

84 #492 (a) # 12410
7/85

PROSPECTING

ASSESSMENT REPORT

on the

BEAR PROPERTY

New Westminster Mining Division - British Columbia

Lat. $121^{\circ} 15' W.$

Long. $49^{\circ} 11' N.$

N.T.S. 92H/3 E

for

SUECON DEVELOPMENT CORPORATION

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

by **12,410**

Donald G. Allen, P. Eng. (B. C.)

July 9, 1984

Vancouver, B. C.

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SUMMARY

Suecon Development Corporation holds four claims, BEAR 1 to 4 (two-post claims), 26 kilometres southeast of Hope, B. C. The property lies in the Cascade Mountains at the headwaters of Sumallo River and is accessible via the Hope-Princeton Highway and logging roads. Widespread zinc-lead±copper±silver±gold mineralization occurs in float in the claim area.

The BEAR property is underlain by greenstone and chert of Hozameen Group (Late Paleozoic age).

The fracture-controlled nature of mineralization on the BEAR property, proximity to a quartz diorite stock of Miocene age, and proximity to the CANAM Copper deposit, 16 kilometres to the east (18 million tons grading 0.8% Cu in a breccia pipe), indicate that the BEAR prospect may be related to a number of base metal, precious metal and porphyry copper and molybdenum deposits of Miocene age that occur throughout the Cascade Mountains of B. C. and Washington. A program of geological mapping, geochemical sampling and diamond drilling is recommended to evaluate the property.

CONCLUSION

The occurrence of widespread mineralized float on the BEAR claims, nature of mineralization, proximity to CANAM Copper, all suggest excellent exploration potential. An exploration program is warranted to evaluate the property.

RECOMMENDATION

A three-stage program of surface exploration and diamond drilling is recommended to evaluate the BEAR property. Stage I will consist of geological mapping, prospecting and geochemical sampling on and around the claim block. Additional claims should be staked prior to this work. Should results of Stage I be favourable, then Stage II and III programs of preliminary and follow up drilling are recommended. Estimated costs of Stages I, II, and III are \$20,000, \$30,000, and \$43,000, respectively, for a grand total of \$93,000.

Donald G. Allen

ESTIMATED COSTS OF RECOMMENDATIONSStage I Geological mapping, prospecting, geochemical sampling.

Salaries

Geologist	1 mo. @ \$6,000	\$ 6,000
Assistant - soil sampler	1 mo. @ \$3,000	3,000
Room and board	60 man days @ \$35	2,100
Vehicle rental and expense		2,000
Material and supplies		1,000
Geochemical analyses and assay		2,000
Report, maps		<u>2,000</u>
		\$18,100
	Contingencies	<u>1,900</u>
	Total	\$20,000

Stage II Preliminary diamond drilling.

Drill site preparation	50 hrs. @ \$100 all incl.	\$ 5,000
Diamond drilling	200 metres @ \$100 all incl.	20,000
Engineering, supervision, assays		<u>2,800</u>
		\$27,500
	Contingencies	<u>2,500</u>
	Total	\$30,000

Stage III Follow up diamond drilling.

Drill site preparation and/or helicopter support		\$ 5,000
Diamond drilling	300 metres @ \$100	30,000
Engineering, supervision, assays		<u>3,500</u>
		\$38,500
	Contingencies	<u>4,500</u>
	Total	\$43,000
	Grand total	\$93,000

INTRODUCTION

SUECON DEVELOPMENT CORPORATION holds four claims, BEAR 1 to 4, in the Hope-Princeton area of southwestern British Columbia. The claims cover lead-zinc+copper± silver±gold mineralization in fractured volcanic rocks of the Late Paleozoic Hozameen Group.

This report summarizes results of a property examination carried out by the writer on July 18, 1983. Poor weather conditions coupled with difficult terrain covered with logging debris, prevented a complete evaluation of the property. However, sampling of float on logging roads in a slide area and in stream beds yielded encouraging results.

LOCATION, ACCESS, PHYSIOGRAPHY

The BEAR property is situated 26 kilometres southeast of Hope, British Columbia (figure 1), on the west fork of the headwaters of Sumallo River. It lies in the Cascade Mountains between elevations 3,700 and 5,000 feet. Topography in the area ranges from precipitous on mountain slopes to gentle on the valley bottom. Lower valley slopes have been logged in recent years and are covered with logging debris and a young growth of hemlock, cedar and slide alder.

Access is via the Hope-Princeton Highway to Sumallo River and thence by logging roads up the Sumallo River valley (figure 2).

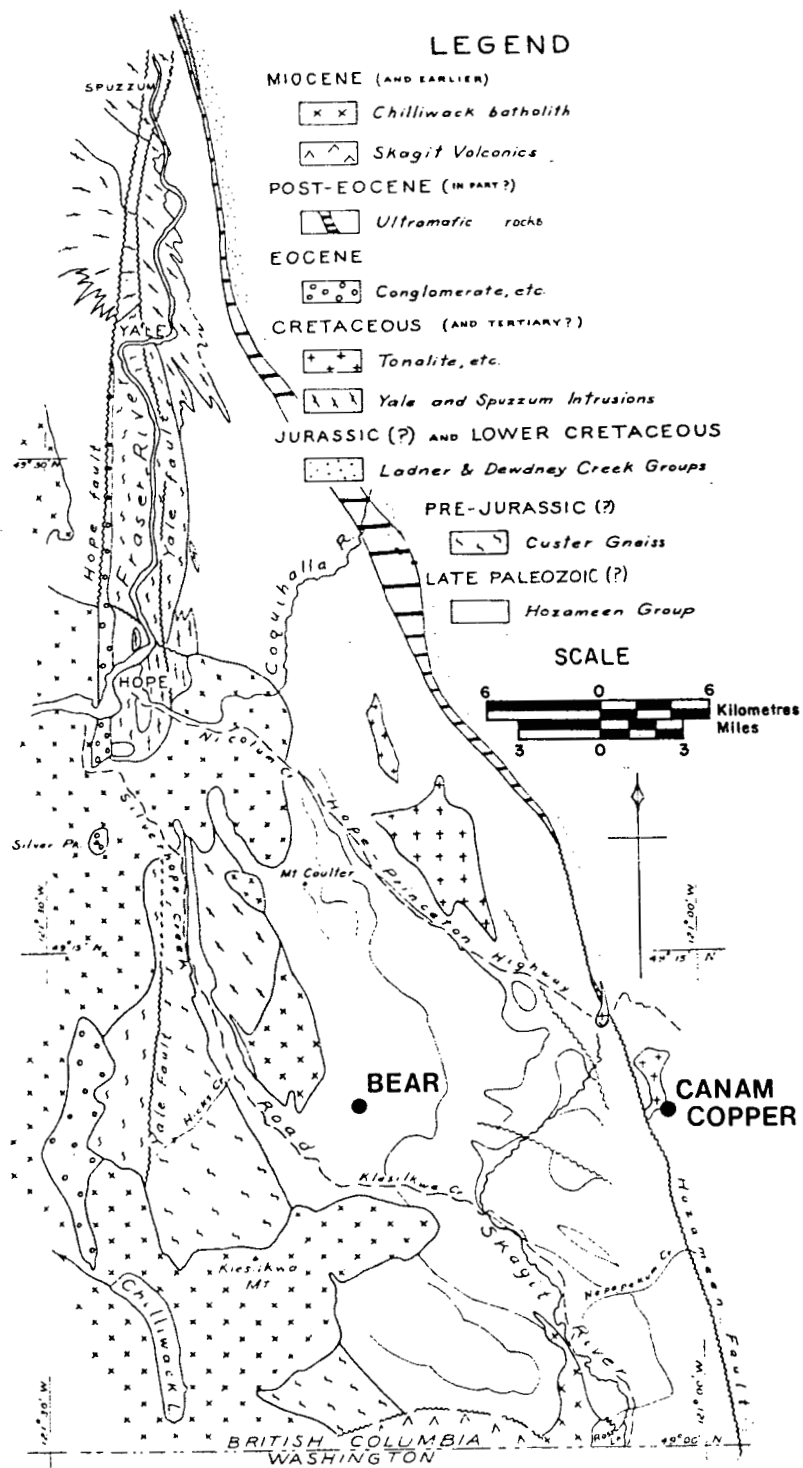


Figure 1. Location and regional geology map (geology after McTaggart and Thompson, 1967)

CLAIMS

The Bear property comprises four two-post claims and one 16 unit modified grid claim as follows:

<u>Claim Name</u>	<u>Record No.</u>	<u>Expiry Date</u>
Bear 1	1257	July 13, 1984
Bear 2	1258	July 13, 1984
Bear 3	1259	July 13, 1984
Bear 4	1260	July 13, 1984
Bear II	2212	August 24, 1984

Claim boundaries of the Bear 1 to 4 as shown on Figure 3, taken from Ministry of Mines claim map 92H/3E, are not accurate. The actual positions are plotted on Figure 5.

HISTORY

There is no record of any mineral exploration on the BEAR claims or immediate area. However, some diamond drilling is reported by T. Conway to have been carried out.

GEOLOGY

Regional Geology

The BEAR claims are situated in the Hope area (92H west), the geology of which has been summarized by Monger (1970). The geology of the Cascade Range immediately to the north and southeast of Hope has been described by McTaggart and Thompson (1967) as follows (see Figures 1 and 4):

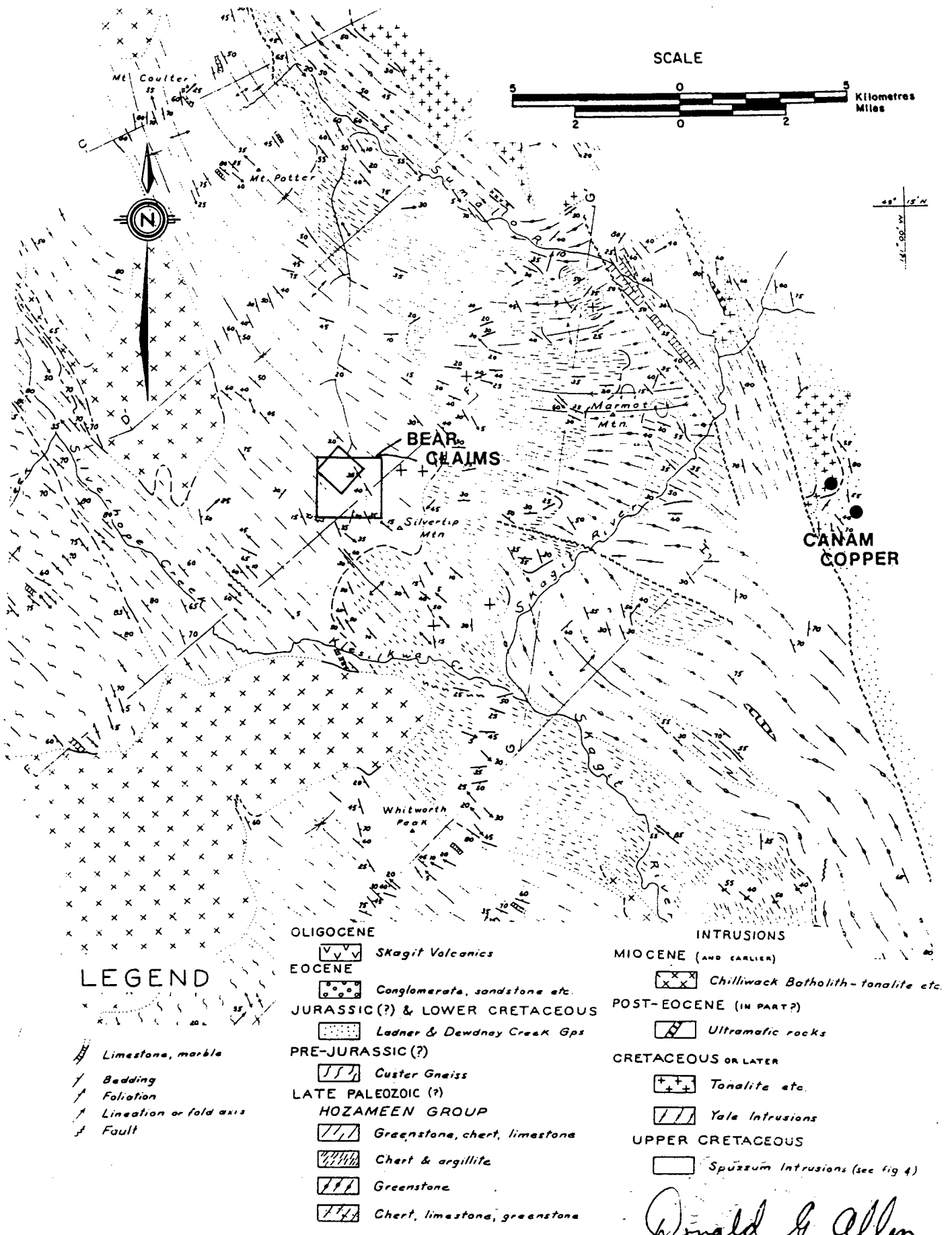
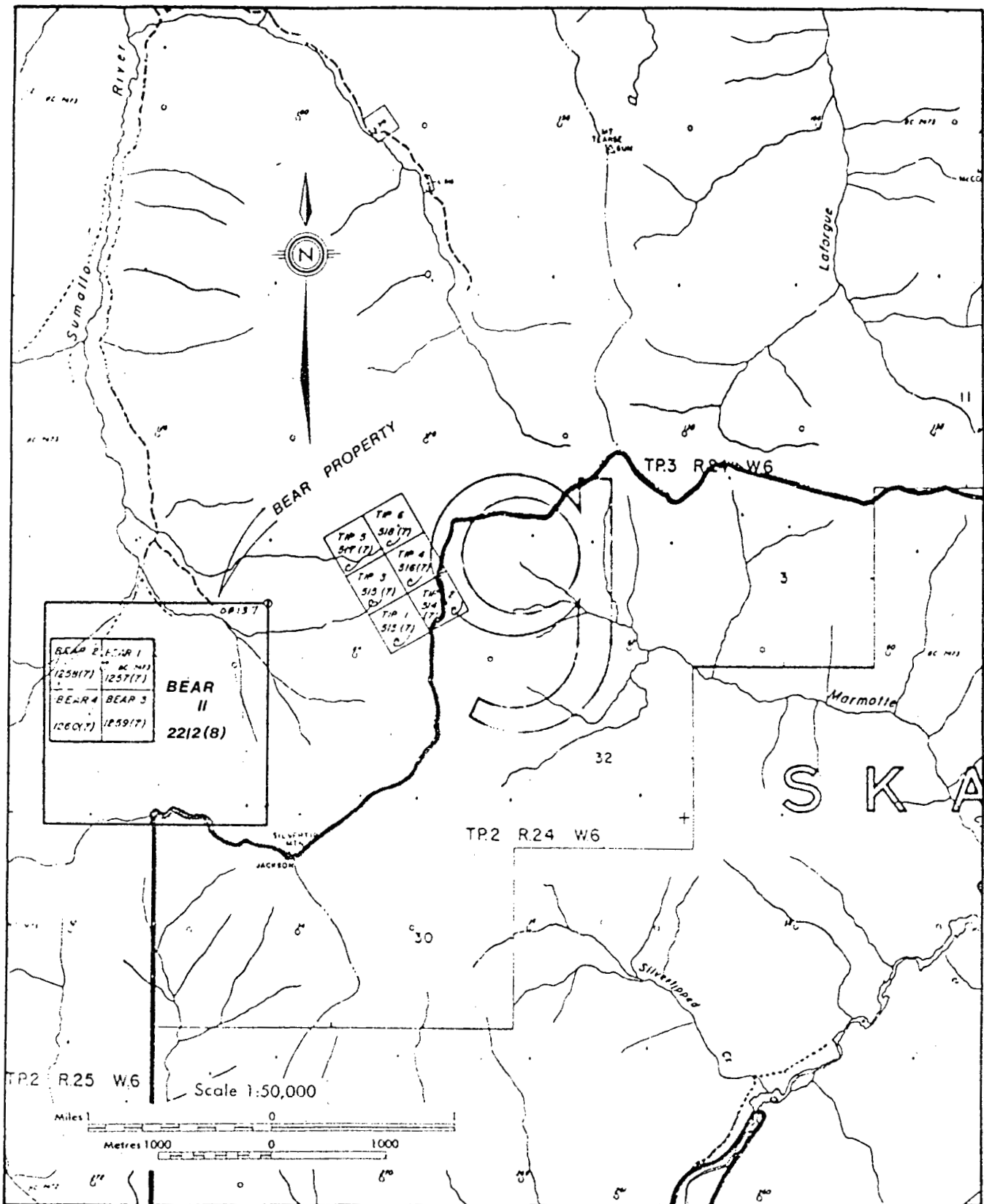


Figure 2. Geological map of area southeast of Hope (geology after McTaggart and Thompson, 1967)



SUECON DEVELOPMENT CORPORATION

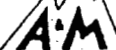
N.T.S. 92 H/3E

CLAIM MAP

BEAR CLAIMS

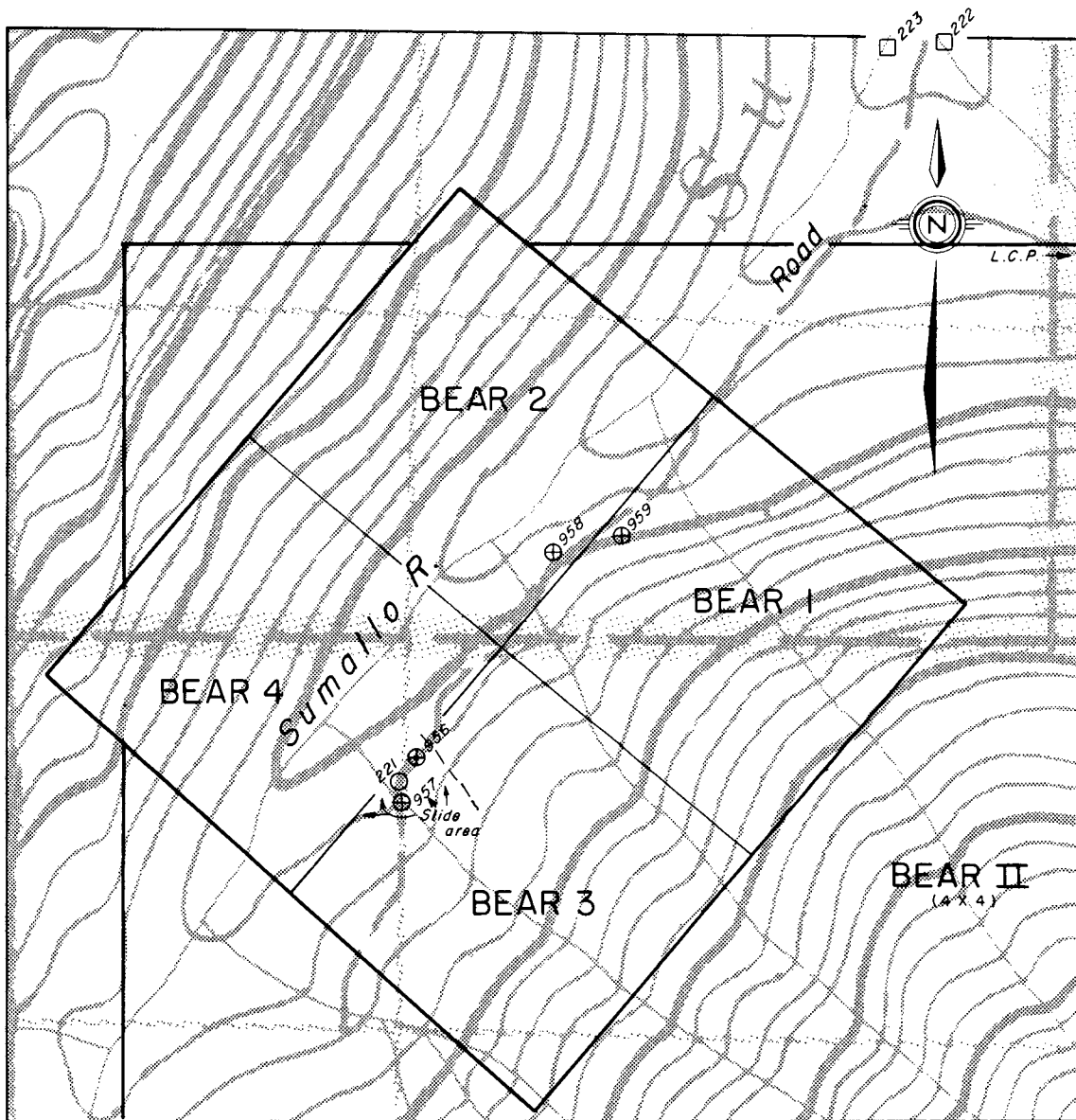
New Westminster Mining Division - British Columbia

Donald J. Allen



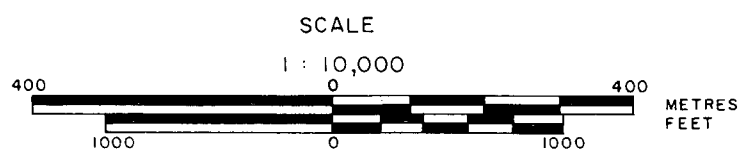
exploration Ltd

Figure 3



LEGEND

- ⊕ 956 Rock chip sample, sample number.
- 222 Silt sample site, sample number.
- 221 Soil sample site, sample number.
- └ Claim boundary.



SUECON DEVELOPMENT CORPORATION
BEAR PROPERTY

NEW WESTMINSTER MINING DIVISION - BRITISH COLUMBIA

CLAIMS & SAMPLE SITES



Figure 5

"The late Paleozoic (?) Hozameen Group consists of four divisions composed of various proportions of ribbon chert, basic lavas (now greenstones), limestone, and argillite, totalling at least 20,000 ft in thickness. In late Paleozoic or Triassic time, these rocks were metamorphosed to form the Custer Gneiss, a high-grade migmatitic complex of layered gneiss and schist. A second episode of high-grade regional metamorphism in Late Cretaceous time is associated with the emplacement of the Spuzzum Intrusions. This was followed by the Yale Intrusions (mainly foliated granodiorite), deposition of Eocene conglomerate and sandstone, and intrusion of Chilliwack batholithic rocks (mainly tonalite), which are partly of Miocene age. Several periods of deformation, some associated with the orogenies mentioned above, produced fold axes trending northwest, northeast, and northerly. The area contains three main fault zones. One separates the Custer Gneiss from its overlying cover of Hozameen rocks. A second, the Hozameen fault, separates the Hozameen beds from Mesozoic formations to the east and contains the 'serpentine belt'. The third, the Fraser River fault zone, is represented by the Hope and Yale faults."

Plutonism of Miocene to Oligocene age was accompanied by extensive vulcanism (Skagit formation, figure 4) and mineralization in the Cascade Range. A number of impor-

tant base, precious metal, and porphyry copper and molybdenum deposits in B. C. and Washington State are associated with these young rocks including the CANAM copper and Clear Creek molybdenum deposits. The CANAM copper deposit, a breccia pipe mineralized with copper and minor amounts of gold, silver, tungsten and uranium, lies 16 kilometres to the east of the BEAR property.

Property Geology and Mineralization

According to McTaggart and Thompson (1967), the headwaters of the Sumallo River are underlain by greenstone, chert and limestone of the Hozameen Group (figure 4). Bedding in these units strike northwesterly and dip moderately to the southwest. A quartz diorite stock of Miocene age outcrops four kilometres to the west. Rock types observed by the writer in the claim area include light green greenstone, tuff and chert. Fractured greenstone containing veinlets of pyrrhotite with or without quartz tremolite, sphalerite, and chalcopyrite (samples 955 to 959) were observed in float over a wide area. Also observed in float was a 1-2 cm wide quartz vein containing galena, sphalerite and minor amounts of chalcopyrite (sample 957, figure 5).

The fracture controlled nature of mineralization on the BEAR claims suggests a comparison with the widespread mineralized fractures and breccias on the CANAM copper property (White, 1949; Bacon, 1954; Eastwood, 1965).

Results of assay and geochemical analysis of mineralized

float are presented in part below and in Appendix I. One soil sample, S221, and two silt samples, S222 and S223, were collected from the claim area. Of note are anomalous values of silver (0.6-0.8 ppm), lead (42-66 ppm), zinc (134-1100 ppm), and copper (80-152 ppm) in all samples.

TABLE I - ROCK DESCRIPTIONS AND ANALYTICAL RESULTS

Sample No.	Description	Cu %	Zn %	Analyses*		oz./ton Au
				Pb %	oz./ton Ag	
955	Greenstone float - continuing seams of pyrrhotite, sphalerite and tremolite.	0.03	1.15			
956	Greenstone with abundant pyrrhotite	0.03	0.03			
957	Qtz. vein float with galena, sphalerite, minor chalcopryrite.	0.18	1.94	5.0	2.92	0.035
958	Greenstone - veined with pyrrhotite	0.02	0.39			
959	Greenstone containing veinlets pyrrhotite±quartz, chalcopryrite and sphalerite	0.04	0.52			

* In part, converted from geochemical values reported in ppm.

EXPLORATION POTENTIAL

Widespread zinc-lead mineralization and anomalous geochemical results from both the east and west tributaries of Sumallo River suggest good exploration potential. Target types are mineralized breccia pipes of the CANAM type and/or vein type base metal deposits with associated precious metals.

Donald L. Allen

REFERENCES

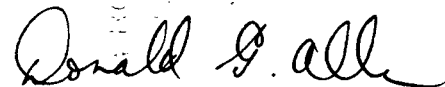
- Bacon, W.R. (1954). A. M. in B.C. Dept. of Mines Annual Report for 1954, pp. A152-159.
- Eastwood, G.E.P. (1965). A. M. and Invermay, in B.C. Dept. of Mines Annual Report for 1965, pp. 206-213.
- McTaggart, H.C. and Thompson, R.M. (1967). Geology of Part of The Northern Cascades in Southern British Columbia. Canadian Journal of Earth Sciences, Vo. 4, pp. 1199-1228.
- Monger, J.W.H. (1970). Hope Map Area, West Half, B.C. Geological Survey of Canada, Paper 69-47.
- White, W.H. (1949). A. M. in B.C. Dept. of Mines Annual Report for 1949, pp. A210-213.

CERTIFICATE

I, Donald G. Allen, certify that:

1. I am a Consulting Geological Engineer, resident at 4570 Hoskins Road, North Vancouver, British Columbia.
2. I am a graduate of the University of British Columbia with degrees in Geological Engineering (B.A.Sc., 1964; M.A.Sc., 1966).
3. I have been practising my profession since 1964.
4. I am a member in good standing of the Association of Professional Engineers of British Columbia.
5. This report is based upon a property examination carried out personally on July 18, 1983 and upon information listed under References.
6. I hold no interest, nor do I expect to receive any, in the BEAR claims or in Suecon Development Corporation.
7. I consent to the use of this report in a Statement of Material Facts or in a Prospectus in connection with raising of funds for the project covered by this report.

July 9, 1984
Vancouver, B.C.



Donald G. Allen,
P. Eng. (B.C.)

APPENDIX I
GEOCHEMICAL RESULTS

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

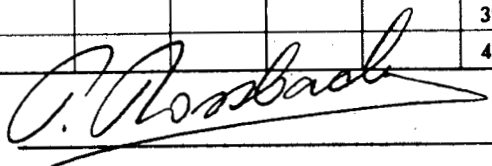
TO: **A & M EXPLORATION LTD.**
4570 HOSKINS ROAD

CERTIFICATE NO. **83275-1**
INVOICE NO. **3212**
DATE ANALYSED **AUG. 3, 1983**
PROJECT **BEAR CLAIMS**

NORTH VANCOUVER, B.C. V7K 2R1

No.	Sample	pH	Mo	Cu	Hg	Zn	Pb	PPB Au					No.
01	83-1-955			302	0.4	11,500	10	10					01
02	83-1-956			266	0.4	284	6	10					02
03	83-1-957			1,840	80.0	16,500	42,000	1,100					03
04	83-1-958			198	0.6	3,900	74	10					04
05	83-1-959			380	1.0	5,200	16	10					05
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VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by 

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

A & M EXPLORATION LTD.

TO: 4570 HOSKINS ROAD
NORTH VANCOUVER, B.C. V7K 2R1

CERTIFICATE NO. 83275-2

INVOICE NO. 3212

DATE ANALYSED AUG. 5, 1983

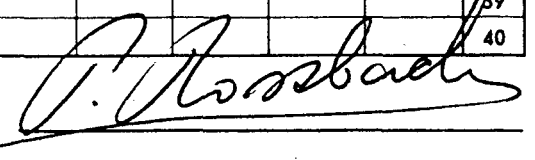
PROJECT BEAR CLAIMS

PDB

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	Au					No.
01	83BAS221			152	1.8	1,100	250	10					01
02	83BAS222			86	1.2	194	42	10					02
03	83BAS223			80	0.6	134	66	10					03
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VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by



Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 83275-3

TO: A & M EXPLORATION LTD.
4570 Hoskins Rd.
North Vancouver, B.C.

INVOICE NO. 3212

DATE RECEIVED

DATE ANALYSED July 28, 1983

ATTN: Bear Claims

SAMPLE NO.:	% Pb	% Zn	oz/T Ag
83-1-957	5.00	1.94	2.92

Certified by

J. Rossbach

APPENDIX II
AFFIDAVIT OF EXPENSES

AFFIDAVIT OF EXPENSES

This will certify that geological mapping and geochemical sampling was carried out on July 18, 1983 on the BEAR 1 to 4 claims, Sumallo River area, New Westminster Mining Division, British Columbia, to the value of the following:

Salaries

D. G. Allen and E. Ascroft		\$ 700.00
Assays		83.55
Room and board		23.92
Vehicle expense and gas		56.67
Report, typing, draughting, compilation	15 hrs. @ \$15	225.00
Maps, photocopying		58.95
		<hr/>
		\$1,148.09

Donald G. Allen
P. Eng., B. C.