

84-1068-12987
11/85

SOIL AND ROCK GEOCHEMISTRY
MONTREAL MINERAL CLAIM
SLOCAN MINING DIVISION
CRUSADER CREEK, B.C.
NTS 82 F/14 W
LATITUDE 49°47'N, LONGITUDE 117°20'W

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,987

Locke B. Goldsmith, P.Eng.
Consulting Geologist

November 5, 1984

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APPENDIX: GEOCHEMICAL ANALYSES

SOIL AND ROCK GEOCHEMISTRY MAP

(Pocket inside back cover)

SOIL AND ROCK GEOCHEMISTRY
MONTREAL MINERAL CLAIM
SLOCAN MINING DIVISION
CRUSADER CREEK, B.C.

SUMMARY

Two soil samples contain geochemically anomalous amounts of silver. Detailed soil sampling in the vicinity of these samples is recommended at an estimated cost of \$5,830.00.

INTRODUCTION

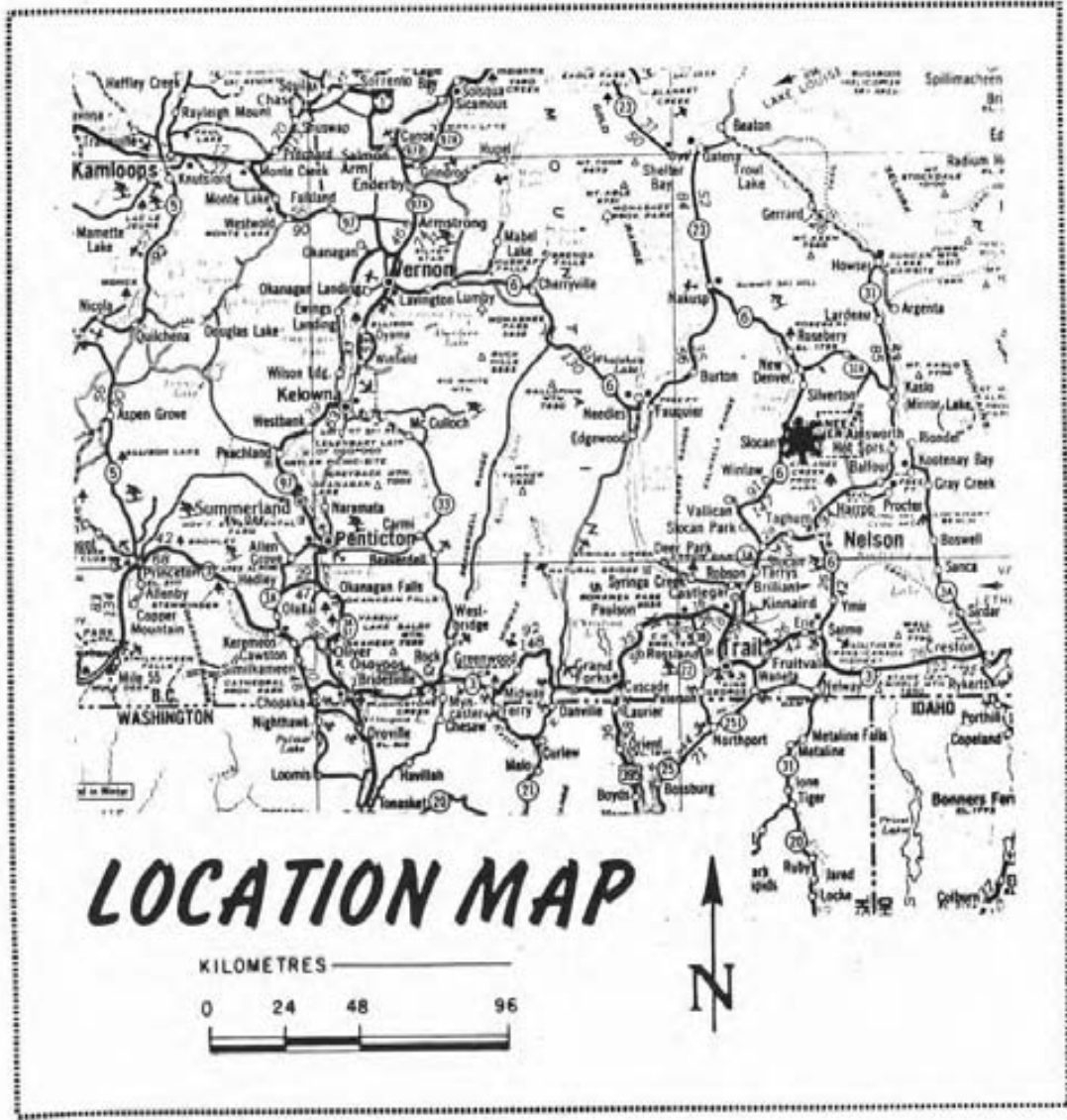
The Montreal reverted crown-granted mineral claim, L3328, record number 3856(5), recorded May 9, 1983, is located 10 km at 080° Az. from the village of Slocan, B.C., at elevation 2010 m (6600'), on the crest of the divide between Crusader Creek and a southern tributary of Springer Creek. Elevations within the property range from 1980 m (6500') to 2100 m (6900'). Best access is from Highway 6 easterly along the Lemon Creek forest access road, a branch of which turns northerly and follows Crusader Creek to the Slocan Prince mine. The road continues past the Slocan Prince dumps through the eastern and northern portions of the Montreal claim, but dozer work has rendered it impassable by 4-wheel drive vehicle. A small amount of repair with a dozer on 50 metres of disturbance would restore the access for the final 400 metres.

The claim was originally part of the Two Friends and Black Prince group (Cairnes, 1935, p. 187) and presumably was explored during the early productive period of the property. Old overburden pits and trenches trend 020° - 025° in at least 5 zones. More recent dozer trenching has been done in the vicinity of 1+00 S, 1+00 W, and 3+00 S, 0+75 W. These excavations were probably dug in a search for extensions of the "South" lode from the Black Prince claim; this structure trends 020° - 030° , 60° NW. Production to 1922 from the group is quoted as 1608 tons grading 156 oz Ag/ton and about 5% Pb (Cairnes, 1935, p. 187).

A total of 41 soil samples and two rocks samples was analysed. Sampling was performed and supervised by the author. Approximately 2 km of grid were established.

GEOLOGY

The claim and surrounding area are underlain by porphyritic granodiorite. In the northwestern corner of the grid (00, 4+00 W) the granodiorite is less porphyritic and contains bands or fragments of mafic rock which are stretched into elongate elliptical shapes. A shear or crush zone at 0+30 S, 2+15 W trends 020° , 85° - 90° NW. An adit has been driven southerly on this structure but the portal is completely sloughed.



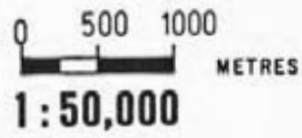
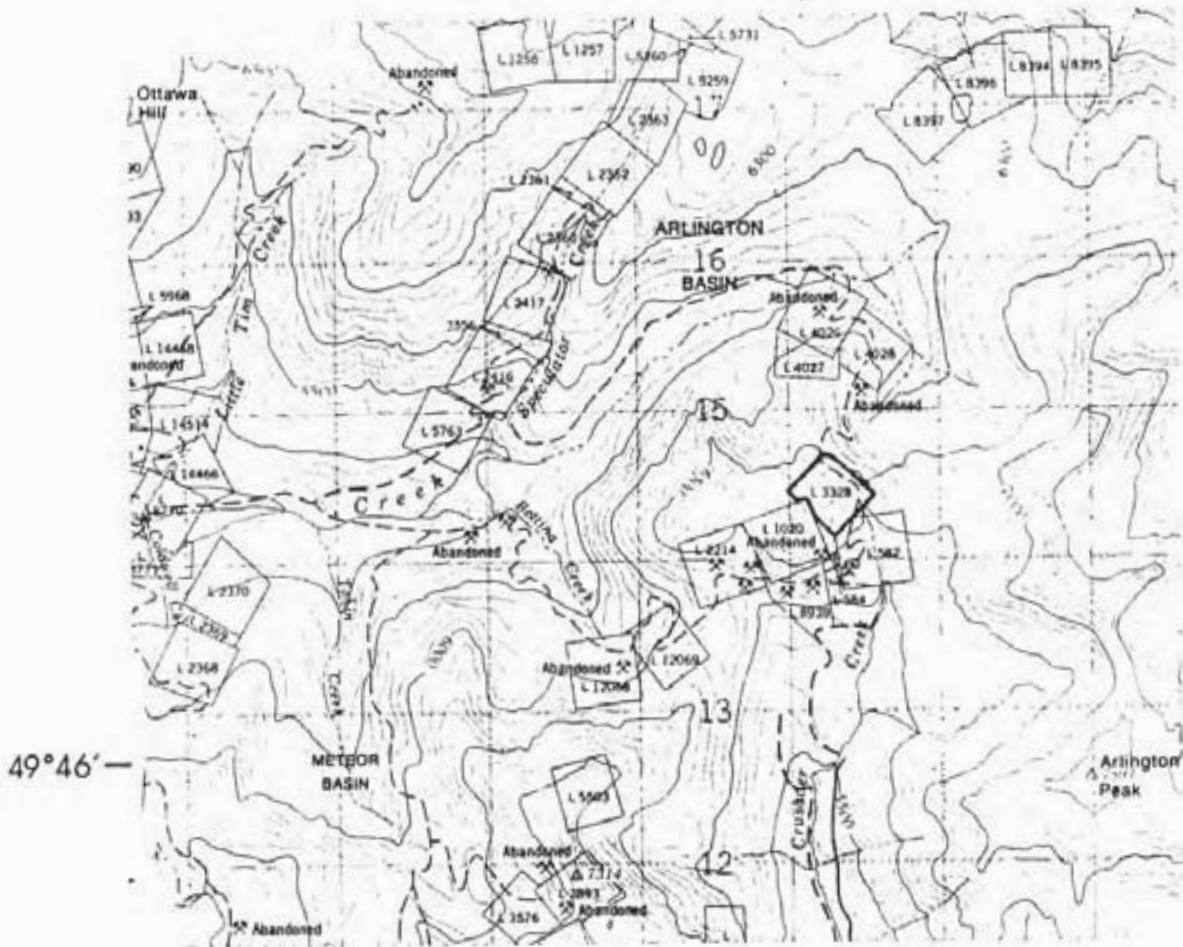
MONTREAL
MINERAL CLAIM

CRUSADER CREEK AREA SLOCAN MINING DIVISION
L3328 RECORD NUMBER 3856 (5)
NTS 82F/14W



LOCKE B. GOLDSMITH, P.Eng.
CONSULTING GEOLOGIST

ARCTEX ENGINEERING SERVICES
NOVEMBER 1984



CLAIM MAP

MONTREAL
MINERAL CLAIM

CRUSADER CREEK AREA SLOCAN MINING DIVISION

L3328 RECORD NUMBER 3856 (5)

NTS 82F/14W

LOCKE B. GOLDSMITH, P.Eng.
CONSULTING GEOLOGIST



ARCTEX ENGINEERING SERVICES
NOVEMBER 1984

SOIL AND ROCK GEOCHEMISTRY

Base line for the grid was established at 040° Az. with crosslines at 310°. Line spacing is 100 metres with sample intervals at 50 metres. Samples were taken with a narrow, elongate spade at a depth of 20 cm below the organic debris. Soils are uniformly red to brown, sandy to silty, as is typical of residual development above porphyritic granodiorite in the vicinity.

Analyses for silver and lead were performed by Loring Laboratories Ltd., 629 Beaverdam Rd. N.E., Calgary, Alberta. Samples are screened to -80 mesh and 500 mg of the fine fraction is weighed into test tubes. Aquaregia is added and the sample is digested in a water bath at 100°C for three hours. Test tubes are then bulked to the 10 ml level, mixed, and allowed to settle overnight. The samples are then put through atomic absorption, with appropriate standards, and the results reported in parts per million.

Too few samples were collected to establish statistical levels of background, threshold, and anomalous values. However, from experience accumulated during years of soil sampling in areas underlain by porphyritic granodiorite in the immediate vicinity, values of 20 ppm Pb and 0.6 ppm Ag are the upper limits of a background population. Values of 3.0 ppm Ag at 00, 2+50 W and 2.0 ppm Ag at 00, 4+00 W are anomalous for the environment. Two rock samples did not contain anomalous lead or silver.

CONCLUSIONS

Preliminary soil sampling has defined two anomalous concentrations of silver. Shear or crush zones which were productive immediately south of the claim can be inferred to cross the property. Additional investigation is required.

RECOMMENDATIONS

Detailed soil sampling and geological mapping should be completed around the anomalous silver values. Hand trenching may be warranted subsequent to evaluation of the results.

COST ESTIMATE

Geological mapping	\$1000
Geochemical sampling, with grid	1000
Analyses	800
Trenching	600
Vehicle, supplies, room, board	500
Engineering, supervision	600
Report	<u>800</u>
	5300
Contingencies @ 10%	<u>530</u>
Total	\$5830

Respectfully submitted,



Locke B. Goldsmith

Locke B. Goldsmith, P.Eng.
Consulting Geologist

Vancouver, B.C.

November 5, 1984

ENGINEER'S CERTIFICATE

LOCKE B. GOLDSMITH

1. I, Locke B. Goldsmith, am a Registered Professional Engineer in the Province of Ontario and the Northwest Territories, and a Registered Professional Geologist in the State of Oregon. My address is 301, 1855 Balsam Street, Vancouver, B.C.
2. I have a B.Sc. (Honours) degree from Michigan Technological University and have done postgraduate study in Geology at Michigan Tech, University of Nevada and the University of British Columbia. I am a graduate of the Haileybury School of Mines and am a Certified Mining Technician. I am a member of the Society of Economic Geologists, the AIME, and the Australasian Institute of Mining and Metallurgy, and a Fellow of the Geological Association of Canada.
3. I have been engaged in mining exploration for the past 25 years.
4. I have authored the report entitled, "Soil and Rock Geochemistry, Montreal Mineral Claim, Slocan Mining Division, Crusader Creek, B.C.", dated November 5, 1984. The report is based upon fieldwork and research supervised by the author.
5. I control, with associates, 100% interest in the property.
6. I consent to the use of this report in a prospectus or in a statement of material facts related to the raising of funds.

Respectfully submitted,


*Locke B. Goldsmith*Locke B. Goldsmith, P.Eng.
Consulting GeologistVancouver, B.C.
November 5, 1984

REFERENCE

Cairnes, C.E. 1935. Description of Properties, Slocan Mining Camp, B.C.
G.S.C. Memoir 184, pp. 187-188.

ITEMIZED COST STATEMENT, 1984 PROGRAMME

Wage Scales:

L.B. Goldsmith, consulting geologist, Aug. 4, $\frac{1}{2}$ Sept. 15, $\frac{1}{2}$ Nov. 5, total 2 days @ \$360/day	\$ 720.00
G. Bennett, prospector, Aug. 4, total 1 day @ \$200/day	200.00

Food:

Total expenditure of \$11.00 = \$11.00/day	11.00
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Transportation:

4x4 vehicle, 1 day, \$45/day	\$45.00	
125 km @ \$0.30/km	37.50	
Gas	<u>10.75</u>	
	\$93.25	93.25

Analyses:

41 soil samples cost	\$151.15 = \$3.69/sample	
2 rock samples cost	\$ 10.30 = \$5.15/sample	
	<u>\$161.45</u>	161.45

Report:

Drafting, typing, photocopying, prints, materials	<u>450.15</u>	
Total		<u>\$1,635.85</u>

APPENDIX

To: L. B. GOLDSMITH
 #301, 1855 Balsam Street
 Vancouver, B.C. V6K 3M3
 cc: Silverton



File No. 26669
 Date August 21, 1984
 Samples Soil
 PROJECT: MONY

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	PPM Pb	PPM Ag
<u>"Geochemical Analysis"</u>		
2S- BL	22	.1
-0+50W	19	.4
-1+00W	17	.4
-1+50W	20	.2
-2+00W	18	.2
-2+50W	15	.1
-2+90W	21	.1
-3+00W	16	.3
-3+50W	26	.4
-4+00W	17	.4
-4+50W	17	.3
3S- BL	28	.2
-0+50W	15	.4
-1+00W	16	.2
-1+50W	23	.1
-2+00W	18	.2
-2+50W	21	.3
-3+00W	14	.4
-3+50W	21	.4
-4+50W	15	.2
-5+00W	17	.3
MONYBL-1+00W	22	.4
-1+50W	18	.4
-2+00W	17	.3
-2+50W	34	3.0
-3+00W	19	.6
-3+50W	19	.7
-4+00W	25	2.0
-4+50W	16	.6

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

D. [Signature]
 Assayer

To: L.B. GOLDSMITH
 #301, 1855 Balsam Street
 Vancouver, B.C., V6K 3M3
 cc: Silverton



File No. 26669
 Date August 21, 1984
 Samples Soil

PROJECT: MONY

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	PPM	PPM
	Pb	Ag
<u>"Geochemical Analysis"</u>		
MONY1S-0+50W	29	.9
-1+00W	26	.3
-1+50W	16	.1
-1+93W	18	.1
-2+00W	15	.1
-2+50W	24	.1
-2+70W	24	.1
-3+00W	17	.2
-3+50W	20	Nil
-4+00W	16	.1
<i>35-4+00W</i>	<i>21</i>	<i>.9</i>

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

P. E. [Signature]
 Assayer

To: L. B. GOLDSMITH
#301, 1855 Balsam Street
Vancouver, B.C., V6K 3M3
cc: Silverton



File No. 26669
Date August 21, 1984
Samples Rock

PROJECT: MONY

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 3

SAMPLE No.	PPM Pb	PPM Ag
2S-2+50W	22	.1
2S-2+90W	19	Nil

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

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Pulps Retained one month
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Assayer

To: L.B. GOLDSMITH
#301, 1855 Balsam Street
Vancouver, B.C., V6K 3M3
cc: Silverton



File No. 26669
Date August 21, 1984
Samples Soil
PROJECT MONY

Certificate of
ASSAY of
LORING LABORATORIES LTD.

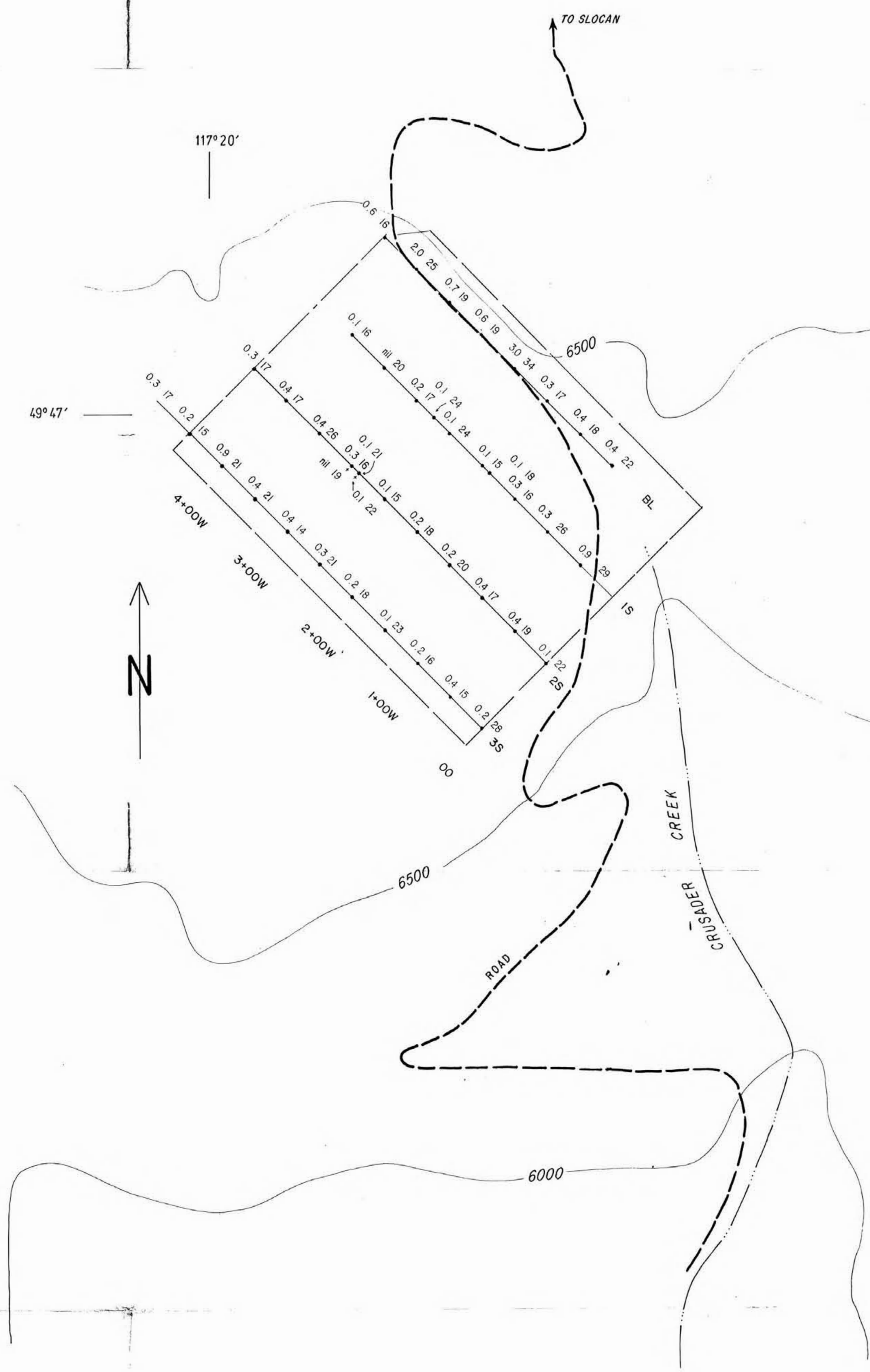
Page # 4

SAMPLE No.	PPM Pb	PPM Ag
MONY1S-4+50W	18	.1

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.


Assayer



claim boundaries ————

creek ————

contour lines — 500' interval ————

GEOCHEMICAL SAMPLING

ppm.	ppm.
Ag	Pb
0.1	22
SOIL	
+ ROCK	

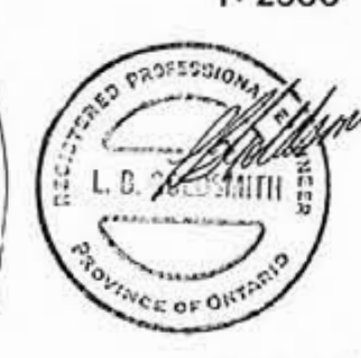
MONTREAL
 MINERAL CLAIM L3328 3856(5)
 CRUSADER CREEK AREA,
 SLOCAN Mining Division, B.C.

Geochemistry

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

METRES
 0 50 100 200
 1: 2500

12,987



TO ACCOMPANY REPORT BY
 Locke B. Goldsmith, P. ENG.
 CONSULTING GEOLOGIST

ARCTEX ENGINEERING SERVICES Oct. 1984