8W)
SKEENA M.D. On Graham Island, covering the headwaters of Riley Creek.

CLAIMS: STIB (9 units), ANT (9 units).

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

METALS: (Gold, antimony).

DESCRIPTION: The area is underlain by sedimentary and volcanic rocks belonging to the Yakoun Formation of Jurassic age which are intruded and partly metamorphosed by rhyolite dykes thought to be related to the Masset Formation of Tertiary age. The Yakoun Formation trends in a northwestern direction and dykes of medium to fine-grained rhyolite intrude both sedimentary and volcanic rocks. The rhyolite dykes trend north 70 degrees west and dip nearly vertical. Gold and antimony mineralization found as sparse disseminations and in veinlets is associated with the rhyolite in the general area.

WORK DONE: Geochemical survey, 161 soil samples analysed for gold, covering Ant and 60 soil samples analysed for gold, covering Stib.

REFERENCES: Mineral Inventory 103F-G-3; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 205; Assessment Report 6726.

1978

(103F/8W)

COURTE (SOL, RILEY) (Fig. E-1, NTS 103, No. 5)

LOCATION: Lat. 53° 22' Long. 132° 25' (103F/8W)
SKEENA M.D. On Graham Island, 5 kilometres due north of the head of Shields Bay.

CLAIMS: SOL 1 to 4, RILEY 1 to 4, HEMLOCK 1 and 2, SHIELDS, BEERSTRIKE (54 units).

OWNERS: V. I. Courte, K. Livingstone, W. Howell, and G. Richards.

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

DESCRIPTION: Pyroclastic andesites are the most abundant rock type on the claims, with some massive andesite along the lower half of Needles Creek and some conglomerates and volcanic sediments occurring throughout the mapped area. Numerous small weakly porphyritic felsite dykes were noted within the Needles and Riley areas.

WORK DONE: 1977 and 1978 – surface geological mapping, 1:4800, and geochemical survey, 192 soil, 59 rock, and 12 silt samples analysed for arsenic, gold, and mercury, covering Sol, Hemlock, Shields, and Riley.

REFERENCE: Assessment Report 6968.

KING (Fig. E-1, NTS 103, No. 4)

LOCATION: Lat. 53° 26' Long. 132° 20' (103F/8W)
SKEENA M.D. On Graham Island, 6 kilometres due south of Shiela Lake.

CLAIMS: KING 1 to 3 (4 units each).

OWNERS: G. G. Richards and J. S. Christie.

OPERATOR: NEWMONT MINES LIMITED, 1400, 750 West Pender Street, Vancouver.

DESCRIPTION: Pyritization and silicification of conglomerates and carbonaceous sandstones occur.

WORK DONE: Surface geological mapping, 1:4800, and geochemical survey, 206 soil, 91 rock, and 63 silt samples analysed for arsenic, mercury, and gold, covering all claims.

REFERENCE: Assessment Report 6925.

SEVEN (Fig. E-1, NTS 103, No. 2)

LOCATION: Lat. 53° 28' Long. 132° 11' (103F/8E)
SKEENA M.D. On Graham Island, covering the headwaters of Canyon Creek.

CLAIMS: SEVEN, SEVEN EAST, SEVEN SOUTH, SEVEN WEST, DUB, FIVE SOUTH, FIVE WEST (39 units).

OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.

DESCRIPTION: Some outcrops of Yakoun agglomerate and Masset porphyritic rhyolite.

WORK DONE: Surface geological mapping, 1:10 000, covering Seven, Seven South, Seven West, Dub, and Five South; electromagnetic survey, 7.6 kilometres, covering Seven, Seven South, and Seven West; magnetometer survey, 30.2 kilometres, and geochemical survey, 550 soil samples analysed for gold and mercury, covering Seven West, Seven, Seven South, Five, and Five South; 4 trenches totalling 157 metres, on Five; surface diamond drilling, 6 BQ holes totalling 621.5 metres, on Seven, Seven South, and Seven West.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 206; Assessment Report 6924.

BABE (Fig. E-1, NTS 103, No. 6)

LOCATION: Lat. 53° 32' Long. 132° 13' (103F/9E)
SKEENA M.D. Northwest of the Yakoun River, 18 kilometres southerly from Port Clement.

CLAIMS: BABE 1 to 32, RIC 1 to 12, RIC 20 to 26 Fractions.

OWNER: Efreem Specogna.

OPERATOR: CONSOLIDATED CINOLA MINES LTD., 807, 543 Granville Street, Vancouver.

METALS: Gold, silver.

DESCRIPTION: Pervasive gold mineralization of low grade occurs over an area of 1 000 metres by 300 metres in Tertiary volcanic and sedimentary rocks associated with a lineal volcanic vent zone and a major zone of faulting. Mineralization occurs over a vertical range of 300 metres. The gold is associated with chalcedonic quartz introduced into the volcanic rocks.

WORK DONE: Diamond drilling, 8 BQ holes totalling 1 254.11 metres, on Babe 7 and 10.

REFERENCES: Mineral Inventory 104F—G-34; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 206; *B.C. Ministry of Energy, Mines & Pet. Res.*, Geological Fieldwork, 1975, pp. 71-75; Assessment Report 6754.

DOME (Fig. E-1, NTS 103, No. 16)

LOCATION: Lat. 53° 38' Long. 132° 20' (103F/9W)
SKEENA M.D. Covering Harrison Island, in Juskatla Inlet.

CLAIM: DOME (4 units).

OWNER: PRISM RESOURCES LTD., 850 West Hastings Street, Vancouver.

WORK DONE: Geochemical survey, 50 silt and rock samples analysed for gold and silver, and surface geological mapping, covering Dome.

REFERENCE: Assessment Report 7111.

DOUGLAS CHANNEL 103H and part of 103G**BANK, WALLER (Fig. E-1, NTS 103, No. 7)**

LOCATION: Lat. 53° 21' Long. 130° 09' (103G/8E)
 SKEENA M.D. West coast of Banks Island, 2 kilometres northeast of Foul Bay.

CLAIMS: BOB, TEL, KIM, HELPER (98 units).

OWNER: HECATE GOLD CORPORATION, 333, 885 Dunsmuir Street, Vancouver V6C 1N5.

METAL: Gold.

DESCRIPTION: Steeply dipping east/west shears, mineralized with pyrite and minor sphalerite, cut granite and sedimentary rocks. Replacement mineralization occurs where the shears cross limestone.

WORK DONE: Diamond drilling, 335 metres; mining development, 427-metre decline.

REFERENCES: Mineral Inventory 103H-G-9, 38; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 206.

PRINCE RUPERT – TERRACE 103I and part of 103J**ANNETTE (Fig. E-1, NTS 103, No. 8)**

LOCATION: Lat. 54° 34' Long. 128° 17' (103I/9W)
 OMINECA M.D. Twenty-two kilometres east-northeast of Terrace, on Kleanza Creek.

CLAIMS: ANNETTE 1 to 4.

OWNER: JOHN ISIMA, Box 1525, Banff, Alberta.

METALS: Gold, titanium.

DESCRIPTION: Titanium, as anatase and rutile, occurs in sands and underlying fractured bedrock.

WORK DONE: Bulk sampling and assaying, 272 kilograms.

REFERENCES: Mineral Inventory 103I-J-176; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 208.

PADDY-MAC (Fig. E-1, NTS 103, No. 9)

LOCATION: Lat. 54° 46' Long. 128° 20' (103I/10W)
 OMINECA M.D. At the headwaters of Carpenter Creek, 8 kilometres north-northwest of Pitman railway siding.

CLAIMS: PADDY-MAC 3, 5, 7, TERRACE-BELL 1 to 3.

OWNER: J. M. McNULTY, 2965 Glen Lake Road, Victoria V9B 4B2.

WORK DONE: Trail cutting, 11.2 kilometres, and general prospecting.

BALD MOUNTAIN (Fig. E-1, NTS 103, No. 10)

LOCATION: Lat. 54° 02' Long. 130° 27' (103J/1W)
SKEENA M.D. On Porcher Island, 2 kilometres southwest of the westerly end of Salt Lagoon.

CLAIMS: YOUNG BULL (Lot 6502), LORD KITCHENER (Lot 6503), ENTENTE CORDIALE (Lot 6508), GOLD COIN (Lot 6510).

OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.

METALS: Copper, zinc.

DESCRIPTION: The property is underlain by layered rocks consisting of northwest-trending moderately to steeply northeast-dipping gneiss, impure quartzite, marble, and amphibolite. Mineralization consists of clots and small lenses of chalcopyrite, pyrite ± sphalerite in the amphibolite, gneiss, and marble.

WORK DONE: Prospecting, covering all claims.

REFERENCES: Mineral Inventory 1031-J-3; *Minister of Mines, B.C.*, Ann. Rept., 1933, p. 44.

EDYE PASS, SURF POINT (Fig. E-1, NTS 103, No. 21)

LOCATION: Lat. 54° 02' Long. 130° 35' (103J/2E)
SKEENA M.D. North side of Porcher Island, 2 kilometres southwest of Useless Point.

CLAIMS: EDYE PASS (4 units), TRIXIE (Lot 6515), WESTERN HOPE (Lot 6516), PIRATE (Lot 6953), REWARD (Lot 6955), JEANIE (Lot 7191), NABOB (Lot 7192), TIPPY, TOBY 1 and 2, KERRY.

OWNER: PORCHER ISLAND GOLD MINES LTD., 1131 Jackson Way, Delta V4C 1W5.

METALS: Gold, silver, copper.

DESCRIPTION: The auriferous ore zones are steeply dipping, pyrite-quartz fissure veins in fault zones in quartz diorite.

WORK DONE: Diamond drilling 624 metres.

REFERENCES: Mineral Inventory 1031-J-1, 2; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 208.

NASS RIVER 103P and part of 103O**LUCKY (Fig. E-1, NTS 103, No. 11)**

LOCATION: Lat. 55° 03' Long. 129° 03' (103P/3E)
SKEENA M.D. Seventy-five kilometres north of Terrace and 1 kilometre west of Lava Lake.

CLAIM: TWIN (9 units).

OWNER: RICHARD DUNN, 129 De Breslay, Pointe Claire, Quebec H9S 4M8.

METALS: Molybdenum, copper.

DESCRIPTION: Molybdenum-copper mineralization is associated with dykes and sills of granodiorite porphyry which intrude siltstones and shales, presumably of the Bowser Group. The contact metamorphic aureoles suggest the proximity of larger unroofed intrusions of similar type. The prominent rusty gossans in the mineralized area are in part due to alteration of dispersed pyrite within the dykes and to the alteration of both pyrite and biotite generated within the contact aureole. Quartz veinlets, commonly with minor molybdenite, occur in a multitude of fracture sets within both dykes and hornfels, but particularly near the contacts.

WORK DONE: Prospecting, 1 square kilometre, on Twin.

REFERENCES: Mineral Inventory 103P-238; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1971, p. 119; Assessment Report 6871.

KAY (Fig. E-1, NTS 103, No. 13)

LOCATION: Lat. 55° 09' Long. 129° 20' (103P/3W)
SKEENA M.D. On the eastern side of the Nass River, between Ansedagan and Kwinyarh Creeks.

CLAIM: LAVA (6 units).

OWNER: RICHARD DUNN, 129 De Breslay, Pointe Claire, Quebec H9S 4M8.

METAL: Molybdenum.

DESCRIPTION: A quartz monzonite porphyry plug intrudes shales of the Bowser Group. Quartz feldspar porphyry with 0.4 to 2-centimetre phenocrysts make up a substantial portion of the stock. Coarse rosettes of molybdenite are widespread throughout the porphyry. Quartz veins having a northeasterly trend cut across the plug and carry molybdenum mineralization.

WORK DONE: Prospecting, 1.5 square kilometres, on Lava.

REFERENCES: Mineral Inventory 103P-225; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 164; Assessment Report 6853.

BLACK SUN (Fig. E-1, NTS 103, No. 12)

LOCATION: Lat. 55° 24' Long. 129° 49' (103P/5W)
SKEENA M.D. On Granby Bay, at Smith Bluff.

CLAIMS: BLACK SUN 1 and 2.

OWNER: SUNSHINE VALLEY MINERALS, INC., Box 327, Manson, Washington 98831.

METAL: Slag.

DESCRIPTION: The deposit is a byproduct of a copper smelter. The furnace dross was dropped in a water bath, granulated, and poured onto some 20 hectares as a waste material. The potential for metallic and non-metallic uses of the slag is being studied. In recent studies an essential metallic byproduct was found.

WORK DONE: Control survey; posts and lines rechecked; chemical analysis of granulated slag; 3 trenches totalling 31 metres, on both claims.

1978

(103P/5E)

TIDEWATER (Fig. E-1, NTS 103, No. 14)

LOCATION: Lat. 55° 27' Long. 129° 33' (103P/5E)
SKEENA M.D. North of Alice Arm, 2.5 kilometres northwest from Pearson Point.

CLAIMS: MOLYBDENUM (Lot 3648), SUCCESS (Lot 3652), TIDE (4 units), TIDE II (4 units).

OWNER: RICHARD DUNN, 129 De Breslay, Pointe Claire, Quebec H9S 4M8.

METAL: Molybdenum.

DESCRIPTION: A quartz monzonite porphyry stock intrudes the local Hazelton Group sedimentary rocks. Trace amounts of molybdenite are disseminated through the intrusive rocks. South of these rocks are the old Tidewater workings of quartz veins with molybdenite mineralization. A bulk sample of the No. 2 adit assayed 3.47 per cent molybdenite.

WORK DONE: 1977 and 1978 — prospecting (50 rock samples collected), covering all claims; 20 bulk samples totalling 10 kilograms, on Success.

REFERENCES: Mineral Inventory 103P-111; *Minister of Mines, B.C.*, Ann. Rept., 1965, p. 63; Assessment Report 6961.

BC MOLY (Fig. E-1, NTS 103, No. 15)

LOCATION: Lat. 55° 26' Long. 129° 27' (103P/6W)
SKEENA M.D. On Patsy Creek, a fork of Line Creek, 7 kilometres southeast of the head of Alice Arm Inlet.

CLAIMS: FAST 1 to 22, KENNCO ACCESS, ACCESS, and Mineral Leases M-157 to M-191.

OWNER: CLIMAX MOLYBDENUM CORPORATION OF BRITISH COLUMBIA, LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L2.

METAL: Molybdenum.

DESCRIPTION: Molybdenum mineralization is associated with a multiphase granodiorite-quartz monzonite stock that intrudes greywackes and argillites of the Bowser Group.

WORK DONE: Diamond drilling, 6 NQ-BQ holes totalling 2 830 metres, on Access 12, Kennco Access 20, and Lots 6477, 6472, and 6470.

REFERENCES: Mineral Inventory 103P-112 to 115, 120; Porphyry Deposits of the Canadian Cordillera, *CIM*, Spec. Vol. 15, pp. 462-475; Assessment Reports 7002, 7034.

DOLLY VARDEN (Fig. E-1, NTS 103, No. 18)

LOCATION: Lat. 55° 41' Long. 129° 31' (103P/12E)
SKEENA M.D. On the west side of the Kitsault River, south of Evindsen Creek.

CLAIMS: Forty-five Crown-granted claims including DOLLY VARDEN, WOLF, TORIC, MOOSE, NORTH STAR, and 39 located claims including ROAN ANTELOPE, DANA, WOLF, COPPER CLIFF, and Mineral Leases M-22, M-38, M-57, M-36, M-39, M-40, and M-41.

1978

(103P/13E)

OWNER: DOLLY VARDEN RESOURCES LIMITED, 1710, 1177 West Hastings Street, Vancouver V6E 2L3.

METALS: Silver, lead.

DESCRIPTION: Mineralization occurs as a vein-shaped replacement deposit occurring in fragmental volcanic rocks of the Hazelton Group.

WORK DONE: Geological mapping, 1:3600, covering D'Artagnon, Silverado, Yellow Cedar, and Gray Copper; geochemical survey, 1 283 soil and 48 rock samples analysed for silver, lead, and zinc, covering many claims including Wolf, Toric, Moose, and North Star.

REFERENCES: Mineral Inventory 103P-187, 188; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 507; Assessment Report 7098.

JACK (Fig. E-1, NTS 103, No. 17)

LOCATION: Lat. 55° 57' Long. 129° 44' (103P/13E)
SKEENA M.D. Fifteen kilometres east-northeast of Stewart, on the northeasterly side of Bromley Glacier.

CLAIM: JACK (16 units).

OWNER: Jack A. Howard.

OPERATOR: ZENORE RESOURCES INC., 1700, 777 Hornby Street, Vancouver.

METALS: Molybdenum, gold.

DESCRIPTION: Molybdenite occurs in and at the contact of quartz monzonite porphyry.

WORK DONE: Geological mapping, 1:4800; geochemical survey, 19 samples collected and assayed for copper, molybdenum, and gold; petrographic studies.

REFERENCES: Mineral Inventory 103P-259; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 209; Assessment Report 7152.

**NORTHEAST BRITISH COLUMBIA
(NTS Division 94)**

FORT GRAHAME 94C

JULIAN (Fig. E-1, NTS 94, No. 34)

LOCATION: Lat. 56° 08' Long. 124° 59' (94C/2W)
OMINECA M.D. Approximately 2.5 kilometres east-northeast of the confluence of Wasi Creek and the Osilinka River.

CLAIM: JULIAN.

OWNER: Ronald F. Sheldrake.

OPERATOR: CHEROKEE DEVELOPMENTS LTD., 3170 Alna Road, Vancouver.

WORK DONE: 1977 — ground electromagnetic survey, covering Julian.

REFERENCE: Assessment Report 7115.

BEVELEY (Fig. E-1, NTS 94, No. 36)

LOCATION: Lat. 56° 10' Long. 125° 03' (94C/3E)
OMINECA M.D. Five kilometres east-northeast of the junction of Tenakihi Creek and the Osilinka River.

CLAIMS: CARIE 1 to 32, GAEL 4 to 11, CAROL 1 (20 units), CAROL 2 (20 units), CARA 1 (9 units), CARA 2 (4 units), CARA 3 (20 units), CARA 4 (20 units), CARA 5 (3 units), CARA 6 (2 units), CARA 7 (4 units), KRIKER (12 units), MB 1 and 2.

OWNER: SUZIE MINING EXPLORATIONS LTD., 502, 409 Granville Street, Vancouver V6C 1T2.

METALS: Silver, lead, zinc.

DESCRIPTION: Galena and sphalerite (with some silver) occur in a dolomite breccia near contacts with rusty slates and shales.

WORK DONE: Road construction, 9.4 kilometres; bridge construction (in conjunction with the British Columbia Ministry of Energy, Mines and Petroleum Resources); and trenching; petrography; geological mapping, 1:5000; geochemical survey, 574 soil samples; and diamond drilling, 18 NQ-HQ holes totalling 1 366.7 metres, on Carol, Carie, Gael, and Kriker.

REFERENCES: Mineral Inventory 94C-23; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 212; PAC Report 12.

WASI (Fig. E-1, NTS 94, No. 1)

LOCATION: Lat. 56° 03' Long. 125° 05' (94C/3E)
OMINECA M.D. Three groups — 5 kilometres due south of Wasi Lake, and immediately west and north of Wasi Lake.

CLAIMS: WASI 1 to 5 (66 units).

OWNER: ESSO RESOURCES CANADA LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

1978

(94C/3E)

- DESCRIPTION:** The claims are underlain by siliceous and intermediate volcanic and volcanoclastic rocks and shales and cherts of the Cache Creek Formation.
- WORK DONE:** Electromagnetic survey, 12 kilometres, and geochemical survey, 200 soil samples analysed for copper and zinc, covering all claims; diamond drilling, 4 BQ holes totalling 208 metres, on Wasi 2-5.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 211; Assessment Reports 6777, 6782, 6783.

USLIKA (Fig. E-1, NTS 94, No. 2)

- LOCATION:** Lat. 56° 03' Long. 125° 12' (94C/3E)
OMINECA M.D. Extending from 1 kilometre south of Uslika Lake, southeasterly toward Conglomerate Mountain.
- CLAIMS:** USLIKA 2 (12 units), USLIKA 4 (6 units).
- OWNER:** IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver.
- WORK DONE:** 1977 — linecutting, 6 kilometres; ground electromagnetic survey, 3 kilometres; and geochemical survey, 167 soil samples analysed for copper, lead, zinc, and silver, covering both claims.
- REFERENCE:** Assessment Report 6779.

HA HA CREEK (Fig. E-1, NTS 94, No. 4)

- LOCATION:** Lat. 56° 02' Long. 125° 26' (94C/3W)
OMINECA M.D. On Haha Creek, 0.5 kilometre upstream from its junction with the Osilinka River.
- CLAIMS:** OSILINKA 1 and 2 (20 units).
- OWNER:** UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.
- METAL:** (Copper).
- DESCRIPTION:** A medium to coarse-grained, pinkish orange syenite of the Duckling Creek Syenite Complex (Lower Jurassic) is the prominent rock type. There is a major shear zone or fault coincidental with Haha Creek (020°/90°) containing pyrite, limonite, minor chalcopyrite, and malachite.
- WORK DONE:** Scintillometer survey, 5 kilometres, and geochemical survey, 27 soil and 23 silt samples analysed for uranium, covering Osilinka 1.
- REFERENCES:** Mineral Inventory 94C-58; *Geol. Surv., Canada, Mem.* 274, p. 201.

TUTIZZI (Fig. E-1, NTS 94, No. 3)

- LOCATION:** Lat. 56° 21' Long. 125° 50' (94C/5W)
OMINECA M.D. Approximately 7.5 kilometres northwest of the west end of Tutizzi Lake, extending south from Abraham Creek.

1978

(94D/2W)

CLAIMS: TUTIZZI 1 (20 units), TUTIZZI 2 (20 units), TUTIZZI 3 (20 units),
TUTIZZI 4 (20 units), TUTIZZI 5 (20 units), TUTIZZI 6 (6 units).
OWNER: UNION MINIERE EXPLORATIONS AND MINING CORPORATION
LIMITED, 200, 4299 Canada Way, Burnaby V5G 1H4.
METAL: (Molybdenum).
DESCRIPTION: The area is underlain by the Lower Jurassic Hogen batholith consisting
of a complex suite of plutonic rocks comprising granite, granodiorite,
syenite, hornblende diorite, and amphibolite. Minor molybdenite
mineralization is found in one 0.4-metre-wide quartz vein.
WORK DONE: Reconnaissance geological mapping, 1:25 000; scintillometer survey,
24.3 kilometres; and geochemical survey, 348 soil and 50 rock samples
analysed for uranium, covering Tutizzi 2-5.
REFERENCES: Mineral Inventory 94C-64; Assessment Report 3267.

McCONNELL CREEK 94D

SPUR (Fig. E-1, NTS 94, No. 5)

LOCATION: Lat. 56° 02' Long. 126° 49' (94D/2W)
OMINECA M.D. Four kilometres west of the south end of Bear Lake.
CLAIMS: SPUR 1 to 16, CHARLIE (16 units).
OWNER: CANADIAN NICKEL COMPANY LIMITED, 160, 10451 Shellbridge
Way, Richmond V6X 2W8.
METALS: Copper, (silver).
DESCRIPTION: Chalcocite and bornite occur in fractured Hazelton volcanoclastic and
flow rocks in zones which are erratic and discontinuous.
WORK DONE: Diamond drilling, 4 BQ holes totalling 915 metres, on Spur 4.
REFERENCES: Mineral Inventory 94D-103; *B.C. Ministry of Energy, Mines & Pet. Res.*,
Exploration in B.C., 1977, p. E 214.

SOUP (Fig. E-1, NTS 94, No. 6)

LOCATION: Lat. 56° 28' Long. 126° 04' (94D/8E)
OMINECA M.D. Nineteen kilometres west of Aiken Lake, on the east
side of the valley containing Kliyul (Miller) Creek.
CLAIMS: SOUP 1 to 10.
OWNER: Elizabeth U. White.
OPERATOR: BP MINERALS LIMITED, 405, 1199 West Pender Street, Vancouver
V6E 2R1.
METALS: Copper, gold.
DESCRIPTION: Two iron-rich horizons within Takla Group volcanic rocks carry minor
amounts of copper and gold mineralization.
WORK DONE: Re-analysis of 201 rock samples taken in 1977, covering all claims.
REFERENCES: Mineral Inventory 94D-105; *B.C. Ministry of Energy, Mines & Pet. Res.*,
Exploration in B.C., 1977, p. E214; Assessment Report 7033.

1978

(94D/9E)

NIK (Fig. E-1, NTS 94, No. 7)

LOCATION: Lat. 56° 40' Long. 126° 08' (94D/9E)
OMINECA M.D. Seven kilometres northeast of Johanson Lake.

CLAIMS: NIK 1 to 9 (120 units).

OWNER: BP MINERALS LIMITED, 405, 1199 West Pender Street, Vancouver V6E 2R1.

METALS: Copper, nickel, molybdenum.

DESCRIPTION: Diorites to quartz diorites have intruded the Wrede Range zoned ultramafic intrusion and Upper Triassic – Lower Jurassic Takla Group of intrusive and volcanoclastic rocks. Sulphide mineralization of pyrite, chalcopyrite, and molybdenite occurs as shears and fracture fillings in metavolcanic rock, pyroxenite, and serpentinized dunite and as fracture fillings and in disseminations in biotite-diorite porphyry, hornblende diorite, and hydrothermal veins.

WORK DONE: Linecutting, 4.5 kilometres; induced polarization and resistivity survey, 5.4 kilometres; 28 overburden and bedrock samples collected; trenching, 2.79 kilometres; mapping and sampling of trenches; and geochemical survey, 100 rock samples analysed for copper and molybdenum, covering Nik 3, 6-8; diamond drilling, 10 BQ holes totalling 1 620 metres, on Nik 1-3.

REFERENCES: Mineral Inventory 94D-109; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 215.

SHRED (Fig. E-1, NTS 94, No. 9)

LOCATION: Lat. 56° 43' Long. 126° 16' (94D/9W)
OMINECA M.D. In the Ingenika Range, 10 kilometres south of Fleet Peak.

CLAIMS: SHRED 1 to 4 (72 units).

OWNER: BP MINERALS LIMITED, 405, 1199 West Pender Street, Vancouver V6E 2R1.

METALS: Copper, nickel, (molybdenum).

DESCRIPTION: Diorites to quartz diorites and ultramafic rocks have intruded a mixed assemblage of extrusive and volcanoclastic rocks of the Upper Triassic to Lower Jurassic Takla Group. Pyrite and chalcopyrite occur along fractures in the volcanic rocks and along fractures and as disseminations in the dioritic rocks.

WORK DONE: Linecutting, 25.1 kilometres, and induced polarization and resistivity survey, 17.1 kilometres, covering all claims; 29 overburden and bedrock samples analysed for molybdenum, copper, and nickel, on Shred 3.

REFERENCES: Mineral Inventory 94D-111; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 215; Assessment Report 6843.

1978

(94D/9W)

RED (Fig. E-1, NTS 94, No. 8)

LOCATION: Lat. 56° 44' Long. 126° 20' (94D/9W)
OMINECA M.D. Near the headwaters of the Ingenika River, 6 kilometres southwest of Fleet Peak.

CLAIMS: RED 1 to 33, HAT (15 units) (HAT claim, overstaking of RED claims).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METAL: (Copper).

DESCRIPTION: The property is underlain by volcanic rocks intruded by diorite, quartz diorite, porphyritic diorite, and granodiorite. Traces of chalcopryrite, as disseminations and in quartz veinlets, occur in the quartz diorite.

WORK DONE: 1977 - induced polarization survey, 14 kilometres, and ground magnetometer survey, 16.9 kilometres, covering all claims.

REFERENCES: Mineral Inventory 94D-34; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, p. 104; Assessment Report 6653.

TOODOGGONE RIVER 94E

ATTYCELLEY (Fig. E-1, NTS 94, No. 11)

LOCATION: Lat. 57° 06' Long. 126° 43' (94E/2E)
OMINECA M.D. Five kilometres east-northeast of the north end of Attycelley Lake.

CLAIMS: AUDREY WEST, AUDREY EAST (16 units).

OWNER: BISHOP MINES LTD., 502, 409 Granville Street, Vancouver.

METALS: Lead, zinc, copper.

DESCRIPTION: Galena, sphalerite, and chalcopryrite occur in quartz veins.

WORK DONE: 1977 - geochemical survey, 170 soil and 6 rock samples; ground magnetometer survey, 1.9 kilometres; ground electromagnetic survey, 1.9 kilometres, covering both claims.

REFERENCES: Mineral Inventory 94E-22; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1972, p. 482; Assessment Report 6650.

MEX (Fig. E-1, NTS 94, No. 10)

LOCATION: Lat. 57° 12' Long. 126° 39' (94E/2E)
OMINECA M.D. Four kilometres northwest of Giegerich Peak, 20 kilometres northeast of Thutade Lake.

CLAIM: MEX (12 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METAL: Copper.

DESCRIPTION:

The area is underlain by Lower/Middle Jurassic Hazelton Group volcanic rocks, intruded by quartz diorite-granodiorite. A 100-metre-wide breccia pipe is exposed on the property, in which vicinity the quartz diorite is intruded by monzonite and syenitic stocks and cut

by dacite porphyry and mafic dykes. Zoned hydrothermal alteration is centred at the breccia pipe where a quartz sericite zone grades outward into zones of silicification and propylitization.

A 1 000 by 500-metre gossan is present with disseminated pyrite in amounts of up to 7 per cent in all rock types. Trace amounts of chalcocite and chalcopyrite occur in the strongly leached breccia and surroundings, in an area about 400 by 250 metres.

WORK DONE: 1977 - surface geological mapping, 1:2500, and geochemical survey, 142 soil samples analysed for copper and molybdenum and 47 rock samples analysed for copper, molybdenum, silver, and gold, covering Mex.

REFERENCES: Mineral Inventory 94E-57; Assessment Report 6763.

AMIGO (Fig. E-1, NTS 94, No. 13)

LOCATION: Lat. 57° 12' Long. 126° 57' (94E/2W)
OMINECA M.D. Two kilometres southwest of Drybrough Peak, approximately 12 kilometres north-northwest of the northern end of Thutade Lake.

CLAIM: AMIGO (4 units).

OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.

METALS: Copper, zinc, lead.

DESCRIPTION:

The claims are underlain by quartz monzonite of possibly Early Jurassic age, that includes a limestone unit of the Upper Paleozoic Asitka Group. The limestone is a unit at least 150 metres thick, varying from very thickly bedded (1 metre) to medium bedded (10 to 30 metres) and unfossiliferous. It has recrystallized to a coarse-grained, light grey, pure limestone. The intrusive body near the contact with the limestone has a quartz monzonite-quartz diorite composition. One porphyritic monzonite dyke, about 1.5 to 2 metres wide, was observed.

Traces of galena, sphalerite, chalcopyrite, and malachite stainings occur in the exposed skarn zone. The limestone, where exposed, does not exhibit any sign of mineralization. *The intrusive body is completely barren a few metres from the contact.*

WORK DONE: 1977 - surface geological mapping, 1:50 000, and geochemical survey, 135 soil samples analysed for copper, lead, zinc, molybdenum, gold, and tungsten, covering Amigo.

REFERENCES: Mineral Inventory 92E-58; Assessment Report 6762.

SHAS (Fig. E-1, NTS 94, No. 12)

LOCATION: Lat. 57° 14.5' Long. 126° 59' (94E/2W)
OMINECA M.D. Approximately 12.5 kilometres northerly from the junction of Chappelle River and Firesteel River.

CLAIMS: SHAS 31, 33, 35 to 38, SHA 1 (6 units), SHA 2 (2 units).

1978

(94E/6E)

OWNER: International Shasta Resources Ltd.
OPERATOR: ASARCO EXPLORATION COMPANY OF CANADA, LIMITED, 504,
535 Thurlow Street, Vancouver V6E 3L2.
METAL: Gold, silver.
DESCRIPTION: Silicified and pyritized dacitic tuffs of the Jurassic Toadogone volcanic group show traces of low gold values in a northerly trending zone up to 60 metres wide and 240 metres long. Mineralization assaying greater than 3.4 grams per tonne gold is apparently restricted to relatively narrow widths in the most strongly silicified parts of the zone.
WORK DONE: Geological mapping, 1:600; 13 trenches totalling 29 metres; and sampling of trenches and assaying for gold and silver, on Shas 35.
REFERENCES: Mineral Inventory 94E-50; *B.C. Ministry of Energy, Mines & Pet. Res., GEM, 1971, pp. 63-70*; *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1975, p. E 164*; Assessment Report 7011.

CHAPPELLE (Fig. E-1, NTS 94, No. 14)

LOCATION: Lat. 57° 17' Long. 127° 07' (94E/6E)
OMINECA M.D. Thirty kilometres northwest of Thutade Lake.
CLAIMS: CHAPPELLE (approximately 150).
OWNER: Kennco Explorations (Western), Limited.
OPERATOR: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550
Alberni Street, Vancouver V6G 1A5.
METALS: Gold, silver.
DESCRIPTION: Electrum and argentite occur in a northwest-trending quartz vein averaging 3 metres in width, which cuts volcanic rocks of the Takla Group.
WORK DONE: Access road building, 8 kilometres.
REFERENCES: Mineral Inventory 94E-26; *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, p. E 216.*

WARE 94F

ELF (Fig E-1, NTS 94, No. 17)

LOCATION: Lat. 57° 18' Long. 124° 41' (94F/7E)
OMINECA M.D. South of the Akie River, 38 kilometres northeast of the junction of the Akie River and the Finlay River.
CLAIMS: ELF 1 to 15 (141 units).
OWNERS: Cyprus Anvil Mining Corporation and Hudson's Bay Oil and Gas Company Limited.
OPERATOR: CYPRUS ANVIL MINING CORPORATION, 330, 355 Burrard Street, Vancouver.

1978

(94F/7W)

DESCRIPTION: Stratiform barite-galena-sphalerite float was found in a creek passing through claim Elf 2.

WORK DONE: Surface geological mapping, 1:10 000, covering all claims, and geochemical survey, 130 silt samples analysed for copper, lead, and zinc, covering all claims and 1 100 soil samples analysed for copper, lead, and zinc, covering Elf 1-8, 11-15.

FLUKE (Fig. E-1, NTS 94, No. 18)

LOCATION: Lat. 57° 24' Long. 124° 53' (94F/7W)
OMINECA M.D. Thirty-five kilometres northeast of the junction of Del Creek and the Finlay River.

CLAIMS: FLUKE 1 to 6 (56 units).

OWNERS: Cyprus Anvil Mining Corporation and Hudson's Bay Oil and Gas Company Limited.

OPERATOR: CYPRUS ANVIL MINING CORPORATION, 330, 355 Burrard Street, Vancouver.

METALS: Lead, zinc, silver.

DESCRIPTION: A small showing of laminar-banded pyrite with 5 to 15 per cent combined lead and zinc with 20 to 35 grams per tonne of silver occurs within black siliceous argillite and shale of the Upper Devonian Gunsteel Formation.

WORK DONE: Surface geological mapping, 1:10 000, covering all claims, and geochemical survey, 95 silt and 230 soil samples analysed for copper, lead, and zinc, covering Fluke 1-4.

REFERENCE: Mineral Inventory 94F-9.

WIL (Fig. E-1, NTS 94, No. 15)

LOCATION: Lat. 57° 30' Long. 124° 45' (94F/10W, 7)
OMINECA M.D. Between the Akie and Kwadacha Rivers, 44 kilometres due east of Mount Haworth.

CLAIMS: WIL 1 to 10 (approximately 140 units).

OWNER: RIO TINTO CANADIAN EXPLORATION LIMITED, 510, 800 West Pender Street, Vancouver V6C 2V6.

METALS: Lead, zinc.

DESCRIPTION: Black graphitic shales of Devono-Mississippian age trend northwest-southeast.

WORK DONE: Surface geological mapping, 1:50 000, and geochemical survey, 100 silt and 160 soil samples analysed for copper, lead, and zinc, covering all claims.

CIRQUE (Fig. E-1, NTS 94, No. 16)

LOCATION: Lat. 57° 31' Long. 125° 09' (94F/11E, 6E)
OMINECA M.D. Between Kwadacha and Akie Rivers, 25 kilometres due east of Mount Haworth.

1978

(94F/13)

CLAIMS: CIRQUE 1 to 8, 11 to 14 (approximately 155 units).
OWNERS: Cyprus Anvil Mining Corporation and Hudson's Bay Oil and Gas Company Limited.
OPERATOR: CYPRUS ANVIL MINING CORPORATION, 330, 355 Burrard Street, Vancouver.
METALS: Barite, lead, zinc, silver.
DESCRIPTION: The Cirque claim group covers an anomalously thick section of black graphitic shale, chert, and argillite of the Gunsteel Formation. Stratiform massive barite with pyrite, galena, and sphalerite overlies ribbon-banded black graphitic chert and shale and is overlain by thick-bedded black pyritic siliceous argillite. Mineralization has been found at the K showing, near the headwaters of Cirque Creek and at the R showing approximately 1.8 kilometres to the northwest.
WORK DONE: Topographic and geological mapping, 1:5000, covering all claims; linecutting, 50 kilometres, covering Cirque 1-4, 6, 7, 11, 12; horizontal loop electromagnetic survey, 42 kilometres, covering Cirque 1-4, 7, 11, 12; geochemical survey, 1 950 soil and silt samples analysed for copper, lead, and zinc, covering Cirque 1-4, 6, 7, 11-14; diamond drilling, 6 BQ holes totalling 920 metres, on Cirque 1 and 2.
REFERENCES: Mineral Inventory 94F-8; Assessment Reports 6743, 6806.

GA, SO (Fig. E-1, NTS 94, No. 20)

LOCATION: Lat. 57° 55' Long. 125° 45' (94F/13)
LIARD M.D. Immediately northwest of the smaller middle lake of the three lakes that form the headwaters of South Gataga River.
CLAIMS: GA 1 to 3 (41 units), SO 1 to 5 (79 units).
OWNER: UNITED MINERAL SERVICES LIMITED.
OPERATOR: CYPRUS ANVIL MINING CORPORATION, 330, 355 Burrard Street, Vancouver.
DESCRIPTION: Several gossans occur in a narrow belt of Upper Devonian black clastics.
WORK DONE: 1977 – surface geological mapping, 1:12 000, covering all claims; geochemical survey, 1 000 soil and silt samples, covering most of the claims.
REFERENCE: Assessment Report 6659.

LORI (Fig. E-1, NTS 94, No. 19)

LOCATION: Lat. 57° 57' Long. 125° 39' (94F/13E)
LIARD M.D. Immediately southeast of the most northerly of the three lakes that form the headwaters of the South Gataga River.
CLAIMS: LORI WEST (20 units), LORI EAST (16 units).
OWNER: COMINCO LTD., 2200, 200 Granville Square, Vancouver V6C 2R2.
DESCRIPTION: The property is underlain by a southward-plunging anticline within Cambrian to Silurian rocks.

1978

(94K/4W)

WORK DONE: 1977 – surface geological mapping, 1:5000, and geochemical survey, 310 soil and 135 silt samples analysed for copper, lead, zinc, and silver, covering both claims.

REFERENCE: Assessment Report 6688.

GATAGA JOINT VENTURE (Fig. E-1, NTS 94, No. 33)

LOCATION: Lat. 58° 05' Long. 125° 55' (94L/1E; 94K/4W; 94F/13W)
Report on this property in section 94L/1E.

TUCHODI LAKES 94K

DR (Fig. E-1, NTS 94, No. 23)

LOCATION: Lat. 58° 04' Long. 125° 53' (94K/4W)
LIARD M.D. Driftpile Creek, 17 kilometres east of Citroen Peak.

CLAIM: DR (18 units).

OWNER: United Mineral Services Limited.

OPERATOR: CYPRUS ANVIL MINING CORPORATION, 330, 355 Burrard Street, Vancouver.

DESCRIPTION: The western portion of the claim is underlain by the Gunsteel Formation.

WORK DONE: 1977 – surface geological mapping, 1:12 000, and geochemical survey, 450 soil samples analysed for copper, lead, and zinc, covering DR.

REFERENCE: Assessment Report 6663.

P, D (Fig. E-1, NTS 94, No. 25)

LOCATION: Lat. 58° 04' Long. 125° 55' (94K/4W)
LIARD M.D. At the head of Driftpile Creek, 22.5 kilometres east-northeast of its confluence with Kechick River.

CLAIMS: D 2, 4, 6, 8, 10, 12, 14, 16, 19 to 34, 37 to 48, P 2, 4, 6, 8, 19 to 32, 34, 37, 39, 41, 43, 45, 47, 49, 51, GOOF 1, 2, 4, and 5 Fractions.

OWNER: Placer Development Limited.

OPERATOR: WELCOME NORTH MINES LTD., 1027, 470 Granville Street, Vancouver V6C 1V5.

METALS: Lead, zinc, (barite).

DESCRIPTION: Stratiform barite, pyrite, lead, and zinc mineralization occurs in Upper Devonian siliceous black shales. Diamond drilling has outlined the presence of two such horizons which are separated by approximately 100 metres of barren, siliceous black shale. Lead soil geochemistry outlines an anomalous area with approximate dimensions of 2 500 metres by 1 500 metres.

WORK DONE: Surface geological mapping, 1:1000, covering P 2, 4, 6, 19-24, 37, 39, 41, D 2, 4, 6, 8, 19-26, 37-44, and Goof 1, 2, 4, 5 Fractions; electromagnetic (max-min) survey, 3.6 kilometres, covering D 2, 19, 22, 24, 41, P 19-22, 24, 37, 39, and Goof 1, 2 Fractions; geochemical survey 6 400 soil and 1 140 rock samples analysed for lead, zinc, and copper, covering P 2, 4, 6, 19-24, 37, 39, 41, D 2, 4, 6, 8, 19-26, 37-44, and Goof 1, 2, 4, 5 Fractions; diamond drilling, 3 NQ holes totalling 318 metres and 6 BQ holes totalling 698 metres, on P 19-23, D 24, 41, and Goof 2 Fraction; 10 trenches, on P 19, 22.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 171; Assessment Reports 5812, 6896, 7149.

DPP (Fig. E-1, NTS 94, No. 22)

LOCATION: Lat. 58° 05' Long. 125° 52' (94K/4W)
LIARD M.D. South of the Gataga River, near the easterly headwaters of Driftpile Creek.

CLAIMS: DPP 1 to 9 (approximately 140 units).

OWNER: Texasgulf Canada Ltd.

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

METAL: Zinc.

DESCRIPTION: Several minor sphalerite occurrences were located at the contact between the Cambrian Atan limestone and the overlying Road River Formation shales and siltstones of Ordovician and Silurian age. The silver-white-weathering shales of the Gunsteel Formation (Devono-Mississippian age) host a baritic chert unit.

WORK DONE: Surface geological mapping, 1:10 000, and geochemical survey, 465 soil samples analysed for lead, zinc, and copper, covering all claims.

REFERENCES: Mineral Inventory 94K-7; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 218; Assessment Report 6736.

GRAN, BY (Fig. E-1, NTS 94, No. 35)

LOCATION: Lat. 58° 09' Long. 125° 57' (94K/4W)
LIARD M.D. Approximately 10 kilometres west-southwest of Mayfield Lakes.

CLAIMS: GRAN, BY (30 units).

OWNER: GRANBY MINING CORPORATION, 1700, 1050 West Pender Street, Vancouver V6E 2H7.

METAL: Zinc.

DESCRIPTION: Sphalerite with smithsonite alteration occurs along bedding planes in dark grey thinly laminated shales.

WORK DONE: Surface geological mapping, 1:6600, covering both claims; geochemical survey, 7 silt, 2 soil, and 2 rock samples analysed for zinc, lead, copper, and barite, covering Gran.

REFERENCES: Mineral Inventory 94K-69; Assessment Report 6689.

ROEN (Fig. E-1, NTS 94, No. 24)

LOCATION: Lat. 58° 05' Long. 126° 00' (94K/4W; 94L/1E)
 LIARD M.D. Sixteen kilometres east-northeast of Mount Mark, approximately 16 kilometres north of Driftpile Creek.

CLAIMS: ROEN 1 and 2 (20 units each).

OWNER: S.E.R.E.M. LTD., 505, 850 West Hastings Street, Vancouver V6C 1E1.

METAL: (Barite).

DESCRIPTION: The Roen claims lie within a structurally complex area involving either a reverse or thrust fault placing older Sandpile Group on the west next to Devonian-Mississippian black clastics on the east. Attitudes to bedding were found to be extremely erratic. Within the area of the Roen claims the lower unit is subdivided into two separate lithologic units, pyritiferous barite near the top of the succession, underlain by black carbonaceous chert lenses, chert pebble conglomerate, and limestone. This subunit is believed to contain the favourable stratigraphic level for lead-zinc mineralization in the barite although none was found.

WORK DONE: Surface geological mapping and geochemical survey, 154 silt samples analysed for copper, lead, and zinc, covering both claims plus surrounding area.

REFERENCE: Assessment Report 6881.

GATAGA JOINT VENTURE (Fig. E-1, NTS 94, No. 33)

LOCATION: Lat. 58° 05' Long. 125° 55' (94L/1E; 94K/4W; 94F/13W)
 Report on this property in section 94L/1E.

KECHIKA 94L**ROEN (Fig. E-1, NTS 94, No. 24)**

LOCATION: Lat. 58° 05' Long. 126° 00' (94K/4W; 94L/1E)
 Report on this property in section 94K/4W.

GATAGA JOINT VENTURE (Fig. E-1, NTS 94, No. 33)

LOCATION: Lat. 58° 05' Long. 125° 55' (94L/1E; 94K/4W; 94F/13W)
 LIARD and OMINECA M.D. Covering an area 80 kilometres long, 10 kilometres wide, extending northwest from Kwadacha Provincial Park.

CLAIMS: HAWK, SAINT 1 to 6, BOB 1 to 7, READY 1 to 5, GNEISS 1 and 2, PIG 1 and 2, ET 1 and 2, SNOW 1 and 2, KNOT 2, HOLE 1 to 3, TAGA 1 to 4, RYTE, BEAR, HERE, EAGLE 1 and 2, PHUN 1 and 2, PORC 1 to 5, (approximately 799 units).

OWNERS: Welcome North Mines Ltd., Castlemaine Explorations Ltd., and Magnus Bratlien.

OPERATORS: AQUITAINE COMPANY OF CANADA LTD., 540 Fifth Avenue SW., Calgary, Alberta T2P 0M2, CHEVRON CANADA LIMITED, 901, 355 Burrard Street, Vancouver V6C 2G8, GETTY MINING PACIFIC, LIMITED, 604, 750 West Pender Street, Vancouver V6C 2T7, and WELCOME NORTH MINES LTD., 470 Granville Street, Vancouver V6C 1V5.

METALS: Zinc, lead, (silver), barite.

WORK DONE: 1977 – geological mapping, 1:50 000 and 1:5000, covering Pig 1, 2, Saint 2, Bob 1, 2, Porc 1-5; geochemical survey, 495 water, 1 415 soil, 330 silt, and 90 rock samples analysed for copper, lead, and zinc, covering Saint 1-5; 9 trenches; 70 barite samples analysed for extra trace elements.

REFERENCE: Assessment Report 6666.

X (Fig. E-1, NTS 94, No. 26)

LOCATION: Lat. 58° 13' Long. 126° 07' (94L/1E)
LIARD M.D. At the headwaters of the north fork of Braid Creek, 17 kilometres east of Bighorn Mountain.

CLAIMS: XJ, XK, XL, XM, XN, XW (96 units).

OWNER: GRANBY MINING CORPORATION, 1700, 1050 West Pender Street, Vancouver V6E 2H7.

METAL: Zinc.

DESCRIPTION: Small pods of massive smithsonite occur in a quartz-calcite vein breccia zone within interbedded carbonaceous black chert and shale.

WORK DONE: Geological mapping, 1:20 000, and geochemical survey, 225 silt, 51 soil, and 24 rock samples analysed for zinc, lead, copper, and barite, covering all claims.

REFERENCES: Mineral Inventory 94L-13; Assessment Report 6689.

ROUGH (Fig. E-1, NTS 94, No. 27)

LOCATION: Lat. 58° 16' Long. 126° 10' (94L/8E)
LIARD M.D. South of the Gataga River, 18 kilometres due east of Mount New.

CLAIMS: ROUGH 1 to 9 (130 units).

OWNER: Texasgulf Canada Ltd.

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

METALS: Zinc, lead.

DESCRIPTION: Sphalerite and galena mineralization is hosted in a thin black cherty shale overlying the limestone unit on the property (Cambrian Atan Formation?). The mineralization is overlain by a thick section of shales and siltstones (Ordovician/Silurian, Road River/Sandpile Formation?) approximately 430 metres thick. This is in turn overlain by silver-white-weathering shales (Devono/Mississippian Gunsteel Formation)

which are host to a 30-metre-thick baritic chert unit. Only the basal 150 metres of the Gunsteel Formation is exposed in the core of a syncline.

WORK DONE: Grid establishment, 17.8 kilometres, and surface geological mapping, 1:10 000, covering all claims; VLF-EM, 8.1 kilometres, and horizontal loop and max-min electromagnetic survey, 6.9 kilometres, covering Rough 2-4; induced polarization survey, 1.4 kilometres, and magnetometer survey, 0.5 kilometre, covering Rough 4; geochemical survey, 363 soil samples analysed for copper, lead, and zinc, covering Rough 1, 3, 4, 7, 9; 6 trenches totalling 85 metres, on Rough 4.

REFERENCES: Mineral Inventory 94L-11; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 220; Assessment Report 6997.

SOLO (Fig. E-1, NTS 94, No. 30)

LOCATION: Lat. 58° 41' Long. 126° 45' (94L/10)
LIARD M.D. Nine kilometres east-northeast of Gataga Mountain.

CLAIMS: SOLO 1 to 4.

OWNER: Texasgulf Canada Ltd.

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

DESCRIPTION: The property is underlain by cherty shales and siltstones.

WORK DONE: Geological mapping, 1:32 000, and geochemical survey, approximately 60 soil samples analysed for lead, zinc, and copper, covering all claims.

RED BLUFF (Fig. E-1, NTS 94, No. 29)

LOCATION: Lat. 58° 33' Long. 126° 37' (94L/10E)
LIARD M.D. Approximately 6.5 kilometres northeast of the confluence of Bluff Creek and the Gataga River.

CLAIMS: RED BLUFF 1 to 4.

OWNER: Texasgulf Canada Ltd.

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

DESCRIPTION: The property is underlain by cherty shale, carbonaceous shale, and siltstone possibly of Ordovician age.

WORK DONE: Geological mapping, 1:32 000, and geochemical survey, 26 silt and 9 rock chip samples, covering all claims; trenching, 1 sample pit totalling 30 metres.

TAN (Fig. E-1, NTS 94, No. 32)

LOCATION: Lat. 59° 03' Long. 127° 58' (94M/4W; 104P/1E)
LIARD M.D. Seven kilometres northwest of the confluence of Hidden Valley Creek and the Major Hart River.

CLAIMS: TAN 1 to 3 (52 units).

1978

(94L/13W)

OWNER: AMOCO CANADA PETROLEUM COMPANY LTD., 656, 409
Granville Street, Vancouver V6C 1T2.

METALS: Zinc, lead.

DESCRIPTION:

The Tan claims are underlain by rocks of the Cambrian Atan and Cambro/Ordovician Kechika Groups that dip moderately to steeply to the southwest. Limestone and underlying slate and phyllite of the Atan Group are repeated by thrust faults to form an upper and lower belt. Limestone of the upper belt is discontinuous along strike, and in fault contact with overlying calcareous phyllites of the Kechika Group. This outcrop pattern is truncated by major valleys of Hidden Valley and Tan Creeks that presumably follow northeast-trending faults.

Sphalerite, galena, and pyrite occur as disseminations and small pods in a thinly laminated limestone in the upper part of the limestone unit. Less commonly sphalerite occurs in veinlets and small patches in limestone having irregularly distributed dolomite patches that impart a brecciated appearance on the weathered surface. These occurrences are similar to those of the Atan claims 8 kilometres to the northwest.

WORK DONE: Surface geological mapping, 1:5000, and geochemical survey, 400 soil samples analysed for copper, lead, and zinc, covering all claims.

REFERENCES: Mineral Inventory 94M-17; Assessment Report 6840.

WENDY (Fig. E-1, NTS 94, No. 28)

LOCATION: Lat. 58° 53' Long. 127° 55' (94L/13W)
LIARD M.D. Sixteen kilometres north-northwest of the confluence of the Dall River and the Turnagain River.

CLAIM: WENDY (20 units).

OWNER: AMOCO CANADA PETROLEUM COMPANY LTD., 656, 409
Granville Street, Vancouver V6C 1T2.

DESCRIPTION: The claim is underlain by siliceous black shale, sericite schist, siltstone, and argillaceous limestone. Minor pyrite is present in siliceous shales. Extensive sulphate crusts are present in the shales and are slightly anomalous in zinc-lead.

WORK DONE: Geological mapping, 1:5000, and geochemical survey, 340 soil samples analysed for copper, lead, and zinc, covering Wendy.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 220; Assessment Report 6839.

RABBIT RIVER 94M

BOYA (Fig. E-1, NTS 94, No. 31)

LOCATION: Lat. 59° 14' Long. 127° 29.5' (94M/3W)
LIARD M.D. Twelve kilometres northeast of the confluence of Kechika and Turnagain River.

1978

(94M/3W)

CLAIMS: BOYA 1 to 8 (93 units), BB 1 Fraction.
OWNER: Texasgulf Canada Ltd.
OPERATOR: TEXASGULF INC., 701, 1281 West Georgia Street, Vancouver V6E 3J7.
DESCRIPTION: Polymetallic, crudely stratabound deposits are contained in sedimentary rocks of presumed Paleozoic age.
WORK DONE: Topographical mapping, 1:5000, and airborne magnetometer survey, covering all claims; surface geological mapping, 1:5000 and 1:2500, covering Boya 1-3, 7, 8, and BB 1 Fraction; linecutting, 25 kilometres, covering Boya 1, 2, 7; magnetometer survey, 20 kilometres, covering Boya 1, 2, 7, 8; geochemical survey, 445 soil samples, covering Boya 1-3, 7, 8.

NORTHWEST BRITISH COLUMBIA
(NTS Division 104 and part of 114)

BOWSER LAKE 104A

SURPRISE (Fig. E-1, NTS 104, No. 2)

LOCATION: Lat. 56° 14' Long. 129° 33' (104A/4E)
 SKEENA M.D. Near the headwaters of the west fork of Surprise Creek, 5 kilometres due east of Mount Pattullo.

CLAIMS: SUR, PRISE, CREEK, TRIB (40 units).

OWNER: WESFROB MINES LIMITED, 700, 1112 West Pender Street, Vancouver.

WORK DONE: Reconnaissance geochemical survey, soil samples analysed for copper, zinc, silver, and molybdenum, covering Sur and Prise.

ENTERPRISE (Fig. E-1, NTS 104, No. 1)

LOCATION: Lat. 56° 05' Long. 129° 48' (104A/4W)
 SKEENA M.D. Straddling the Cassiar-Stewart Highway, approximately 23 kilometres by road from Stewart.

CLAIMS: Thirty-six Crown-granted claims and 42 reverted Crown-granted claims including ENTERPRISE, PAT, COPPER QUEEN, COPPER KING, ICE WORM, HEATHER, WEDGE FR., DEMPSEY FR., GIPSY FR., COPPER LORD, WATERFALL, COME AGAIN, BIG GULCH, CANYON, KID, BEAR, BIG, FIVE, SPECTACULATOR, TRAIL, BIG SLIDE plus SNOWLAKE 1 (2 units), SNOWLAKE 2 (1 unit).

OWNER: TOURNIGAN MINING EXPLORATIONS LTD., 704, 535 Thurlow Street, Vancouver V6E 3L2.

METALS: Copper, silver, gold, lead, zinc, barite.

DESCRIPTION: Two kinds of mineral showing are found on the Bear Pass property. One in a stratiform volcanogenic pyrite, pyrrhotite, chalcopyrite occurrence is associated with chert beds. Minor values in silver and gold are found in several of these deposits. The other type of showing is high-grade silver or gold crosscutting veins. Host to the previous metals is often galena, but pyrite, chalcopyrite, and sphalerite also occur in quartz-carbonate veins. The country rocks are very fine-grained andesites and andesitic tuffs with minor quantities of dacite, rhyolite, and welded tuffs.

WORK DONE: Geological mapping, covering Red Top, Rufus, New York, Enterprise, and Argenta; trenching, 50 metres, covering Red Top and New York.

REFERENCES: Mineral Inventory 104A-20-24, 29; *B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, p. E 221.*

ISKUT RIVER 104B**BIG MISSOURI, UNICORN (Fig. E-1, NTS 104, No. 3)**

- LOCATION:** Lat. 56° 07' Long. 130° 01' (104B/1E)
SKEENA M.D. Approximately 9.5 kilometres north of the town of Premier, on Big Missouri Ridge.
- CLAIMS:** Twenty-two Crown-granted claims and thirty-five reverted Crown-granted claims including DAY, E PLURIBUS, GOLDEN CROWN, GOOD HOPE, UNICORN, ARGENTITE, BUENA VISTA, GALENA, HIGH GRADE, MONTANA.
- OWNER:** TOURNIGAN MINING EXPLORATIONS LTD., 704, 535 Thurlow Street, Vancouver V6E 3L2.
- METALS:** Gold, silver, lead, zinc, copper, cadmium.
- DESCRIPTION:** In general the mineral occurrences are in metasomatized and schistose cataclastic equivalents of Hazelton volcanic conglomerate and tuff. They have the form of quartz veins and stockworks, and of replacement zones and lenses in highly silicified and pyritic host rocks.
- WORK DONE:** Diamond drilling, 670 metres, on E Pluribus; underground rehabilitation, 12 portals and 1 shaft, on Good Hope, Golden Crown, and E Pluribus; geological mapping, geochemical survey, and trenching, covering all claims but more detailed on the above noted.
- REFERENCES:** Mineral Inventory 104B-44, 46; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 179.

WINER (Fig. E-1, NTS 104, No. 4)

- LOCATION:** Lat. 56° 08' Long. 130° 01' (104B/1E)
SKEENA M.D. On Big Missouri Ridge, 16 kilometres north-northeast of Stewart.
- CLAIMS:** WINER (Lot 3212), BIG MISSOURI (Lot 3217), PACKERS FR. (Lot 5440), SARAH (12 units).
- OWNER:** CONSOLIDATED SILVER BUTTE MINES LTD., 705, 850 West Hastings Street, Vancouver V6C 1E1.
- METALS:** Gold, silver, lead, zinc.
- DESCRIPTION:** An extensive mineralized pyritic siliceous zone strikes north-northeast and dips 50 to 60 degrees to the northwest.
- WORK DONE:** Geochemical prospecting, covering Big Missouri; trenching and sampling, 8 rock samples, on Winer.
- REFERENCES:** Mineral Inventory 104B-95; Assessment Report 6940.

SALMON GOLD (Fig. E-1, NTS 104, No. 5)

- LOCATION:** Lat. 56° 13' Long. 130° 02' (104B/1E)
SKEENA M.D. On the west side of Summit Lake, 4 kilometres southwest of the portal of the Granduc adit.

1978

(104G/6E)

CLAIMS: PRINCE NO. 1, 2, 4 to 6 (Lots 6407 to 6411), PRINCE (Lot 6412), SUMMIT LAKE NO. 1 to 6 (Lots 6296 to 6301), SUMMIT LAKE NO. 7 and 8 FR. (Lots 6405 and 6406).

OWNER: MORRIS SUMMIT GOLD MINES LTD., 333, 885 Dunsmuir Street, Vancouver V6C 1N5.

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

DESCRIPTION: Pyrite, pyrrhotite, and sphalerite in quartz-carbonate lenses are hosted by andesitic agglomerates.

WORK DONE: Road work, 2 kilometres, on Summit Lake and Summit Lake No. 2; bulk sampling for mill test.

REFERENCES: Mineral Inventory 104B-34; *Minister of Mines, B.C.*, Ann. Rept., 1948, pp. 66-69.

TELEGRAPH CREEK 104G

NAB (Fig. E-1, NTS 104, No. 7)

LOCATION: Lat. 57° 24' Long. 131° 01' (104G/6E)
LIARD M.D. Approximately 3.5 kilometres north of the junction of Hickman and Schaft Creeks.

CLAIMS: LACASSE (20 units), SCHAFT (2 units), HICKMAN (4 units).

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

METAL: Copper.

DESCRIPTION: Quartz monzonite and quartz diorite intrude Upper Triassic volcanic rocks. Disseminated chalcocopyrite mineralization occurs in and adjacent to the quartz monzonite.

WORK DONE: Surface geological mapping, 1:5000, and prospecting, covering Lacasse and Schaft; road work, 4 kilometres of access road repaired, on Hickman, Lacasse, and Schaft.

REFERENCES: Mineral Inventory 104G-30 to 32; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, pp. 49-57; Assessment Report 6939.

SPECTRUM, RED DOG (Fig. E-1, NTS 104, No. 8)

LOCATION: Lat. 57° 41' Long. 130° 29.5' (104G/9W)
LIARD M.D. Approximately 3.5 kilometres southwest of Nuttlude Lake.

CLAIMS: RED DOG (2 units), RED DOG (15 units).

OWNER: Placer Development Limited.

OPERATOR: CONSOLIDATED SILVER RIDGE MINES LTD., 333, 885 Dunsmuir Street, Vancouver.

METALS: Copper, gold.

DESCRIPTION:

On the property, a thick assemblage of Upper Triassic sedimentary and volcanic rocks underlies most of the area below 1 725 metres in elevation. The sedimentary rocks form the base of this section and include siltstone, chert, greywacke, and minor limestone in a north-northwest-trending band 100 to 150 metres wide. The sedimentary rocks are overlain by andesite and diorite tuffs, chert, and tuffaceous siltstone. The pyroclastic rocks are overlain by a thick section of flows and intrusions which are largely dacites and andesites. The intrusions occur as dykes, sills, and irregular masses of andesite and dacite porphyry. The volcanic section is characterized by widespread iron oxide coatings consisting of limonite, jarosite, sericite, and clay. The iron oxide is derived from the pervasive pyrite content of the volcanic rocks, where the pyrite occurs as fine disseminations and thin fracture coatings.

The Upper Triassic strata are intruded by a north-trending dyke of Jurassic to Cretaceous age which cuts across the eastern margin of the Red Dog (2 units) claim. The dyke is steep-walled with generally sharp contacts. It shows considerable shearing and brecciation of wallrocks in places. The dyke is obscured at its south end by overlying Tertiary basalt. The dyke is mainly granodiorite but grades into syenite and monzonite in places. It is medium to coarse grained, in places porphyritic, grey to pink hornblende-biotite granodiorite. It is considerably altered in places, showing potassic, biotite hornfels, and propylitic alterations.

All of the older rocks are covered by Late Tertiary basalt and andesite flows derived from eruptions of Mount Edziza. These flows are exposed in the southwest quadrant of the geological map, particularly above 1 700 metres in elevation.

The sedimentary rocks have been compressed into fairly open folds which plunge northwesterly. The dominant fracture cleavages are north 70 degrees to 80 degrees east and north 20 degrees to 40 degrees west, with generally steep dips.

Four types of mineralization are present on the Red Dog property: (1) pyrite with minor pyrrhotite as disseminations and fracture fillings in the Upper Triassic cherts, tuffs, and flows; (2) pyrite and chalcopyrite as disseminations and fracture fillings in the granodiorite dyke and its adjacent wallrocks; (3) pyrite, arsenopyrite, sphalerite, and galena in narrow quartz-carbonate veins in the sedimentary and volcanic rocks; and (4) pyrite, pyrrhotite, chalcopyrite, and magnetite in irregular pyrometasomatic replacement masses in limy rocks. The pervasive fine pyrite-pyrrhotite mineralization is largely syngenetic with the volcanic and volcanoclastic assemblage. The estimated pyrite content of these rocks ranges from 2 to 10 per cent by volume.

The porphyry-type mineralization is associated with sericite and secondary biotite alteration. The sulphides consist of pyrite with minor chalcopyrite, and aggregate 1 to 5 per cent by volume.

The third form of mineralization consists of quartz-carbonate veins in sedimentary, volcanic, and intrusive rocks. The veins range from less than 1 centimetre to over 30 centimetres in width and show appreciable gold and silver values particularly where mineralized with sphalerite and/or arsenopyrite. A 9-metre section in drill hole S-4 from 92 to 101 metres assayed 20.1 grams per tonne in gold. This section consisted of silicified siltstone with considerable pyrite and some arsenopyrite.

Assays from several narrow veins on the east side of Red Dog (15 units) claim about 80 metres southeast of the old drill camp yield the following composite results over a 13-centimetre vein width: zinc, 7 per cent; gold, 9.05 grams per tonne; and silver, 54.59 grams per tonne. A 1-metre sample across a number of veinlets in this area showed 1.2 per cent zinc and 4.1 grams per tonne gold.

WORK DONE: Surface geological mapping, 1:2000; geochemical survey, 1 585 soil samples collected and 791 analysed for gold, covering both samples; 9 rock samples assayed.

REFERENCES: Mineral Inventory 104G-36, 87; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 531; Assessment Report 7000.

SPATSIZI RIVER 104H

RED, CHRIS, SUS, WINDY (Fig. E-1, NTS 104, No. 10)

LOCATION: Lat. 57° 42' Long. 129° 48' (104H/12W)
LIARD M.D. Nine kilometres east-southeast of Eddontenajon Lake.

CLAIMS: RED 4 to 34, SUS 79, 81, 83, CHRIS 1 to 24, MONEY 1 to 30, 32, 34, 36, 38, 40 to 59, 61, 63, RAF 1 to 6, COUGAR 1 to 8 Fractions, SUS NORTH (12 units), SUS SOUTH (12 units), SUS WEST (6 units), CHRIS NORTH (4 units), RED NORTH (8 units), RED SOUTH (8 units), FUN (4 units), VIRGO (3 units), CAPRICORN (12 units), TAURUS (4 units), PISCES (4 units), CANCER (6 units), SAGITTARIUS (6 units), LIBRA (4 units), GEMINI (4 units), SCORPIO (8 units), LEO (1 unit), AQUARIUS (5 units), ARIES (2 units).

OWNERS: Texasgulf Canada Ltd., Silver Standard Mines Limited, and Great Plains Development Company of Canada, Ltd.

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

METALS: Copper, gold.

DESCRIPTION: An elongate monzonite intrusion, with strong to intense argillic alteration and much disseminated pyrite, intrudes Mesozoic volcanic and volcanoclastic rocks. Copper-gold mineralization occurs in quartz-vein stockworks and as disseminations in the intrusive rocks.

WORK DONE: Diamond drilling, 5 BQ holes totalling 391.4 metres, on Chris 2 and 4.

REFERENCES: Mineral Inventory 104H-5, 6; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 227; Assessment Report 6872.

CRY LAKE 104I

JEFF (Fig. E-1, NTS 104, No. 35)

LOCATION: Lat. 58° 12' Long. 128° 22' (104I/1W)
LIARD M.D. Twenty-one kilometres southeast of the south end of

1978

(104I/1W)

Rainbow Lakes, at the head of a westward flowing tributary of Kutcho Creek.

CLAIMS: JEFF 1 to 9, 13 to 138, KRIS 1 to 9, 11 to 16, JENN 1 to 9, LIN 11, 39, 40, REX 1 to 4 Fractions, MOE 1 (6 units), STU 1 (6 units), ANDREA 1 (14 units), SVEA 1 (6 units), CGL 1 (12 units), CGL 2 (10 units).

OWNER: IMPERIAL OIL LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.

METALS: Copper, zinc, silver, (lead, gold, cadmium).

DESCRIPTION:

The Kutcho Creek massive sulphide deposit occurs in a sequence of volcanic rocks ranging in composition from basalt to soda rhyolite. The rocks have been foliated, folded, and metamorphosed to lower greenschist facies. They are bounded on the north and south by major thrust faults.

The sulphides occur near the top of a 300-metre footwall unit of rhyolitic lapilli tuff which has been metamorphosed to sericite schist. The hangingwall rocks are sericite schist, dolomite, quartz feldspar porphyry, porphyritic basalt, rhyolite, and argillite with interbedded tuffs and epiclastic rocks. A discordant intrusion of gabbroic composition has intruded the hangingwall.

Massive pyrite containing chalcopyrite and sphalerite forms an elongate lens which is part of an extensive pyritic unit. Remobilized chalcopyrite, bornite, chalcocite, and tetrahedrite occur above the main massive sulphide lens and in dolomitic lenses within massive sulphide.

Dolomitic alteration envelopes the massive sulphides and is most abundant in the hangingwall. Hematite and epidote occur higher in the hangingwall. An increase in magnesium chlorite occurs in the footwall of the deposit.

Rocks in the vicinity of the deposit, and along the stratigraphic interval of the pyritic unit, are K_2O and SiO_2 enriched and Na_2O deficient, relative to regional siliceous rocks. K_2O is enriched through 300 metres of footwall and 175 metres of hangingwall rocks. Na_2O is deficient to 75 metres into the hangingwall and SiO_2 is enriched especially in the footwall rocks.

The geological features of this deposit, supported by sulphur isotope ratios, are consistent with massive sulphide deposits of volcanogenic origin.

WORK DONE: Diamond drilling, 22 BQ holes (including wedged branches) totalling 8 933 metres, on Jeff 6, 92-94, 110 and Kris 12.

REFERENCES: Mineral Inventory 104I-61; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, pp. E 230, E 231.

SMRB (Fig. E-1, NTS 104, No. 34)

LOCATION: Lat. $58^{\circ} 12'$ Long. $128^{\circ} 23'$ (104I/1W)
LIARD M.D. The property is centred 21 kilometres south-southeast of Rainbow Lakes, at the headwaters of a westerly flowing tributary of

Kutcho Creek. The SMRB claims are surrounded by Jeff claims and the KC and MC claims lie to the east and west ends of the Jeff claims.

CLAIMS: SMRB 1 to 16, KC 1 to 17, 19 to 33, 60, 62, 81 to 92, 97 to 121, KC 122 (3 units), MC 1 to 5 (21 units).

OWNER: SUMAC MINES LTD., Box 10150 Pacific Centre, 1650, 701 West Georgia Street, Vancouver V7Y 1C6.

METALS: Copper, zinc, gold, silver.

DESCRIPTION: The property is underlain by basic, acidic, pelitic schists which occur as part of a succession of volcanoclastic and sedimentary rocks. Mineralization is composed of cupriferous and zinciferous, massive pyritic sulphide bodies which occur in sericite quartz schist, and the type is volcanogenic massive sulphide which would be genetically related to acidic volcanoclastic material.

WORK DONE: Diamond drilling, 10 NQ-BQ holes totalling 1 678 metres, on SMRB 1-16.

REFERENCES: Mineral Inventory 104I-60; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 231.

KUTCHO (Fig. E-1, NTS 104, No. 36)

LOCATION: Lat. 58° 12' Long. 128° 31' (104I/2E)
LIARD M.D. Twenty-two kilometres south of Rainbow Lakes, at the easterly flowing headwaters of Kutcho Creek.

CLAIMS: KUTCHO 1 to 10 (175 units).

OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.

METAL: Copper.

DESCRIPTION: The property is underlain by a sequence of schistose acid volcanic flows and tuffs and sedimentary rocks including graphitic phyllite, argillite, chert, and limestone. Some quartz-eye sericite schist bands are extensively mineralized with pyrite and minor chalcopyrite. A few small lenses of massive chalcopyrite, pyrite, and pyrrhotite occur within this unit.

WORK DONE: 1977 — diamond drilling, 3 holes totalling 230 metres, on Kutcho 2, 4, 6; 1978 — surface geological mapping, 1:5000, and Crone electromagnetic survey, 3 225 metres, covering Kutcho 8.

REFERENCES: Mineral Inventory 104I-72; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 232; Assessment Reports 6686, 6916.

SNOWDRIFT (Fig. E-1, NTS 104, No. 38)

LOCATION: Lat. 58° 16.5' Long. 129° 34' (104I/5E)
LIARD M.D. One kilometre southwest of the lake at the head of Snowdrift Creek.

CLAIMS: SNOWDRIFT 1 to 4, 13 to 20, 24 to 31.

OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.

1978

(104I/5E)

METALS: (Copper, molybdenum).
DESCRIPTION: Triassic volcanic rocks have been intruded by Jurassic or Cretaceous granodiorite and diorite. A large zone of disseminated and fracture-filling pyrite with minor chalcopyrite is associated with this intrusion. Narrow quartz veins contain minor molybdenite.
WORK DONE: 1977 – prospecting, covering all claims.
REFERENCES: Mineral Inventory 104I-59; Assessment Reports 4644, 4645, 4659, 4660, 4661, 4662.

CASTLE (Fig. E-1, NTS 104, No. 37)

LOCATION: Lat. 58° 26' Long. 129° 42' (104I/5E)
LIARD M.D. On Castle Creek, a westward flowing tributary of the Little Eagle River, 9 kilometres east-northeast of Tanzilla Butte.
CLAIMS: CASTLE 1 and 2 (27 units).
OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.
METALS: Copper, zinc.
DESCRIPTION: The property is underlain by an interbedded sequence of schistose sedimentary and volcanic rocks believed to include rocks of the Kutcho assemblage. Mineralization, where noted, consists of minor chalcopyrite and sphalerite in small carbonate-epidote lenses and bands within chlorite schist and small blebs of chalcopyrite and chalcocite in rhyolite.
WORK DONE: Surface geological mapping, 1:5000, and Crone electromagnetic survey, 13.95 kilometres, covering Castle 1; linecutting, 35.5 kilometres, and geochemical survey, 782 soil samples analysed for copper, molybdenum, lead, and zinc, covering Castle 1 and 2.
REFERENCES: Mineral Inventory 104I-77; Assessment Report 6979.

KING (Fig. E-1, NTS 104, No. 39)

LOCATION: Lat. 58° 24' Long. 128° 56' (104I/7W)
LIARD M.D. Three kilometres southerly of the confluence of Ferry Creek and Turnagain River.
CLAIM: KING (6 units).
OPERATOR: WESFROB MINES LIMITED, 700, 1122 West Pender Street, Vancouver V6E 2S1.
METALS: (Nickel, copper, silver, molybdenum, gold).
DESCRIPTION: A 2-metre-wide, massive, vertical pyrite-pyrrhotite band occurs in serpentine-peridotite of the Cache Creek Group.
WORK DONE: Surface geological mapping; geochemical survey, 115 soil samples analysed for gold and arsenic; and 3 trenches totalling 7 metres, on King.
REFERENCE: Assessment Report 6874.

1978

(1041/7W)

NICKEL, STAR (Fig. E-1, NTS 104, No. 40)

LOCATION: Lat. 58° 28' Long. 128° 50' (1041/7W)
LIARD M.D. Three kilometres northeast of the confluence of Flat Creek and Turnagain River.
CLAIMS: NICKEL, STAR (18 units each).
OWNER: Magnus Bratlien.
OPERATOR: D.J. DRILLING CO. LTD., 13135 – 20th Avenue, Surrey.
DESCRIPTION: The property is underlain by an ultramafic complex consisting mainly of dunite, peridotite, and pyroxenite in a sill-like structure.
WORK DONE: 1977 - surface diamond drilling, 3 EX holes totalling 55.5 metres, on Nickel.
REFERENCE: Assessment Report 6725.

WOLF (Fig. E-1, NTS 104, No. 42)

LOCATION: Lat. 58° 37' Long. 128° 14' (1041/9E)
LIARD M.D. Eight kilometres west-southwest of the confluence of the Cassiar River with the Turnagain River.
CLAIMS: CUB 1 and 2, EK 1 (24 units).
OWNER: UNION CARBIDE CANADA LIMITED, 404, 1112 West Pender Street, Vancouver.
METAL: Tungsten.
DESCRIPTION: Scheelite occurs in veins in quartzite and in limestone skarn.
WORK DONE: Surface geological mapping, 1:34 000, covering all claims.
REFERENCES: Mineral Inventory 1041-24; Assessment Report 6952.

CLIFF (Fig. E-1, NTS 104, No. 43)

LOCATION: Lat. 58° 41' Long. 128° 01' (1041/9E)
LIARD M.D. Six kilometres northeast of the confluence of Cassiar and Turnagain Rivers.
CLAIM: CLIFF 1 (18 units).
OWNER: UNION CARBIDE CANADA LIMITED, 404, 1112 West Pender Street, Vancouver.
WORK DONE: Surface geological mapping, 1:35 000, covering Cliff 1.
REFERENCE: Assessment Report 6953.

DEASE LAKE 104J

STIKINE (Fig. E-1, NTS 104, No. 11)

LOCATION: Lat. 58° 12' Long. 130° 17' (104J/1W)
LIARD M.D. Approximately 15.5 kilometres due west of the north end of Tsenaglode River.
CLAIMS: STIKINE, STIKINE 2 to 5.

1978

(104J/4E)

OPERATOR: WESFROB MINES LIMITED, 700, 1122 West Pender Street, Vancouver V6E 2S1.
WORK DONE: Surface geological mapping, 1:5000, covering all claims; VLF-EM and magnetometer survey, 17.5 kilometres, covering Stikine; 1977 and 1978 — geochemical survey, 500 soil samples analysed for molybdenum, covering Stikine and Stikine 3, 4.
REFERENCE: Assessment Report 6873.

PAT (Fig. E-1, NTS 104, No. 12)

LOCATION: Lat. 58° 12' Long. 131° 34' (104J/4E)
ATLIN M.D. On the northeast side of Hatchau Lake, on the Hackett River.
CLAIMS: SKI 1 to 6 (104 units).
OWNER: UTAH MINES LTD., 1600, 1050 West Pender Street, Vancouver.
METAL: Copper.
DESCRIPTION: The claims are underlain by Triassic and Tertiary volcanic rocks. A medium-grained monzonite has associated copper mineralization.
WORK DONE: Linecutting, 95 kilometres, and geochemical survey, 772 soil samples analysed for copper, covering all claims.
REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 234; Assessment Report 6835.

EGNELL (Fig. E-1, NTS 104, No. 13)

LOCATION: Lat. 58° 17' Long. 131° 40' (104J/5E)
LIARD M.D. Four kilometres east-southeast of Mount Egnell.
CLAIMS: EGNELL 1 (20 units).
OWNER: NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.
DESCRIPTION: The claim is underlain by volcanic rocks of the Level Mountain complex (Tertiary). Anomalous radioactivity is caused by potassium radiation associated with acid tuffs and breccias. No uranium or thorium minerals were detected.
WORK DONE: 1977 — prospecting (scintillometer) and silt and rock sampling, on Egnell 1.

TAN, ZILLA (Fig. E-1, NTS 104, No. 14)

LOCATION: Lat. 58° 18' Long. 130° 25' (104J/8W)
LIARD M.D. Five kilometres south of the confluence of Itsillitu Creek and the Tanzilla River.
CLAIMS: TAN, ZILLA (12 units each).
OWNER: WESFROB MINES LIMITED, 700, 1122 West Pender Street, Vancouver V6E 2S1.
METAL: Copper.

- DESCRIPTION:** The claims are underlain by andesitic tuffs, volcanoclastic rocks, and fine sedimentary breccias with siltstone bands. The volcano-sedimentary sequence is intruded by minor peridotite and diorite bodies. Low to moderate magnetite and pyrite occur throughout the property. Minor chalcopyrite occurs in carbonate shears in tuffs.
- WORK DONE:** Geological mapping, 1:305, and geochemical survey, 200 soil samples analysed for copper, covering both claims.
- REFERENCES:** *Mineral Inventory 104J-36; B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, p. E 235.*

SHIELD (Fig. E-1, NTS 104, No. 15)

- LOCATION:** Lat. 58° 55' Long. 130° 17' (104J/16)
LIARD M.D. On the easterly slope of Slough Mountain, extending to Deep Gulch Creek.
- CLAIMS:** CANYON 1 to 6, MOLY 1 (120 units).
- OWNER:** NORANDA EXPLORATION COMPANY, LIMITED, Box 2380, Vancouver V6B 3T5.
- METALS:** Copper, molybdenum, tungsten.
- DESCRIPTION:** Chalcopyrite and molybdenite mineralization occurs in narrow quartz-K-feldspar veins cutting rocks ranging from diorite to monzonite. Minor scheelite and powellite have been observed on the property.
- WORK DONE:** 1977 — prospecting and silt sampling, covering all claims; linecutting, 50 kilometres, flagging, 50 kilometres; and soil sampling, 420 samples analysed for copper, molybdenum, lead, zinc, and tungsten, covering Canyon 1-3; 1978 — surface geological mapping, 1:2500, and 1 small test pit, on Canyon 1; linecutting, 45 kilometres, and geochemical survey, 340 soil samples analysed for copper, molybdenum, lead, and zinc, covering Canyon 2-4.
- REFERENCES:** *Mineral Inventory 104J-27; B.C. Ministry of Energy, Mines & Pet. Res., GEM, 1972, p. 552; Assessment Report 6887.*

TULSEQUAH 104K

PAT, NAN (Fig. E-1, NTS 104, No. 44)

- LOCATION:** Lat. 58° 27' Long. 133° 22' (104K/6W)
ATLIN M.D. Twenty-five kilometres south-southeast of Tulsequah, on Mount Ogden.
- CLAIMS:** MOLY 1 to 4, BORDER 1 to 4, 6 to 13, TAKU 1 and 2 (200 units).
- OWNER:** Frank Onucki.
- OPERATOR:** OMNI RESOURCES LTD., 1407, 675 West Hastings Street, Vancouver V6B 1N2.
- METAL:** Molybdenum.
- DESCRIPTION:** Molybdenite mineralization is present in an alaskitic granite stock, the very top of which is exposed discontinuously in an area of 1 800 by

- 1 500 metres. Of 96 bedrock samples, the better average values of trenches or continuous chips are: Zone M (24 samples across 43 metres), 0.31 per cent molybdenite; Zone N (26 samples across 26 metres), 0.32 per cent molybdenite; and Zone Z (10 samples along 300 metres), 0.24 per cent molybdenite.
- WORK DONE: Photogrammetry, 1:20 000 and 1:5000, covering Tulsequah—Mount Ogden region; surface geological mapping (96 large samples taken), 1:5000, covering Taku 1 and 2.
- REFERENCES: Mineral Inventory 104K-13, 47; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 236.

SKAGWAY 104M

GRIDIRON, SILVER QUEEN (Fig. E-1, NTS 104, No. 16)

- LOCATION: Lat. 59° 55' Long. 134° 57' (104M/15W)
 ATLIN M.D. Straddling Bennett Lake, 18 kilometres north of the railway stop of Bennett, on the White Pass and Yukon Railway.
- CLAIMS: NET 1 to 5 (57 units).
- OWNER: Welcome North Mines Ltd.
- OPERATOR: E&B EXPLORATIONS LTD., 3015, 400 Fourth Avenue SW., Calgary, Alberta T2P 0J4.
- METAL: (Copper).
- DESCRIPTION: Narrow and sporadic aplite and pegmatite dykes cut a complex intrusive system. Minor chalcopyrite occurs in a zone of partial skarnetization. High radiometric response is associated with the aplite and pegmatite dykes.
- WORK DONE: Surface geological mapping, 1:10 000, and geochemical survey, 46 silt and 7 rock samples analysed for uranium, thorium, and daughter products, covering Net 1-3, 5.
- REFERENCES: Mineral Inventory 104M-1, 2; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1971, p. 53; Assessment Reports 6882, 6883.

ATLIN 104N

CX, FOX (Fig. E-1, NTS 104, No. 17)

- LOCATION: Lat. 59° 40' Long. 132° 46' (104N/10)
 ATLIN M.D. Surrounding Trout Lake, on the Gladys River.
- CLAIMS: CX, CX 1 and 2, FOX 1 to 7, GAIL, JILL.
- OPERATOR: PLACER DEVELOPMENT LIMITED, 700, 1030 West Georgia Street, Vancouver V6E 2Y3.
- DESCRIPTION: The property lies within the boundaries of the Surprise Lake batholith. It is largely underlain by alaskite. Cache Creek Group cherts and

argillites are preserved in the Trout Lake graben. Glacial and post-glacial sedimentary rocks cover most of the graben floor. Palustrine sedimentary rocks cover large areas west of Trout Lake.

WORK DONE: Seismic survey, 3 lines, covering CX and CX 1; overburden drilling, 18 holes totalling 112.6 metres, on CX, CX 1, 2, and Fox 2, 4, 7.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 238; Assessment Reports 6710, 6823.

EVA (Fig. E-1, NTS 104, No. 18)

LOCATION: Lat. 59° 35' Long. 132° 46' (104N/10W)
ATLIN M.D. Approximately 2.5 kilometres southeast of the junction of Rapid Roy Creek and Gladys River.

CLAIM: EVA 1 (16 units).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

DESCRIPTION: Anomalous stream silt and drywash sediments occur along the southern edge of Surprise Lake quartz monzonite batholith.

WORK DONE: Surface geological mapping, 1:5000; radiometric survey, 3.2 kilometres of grid; and geochemical survey, 70 soil samples analysed for uranium, covering Eva 1.

REFERENCE: Assessment Report 6921.

SNOWBIRD (Fig. E-1, NTS 104, No. 19)

LOCATION: Lat. 59° 40' Long. 132° 50' (104N/10W)
ATLIN M.D. Eight kilometres west of the north end of Trout Lake, 50 kilometres easterly from Atlin.

CLAIMS: MIR 2, 3, 5 to 7 (20 units each).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

METAL: Uranium.

DESCRIPTION: High uranium stream sediment anomalies and radioactive waters occur within and along the periphery of the Surprise Lake quartz monzonite batholith. Small isolated occurrences of secondary uranium oxides (zeunerite) are associated with fracture zones in the quartz monzonite.

WORK DONE: Surface geological mapping, 1:2000 and 1:5000, and geochemical survey, 516 soil and 8 silt samples analysed for uranium, lead, and silver and 22 rock samples analysed for uranium, covering all claims; VLF-EM survey, 38 kilometres, and magnetometer survey, 38 kilometres, covering Mir 2, 3, 7; ground scintillometer survey, 30 kilometres, covering Mir 3, 5-7; surface diamond drilling, 3 BQ holes totalling 450 metres, on Mir 3 and 7.

REFERENCES: Mineral Inventory 104N-85; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 239; Assessment Reports 6776, 6905.

SAL (Fig. E-1, NTS 104, No. 22)

LOCATION: Lat. 59° 31' Long. 133° 00' (104N/10W, 11E)
 ATLIN M.D. Near the headwaters of Hirschfeld Creek, on Mount Farnsworth.

CLAIMS: SAL 1 and 2 (18 units).

OWNER: MATTAGAMI LAKE MINES LIMITED, 502, 8215 – 112th Street, Edmonton, Alberta T6G 2C8.

WORK DONE: Geochemical survey, 17 stream sediment and 11 rock samples, covering Sal 1.

CY (Fig. E-1, NTS 104, No. 20)

LOCATION: Lat. 59° 37'-41' Long. 133° 00' (104N/10W, 11E)
 ATLIN M.D. Twelve kilometres southeast of Surprise Lake, extending from the headwaters of Terrahina Creek northward to Zenazie Creek.

CLAIMS: CY 1 to 9, ENG 1 to 4 (approximately 210 units).

OWNER: MATTAGAMI LAKE MINES LIMITED, 502, 8215 – 112th Street, Edmonton, Alberta T6G 2C8.

METALS: Uranium, molybdenum, zinc, lead.

DESCRIPTION: The area is underlain by the Surprise Lake batholith. Zinc as sphalerite and lead as galena are disseminated in dyke-like bodies associated with magnetite concentrations. Uranium occurs as secondary mineralization associated with molybdenum.

WORK DONE: Radon survey, 5 kilometres; magnetometer survey, 30 kilometres; VLF-EM survey, 28 kilometres; Crone electromagnetic survey, 32 kilometres; and induced polarization survey, 3 kilometres, covering CY 2, 4-6; geochemical survey, 100 rock, 200 soil, and 100 stream sediment samples, covering all claims.

REFERENCES: Mineral Inventory 104N-87, 88; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 239; Assessment Report 6898.

MONT (Fig. E-1, NTS 104, No. 21)

LOCATION: Lat. 59° 37' Long. 133° 12' (104N/11E)
 ATLIN M.D. Immediately northwest of Mount Dixie, 8 kilometres southeast of Surprise Lake.

CLAIMS: MONT 2 (16 units), MONT 4 (20 units).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

METAL: (Uranium).

DESCRIPTION: Minor amounts of autonite and zeunerite occur in a fracture zone in quartz monzonite along the south margin of the Surprise Lake batholith.

WORK DONE: Surface geological mapping, 1:5000; geochemical survey, 128 soil, 4

rock, and 3 water samples analysed for uranium; and ground scintillometer survey, 9.5 kilometres, covering Mont 2.

REFERENCES: Mineral Inventory 104N-86; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 240; Assessment Report 6848.

SLA (Fig. E-1, NTS 104, No. 23)

LOCATION: Lat. 59° 40' Long. 133° 14' (104N/11E)
ATLIN M.D. Immediately southeast of Surprise Lake, 0.5 kilometre northeast of the mouth of Quartz Creek.

CLAIM: SLA 1 (12 units).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

DESCRIPTION: Uranium geochemical anomalies in stream silts and spring deposits occur within the central portion of the Surprise Lake quartz monzonite batholith.

WORK DONE: Surface geological mapping, 1:2500; geochemical survey, 234 soil, 9 water, and 6 silt samples analysed for uranium; and ground scintillometer survey, 12 kilometres, covering SLA 1.

REFERENCE: Assessment Report 6906.

RU, ZAPU (Fig. E-1, NTS 104, No. 26)

LOCATION: Lat. 59° 40' Long. 133° 20' (104N/11W)
ATLIN M.D. Extending east from Ruby Creek, 2 to 5 kilometres north of Surprise Lake.

CLAIMS: RU 1 (18 units), ZAPU 1 (20 units).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

DESCRIPTION: The Zapu claim is underlain by Surprise Lake quartz monzonite intrusive rocks. In addition, Tertiary paleochannel conglomeratic sedimentary rocks are capped by basalt flows and scoria in the Ruby Creek basin on the RU claim.

WORK DONE: Surface geological mapping, 1:5000; geochemical survey, 97 soil, 24 silt, 28 water, and 9 rock samples analysed for uranium; and ground scintillometer survey (reconnaissance grid and outcrops), covering RU 1.

REFERENCES: Mineral Inventory 104N-28; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 362 (Ruby Creek); Assessment Report 6923.

PURPLE ROSE (CRACKER CREEK) (Fig. E-1, NTS 104, No. 25)

LOCATION: Lat. 59° 43' Long. 133° 18' (104N/11W)
ATLIN M.D. West and north of Surprise Lake, at the uppermost headwaters of Cracker Creek.

1978

(104N/11W)

CLAIMS: PATO 1 to 4 (36 units).
OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW.,
Box 999, Calgary, Alberta T2P 2K6.
METAL: Uranium.
DESCRIPTION: The claims are located at the western edge of the Surprise Lake
batholith where it contacts Cache Creek age sedimentary and volcanic
units and ultramafic intrusions. Mineralization consists of shear
zone-controlled secondary minerals (zeunerite).
WORK DONE: Surface geological mapping, 1:5000; geochemical survey, 16 soil, 5
rock, and 2 water samples analysed for uranium; and reconnaissance
ground scintillometer survey, covering Pato 1.
REFERENCES: Mineral Inventory 104N-5; *B.C. Ministry of Energy, Mines & Pet. Res.*,
Exploration in B.C., 1977, p. E 240; Assessment Reports 6922, 6469.

RUST (Fig. E-1, NTS 104, No. 27)

LOCATION: Lat. 59° 44' Long. 133° 16' (104N/11W)
ATLIN M.D. Approximately 2.5 kilometres west of Surprise Lake, on
Cracker Creek.
CLAIMS: RUST 1 to 5 (38 units).
OWNER: UNITED RAYORE GAS LTD., c/o 316, 470 Granville Street,
Vancouver.
DESCRIPTION: Secondary uranium mineralization is locally associated with quartz
veins in alaskite.
WORK DONE: Surface geological mapping, 1:4000, covering Rust 1 and 2; linecutting,
15 kilometres; ground gamma-ray spectrometer survey, 15 kilometres;
and geochemical survey, 225 soil and 10 silt samples analysed for
uranium, covering Rust 1-4.
REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977,
p. E 241; Assessment Report 6977.

IRA (Fig. E-1, NTS 104, No. 31)

LOCATION: Lat. 59° 47' Long. 133° 15' (104N/14)
ATLIN M.D. Immediately west of the north end of Surprise Lake.
CLAIMS: IRA, IRA 2 to 6 (67 units).
OWNER: Malabar Mines Ltd.
OPERATOR: R. H. SERAPHIM, 316, 470 Granville Street, Vancouver V6C 1V5.
METAL: Uranium.
DESCRIPTION: The secondary uranium mineral kasolite is locally associated with
quartz veining and fluorite in areas of fine and coarse-grained alaskite.
The alaskite is altered, well fractured, and limonitic.
WORK DONE: Linecutting, 21.5 kilometres; surface geological mapping, 1:12 000 and
1:5000; and geochemical survey, 66 silt and 339 soil samples analysed
for uranium, covering Ira, Ira 2, 5.
REFERENCES: Mineral Inventory 104N-88; *B.C. Ministry of Energy, Mines & Pet. Res.*,
Exploration in B.C., 1977, p. E 241; Assessment Report 6885.

TUPA (Fig. E-1, NTS 104, No. 28)

LOCATION: Lat. 59° 50' Long. 133° 08' (104N/14E)
 ATLIN M.D. Seven kilometres northeast of the north end of Surprise Lake.

CLAIM: TUPA 1 (20 units).

OWNER: UNION OIL COMPANY OF CANADA LTD., 335 Eighth Avenue SW., Box 999, Calgary, Alberta T2P 2K6.

DESCRIPTION: Anomalous uranium values occur in stream silts and soils within the Surprise Lake batholith along its northern boundary.

WORK DONE: Surface geological mapping, 1:5000; geochemical survey, 125 soil and 7 silt samples analysed for uranium; and ground scintillometer survey, 5 kilometres, covering Tupa 1.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 242; Assessment Report 6908.

PIP (Fig. E-1, NTS 104, No. 29)

LOCATION: Lat. 59° 51' Long. 133° 05' (104N/14E)
 ATLIN M.D. Five kilometres southeast of the west end of Gladys Lake.

CLAIM: MOK (6 units).

OWNER: R. A. Wenggitt.

OPERATOR: QUEST EXPLORATIONS LTD., 5590 Kingston Road, Vancouver V6T 1J1.

METAL: Molybdenum.

DESCRIPTION: Molybdenite mineralization is found in an irregularly shaped ring-dyke of alaskite, approximately 600 metres in diameter.

WORK DONE: Core logging, sampling, and correlating, 5 diamond-drill holes totalling 726 metres (holes drilled in 1971), on Mok.

REFERENCES: Mineral Inventory 104N-60; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1971, p. 54; Assessment Report 6818.

LY (Fig. E-1, NTS 104, No. 32)

LOCATION: Lat. 59° 46' Long. 132° 52' (104N/15W)
 ATLIN M.D. Approximately 8.5 kilometres west-southwest of the southeast end of Gladys Lake.

CLAIM: LY 1 (20 units).

OWNER: MATTAGAMI LAKE MINES LIMITED, 502, 8215 – 112th Street, Edmonton, Alberta T6G 2C8.

WORK DONE: Geochemical survey, 52 stream sediment and 5 rock samples, covering LY 1.

JENNINGS RIVER 1040**LOU (Fig. E-1, NTS 104, No. 45)**

LOCATION: Lat. 59° 14' Long. 131° 20' (1040/3W)
 ATLIN M.D. Ten kilometres due north of Metah Mountain, between Glundebery and Sheephorn Creeks.

CLAIMS: LOU 1 to 4 (16 units each).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

METALS: (Tin, tungsten, uranium, molybdenum).

DESCRIPTION: A gossanous granite complex occurs in contact with Mississippian /Devonian limy sedimentary rocks, producing skarns in the sedimentary rocks and low-grade accumulations in some of the granite. The granite is probably a late phase of the Cretaceous quartz monzonite Glundebery stock/batholith.

WORK DONE: Reconnaissance geological mapping, 1:10 000, and geochemical survey, 144 samples analysed for tin and tungsten, covering all claims.

MLM (Fig. E-1, NTS 104, No. 46)

LOCATION: Lat. 59° 22' Long. 131° 40' (1040/5E)
 ATLIN M.D. South of the Jennings River, 5 kilometres southwest of Aconitum Lake.

CLAIMS: MLM 1 and 2 (20 units each).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

DESCRIPTION: The claims are located at the contact between the Glundebery (?) batholith and Mississippian/Devonian limy sedimentary rocks. Stream geochemistry results are anomalous.

WORK DONE: Surface geological mapping, 1:10 000, and geochemical survey, 86 samples analysed for tin and tungsten, covering both claims.

THERESA (Fig. E-1, NTS 104, No. 47)

LOCATION: Lat. 59° 23' Long. 131° 32' (1040/5E)
 ATLIN M.D. South of the Jennings River, 5 kilometres east-southeast of Aconitum Lake.

CLAIMS: THERESA 1 to 4 (16 units each).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

DESCRIPTION: Mississippian/Devonian sedimentary rocks are folded and altered by the Glundebery batholith to the south. Weak tin and tungsten geochemical values, related to the sedimentary rocks, were encountered in the regional program.

1978

(104O/6W)

WORK DONE: Surface geological mapping, 1:10 000, and geochemical survey, approximately 100 samples analysed for tin and tungsten, covering all claims.

JAN (Fig. E-1, NTS 104, No. 48)

LOCATION: Lat. 59° 19' Long. 131° 30' (104O/6W)

ATLIN M.D. Fifteen kilometres south-southwest of the confluence of Shonektaw Creek and Jennings River.

CLAIMS: JAN 1 and 2 (20 units each).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

DESCRIPTION: The claims are covered by glacial drift but are probably underlain by part of the Cretaceous Glundebery quartz monzonite batholith.

WORK DONE: Geochemical survey, 30 samples analysed for tin, tungsten, uranium, and molybdenum, covering both claims.

ASH MTN (Fig. E-1, NTS 104, No. 49)

LOCATION: Lat. 59° 19' Long. 130° 31' (104O/7E)

ATLIN M.D. At the easterly headwaters of Oblique Creek, a tributary of Parallel Creek.

CLAIM: AP (20 units).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

METALS: Tungsten, tin.

DESCRIPTION: A roof pendant on and sedimentary rocks over, shallowly emplaced granite of the Parallel Creek batholith, carry scheelite in skarns after sandy limestone of Mississippian/Devonian age sedimentary rocks.

WORK DONE: Surface geological mapping, 1:10 000; geochemical survey, 114 samples analysed for tin and tungsten; and reconnaissance magnetic survey, covering AP.

REFERENCE: Mineral Inventory 104O-22.

GAZOO (Fig. E-1, NTS 104, No. 60)

LOCATION: Lat. 59° 37' Long. 130° 12' (104O/9E)

LIARD M.D. Approximately 3.5 kilometres west-northwest of the confluence of Iverson Creek and Toozaza Creek.

CLAIMS: GAZOO 1 to 8 (44 units).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L6.

METALS: Molybdenum, fluorite, beryl.

DESCRIPTION: Molybdenite is disseminated throughout biotite-muscovite quartz monzonite and also occurs in quartz veins that cut foliated biotite quartz

monzonite and biotite-muscovite quartz monzonite. Both fluorite and beryl have been noted.

WORK DONE: Surface geological mapping, and geochemical survey, 269 soil, 10 silt, and 127 rock samples analysed for molybdenum and zinc, covering all claims.

REFERENCES: Mineral Inventory 104O-27; Assessment Report 7148.

KAHAN (Fig. E-1, NTS 104, No. 50)

LOCATION: Lat. 59° 32' Long. 130° 37' (104O/10E)
ATLIN M.D. Ten kilometres south-southeast of the south end of Jennings Lakes.

CLAIM: KAHAN 1 (20 units).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

DESCRIPTION: Large bull quartz veins cut Mississippian/Devonian shales and phyllites with weak tin values in creeks and soils.

WORK DONE: Reconnaissance geology and geochemical survey, 20 samples analysed for tin, tungsten, molybdenum, and uranium, covering Kahan.

BUTSIH (Fig. E-1, NTS 104, No. 51)

LOCATION: Lat. 59° 35' Long. 131° 31' (104O/12E)
ATLIN M.D. Between the headwaters of Teh and Butsih Creeks.

CLAIM: BUTSIH 1 (20 units).

OWNER: DU PONT OF CANADA EXPLORATION LIMITED, 102, 1550 Alberni Street, Vancouver V6G 1A5.

DESCRIPTION: A small skarn zone occurs at the contact of granite, an outlier of Cretaceous Klinkit quartz monzonite and limy Mississippian/Devonian sedimentary rocks.

WORK DONE: Reconnaissance geology and geochemical survey, 20 samples analysed for tin, tungsten, molybdenum, and uranium, covering Butsih 1.

LOGTUNG (LOGJAM CREEK) (Fig. E-1, NTS 104, No. 53)

LOCATION: Lat. 60° 00' Long. 131° 36' (104O/13E)
ATLIN M.D. On the British Columbia-Yukon border, due north of Mile 750 on the Alaska Highway.

CLAIMS: JAM 1 to 5 (98 units), CAMP 1 (2 units).

OWNER: AMAX POTASH LIMITED, 601, 535 Thurlow Street, Vancouver V6E 3L6.

METALS: Tungsten, molybdenum.

DESCRIPTION: The property is underlain by Late Paleozoic fine-grained clastic and carbonate metasedimentary rocks which are flanked to the east and west by northerly elongate diorite bodies. A nearby younger quartz

monzonite stock, 2 kilometres by 800 metres, has related off-shoot dykes of granite porphyry. Sedimentary rocks have been altered to hornfels, light or dark green skarn, or calc-silicate near the quartz monzonite and granite porphyry. Scheelite and molybdenite occur in quartz vein stockwork in and near granite porphyry dykes and the contact of the quartz monzonite stock. Minor disseminated scheelite is locally associated with discontinuous beds of skarn. Fluorite, beryl, sphalerite, galena, rare chalcocopyrite, wolframite, and cosalite occur as accessory vein minerals.

WORK DONE: Road work (maintenance on access road) and induced polarization survey, 4.3 kilometres, covering Jam 2 and 3; topographical survey (of cut grid and legal corner posts), covering all claims; surface geological mapping, 1:12 500, covering Jam 1-4.

REFERENCES: Mineral Inventory 104O-16; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 243.

AMY, GEM (Fig. E-1, NTS 104, No. 52)

LOCATION: Lat. 59° 56' Long. 130° 28' (104O/16W)
LIARD M.D. Four kilometres northwest of the east end of Tootsee Lake.

CLAIM: CUB (9 units).

OWNER: Douglas Schellenberg.

OPERATOR: INTERIOR APARTMENTS, c/o RR 1, Greenbay Road, Westbank.

METALS: Lead, zinc, silver.

DESCRIPTION: Galena, sphalerite, and tetrahedrite occur in a vein-like structure at the contact of limestone and granite.

WORK DONE: Geochemical survey, 261 soil samples analysed for silver, lead, and zinc (135 also analysed for tungsten and molybdenum), covering Cub.

REFERENCES: Mineral Inventory 104O-4; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, p. 516; Assessment Report 6798.

McDAME 104P

TAN (Fig. E-1, NTS 94, No. 32)

LOCATION: Lat. 59° 03' Long. 127° 58' (94M/4W; 104P/1E)
Report on this property in section 94M/4W.

ATAN (Fig. E-1, NTS 104, No. 54)

LOCATION: Lat. 59° 08' Long. 128° 07' (104P/1E)
LIARD M.D. Fourteen kilometres northeast of the south end of Deadwood Lake.

CLAIMS: ATAN 1 to 4 (34 units).
 OWNER: AMOCO CANADA PETROLEUM COMPANY LTD., 656, 409 Granville Street, Vancouver V6C 1T2.
 METALS: Zinc, lead.
 DESCRIPTION: Minor sphalerite and galena mineralization occurs in thinly bedded limestones of the Lower Cambrian Atan Group. Mineralization occurs as veinlets, disseminations, and along bedding planes.
 WORK DONE: Surface geological mapping, 1:5000, and geochemical survey, approximately 350 soil samples analysed for copper, lead, and zinc, covering Atan 1 and 2; diamond drilling, 5 BQ holes totalling 465 metres, on Atan 1.
 REFERENCES: Mineral Inventory 104P-61; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 244; Assessment Report 6796.

KIRK (Fig. E-1, NTS 104, No. 55)

LOCATION: Lat. 59° 02' Long. 129° 10' (104P/3E)
 LIARD M.D. On the east side of Fourmile River, 16 kilometres south-southeast of the community of McDame.
 CLAIMS: DAY, NIZI 1 to 3, DAME 1 to 3.
 OWNER: Esso Resources Canada Limited.
 OPERATOR: ESSO MINERALS CANADA LIMITED, 314, 1281 West Georgia Street, Vancouver V6E 3J7.
 METALS: Copper, zinc, gold, silver.
 DESCRIPTION: Massive to near massive mineralization, comprising chalcopyrite, pyrite, pyrrhotite, magnetite, specularite, and sphalerite, occurs on or near the contact between moderately dipping chloritic schists and overlying carbonates of the Sylvester Group. The gangue is mainly epidote, quartz, and carbonate which suggests that the occurrence is probably a low-grade skarn deposit.
 WORK DONE: Linecutting, 20 kilometres, covering Day and Nizi 1; surface geological mapping, 1:2500, magnetometer survey, 20 kilometres; electromagnetic survey (max-min), 20 kilometres; and geochemical survey, 382 soil samples, covering Nizi 2 and 3.
 REFERENCES: Mineral Inventory 104P-27; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 39; Assessment Report 7113.

BOZO (Fig. E-1, NTS 104, No. 59)

LOCATION: Lat. 59° 17' Long. 129° 39' (104P/5E)
 LIARD M.D. Three kilometres northwest of the confluence of Snowy Creek with McDame Creek.
 CLAIM: BOZO.
 OWNER: CAMILLE BERUBE, Box 410, Cassiar V0C 1E0.
 WORK DONE: Trenching, 1 metre by 13 metres by 1.5 metres deep, on Bozo.

CORNUCOPIA, COPCO (HANNA) (Fig. E-1, NTS 104, No. 56)

LOCATION: Lat. 59° 17' Long. 129° 40' (104P/5E)
 LIARD M.D. Eight kilometres east of Cassiar, immediately northeast of the Quartzrock Creek road crossing.

CLAIMS: ROY 1 to 4, ROY Fraction, DOR 1, TOD 7 and 8, ATLAS 1 to 12, THRUSH, COPCO 1 to 6.

OPERATOR: ASHLU GOLD MINES LTD., 1416 Chardie Place, Calgary, Alberta T2P 2T6.

METAL: Gold.

DESCRIPTION:

Numerous gold-bearing quartz veins are exposed on the ridges of both Quartzrock and Snowy Creeks. The veins invade medium-coloured greenstones of the Sylvester Group of rocks. Tan carbonate alteration of the greenstones accompany the quartz veins.

The closely spaced veins have been traced by trenches on surface. They strike near east/west and dip 65 to 70 degrees south. The width of single veins vary from 0.5 to 3.0 metres. Vein swarms, containing numerous veinlets, have been encountered with widths of up to 8 metres.

The main mineralization is free gold associated with the sulphide pyrite which makes up approximately 10 to 15 per cent of the vein material. The veins are highly fractured and contain fragments of the host greenstones. The sulphide mineralization tends to increase along both the hangingwall and footwall sides of the vein. Wallrock is generally highly pyritized but carries only traces of gold.

Channel sampling, every 1.5-metre length of vein 4E, indicates the vein to have a grade of 25.0 grams gold per tonne, diluted to a 1-metre vein width.

WORK DONE: Electromagnetic and magnetometer survey, 7.2 kilometres, covering Roy 1-4, Tod 7, 8, Thrush, and Atlas 5-8.

REFERENCES: Mineral Inventory 104P-12; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 354; Assessment Report 6974.

DOME, REED, IRON CAP (Fig. E-1, NTS 104, No. 57)

LOCATION: Lat. 59° 17' Long. 129° 28' (104P/6W)
 LIARD M.D. Immediately south and southwest of Mount Reed, approximately 25 kilometres east of the townsite of Cassiar.

CLAIMS: J (12 units), REED 1 to 4.

OPERATOR: CANADIAN SUPERIOR EXPLORATION LIMITED, 2201, 1177 West Hastings Street, Vancouver V6E 2K3.

METALS: Molybdenum, tungsten.

DESCRIPTION: A skarn zone occurs at the contact of Lower Cambrian Atan Group rocks and the Mount Reed intrusive rocks.

WORK DONE: Road work (rehabilitation of old roads); surface geological mapping, 1:2500, covering J, and 1:5000, covering all claims; geochemical survey, 216 rock and 16 silt samples analysed for molybdenum,

1978

(104P/7E, 8W)

tungsten, lead, zinc, tin, and mercury, covering all claims; diamond drilling, 3 holes totalling 153.3 metres, on J.

REFERENCES: Mineral Inventory 104P-21, 43; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 35; Assessment Report 7069.

LON (Fig. E-1, NTS 104, No. 58)

LOCATION: Lat. 59° 27' Long. 128° 31' (104P/7E, 8W)

LIARD M.D. Twenty-seven kilometres north of Looncry Lake, southeast and northwest of the big bend in Red River.

CLAIMS: LON 1 to 10 (approximately 160 units).

OWNER: AMOCO CANADA PETROLEUM COMPANY LTD., 656, 409 Granville Street, Vancouver V6C 1T2.

METALS: (Lead, zinc, barite).

DESCRIPTION: The claims are underlain by dolomites of the Silurian Sandpile and Devonian McDame Groups and black shales of the Kechika Group. Minor lead-zinc-barite mineralization is found in veins cutting Sandpile Group dolomite.

WORK DONE: Surface geological mapping, 1:5000; VLF-EM survey, 28 kilometres; magnetometer survey, 20 kilometres; and geochemical survey, 1 950 soil samples analysed for copper, lead, zinc, and barite, covering Lon 1-6; diamond drilling, 4 BQ holes totalling 488 metres, on Lon 2, 3, and 6.

REFERENCES: Mineral Inventory 104P-62; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 246; Assessment Report 6841.

STRUCTURAL MATERIALS AND INDUSTRIAL MINERALS EXPLORATION

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REVIEW OF EXPLORATION ON NON-METALLIC MINERAL DEPOSITS

By Z. D. Hora

Exploration activity during 1978 indicated increased interest in non-metallic commodities.

The major exploration projects involving barite took place in the northeast and southeast parts of the Province. Investigations of asbestos at Kutcho Creek, gypsum near Canal Flats, limestone near Terrace and at Holberg Inlet, talc near Hope, and phosphate near Fernie continued on a small scale. Laboratory testing, feasibility studies, and development work on a mica property near Valemount, perlite prospects near the Empire Valley and at Uncha Lake, and on a silica property near Golden were indicative of renewed interest in these commodities.

REPORTS ON EXPLORATION OF NON-METALLIC COMMODITIES

ASBESTOS

KUTCHO CREEK (LETAIN) (Fig. E-1, NTS 104, No. 61)

- LOCATION:** Lat. 58° 20' Long. 128° 44' (104I/7E)
LIARD M.D. In the Cassiar Mountains, 9 kilometres west-southwest of Wolverine Lake.
- CLAIMS:** JOE 1 to 56, 58 to 73, 76 to 97, 108 to 131, 134 to 143, 157 to 162, 173 to 184, 195 to 212, 223 to 232, F 1 to 7, 10 to 20, 22, 26, 28, 29, 31, 32, 40 Fractions, B 5 to 8, 11 to 20, N 2 to 10, LIA 1 and 2 Fractions, MATT 1 to 8, 19, 21 to 26, BILL 1 to 5, WHI 1 to 3, 5 to 7, 10 to 14, 16 Fractions, BELL 1 to 16, plus A 1 to 3 (Lots 6426 to 6428), A 4 and 5 (Lots 6515 and 6516), AFR (Lot 6697), BOB 1 to 3 (Lots 6517 to 6519), BOB 4 and 5 and BOB FR. (Lots 6693 to 6695), RIB 1 to 6 (Lots 6413 to 6418), RIB 1 and 2 FR. (Lots 6419 and 6420), RIDGE 7 to 11 (Lots 6421 to 6425), REX FR. (Lot 6696), TENT FR. (Lot 6698), TON FR. (Lot 6699).
- OWNER:** Kutcho Creek Asbestos Company Limited.
- OPERATOR:** CASSIAR ASBESTOS CORPORATION LIMITED, 200, 1055 West Hastings Street, Vancouver V6E 3V3.
- DESCRIPTION:** The Kutcho Creek (Letain) asbestos prospect comprises zoned chrysotile fibre veins occupying the joints in a well-jointed and locally sheared serpentinite sill that intrudes more or less concordantly a sequence of metasedimentary argillaceous, calcareous, and volcanic rocks. The light green to dark green serpentinite contains crossfibre

chrysotile veins usually under 1 centimetre in width and from less than 1 centimetre up to about 1 metre in length.

WORK DONE: Diamond drilling, 13 HQ and NQ holes totalling 4 092 metres, on Rib 1-6 and Rib 1 and 2 Fractions.

REFERENCES: Mineral Inventory 1041-6; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 248; Assessment Report 7028.

BARITE

BBX (Fig. E-1, NTS 82, No. 281)

LOCATION: Lat. 49° 59.5' Long. 115° 52.5' (82G/13W)
FORT STEELE M.D. Centred 5.5 kilometres west of Torrent siding, on Sandown Creek.

CLAIM: BBX (12 units).

OWNER: GERALD MASON, 413 Fourth Avenue, Kimberley V1A 2R7.

DESCRIPTION: Coarsely crystalline white barite vein with traces of malachite. Surrounding rock is highly sheared argillite.

WORK DONE: 1977 – surface geological mapping, 1:1200, covering BBX.

REFERENCES: Mineral Inventory 82G/NW-66; Assessment Report 6886.

BRENDA (MacINTOSH) (Fig. E-1, NTS 82, No. 269)

LOCATION: Lat. 49° 59.5' Long. 115° 53' (82G/13W)
Report on this property also in Metals section, NTS 82.

DESCRIPTION: Barite-siderite orebody with irregular patches of sparsely disseminated tetrahedrite. A central part of the barite is contaminated by quartz. Barite is folded and parallel to the limestone bed.

NIFTY (Fig. E-1, NTS 93, No. 17)

LOCATION: Lat. 52° 35' Long. 126° 25' (93D/9W)
Report on this property in Metals section, NTS 93.

MONA (Fig. E-1, NTS 93, No. 59)

LOCATION: Lat. 54° 06' Long. 125° 44' (93K/4E)
Report on this property in Metals section, NTS 93.

CIRQUE (Fig. E-1, NTS 94, No. 16)

LOCATION: Lat. 57° 31' Long. 125° 09' (94F/11E, 6E)
Report on this property in Metals section, NTS 94.

P, D (Fig. E-1, NTS 94, No. 25)

LOCATION: Lat. 58° 04' Long. 125° 55' (94K/4W)
Report on this property in Metals section, 94K.

ROEN (Fig. E-1, NTS 94, No. 24)

LOCATION: Lat. 58° 05' Long. 126° 00' (94K/4W; 94L/1E)
Report on this property also in Metals section, 94K.
DESCRIPTION: Pyritiferous barite horizon 15 metres thick occurs within pyritic silty shale, carbonaceous chert, and cherty conglomerate.

GATAGA JOINT VENTURE (Fig. E-1, NTS 94, No. 33)

LOCATION: Lat. 58° 05' Long. 125° 55' (94L/1E, 94K/4W; 94F/13W)
Report on this property in Metals section, 94L.

LON (Fig. E-1, NTS 104, No. 58)

LOCATION: Lat. 59° 27' Long. 128° 31' (104P/7E, 8W)
Report on this property in Metals section, 104P.

BERYL**GAZOO (Fig. E-1, NTS 104, No. 60)**

LOCATION: Lat. 59° 37' Long. 130° 12' (104O/9E)
Report on this property in Metals section, NTS 104.
DESCRIPTION: Pale green beryl occurs in quartz and pegmatite veins in the Cassiar batholith.

BUILDING STONE**B&B (Fig. E-1, NTS 82, No. 273)**

LOCATION: Lat. 49° 01' Long. 117° 18' (82F/3W)
Five kilometres east of Remac and west of Creggan Creek.
CLAIM: B&B.
OWNER: T. BROWN, Box 391, Salmo V0G 1Z0.
DESCRIPTION: Quartzite of Early Cambrian age is to be used as a facing stone, ashlar, and flagstone.
WORK DONE: Road construction, 305 metres; linecutting, 450 metres; trenching and stripping, 100 metres; and drilling and blasting, 360 tonnes, on B&B.

PEG (Fig. E-1, NTS 92, No. 176)

LOCATION: Lat. 48° 31' Long. 123° 59' (92B/12W)
On the north side of Jordan River Diversion Reservoir, on Walker Creek.

CLAIMS: PEG 1 to 6.

OWNER: ROBERT BEAUPRE, 4361 Shelbourne Street, Victoria V8N 3G4.

DESCRIPTION: Pegmatite dykes with black tourmaline are exposed on the north side of the Leech River fault.

WORK DONE: Two trenches totalling 5 metres, and geochemistry, 9 semi-quantitative spectrographic analyses, covering all claims.

REFERENCES: Mineral Inventory 92B-111; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 249; Assessment Report 6598.

KELLARD MARBLE (CATHERINE) (Fig. E-1, NTS 92, No. 173)

LOCATION: Lat. 50° 43' Long. 125° 49' (92K/12W)
Approximately 1.5 kilometres north of Knight Inlet, along the east side of Matsiu Creek.

CLAIMS: CATHERINE 1 to 3, 5 to 8, JOHN 1 Fraction, JOHN 2 and 3, KIR 3, 5, 7.

OWNER: Knight Inlet Resources Ltd.

OPERATOR: KELLARD MARBLE INC., 4663 Deerwood Terrace, Victoria V8Y 1C8.

DESCRIPTION: A marble lens, some 15 to 30 metres wide and at least 350 metres long with wallrocks of banded metadiorite, is part of a sunken block of metamorphic rocks within the Coast Range Plutonic Complex. Some of the marble has a very attractive blue colour. The physical tests indicate the compressive strength in the order of 69 000 to 83 000 kilopascals, bulk specific gravity 2.66 to 2.77, and absorption 0.06 to 0.09 per cent. Modulus of rupture of six samples varied between 12 970 and 19 390 kilopascals.

WORK DONE: Blasting 2 270 tonnes of rock and positioning 900 tonnes for a barge ramp; clearing a marshalling yard adjacent to the proposed barge ramp; initial construction of a tote road; cutting and stacking trees; and constructing camp and floatplane dock.

REFERENCES: Mineral Inventory 92K-32; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1969, pp. 385, 386.

DOLOMITE**DOLO (Fig. E-1, NTS 82, No. 274)**

LOCATION: Lat. 49° 01' Long. 118° 58' (82E/2W)
South of Myers Creek, 5.3 kilometres southeast of Rock Creek settlement.

CLAIMS: DOLO 1 to 4.
 OWNER: DOLOWHITE MINES LTD., Box 10, Rock Creek V0H 1Y0.
 DESCRIPTION: A dolomite lens is associated with altered volcanic and sedimentary rocks of the Permian (?) Anarchist Group. Small bands of talc occur near the hangingwall contact. Crushed and ground rock is produced in the plant at Rock Creek.
 WORK DONE: Trenching and stripping, approximately 12 by 15 by 6 metres, on Dolo 1, and approximately 9 by 38 by 0.5 metre, on Dolo 2.
 REFERENCES: Mineral Inventory 82E/SE-200; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1970, p. 411.

MC (Fig. E-1, NTS 92, No. 170)

LOCATION: Lat. 49° 36' Long. 123° 53' (92G/12W)
 Sechelt Peninsula, 10 kilometres north of Halfmoon Bay.
 CLAIMS: MC 1 to 5, PUBI, PLAIN (18 units).
 OWNER: R. C. Riepe.
 OPERATORS: STONEY PLAIN INDUSTRIES LTD. and SQUAMISH STEEL FABRICATORS LTD., 8744 Joffre Avenue, Burnaby V5J 3L7.
 DESCRIPTION: A sunken block of carbonate and volcanic rocks in the Coast Range Plutonic Complex contains partly banded limestone and dolomite.
 WORK DONE: Road construction, 300 metres, on MC 2-4; stripping, 100 metres, on MC 2 and 3.
 REFERENCES: Mineral Inventory 92G/NW-35; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 119.

FLUORITE

DEEP PURPLE (Fig. E-1, NTS 82, No. 282)

LOCATION: Lat. 50° 12' Long. 115° 08' (82J/3E)
 Forty-eight kilometres east of Canal Flats, on Rocky Canyon Creek, approximately 10 kilometres east of White River.
 CLAIMS: DEEP PURPLE (18 units), CANDY (8 units).
 OPERATOR: RIO TINTO CANADIAN EXPLORATION LIMITED, 520, 800 West Pender Street, Vancouver V6C 2V6.
 DESCRIPTION: Fluorite occurs as a fracture filling and cementing matrix in evaporitic breccia and carbonate rocks of Devonian age. Massive finely crystalline fluorite and fluorite-barite float occurs locally.
 WORK DONE: Surface geological mapping, 1:10 000; grid establishment, 41.3 metres; and geochemical survey, 935 soil and 38 silt samples analysed for fluorite, lead, and zinc, covering both claims.
 REFERENCE: Assessment Report 6978.

REDBIRD (Fig. E-1, NTS 92, No. 175)

LOCATION: Lat. 50° 23' Long. 120° 23' (92I/8W)
Two kilometres north of Stump Lake, on the southwest side of Kullagh Lake.

OWNER: W. HUXLEY, 525 Huxley Place, Kamloops V2B 5E6.

DESCRIPTION: Zoned fluorite and quartz veins varying in width from 2 to 12 centimetres occur along a south-dipping fault zone in andesites of the Nicola Group.

WORK DONE: Approximately 120 cubic metres of loose rock removed by front-end loader to facilitate further drilling and blasting, on Redbird.

REFERENCES: Mineral Inventory 92I/SE-179; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 202.

GAZOO (Fig. E-1, NTS 104, No. 60)

LOCATION: Lat. 59° 37' Long. 130° 12' (104O/9E)
Report on this property in Metals section, NTS 104O.

DESCRIPTION: Purple fluorite, calcite, and chalcedony as a breccia up to 15 metres wide are found in a northwest fault zone between the 'Central stock' and foliated quartz monzonite of the Cassiar batholith.

GYPSUM**MARTIN (Fig. E-1, NTS 82, No. 275)**

LOCATION: Lat. 50° 14.5' Long. 115° 39.5' (82J/4E)
Sixteen kilometres northeast of Canal Flats, on the north side of Nine Mile Creek, approximately 2 kilometres east of the Kootenay River.

CLAIMS: MARTIN 1 to 9.

OWNER: TRUROC GYPSUM PRODUCTS LTD., 901, 8215 - 112th Street, Edmonton, Alberta T6G 2C8.
Gypsum occurs in the Burnais Formation of Middle Devonian age.

WORK DONE: Drilling of core samples, on Martin 8 and 9.

REFERENCES: Mineral Inventory 82J/SW-16; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 250.

SPATSUM (Fig. E-1, NTS 92, No. 171)

LOCATION: Lat. 50° 33.5' Long. 121° 18.5' (92I/11W)
On the west side of the Thompson River, directly opposite Spatum station.

CLAIM: ORION (4 units).

OWNER: DONALD H. WILSON, 5996 Inverness Street, Vancouver V5W 3P7.

DESCRIPTION: Scattered crystals and veinlets of gypsum occur in intensely altered rocks of the Cache Creek Group.

WORK DONE: Prospecting, covering Orion.

REFERENCES: Mineral Inventory 921/NW-54; *Minister of Mines, B.C.*, Ann. Rept., 1907, p. 134; 1912, p. 185; 1922, p. 153; 1926, p. 194; 1962, p. 42; *Geol. Surv., Canada*, Gypsum in Canada, 1913; *Geol. Surv., Canada*, Mem. 262, p. 110; Assessment Report 7102.

LIMESTONE

MC (Fig. E-1, NTS 92, No. 170)

LOCATION: Lat. 49° 36' Long. 123° 53' (92G/12W)
Report on this property under 'Dolomite.'

FOX (Fig. E-1, NTS 92, No. 172)

LOCATION: Lat. 50° 37' Long. 127° 56' (92L/12E)
Six kilometres southeast of the village of Holberg, at the mouth of Glerup Creek, south side of Holberg Inlet.

CLAIMS: JOY 1 (4 units), JOY 2 (2 units), FOX 1 to 20.

OWNER: HOLBERG MINES LTD., 915, 470 Granville Street, Vancouver.

DESCRIPTION: A limestone member of the Quatsino Formation of Late Triassic age is interlaminated with black calcareous siltstone.

WORK DONE: Surface diamond drilling, 5 EX holes totalling 243.8 metres, on Fox 11.

REFERENCES: Mineral Inventory 92L-267; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 205; Assessment Reports 4908, 5413, 5414, 5666, 6053, 6951.

FIR (Fig. E-1, NTS 103, No. 19)

LOCATION: Lat. 54° 31' Long. 128° 28' (103I/9W)
On Copper Mountain, 9.5 kilometres east of Terrace.

CLAIMS: FIR 1 to 10.

OWNER: TERRACE CALCIUM PRODUCTS LTD., 66, 4625 Graham Avenue, Terrace V8G 1A7.

DESCRIPTION: A white, medium to coarse-grained limestone is interbedded with greenstones and quartz-mica schists of Early Permian age.

WORK DONE: Two open cuts, 5.490 by 7.015 by 3.660 metres and 5.490 by 9.150 by 2.660 metres, on Fir 10.

REFERENCE: *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 201.

MICA**CANOE (Fig. E-1, NTS 83, No. 2)**

LOCATION: Lat. 52° 46' Long. 119° 18' (83D/14W)
 CARIBOO M.D. Approximately 9 kilometres south-southwest of Valemount, on the north side of the Canoe River.

CLAIM: CANOE 1 (16 units).

OWNER: MITS DEVELOPMENT COMPANY LTD., 5351 Airport Road, Richmond V7B 1B5.

DESCRIPTION: Muscovite mica schist with quartz mica schist of the Kaza Group of Proterozoic age. Mica contents in the schist are reported up to 80 per cent.

WORK DONE: Surface geological mapping, 1:50; electromagnetic survey, 2 kilometres; 14 trenches, each 3 metres by 1 metre; and diamond drilling, 1 hole totalling 91.5 metres, on Canoe 1.

REFERENCE: Mineral Inventory 83D-12.

PERLITE**PERLITE (Fig. E-1, NTS 92, No. 174)**

LOCATION: Lat. 51° 20' Long. 122° 19' (92O/8W)
 CLINTON M.D. Twenty-three kilometres south of the Gang Ranch, 3 kilometres north of Lone Cabin Creek and 7 kilometres west of the Fraser River.

CLAIMS: PERLITE 1 and 2 (6 units each).

OWNERS: Harvey Gadway and Alfred Edie.

OPERATOR: WILLIAM JACKMAN, Pine Lake, Alberta.

DESCRIPTION: Light to dark grey, glassy perlite occurs in an Eocene volcanic sequence of rhyolite-dacite composition.

WORK DONE: Surface geological mapping, 1:10 000, and physical analyses and economic evaluation, on Perlite 1.

REFERENCES: Mineral Inventory 92O-72; *Minister of Mines, B.C.*, Ann. Rept., 1949, pp. 261, 262; Assessment Report 7009.

UNCHA LAKE (Fig. E-1, NTS 93, No. 105)

LOCATION: Lat. 53° 52' Long. 125° 39' (93F/13E)
 OMINECA M.D. Forty-two kilometres south of Burns Lake, on the north slope of Dayeezcha Mountain.

CLAIMS: TOM (2 units), KIM (6 units).

OWNER: C. S. POWNEY, Box 189, Fort Fraser V0J 1N0.

DESCRIPTION: Perlite occurs in bands 7.6 metres to 23 metres thick which are separated by 2 metres to 9 metres of rhyolite between bands.

WORK DONE: Ten trenches totalling 1 700 metres, on both claims.

REFERENCES: Mineral Inventory 93F-26; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 253.

MA (Fig. E-1, NTS 93, No. 106)

LOCATION: Lat. 54° 03' Long. 125° 40' (93K/4E)
 OMINECA M.D. On the north shore of Francois Lake, 6.9 kilometres east of Francois Lake post office.

CLAIMS: MA 1 to 3 (18 units each).

OWNER: John Hogan.

OPERATOR: LONG LAC MINERAL EXPLORATION LTD., 1680, 1050 West Pender Street, Vancouver V6E 3S7.

DESCRIPTION: A band of perlite interbedded with rhyolites and tuff.

WORK DONE: Linecutting, 18.2 kilometres, covering MA 1 and 3; geochemical survey, 4 silt, 14 rock, and 286 soil samples analysed for uranium, covering all claims.

REFERENCES: *Minister of Mines, B.C.*, Ann. Rept., 1949, p. 258; 1953, p. 194; *Geol. Surv., Canada*, Mem. 252, p. 198.

COATES CREEK (Fig. E-1, NTS 103, No. 20)

LOCATION: Lat. 53° 42.5' Long. 132° 46' (103F/10W)
 SKEENA M.D. On Graham Island, in the Coates Creek drainage area, 7.5 kilometres easterly from Ironside Mountain.

CLAIM: SEAVIEW (6 units).

OWNER: MOUNTAIN MINERALS LIMITED, Box 700, Lethbridge, Alberta.

DESCRIPTION: A Paleocene/Eocene series of subaerial basalt flows, breccias, and rhyolitic ash flows of the Masset Formation comprises a plateau volcanic sequence up to 5 kilometres thick. Perlite occurs as two irregularly shaped bodies in this sequence. The whole series dips easterly at shallow angles.

WORK DONE: Linecutting, 3.9 kilometres; surface geological mapping, 1:2500; and physical testing of 41 samples, covering Seaview.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Bull. 54, pp. 115, 175; Assessment Report 6926.

PHOSPHATE**CABIN (Fig. E-1, NTS 82, No. 276)**

LOCATION: Lat. 49° 06' Long. 114° 40' (82G/2E)
 FORT STEELE M.D. Eighteen kilometres northwest of Flathead border crossing, on Cabin Creek, 5 kilometres southeast of Cabin Pass.

CLAIMS: CABIN 1 to 3 (39 units).

OWNER: ESSO RESOURCES CANADA LTD., 500 Sixth Avenue SW., Calgary, Alberta T2P 0S1.

WORK DONE: Percussion drilling, 20 holes totalling 205.9 metres, on Cabin 1 and 3.

REFERENCES: Mineral Inventory 82G/SE-55; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 253, E 254; PAC Report 18.

RAM (Fig. E-1, NTS 82, No. 277)

LOCATION: Lat. 49° 10.5' Long. 114° 44' (82G/2E)
 FORT STEELE M.D. Twenty-seven kilometres northwest of Flathead border crossing, on the northeast side of Bighorn Creek, 3 kilometres south-southeast of Mount Doupe.

CLAIMS: RAM 1 and 2 (30 units).

OWNER: ESSO RESOURCES CNADA LTD., 550 Sixth Avenue SW., Calgary, Alberta T2P 0S1.

WORK DONE: Percussion drilling, 13 holes totalling 221.6 metres, on Ram 1.

REFERENCES: Mineral Inventory 82G/SE-56; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 254; PAC report 18.

PH, WW (Fig. E-1, NTS 82, No. 278)

LOCATION: Lat. 49° 27' Long. 114° 40' (82G/7E)
 FORT STEELE M.D. From 4 to 10 kilometres southwest of Corbin, along Michel Creek and both sides of Firestone Ridge.

CLAIMS: PH 1 to 9, WW 1, 2, 4, 6 to 12, 45 to 60, 83 to 88, 97 to 104.

OWNERS: Stephen R. Dunn and J. S. Adamson.

OPERATORS: COCHRANE OIL & GAS LTD., 1400, 444 Fifth Avenue SW., Calgary, Alberta and WESTERN WARNER OILS LTD., 4, 215A – 10th Street NW., Calgary, Alberta.

WORK DONE: Diamond drilling, 3 HQ-BQ holes totalling 36.7 metres, on WW 104 and PH 6.

REFERENCES: Mineral Inventory 82G/SE-38, 51; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 254; Assessment Reports 6305, 6859.

SEMI-PRECIOUS STONES**AGATE****HUXLEY (Fig. E-1, NTS 92, No. 177)**

LOCATION: Lat. 50° 37' Long. 120° 03' (92I/9E)
 KAMLOOPS M.D. Twenty-one kilometres east-southeast of Kamloops, immediately southeast of Buse Lake.

CLAIM: HUXLEY.

OWNER: W. HUXLEY, 525 Huxley Place, Kamloops V2B 5E6.

DESCRIPTION: Agate occurs as veins and in nodular form in andesitic volcanic rocks of Eocene age.

WORK DONE: Test pitting and trenching, 20 square metres, on Huxley.

REFERENCES: Mineral Inventory 92I/NE-131; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1976, p. E 202.

JADE**STEVEN (Fig. E-1, NTS 92, No. 179)**

LOCATION: Lat. 49° 27' Long. 121° 16' (92H/6W)
 NEW WESTMINSTER M.D. On the east side of the Coquihalla River,
 3 kilometres south of the mouth of Dewdney Creek.

CLAIM: STEVEN (1 unit).

OWNER: R. J. FULBROOK, RR 3, Site 20, Comp 18, Vernon V1T 6L6.

DESCRIPTION: Talc occurs in serpentine and jade occurs on the contact of serpentine
 with cherty rock.

WORK DONE: Removing slide material, on Steven.

REFERENCES: Mineral Inventory 92H/SW-97; *B.C. Ministry of Energy, Mines & Pet.
 Res.*, Exploration in B.C., 1977, p. E 250.

JADEX (Fig. E-1, NTS 104, No. 62)

LOCATION: Lat. 58° 15' Long. 128° 35' (104I/2E, 7E)
 LIARD M.D. Eleven kilometres due south of Wolverine Lake.

CLAIMS: JADEX 1 to 7, BS 1, KIM.

OWNER: CRY LAKE JADE MINES LTD., Box 12542, 1066 West Hastings
 Street, Vancouver.

DESCRIPTION: Nephrite occurs on a contact between serpentinite and the Cache Creek
 Group rocks.

WORK DONE: Prospecting; surface geological mapping, 1:6000; and diamond drilling,
 200 packsack (XRP) holes in boulders and lenses totalling approxi-
 mately 300 metres, on all claims.

REFERENCE: Mineral Inventory 104I-78.

JASPER**ROCKY (Fig. E-1, NTS 92, No. 178)**

LOCATION: Lat. 48° 54' Long. 124° 10' (92C/16E)
 Report on this property under 'Rhodonite.'

OPAL**OPAL (Fig. E-1, NTS 93, No. 107)**

LOCATION: Lat. 52° 12' Long. 121° 52' (93A/4W)
 CARIBOO M.D. Ten kilometres north-northeast of 150 Mile House,
 immediately west of Dewar Lake.

CLAIM: OPAL 1.

OWNER: Burton Westwick.

OPERATORS: BURTON WESTWICK and LAWRENCE WESTWICK, Box 4445,
Williams Lake V2G 2V5.

WORK DONE: One trench, 3 by 3.7 by 1.8 metres, on Opal 1.

REFERENCES: Mineral Inventory 93A-122; *B.C. Ministry of Energy, Mines & Pet. Res.*,
Exploration in B.C., 1977, p. E 253.

RHODONITE

ROCKY (Fig. E-1, NTS 92, No. 178)

LOCATION: Lat. 48° 54' Long. 124° 10' (92C/16E)
VICTORIA M.D. Four kilometres north of North Arm, Cowichan
Lake, on the south slope of Mount Franklin.

CLAIM: ROCKY (1 unit).

OWNER: MAVIS O. J. HAYWARD, 2951 Mount Sicker Road, RR 1, Chemainus
V0R 1K0.

DESCRIPTION: Rhodonite zone in thin-bedded chert and jasper of the Sicker Group.

WORK DONE: Stripping, approximately 3 cubic metres; approximately 140 kilograms
of rhodonite removed.

REFERENCES: Mineral Inventory 92C-113; *B.C. Ministry of Energy, Mines & Pet. Res.*,
Exploration in B.C., 1977, p. E 255; *B.C. Ministry of Energy, Mines &
Pet. Res.*, Bull. 37, p. 68; *Geol. Surv., Canada*, Paper 72-53, p. 56.

SILICA

GOAT A (Fig. E-1, NTS 82, No. 267)

LOCATION: Lat. 50° 42.5' Long. 119° 08' (82L/11E)
Report on this property in Metals section, NTS 82.

FS (Fig. E-1, NTS 82, No. 121)

LOCATION: Lat. 50° 49' Long. 119° 50' (82L/13W)
Report on this property in Metals section, NTS 82.

DESCRIPTION: A quartz stockwork in gneissic siliceous granite forms an isolated
mound approximately 25 metres high, 120 metres long, and up to 40
metres wide. Traces of pyrite, chalcopyrite, and grains of scheelite are
scattered locally throughout the vein.

HUNT (Fig. E-1, NTS 82, No. 279)

LOCATION: Lat. 51° 13' Long. 116° 52' (82N/2W)
GOLDEN M.D. Thirteen kilometres south-southeast of Golden, on the
south bank of Horse Creek.

CLAIMS: HUNT 1A to 9A.

OWNER: C. Ralph Hoar.

OPERATOR: COASTAL MINING OF CANADA LIMITED, c/o 1400, 1030 West Georgia Street, Vancouver V6E 3C2.

DESCRIPTION: Massive quartzite of the Mount Wilson Formation of Ordovician age.

WORK DONE: Road construction, 1 kilometre, and bulk sampling, 1 500 tonnes drilled and blasted (285 tonnes shipped), covering Hunt 2A, 6A, and 9A.

REFERENCES: Mineral Inventory 82N-43; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 203.

MOUNT MOBERLY (Fig. E-1, NTS 82, No. 280)

LOCATION: Lat. 51° 22' Long. 116° 57' (82N/7W)
GOLDEN M.D. Seven kilometres north of Golden, on Moberly Peak.

CLAIMS: PAX (8 units), CONTACT (6 units), SANDY (15 units), RALPH (20 units), CORNER (1 unit).

OWNER: MOUNTAIN MINERALS LIMITED, Box 700, Lethbridge, Alberta T1J 3Z6.

DESCRIPTION: Siliceous sandstone and quartzite are part of the Mount Wilson Formation of Ordovician age.

WORK DONE: Surface geological mapping, 1:1000, covering Pax.

REFERENCES: Mineral Inventory 82N-1; *Minister of Mines, B.C.*, Ann. Rept., 1959, p. 199; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 256; Assessment Report 7124.

TALC

DOLO (Fig. E-1, NTS 82, No. 274)

LOCATION: Lat. 49° 01' Long. 118° 58' (82E/2W)
Report on this property under 'Dolomite.'

STEVEN (Fig. E-1, NTS 92, No. 179)

LOCATION: Lat. 49° 27' Long. 121° 16' (92H/6W)
Report on this property under 'Jade.'

J&J (Fig. E-1, NTS 92, No. 180)

LOCATION: Lat. 49° 59' Long. 121° 33' (92H/13E)
NEW WESTMINSTER M.D. Three kilometres west-northwest of the mouth of Nahatlatch Creek at the Fraser River.

CLAIMS: J&J 1 to 10.

OWNER: MOUNTAIN MINERALS LIMITED, Box 700, Lethbridge, Alberta T1J 3Z6.

1978

Talc-Vermiculite

DESCRIPTION: Talc is associated with magnesite, pyrite, and chlorite lying subvertical in a phyllitic unit striking 135 degrees.

WORK DONE: Surface geological mapping, 1:1000; surface diamond drilling, 4 AQ holes totalling 193 metres.

REFERENCES: Mineral Inventory 92H/NW-47; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 257; Assessment Report 7118.

H (Fig. E-1, NTS 92, No. 104)

LOCATION: Lat. 50° 03.5' Long. 121° 38' (92I/4E)
Report on this property in Metals section, NTS 92.

VERMICULITE

VERITY (Fig. E-1, NTS 83, No. 1)

LOCATION: Lat. 52° 24' Long. 119° 10' (83D/6E)
Report on this property in Metals section, NTS 83.

DESCRIPTION: A vermiculite zone over 8 metres thick occurs in a carbonatite complex.

COAL EXPLORATION

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REVIEW OF COAL EXPLORATION

By A. H. Matheson

On February 10, 1978, the moratorium on the issuance of coal licences ended, resulting in the granting of 1 036 coal licences totalling 257 960 hectares in the Province, bringing the total to 501 076 hectares comprising 2 103 coal licences, thus doubling the area of coal lands held. In addition, there were a further 525 coal licence applications, totalling 95 510 hectares, being considered at the end of the year. There were no coal licences surrendered. Unfortunately most of the coal licences were issued well on in the field season, thus curtailing much of the exploration activity. A marked increase in work expenditure should be registered in 1979.

Exploration was carried out over nine properties in the Peace River Coalfield. Teck Corporation was most active on the Burnt River property, with an intensive drilling and mapping program. Pacific Petroleum carried out intensive drilling programs on both their Belcourt and Monkman properties. In June 1978 the prospectus on the Monkman property was submitted. Denison was active on both their Saxon and Belcourt properties. The Stage I report on their Quintette property was submitted during the year. Other properties worked on in the northeast were Bri Dowling Creek and Carbon Creek (Utah), Mount Spieker (Ranger Oil), Sukunka (BP), and Sukunka River (Master Exploration). The Stage I report for Sukunka-Bullmoose was submitted in February 1978.

In southeastern British Columbia exploration programs covered seven properties. The main thrust of Kaiser's exploration activity was on their Michel property where intensive drilling took place. Other areas worked were Greenhills and Burnt Ridge Extension. Crows Nest Industries worked on their North Block (mainly trenching) and North Central Block and Line Creek-Horseshoe Ridge (mainly drilling). Some minor drilling was carried out by Fording Coal on their Fording River operation. The Corbin-Coal Mountain prospectus was submitted in March.

Exploration activities continued in the Hat Creek and Comox Coalfields, and minor work was done in the Telkwa Coalfield and in the Tulameen coal basin.

REPORTS ON COAL EXPLORATION

CROWSNEST COALFIELD (Fig. E-6)

KAISER RESOURCES LTD. (MICHEL MINES) (Fig. E-1, NTS 82, No. 283)

- LOCATION:** Lat. 49° 45' Long. 114° 50' (82G/10, 15)
The area lies due south of Natal Ridge and Sparwood Ridge.
- LICENCES:** Freehold.
- OWNER:** KAISER RESOURCES LTD., Box 2000, Sparwood.
- DESCRIPTION:** Apparently the area is underlain by Elk member and Blairmore Group cover rocks. No details of the coal measures are available.
- WORK DONE:** Nineteen diamond-drill holes, totalling 3 640 metres, were drilled, and the core logged and sampled. Seventy-one rotary holes were drilled, totalling 9 550 metres. The cuttings were logged and sampled. All holes were surveyed by gamma-ray, neutron, and density instruments. Seven adits were driven, totalling 270 metres.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Coal in B.C., A Technical Appraisal, 1976, pp. 168-187; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 265.

SHELL CANADA RESOURCES LTD. (NORTH CENTRAL BLOCK PROJECT)

(Fig. E-1, NTS 82, No. 284)

- LOCATION:** Lat. 50° 00' Long. 114° 45' (82G/15; 82J/2)
Fifteen kilometres northeast of Elkford.
- LICENCES:** C.L. Nos. 277 to 293, 304, 1299 to 1302.
- OWNER:** Shell Canada Resources Ltd.
- OPERATOR:** CROWS NEST INDUSTRIES LIMITED, Box 100, Calgary, Alberta T2P 2H5.
- DESCRIPTION:** Most of the north central block licences cover the more gently dipping east limb of the asymmetrical, north/south-trending Fording River syncline. The Kootenay Formation may be divided into three units: the basal, the Moose Mountain member; the middle, the coal-bearing member; and the upper, the Elk member.
- WORK DONE:** Mapping was carried out using aerial photographs, at scales of 1:24 000 and 1:12 000. Geological data was recorded on the aerial photographs and later transferred onto enlarged photographs (scale, 1:5000). Twenty-three stratigraphic sections were measured, for a total length of 3.8 kilometres, and 14 trenches were dug. Eight seams have been identified which correspond to those seams of the Line Creek area. The seams range in thickness from 2 metres to 12 metres. Approximately 20 per cent of the project area has been mapped in a general form.

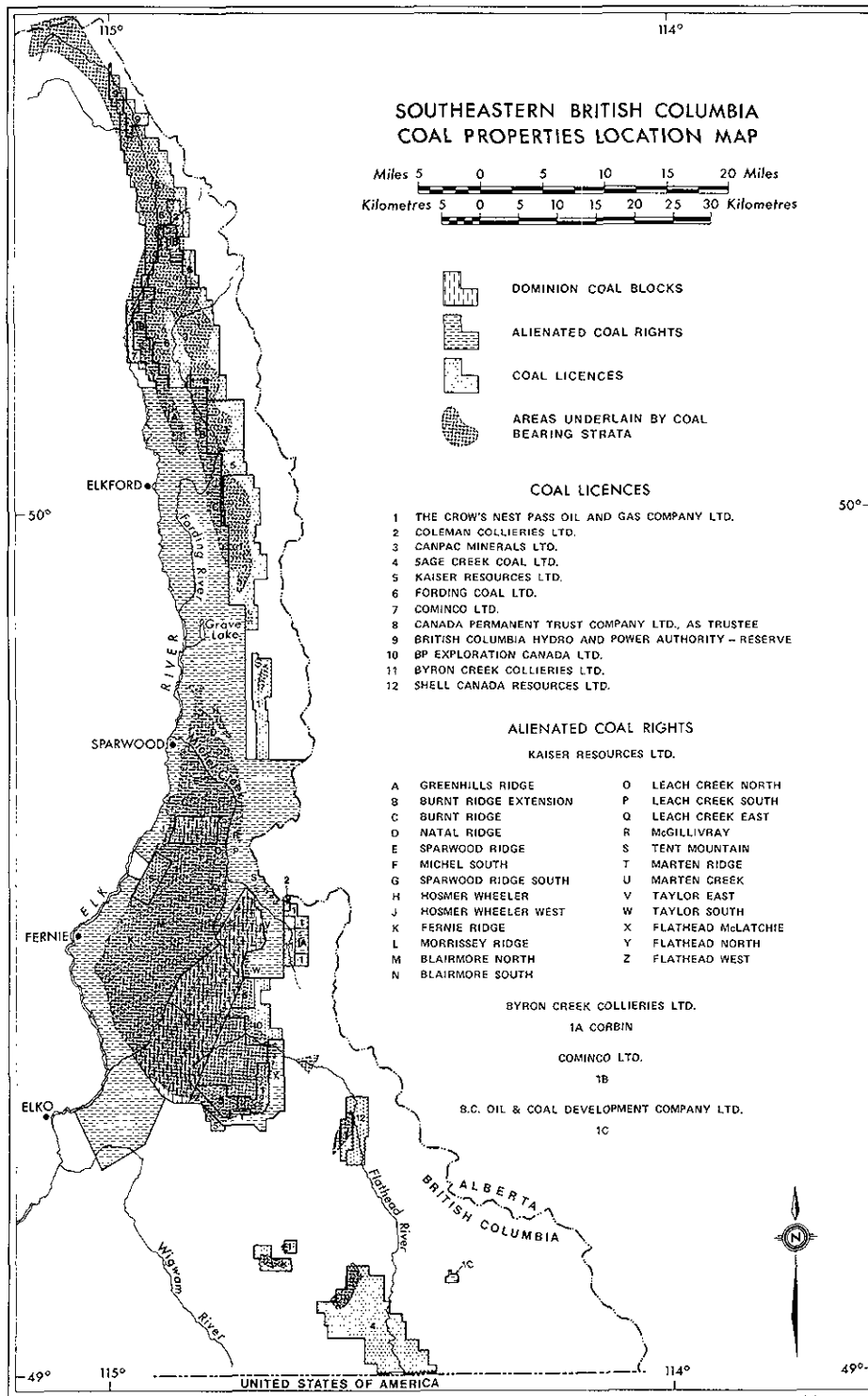


Figure E-6. Southeastern British Columbia, coal properties location map.

**SHELL CANADA RESOURCES LTD. (LINE CREEK AND
HORSESHOE RIDGE) (Fig. E-1, NTS 82, No. 285)**

- LOCATION:** Lat. 49° 55' Long. 114° 46' (82G/15)
Thirteen kilometres east of Elkford.
- LICENCES:** C.L. Nos. 294 to 299, 368, 369, 373.
- OWNER:** Shell Canada Resources Ltd.
- OPERATOR:** CROWS NEST INDUSTRIES LIMITED, Box 100, Calgary, Alberta
T2P 2H5.
- DESCRIPTION:** On the southerly end of the Line Creek Ridge, the upper seams of the Kootenay Formation eroded away, but on the northern part of the ridge the northward plunge of the syncline and increasing altitude of the topography allow all seams to be present attaining an overall thickness of 50 metres. On Horseshoe Ridge, the coal-bearing strata dip westward more steeply than the western slope of the ridge, but a large block thrust upward from the west has brought the seams closer to the surface on the lower parts of the slope. The dips of the beds range from 20 to 45 degrees west.
- WORK DONE:** Nineteen diamond-drill holes were sunk, totalling 4 747.4 metres, and the core logged and sampled, and 12 rotary holes, totalling 3 079 metres, were sunk and logged. All holes were surveyed with gamma-ray, neutron-neutron, density, and caliper instruments. Four adits, totalling 176.6 metres, were excavated and sampled. Some infill geological field mapping was done during the year, as well as geodetic ground control, location survey, and photogrammetric mapping.
- REFERENCE:** *B.C. Ministry of Energy, Mines & Pet. Res., Coal in B.C., A Technical Appraisal, 1976, pp. 192, 193.*

**SHELL CANADA RESOURCES LTD. (NORTH BLOCK PROJECT)
(Fig. E-1, NTS 82, No. 286)**

- LOCATION:** Lat. 50° 02'-08' Long. 114° 45'-50' (82J/2)
Twenty-three kilometres northeast of Elkford.
- LICENCES:** C.L. Nos. 264 to 276.
- OWNER:** Shell Canada Resources Ltd.
- OPERATOR:** CROWS NEST INDUSTRIES LIMITED, Box 100, Calgary, Alberta
T2P 2H5.
- DESCRIPTION:** The coal measures of the Kootenay Formation are located in a steep-limbed asymmetric north/south-trending syncline (the Fording River syncline). The licences are located mainly over the east limb of the syncline.
- WORK DONE:** Thirty-eight trenches were dug, totalling approximately 500 metres. The majority of the trenches were excavated in the area of detailed geological mapping. Overall reconnaissance mapping, 1:40 000, and detailed mapping, 1:10 000, were carried out. In addition to the geological mapping, a geodetic survey was conducted.

KAISER RESOURCES LTD. (BURNT RIDGE EXTENSION)**(Fig. E-1, NTS 82, No. 287)**

- LOCATION:** Lat. 50° 05' Long. 114° 50' (82J/2)
East Kootenay District, Upper Elk Valley; access off Fording Coal mine access road.
- LICENCES:** Freehold.
- OWNER:** KAISER RESOURCES LTD., Box 2000, Sparwood.
- DESCRIPTION:** This is an area of 18.17 square kilometres north of Burnt Ridge which is separated from the Greenhills by the valley of Fording River. The area contains a moderately dipping (50-degree) homoclinal sequence of coal measures that forms part of the western limb of the Alexander Creek (Fording) syncline. At the south end of the property, one coal seam of 9.15-metre thickness is exposed. This is joined by two further seams at the north end of the property to give an aggregate thickness of 18.3 metres of coal.
- WORK DONE:** Five diamond-drill holes with a total of 1 950 metres were drilled, logged, and sampled. All holes were surveyed by gamma-ray, neutron, density, and deviation instruments. Five hand trenches were dug, totalling about 30 metres.
- REFERENCE:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Coal in B.C., A Technical Appraisal, 1976, p. 170.

KAISER RESOURCES LTD. (GREENHILLS) (Fig. E-1, NTS 82, No. 288)

- LOCATION:** Lat. 50° 07' Long. 114° 53' (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 1000, Sparwood.
- DESCRIPTION:** 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. Approximately 671 metres of coal measures are exposed in the Greenhills, with 91.5 metres of coal in 23 seams.
- WORK DONE:** Two diamond-drill holes with a total of 560 metres were drilled, logged, and sampled. Nineteen rotary holes with a total of 2 850 metres were drilled and the cuttings logged and sampled. All holes were surveyed by gamma-ray, neutron, and density instruments and were surveyed for deviation. Two adits were driven for a total of 300 metres and 43 hand trenches were dug with a total of approximately 200 metres.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Coal in B.C., A Technical Appraisal, 1976, p. 170; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, pp. E 213, E 214; 1977, p. E 265.

FORDING COAL LIMITED (FORDING RIVER OPERATIONS)

(Fig. E-1, NTS 82, No. 289)

- 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:** C.L. Nos. 314 to 334, 336 to 340, 342 to 344, 348, 353, 355 to 364, 510, 511, 554 to 560 (CanPac Minerals Limited); C.L. Nos. 801 to 804, 943, 944, 964 (Fording Coal Limited); C.L. Nos. 539, 541, 543, 545, 547, 549, 551, 553 (Cominco Ltd.).
- OWNERS:** CanPac Minerals Limited, Fording Coal Limited, and Cominco Ltd.
- OPERATOR:** FORDING COAL LIMITED, Box 100, Elkford V0B 1H0.
- DESCRIPTION:** Coal occurs in the Lower Cretaceous Kootenay Formation which is well over 600 metres thick in the area. Two synclines trending north/south occur on either side of the Fording River and are separated by a major fault downthrown on the west.
- WORK DONE:** Two diamond-drill holes were put down with a total depth of 970 metres. The core was logged and sampled. Gamma-ray, neutron, and directional surveys were carried out in both holes.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Coal in B.C., A Technical Appraisal, 1976, p. 191; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, pp. E 214, E 215; 1976, p. E 215; 1977, pp. E 263, E 264.

COMOX COALFIELD**WELLINGTON COLLIERY COMPANY LIMITED (QUINSAM)**

(Fig. E-1, NTS 92, No. 181)

- LOCATION:** Lat. 49° 40' Long. 125° 10' (92F/11, 14W)
A strip of land stretching from some 30 kilometres southeast of Courtenay to 50 kilometres northwest of Courtenay.
- LICENCES:** Freehold; C.L. Nos. 3666 to 3685.
- OWNER:** Wellington Colliery Company Limited.
- OPERATORS:** WELDWOOD OF CANADA LIMITED and LUSCAR LTD., c/o 1055 West Hastings Street, Vancouver V6B 3V8.
- DESCRIPTION:** The coal measures occur in the lower third of the Comox Formation of the Upper Cretaceous Nanaimo Group and is contained by faulting and tilting to the northeast with an average dip of 5 to 7 degrees. The coal is high volatile A bituminous according to ASTM classification.
- WORK DONE:** Eight holes were drilled (wireline) with a total of 160 metres and 16 rotary holes were drilled, totalling 1 600 metres. The core and chips were sampled. Two adits, totalling 13 metres, were driven. Geological and topographical mapping was carried out over 4 000 hectares.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res.*, Coal in B.C., A Technical Appraisal, 1976, pp. 212, 213; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 216; 1977, p. E 266.

SIMILKAMEEN COALFIELD

IMPERIAL METALS AND POWER LTD. (TULAMEEN COAL)

(Fig. E-1, NTS 92, No. 182)

LOCATION: Lat. 49° 30' Long. 120° 45' (92H/7, 10)
In the Tulameen Basin.

LICENCES: C.L. Nos. 69 to 71, 125, 126, 145 to 147, 154, 158, 159, 3663 to 3665.

OWNER: Imperial Metals and Power Ltd.

OPERATOR: CYPRUS ANVIL MINING CORPORATION, 330, 355 Burrard Street, Vancouver.

DESCRIPTION: The coal-bearing formation overlies massive Tertiary andesites in the north and rocks of the Nicola Group in the south. The basin is oval in shape, elongated along the axis of a syncline running northwest/southeast. The northeastern limb has steeper dips (40 to 65 degrees) than the southwestern limb (20 to 25 degrees). An erosional remnant of a fine-grained basalt lies unconformably on the coal measures over much of the southeastern half of the basin. The coal is a high volatile C bituminous according to the ASTM classification.

WORK DONE: Minor trenching was carried out, in addition to five rotary drill holes, which were surveyed by geophysical instruments, totalling approximately 700 metres.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Coal in B.C., A Technical Appraisal, 1976, pp. 220, 221; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 268.

HAT CREEK COALFIELD

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY (HAT CREEK)

(Fig. E-1, NTS 92, No. 183)

LOCATION: Lat. 50° 45' Long. 121° 36' (92I/12E, 13E)
Twenty-four kilometres west-northwest of Ashcroft.

LICENCES: C.L. Nos. 12, 144, 2753 to 2762, 2991 to 3013, 3655.

OWNER: BRITISH COLUMBIA HYDRO AND POWER AUTHORITY, 970 Burrard Street, Vancouver V6V 1Y3.

DESCRIPTION: A large deposit of low-ranking coal occurs in the Coldwater Formation in the Tertiary Hat Creek basin. In general the structure of the basin is simple. The central zone of the valley, underlain mainly by coal and sedimentary formations, has been down-dropped forming a graben. This is cut by easterly trending gravity faults of recent origin. In the north is the proposed No. 1 open pit. The No. 2 open pit lies in the south and will be the larger of the two.

WORK DONE: Twenty-eight diamond-drill holes, with a total of 7 323.5 metres, were drilled and the core logged and sampled. There were seven rotary holes with a total of 881.5 metres. All holes were geophysically logged, with gamma-ray and density implements.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res., Coal in B.C., A Technical Appraisal, 1976, p. 218; B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1975, pp. E 216, E 217; 1977, p. E 267.*

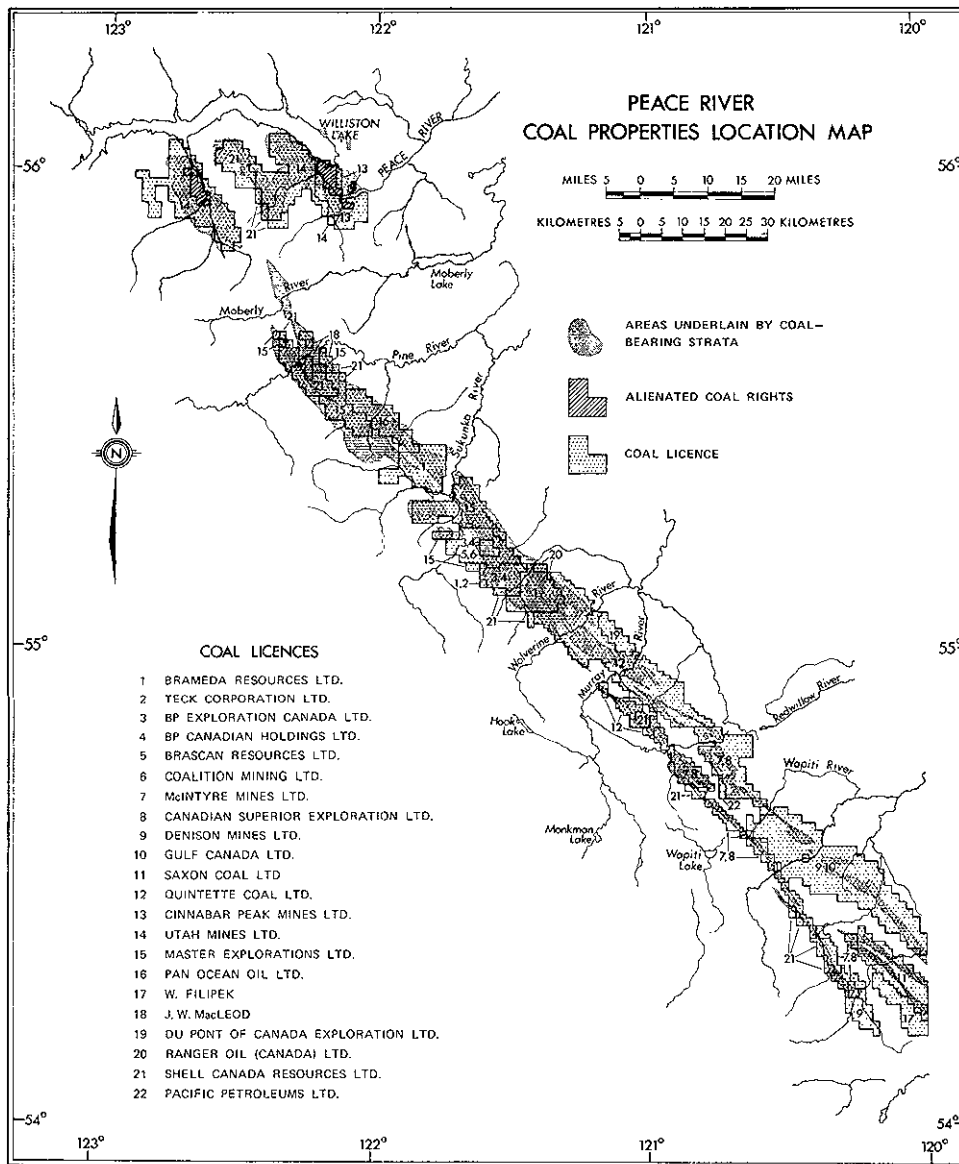


Figure E-7. Peace River, coal properties location map.

PEACE RIVER COALFIELD (Fig. E-7)**DENISON MINES LIMITED (SAXON PROJECT) (Fig. E-1, NTS 93, No. 108)**

- LOCATION:** Lat. 54° 20' Long. 120° 10' (93I/8)
In the Rocky Mountain Foothills, from Belcourt Creek to the British Columbia-Alberta boundary.
- LICENCES:** C.L. Nos 2763 to 2812.
- OWNER:** Saxon Coal Limited.
- OPERATOR:** DENISON MINES LIMITED, 1500, 444 Fifth Avenue SW., Calgary, Alberta T2P 2T8.
- DESCRIPTION:** There are five seams of economic significance in the Gates member of the Commotion Formation, totalling about 18 metres over a thickness of 365 metres. The Gething Formation is thin and contains no seams of significant thicknesses.
- WORK DONE:** Nine diamond-drill holes, totalling 3 474 metres, were drilled and the core logged and sampled. Fourteen rotary drill holes were sunk, totalling 929 metres. All holes, with the exception of one, were logged by gamma-ray, caliper, focused electric sonic, bed resolution density, and high resolution density instruments. Topographical and geological mapping was carried out.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res., Coal in B.C., A Technical Appraisal, 1976, p. 217; B.C. Ministry of Energy, Mines & Pet. Res., Northeast Coal Study, Report on Coal Resource Evaluation Studies, Jan. 1977, pp. 48, 49; B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, pp. E 268, E 270.*

DENISON MINES LIMITED (BELCOURT PROJECT) (Fig. E-1, NTS 93, No. 109)

- LOCATION:** Lat. 54° 30' Long. 120° 15' (93I/8, 9)
Rocky Mountain Foothills, Ptarmigan Mountain northwest to Little Prairie Creek.
- LICENCES:** C.L. Nos. 2822 to 2850, 3713 to 3863.
- OWNER:** Belcourt Coal Limited.
- OPERATOR:** DENISON MINES LIMITED, 1500, 444 Fifth Avenue SW., Calgary, Alberta T2P 2T8.
- DESCRIPTION:** Eleven seams, with a total of 36 metres, occur in the 580-metre-thick Gates member of the Commotion Formation. The coal is of metallurgical quality and varies from a low to high volatile bituminous coal.
- WORK DONE:** Sixteen diamond-drill holes, totalling 5 332.5 metres, were drilled, logged, and sampled. Gamma-ray, neutron, density, caliper, resistivity, and focused beam logs were recorded. Topographical mapping, 1:25 000 and 1:5000, as well as geological mapping, 1:25 000 and 1:2500, was carried out. In addition there was some trenching.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res., Northeast Coal Study, Report on Coal Resource Evaluation Studies, Jan. 1977, pp. 46, 47; B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1975, p. E 220; 1976, pp. E 217, E 218; 1977, p. E 270.*

PACIFIC PETROLEUMS LTD. (MONKMAN – BELCOURT)

(Fig. E-1. NTS 93, No. 110)

- 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 Foothills, 140 kilometres due south of Dawson Creek.
- LICENCES:** C.L. 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, 3193, 3195 to 3207, 3209 to 3264, 3936 to 3960, 4518 to 4523.
- OWNERS:** McIntyre Mines Limited and Canadian Superior Exploration Limited.
- OPERATOR:** PACIFIC PETROLEUMS LTD., 700 Sixth Avenue SW., Calgary, Alberta.
- DESCRIPTION:** The areas are underlain by two narrow linear belts of the Lower Cretaceous Bullhead and Fort St. John Groups, along the limbs of a broad northwesterly trending anticlinal structure. The coal is contained in two coal-bearing continental sequences of Early Cretaceous age. The coal varies from low to high volatile with the low volatile product restricted to the lower coal-bearing Gething Formation. The coal was deposited in a telmatic environment and the coal measures sequence consists of interbedded shale, mudstone, siltstones, coals, sandstones, and conglomerates.
- WORK DONE:** Thirty diamond-drill holes, totalling 9 646.6 metres, were drilled and the core logged and sampled in addition to 22 rotary holes which were logged and sampled. All holes were logged by gamma-ray, neutron, density, caliper, resistivity, and focused beam implements. Two test adits, totalling 156 metres, were driven and sampled.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1973, pp. 583, 585; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, pp. E 220, E 221; 1976, p. E 219.

UTAH MINES LTD. (WEST CARBON CREEK) (Fig. E-1, NTS 93, No. 111)

- LOCATION:** Lat. 55° 55' Long. 122° 50' (930/15)
South of Williston Lake area, along the eastern and western flanks of Mounts Cowper, Rockfort, and Wrigley.
- LICENCES:** C.L. Nos. 4104 to 4123.
- OWNER:** UTAH MINES LTD., 1600, 1050 West Pender Street, Vancouver V6E 3S7.
- DESCRIPTION:** The area is underlain by gently dipping beds of the Gething Formation folded along north/south axes.
- WORK DONE:** Two diamond-drill holes, with a total depth of 371 metres, were sunk and the core logged, sampled, and surveyed with density and gamma-ray instruments. Geological mapping was carried out at 1:10 000.

UTAH MINES LTD. (BRI DOWLING CREEK) (Fig. E-1, NTS 93, No. 112)

- LOCATION:** Lat. 55° 55' Long. 122° 15' (930/16)
The property is located some 5 kilometres southwest of the Bennett Dam.
- LICENCES:** C.L. Nos. 3634 to 3654.
- OWNER:** UTAH MINES LTD., 1600, 1050 West Pender Street, Vancouver V6E 3S7.
- DESCRIPTION:** In the east the Cretaceous rocks are folded into a syncline with the axis trending to the west of north and plunging southwards. In the west, the rocks form the eastern limb of the adjacent anticline. The thrust faulting is in general parallel to the fold axis. The Superior, Trojan, and Titan seams of the Gething vary in thickness from 1.2 metres to 2.35 metres.
- WORK DONE:** Five diamond-drill holes, totalling 1 829 metres, were put down and the core logged, sampled, and surveyed with gamma-ray and density instruments. Some geological mapping was carried out.
- REFERENCES:** *B.C. Ministry of Energy, Mines & Pet. Res., Northeast Coal Study, Report on Coal Resource Evaluation Studies, Jan. 1977, pp. 19, 20, B.C. Ministry of Energy, Mines & Pet. Res., Exploration in B.C., 1977, pp. E 273, E 274.*

**RANGER OIL (CANADA) LTD. (MOUNT SPIEKER PROPERTY)
(Fig. E-1, NTS 93, No. 113)**

- LOCATION:** Lat. 55° 08' Long. 121° 28' (93P/3)
Approximately 65 kilometres south of Chetwynd, from Mount Spieker south to the headwaters of Perry Creek.
- LICENCES:** C.L. Nos. 3034, 3039, 3044 to 3047, 3049 to 3501.
- OWNER:** Brameda Resources Ltd.
- OPERATOR:** RANGER OIL (CANADA) LTD., 26th Floor, 330 Fifth Avenue SW., Calgary, Alberta.
- DESCRIPTION:** The area is underlain by the Gething Formation and the Gates member of the Commotion Formation. The strata have undergone a moderate amount of deformation. The southwest portion is folded into a broad northwest-trending syncline. The northeast portion is separated from the southwest by a local anticlinal structure, the angles of dip do not exceed 10 degrees. Coal occurs in both the Gates member of the Commotion Formation and the Gething Formation, although the coal seams are better developed in the former. It is believed that four distinct seams occur with an average total thickness of 12 metres. Individual seams up to 5.1 metres in thickness have been recorded.
- WORK DONE:** Eighteen diamond-drill holes, totalling 12 998 metres, were drilled and the core logged, sampled, and surveyed by gamma-ray, neutron, density, and resistivity instruments. Geological mapping was conducted over 1 650 hectares at 1:10 000 and 316 hectares at 1:5000. Aerial

photograph and environmental surveys were carried out. Two trenches, each 72 metres, and three adits, totalling 698 metres, were excavated.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Northeast Coal Study, Report on Coal Resource Evaluation Studies, Jan. 1977, pp. 35, 36; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 224; 1976, p. E 221; 1977, p. E 271.

BP EXPLORATION (CANADA) LIMITED (SUKUNKA PROPERTY)

(Fig. E-1, NTS 93, No. 114)

LOCATION: Lat. 55° 10' Long. 121° 38' (93P/4E)
Sukunka River area, 58 kilometres south of Chetwynd, on the west slope of Bullmoose Mountain.

LICENCES: C.L. Nos. 3014 to 3023, 3025, 3026, 3028, 3033, 3038, 3089 to 3129, 3554 to 3557, 3559.

OWNER: BP EXPLORATION (CANADA) LIMITED, 335 Eighth Avenue SW., Calgary, Alberta.

DESCRIPTION: As the Gates only contains seams less than 1.5 metres, exploration has been concentrated on the Gething Formation (240 metres thick) where there are eight known coal seams, half of which are in the lower 45 metres of the formation. The two major seams are the Chamberlain and the Skeeter which lie in the upper half of the Gething. The Gething strata lie within a broad syncline bordered on the northeast by the Bullmoose fault complex. Two major thrust faults have dislocated the strata into three blocks.

WORK DONE: Ten diamond-drill holes, totalling 2 551 metres, and 20 rotary holes, totalling 5 050 metres, were drilled, logged, and sampled. The following geophysical logs were run: gamma ray, sidewall density, caliper, and neutron-neutron. Trenches, amounting to 153 metres, were excavated and sampled. Detailed and reconnaissance geological mapping was carried out at 1:5000.

REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Northeast Coal Study, Report on Coal Resource Evaluation Studies, Jan. 1977, pp. 26-30; *B.C. Ministry of Energy, Mines & Pet. Res.*, Coal in B.C., A Technical Appraisal, 1976, pp. 162, 163; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1975, p. E 226; 1977, pp. E 272, E 273.

MASTER EXPLORATION LTD. (SUKUNKA RIVER) (Fig. E-1, NTS 93, No. 115)

LOCATION: Lat. 55° 20' Long. 121° 40' (93P/4E, 5E)
Along the Sukunka River, immediately above its confluence with the Burnt River.

LICENCES: C.L. Nos. 3530 to 3533, 3535 to 3545, 3547 to 3549, 3551, 3552, 3608 to 3617.

OWNER: Master Exploration Ltd.
 OPERATOR: MANALTA COAL LTD., 320 Seventh Avenue SW., Calgary, Alberta T2P 0X5.
 DESCRIPTION: A northwest/southeast fault contact separates the Gates (down-faulted in the northeast) from the Gething. The former is reported to have a more complex structure, with dips ranging from 45 degrees to vertical, whereas beds in the latter dip more gently.
 WORK DONE: Eight rotary holes were drilled, with a total of 560 metres, and six of the holes were surveyed by gamma, long-spacing gamma, density, and caliper instruments. Some geological mapping was carried out.

TECK CORPORATION LTD. (BURNT RIVER PROJECT)

(Fig. E-1, NTS 93, No. 116)

LOCATION: Lat. 55° 20' Long. 121° 50' (93P/5W)
 On Burnt and North Burnt Rivers, 9 kilometres west of the Sukunka River.
 LICENCES: C.L. Nos. 3061 to 3088.
 OWNER: Brameda Resources Ltd.
 OPERATOR: TECK CORPORATION LTD., 1199 West Hastings Street, Vancouver.
 DESCRIPTION: The coal seams, some of appreciable thickness, occur in the Gething Formation. The main structural feature is a series of northwesterly trending folds, slightly asymmetrical with axial planes steeply dipping southwest. In the northeastern and eastern portions of the property, the strata are tightly folded, whereas in the southwestern half of the property a broader syncline extends in a northwesterly direction. There faults are known to occur with appreciable displacements.
 WORK DONE: Fifty-one diamond-drill holes, totalling 2 679 metres, were put down, and the core logged and sampled. Radiation logging of the holes consisted of gamma-ray, neutron-neutron, and sidewall density. Geological mapping was carried out at a scale of 1:10 000.
 REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1971, pp. 498, 499; *B.C. Ministry of Energy, Mines & Pet. Res.*, Exploration in B.C., 1977, p. E 273.

TELKWA COALFIELD

CYPRUS ANVIL MINING CORPORATION (TELKWA PROJECT)

(Fig. E-1, NTS 93, No. 117)

LOCATION: Lat. 54° 37' Long. 127° 08' (93L/11E)
 On Goathorn Creek, approximately 11 kilometres southwest of Telkwa.
 LICENCES: C.L. Nos. 3709, 3710, 3875 to 3885.

1978

Coal

OWNER: Bulkley Valley Coal Limited.
OPERATOR: CYPRUS ANVIL MINING CORPORATION, 330, 355 Burrard Street,
Vancouver V6C 2G8.
DESCRIPTION: The Telkwa Formation of the Hazelton volcanic rocks is overlain by the Lower Cretaceous Skeena Group in which the coal horizons occur. The four major seams are up to 4 metres in thickness. The sediments are gently folded along a northerly to northwesterly trending axis. The structure is complex with numerous, predominantly northwesterly faults with significant displacement. Often these fault planes are found to have been intruded by porphyritic dykes.
WORK DONE: Geological mapping, 1:10 000, was conducted. Six diamond-drill holes, totalling 651.7 metres, were sunk and the core sampled and logged.
REFERENCES: *B.C. Ministry of Energy, Mines & Pet. Res.*, Coal in B.C., A Technical Appraisal, 1976, p. 216; *B.C. Ministry of Energy, Mines & Pet. Res.*, GEM, 1974, p. 425.

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