

BRENDA MINES LTD.
EXPLORATION GROUP

PROSPECTING REPORT
on
MT. COPELAND PROPERTY

Northwest of Revelstoke, B.C.

N.T.S. 82M/1W

Latitude: $51^{\circ} 08'$, Longitude: $118^{\circ} 26'$

by

Del W. Ferguson

October, 1980

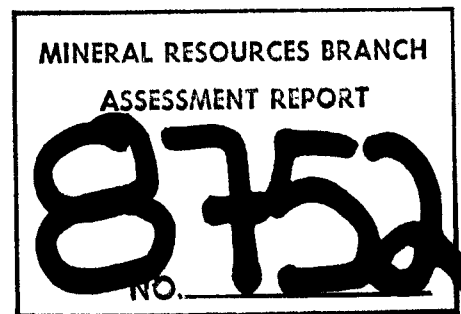


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I INTRODUCTION

a) History of Property

The Mt. Copeland property was originally located in 1964 as the Joan group by E.H. Ewar and Associates of Peachland, B.C. The claims were purchased by King Resources Company, who abandoned the original claims, relocating them in 1967 as the Knox group. Underground exploration commenced in September, 1967, and subsequent mine production began in July, 1970. Reserves at that time were estimated at 180,000 tons of 1.82% MoS₂. Production ceased in July of 1974 and the mine was officially closed in October, 1974.

Claims covering the main mineral showings were staked as the Hok, Crow and M1 claims in September, 1979, by Phoenix Resources Ltd. The BON 1, 2 and 3 claims were subsequently staked to the north and east of the mine by Brenda Mines Ltd. in September of 1979.

b) Topography & Vegetation

Mountain slopes, especially those facing north, are steep and treeless. Glaciers occupy most depressions on the north slopes. The highest peak is that of Mt. Copeland at an elevation of 8,400'. Copeland Creek, to the north of the mountain, is at an elevation of 5,000' at the western end of BON 3 claim. It descends to an elevation of 4,500' at the eastern boundary of the BON 3 claim. Hiren Creek, to the south of Mt. Copeland, descends along the southern boundary of BON 1 claim from an

elevation of 4,000' in the west, to 3,600' at the eastern boundary of the claim block. A small lake is situated in a depression, at 6,000' elevation, at the northwest end of the BON 1 claim.

The lower slopes of the valleys have dense growths of trees and shrubs. Outcrops become scarce below 5,500'. Tree line is near 7,300'.

II PROPERTY DESCRIPTION

a) Location and Access

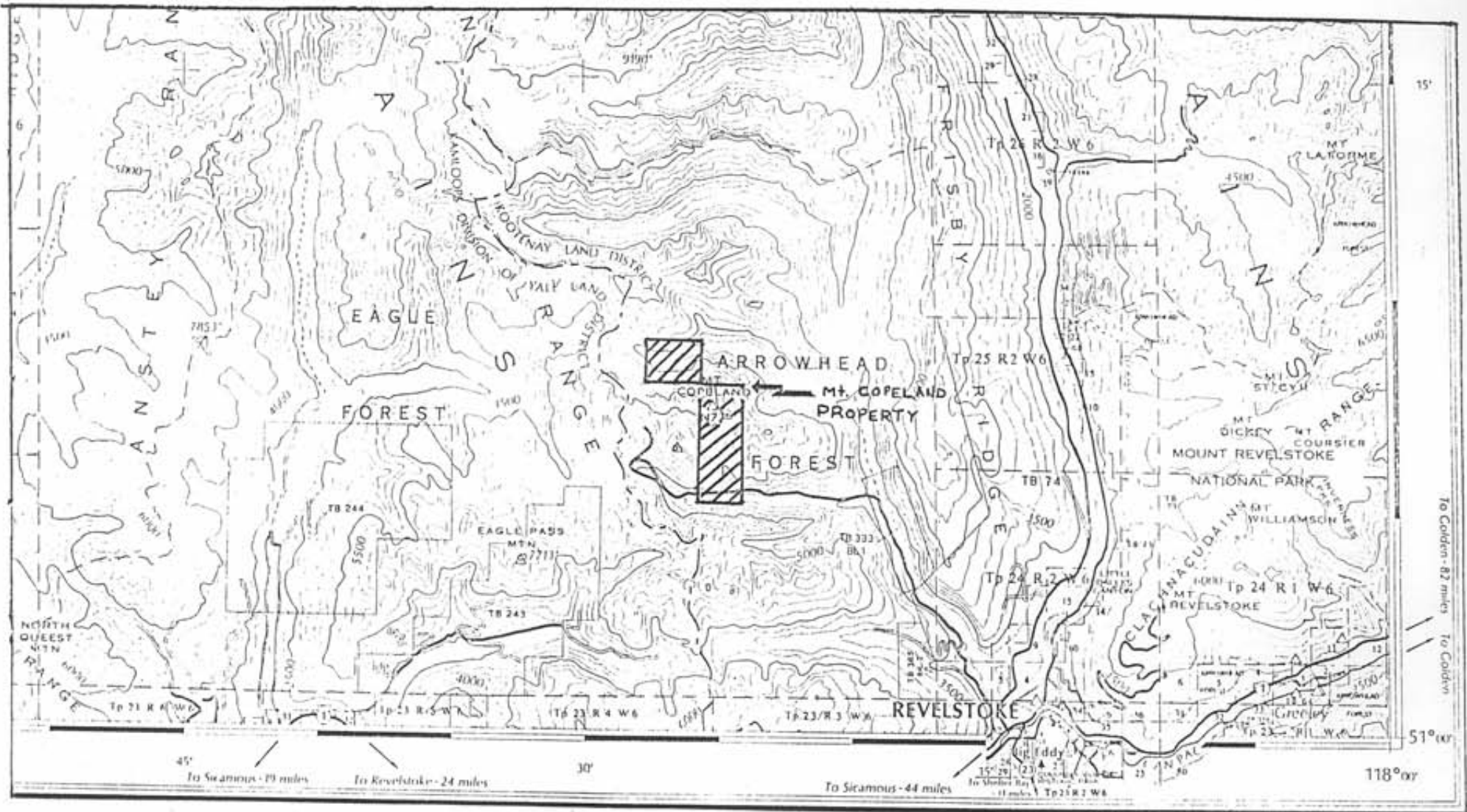
The Mt. Copeland property is situated in mountains 24 kilometres northwest of Revelstoke, B.C. The BON 1, 2 and 3 claims cover Mt. Copeland and extend north of Copeland Creek and south to Hiren Creek.

Access to the south of the property is via a logging and mining road from Highway No. 1, 2 miles west of Revelstoke, north along Jordan River and west up Hiren Creek. The rest of the property is accessible only by way of helicopter transport.

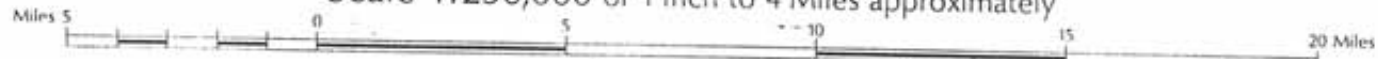
b) Claim Inventory

<u>Claim Name</u>	<u>Record No.</u>	<u>Units/ Type</u>	<u>Mining District</u>	<u>Assessment Date</u>
BON 1	772	20 MG	Revelstoke	Oct. 23, 1980
BON 2	773	20 MG	Revelstoke	Oct. 23, 1980
BON 3	774	20 MG	Revelstoke	Oct. 23, 1980

Figure 1 - Location Map



Scale 1:250,000 or 1 Inch to 4 Miles approximately



Scale of Kilometres

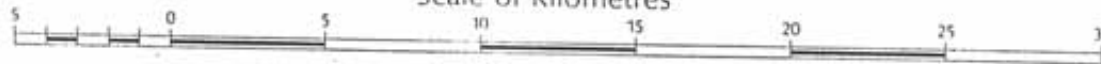
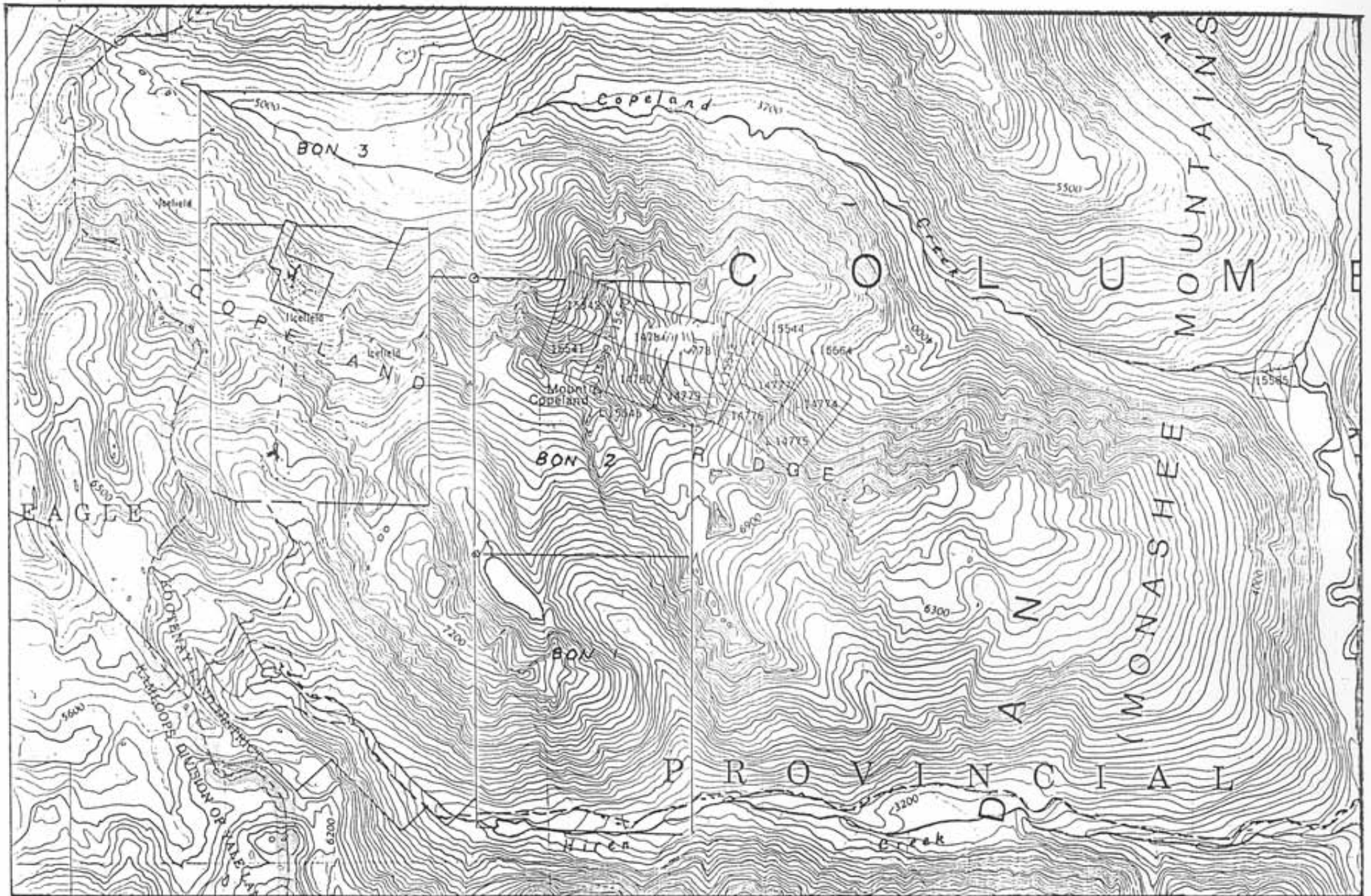
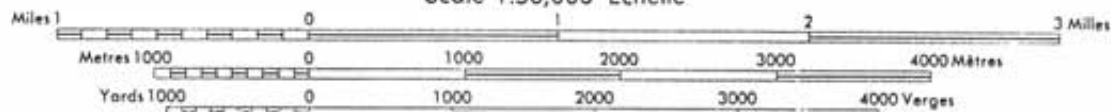


Figure 2 - Claim Map



Scale 1:50,000 Échelle



III GEOLOGY

Metasedimentary rocks underlying Copeland Ridge form part of a fringing zone around the Frenchman Cap gneiss dome centered 32 kilometres northwest of Revelstoke. The Frenchman Cap is one of a series of gneiss domes which occur along the eastern border of the Shuswap Metamorphic Complex. This Complex, first described by G.M. Dawson in the late 1800's, is a narrow belt of high-grade metamorphic rocks in the Columbian orogen of southeastern British Columbia.

The metasedimentary succession of the Mt. Copeland property comprises a series of units of biotite schist and grey gneiss, white quartzite, cal-silicate gneiss and marble, and grey gneiss. Concordant bodies of nepheline syentie gneiss occur with the cal-silicate gneiss (Fyles, 1970). The rocks have been metamorphosed and subjected to three phases of deformation.

IV WORK DESCRIPTION

Traverse No. 1 - August 23, 1980

Prospecting, geology and soil sampling along Hiren Creek road at the south end of BON 1 claim.

Outcrops along the south end of BON 1 claim consist predominantly of quartzites in the west and biotite schists and gneisses in the east. There are also a few outcrops of marble. Soil sampling was accomplished at 100 metre intervals uphill from the road, within the BON 1 claim.

Traverse No. 2 - August 24, 1980

Prospecting along north slope of Copeland Ridge covering BON 3 claim (Figure 4).

Disseminated molybdenite found in quartzite host 200 metres west of BON 3 S.E. corner post.

Numerous boulders hosting molybdenite, found on north slope. Some of these are believed to have originated from mine workings. No samples assayed.

Traverse No. 3 - August 25, 1980

Prospecting along south slope of Mt. Copeland over BON 1 and BON 2 claims (Figure 6).

Outcrops of mainly metasediments and gneisses. No mineralization found. No samples taken.

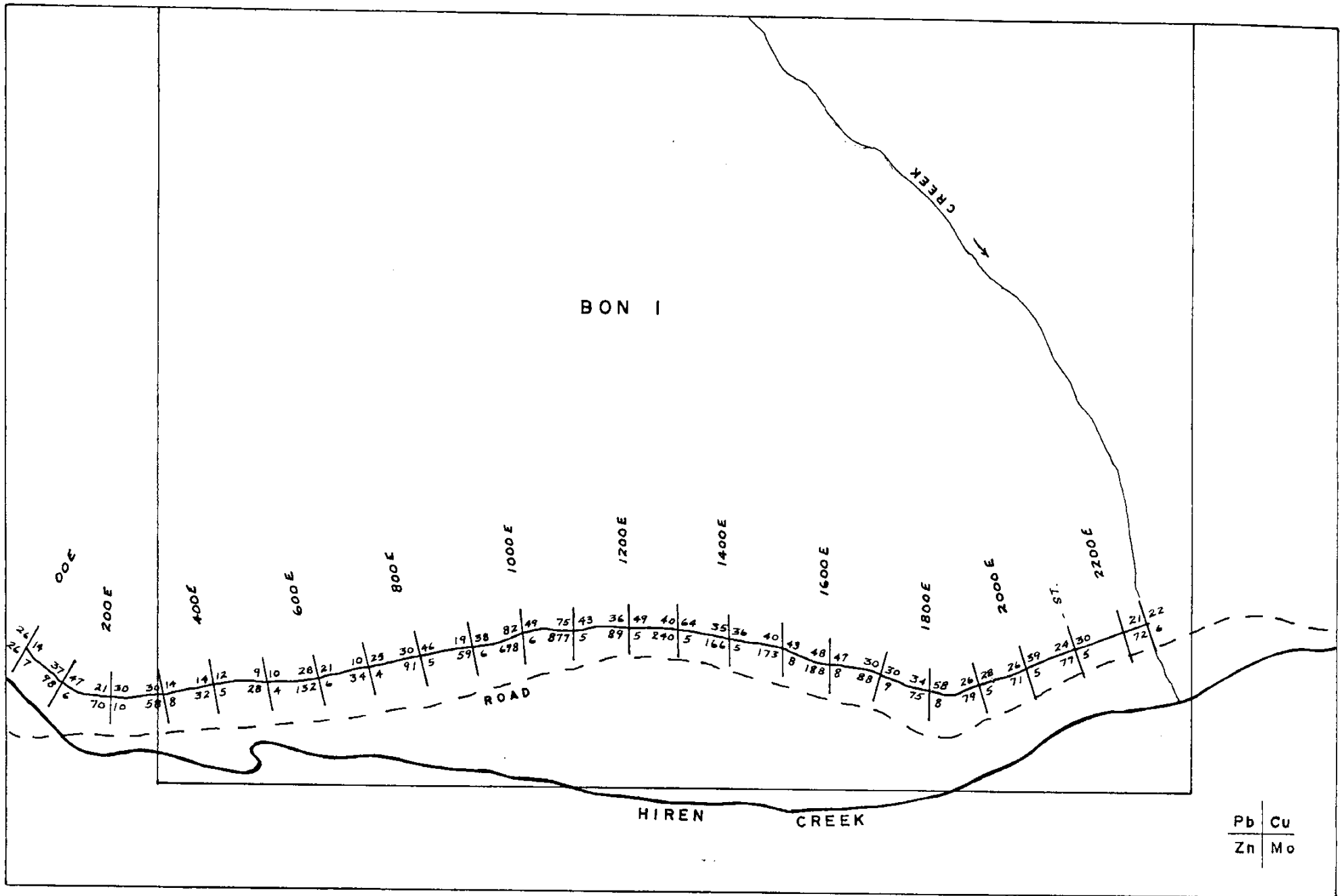
September 12, 1980

Property inspection by Chief Geologist.

V CONCLUSIONS

Claim boundaries of the Mt. Copeland property have been located and reconnaissance prospecting has commenced. It is recommended that more detailed geological and geochemical surveys be applied to these claims in the near future.

Figure 3 - Soil Geochem Survey



Scale: 1:100,000

Figure 4 - Traverse - Aug. 24, 1980

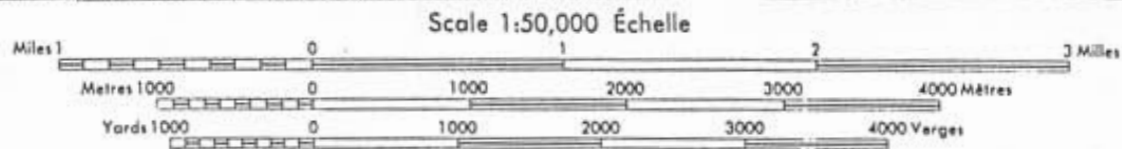
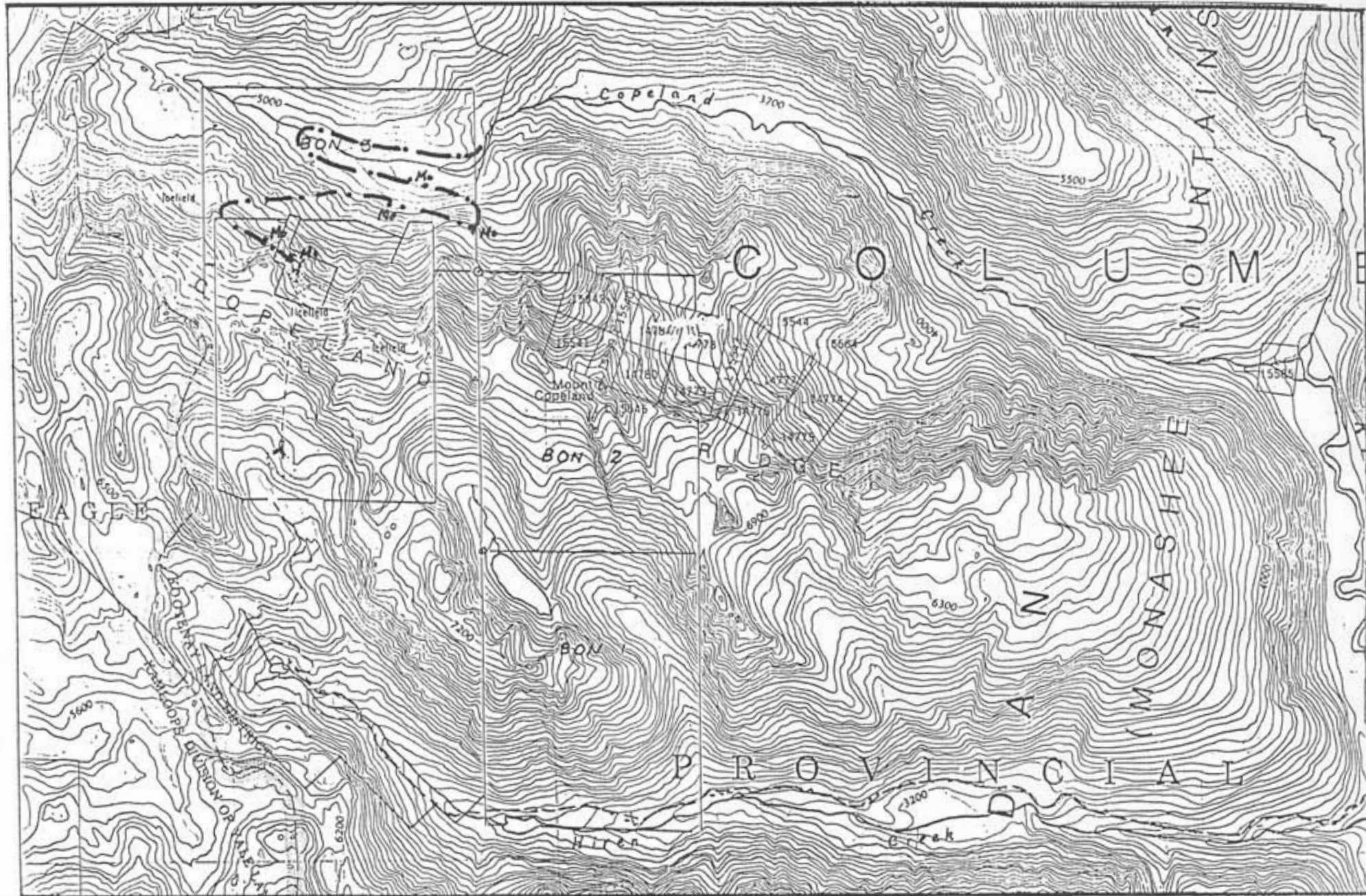
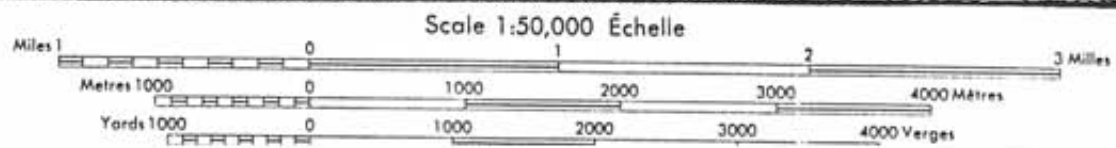
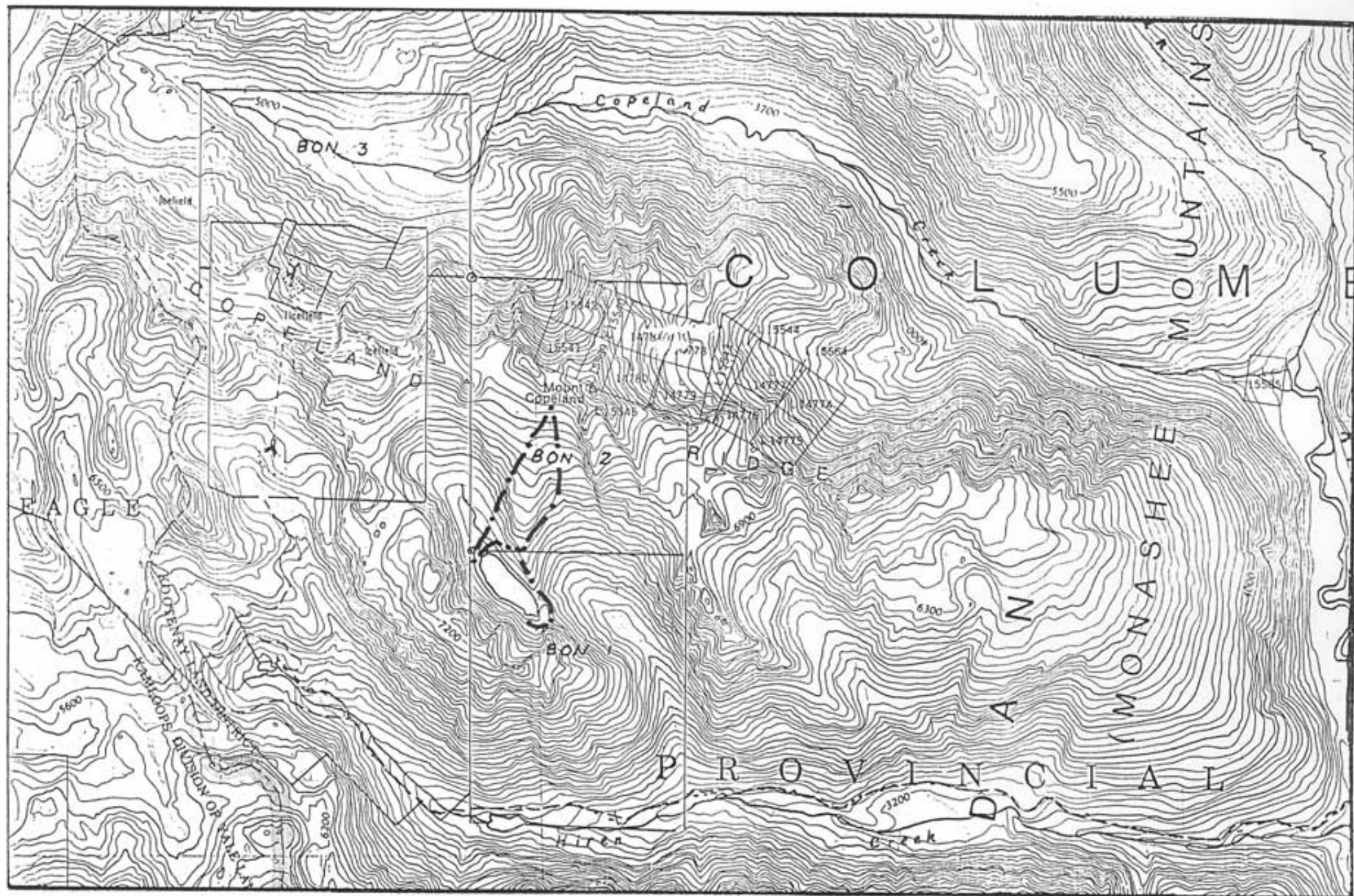


Figure 5 - Traverse - Aug. 25, 1980



STATEMENT of COSTS

1)	<u>Geological Prospecting & Sampling</u>	
	Aug. 22 to 26, 1980; 1 Chief Geologist @ \$110/day for 2 days	\$220.00
	1 Geologist @ \$90/day for 6 days	540.00
	1 Geological Technician @ \$60/day for 5 days	300.00
2)	<u>Contract Prospecting & Exploration - Mr. J. Irwin</u>	
	Aug. 22 to 26, 1980; 5 days @ \$100/day	500.00
	Telephone expenses	21.85
3)	<u>Helicopter Services</u>	
	Aug. 23, 24, 25, 1980; 3.3 hrs. @ \$350/hr.	1,155.00
	Fuel, 360 litres @ .29/litre	104.40
	Sept. 11, 1980; 4.5 hrs. @ \$260/hr.	1,170.00
	Fuel, 405 litres @ .38/litre	153.90
4)	<u>Accommodation</u>	
	Aug. 22 to 26 1980; 4 days for 2 men	170.38
5)	<u>Food</u>	
	Aug. 22 to 26, 1980; 5 days for 2 men	234.04
6)	<u>Field Supplies</u>	
	Aug. 22 - 26, 1980	29.09
7)	<u>Fuel Costs</u>	
	Aug. 22 to 26, 1980	30.20
8)	<u>Report Preparation</u>	
	1 Geologist @ \$90.00/day for 1 day	90.00
	Typing	50.00
	Total Cost	<u>\$4,768.86</u>

REFERENCES:

Fyles, J.T., 1970 - The Jordan River Area near Revelstoke,
B.C., B.C. Dept. of Mines & Pet. Res., Bul. No. 57.

15/9/80

8 - 90 - 24 - 08 SAMPLE ASSAY RECORD

F-23-08-80-12

SAMPLE DESCRIPTION

ROCK = RX SOIL = SL

SILT = ST ORGANIC = OR

BATCH NO. F-23-08-80-2

B.1

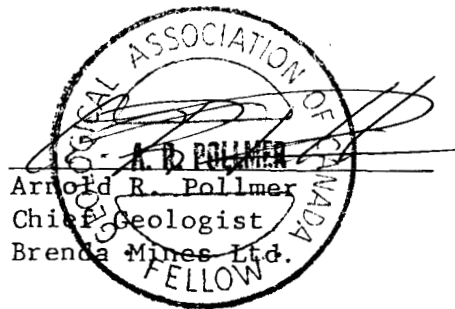
SAMPLE NUMBER	SAMPLE DESCRIPTION	ASSAY INSTRUCTIONS					REMARKS
		Cu	Pb	Zn	Mo	Ag	
5100S 0100E	S.L.D 11	14	26	26	7	<1	
1100E	12	47	37	98	6	1	
2100E	13	30	21	70	10	<1	
3100E	14	14	30	58	8	<1	
4100E	15	12	14	32	5	<1	
5100E	16	10	9	28	4	<1	
6100E	S.T. 17	21	28	132	6	<1	
7100E	S.L. 18	25	10	34	4	<1	
8100E	19	46	30	91	5	1	
9100E	20	38	19	59	6	<1	
10100E	21	49	82	698	6	1	
11100E	22	43	75	877	5	2	
12100E	23	49	36	89	5	1	
13100E	24	64	40	240	5	1	
14100E	25	36	35	166	5	1	
15100E	26	43	40	173	8	1	
16100E	27	47	48	188	8	1	
17100E	28	30	30	88	9	1	
18100E	29	58	34	75	8	1	
19100E	30	28	26	79	5	1	
20100E	31	39	26	71	5	1	
21100E	S.T. 32	30	24	77	5	1	
22+50E	S.L. 33	22	21	72	6	1	

retrieved 27/8/90

STATEMENT of QUALIFICATIONS

I, Arnold R. Pollmer of Peachland, Province of British Columbia,
do certify that:

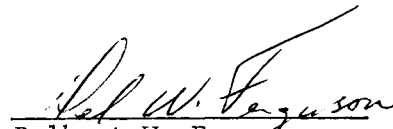
- 1) I have been employed as a geologist by Noranda Mines Limited from December 1973 to June 1977; I am presently employed as the chief geologist by Brenda Mines Ltd.
- 2) I am a graduate of the University of Wisconsin with a Bachelor of Science Degree in Geology (1972).
- 3) I am a member of the Canadian Institute of Mining and Metallurgy.
- 4) I am a fellow of the Geological Association of Canada.



STATEMENT OF QUALIFICATIONS

I, Delbert W. Ferguson of Peachland, Province of British Columbia, do certify that:

- 1) I am presently employed as an exploration geologist by Brenda Mines Ltd.
- 2) I am a graduate of the University of Western Ontario with an Honours Bachelor of Science Degree in geology (1979).


Delbert W. Ferguson
Exploration Geologist
Brenda Mines Ltd.

C. DRILLING

(Details in report submitted as per section 8 of regulations.)
 (The itemized cost statement must be part of the report.)

COST
8424

D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL

(Details in report submitted as per section 5, 6, or 7 of regulations.)
 (The itemized cost statement must be part of the report.)
 (State type of work in space below.)

.....	
TOTAL OF C AND D	

Who was the operator (provided the financing)?

Name

Address

Portable Assessment Credits (PAC) Withdrawal Request		AMOUNT
Amount to be withdrawn from owner(s) account(s):		
Name of Owner		
(May be no more than 30 per cent of value of the approved work submitted as assessment work in C and (or) D.)	1.	
	2.	
	3.	
	4.	
TOTAL WITHDRAWAL		
TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL		

I wish to apply \$ of this work to the claims listed below.

(State number of years to be applied to each claim, its month of record, and identify each claim by name and record no.)

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.....

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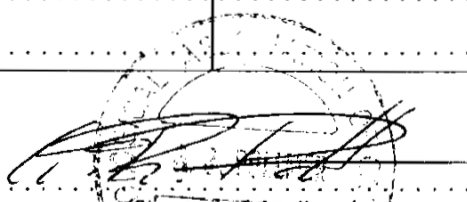
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Value of work to be credited to portable assessment credit (PAC) account(s).

(May only be credited from the approved value of C and (or) D not applied to claims.)

		Name	AMOUNT
In owner(s) name.	1.		
	2.		
	3.		
In operator(s) name (party providing the financing).	1.		
	2.		
	3.		


 (Signature of Applicant)
