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12/85

GEOLOGY, ROCK AND SOIL GEOCHEMISTRY

DESERTER MINERAL CLAIM

SLOCAN MINING DIVISION

LARDEAU, B.C.

NTS 82 K/2 W

LATITUDE 50°9.5'N, LONGITUDE 116°50'W

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,226

Locke B. Goldsmith, P.Eng.
Consulting Geologist

November 21, 1984

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GEOCHEMICAL ANALYSES

GEOLOGY: ROCK AND SOIL GEOCHEMISTRY

(Pocket inside back cover)

GEOLOGY, ROCK AND SOIL GEOCHEMISTRY
DESERTER MINERAL CLAIM
SLOCAN MINING DIVISION
LARDEAU, B.C.

SUMMARY

Thin-bedded siliceous limestone and interbedded mica schist outcrop in steep cliffs on the eastern side of the claim along Highway 31. A short adit beside the highway exposes quartz veinlets which contain disseminated pyrite. Rock and soil samples do not contain anomalous gold values. Geochemical sampling should be continued upslope at an estimated cost of \$4,000.00.

INTRODUCTION

The Deserter reverted crown-granted mineral claim is located 2 km north of the community of Lardeau at the northwest corner of Kootenay Lake. Highway 31 passes through the east side of the property. From the lakeshore at elevation 550 m (1800') steep cliffs rise westerly to 1100 m (3600') at the west boundary and continue upwards to a plateau at 1190 m (3900').

No history of exploration is available. An adit 6 metres long was driven westerly from the level of the highway in the southeast corner (BL 4+50 S) of the property; no other workings were observed.

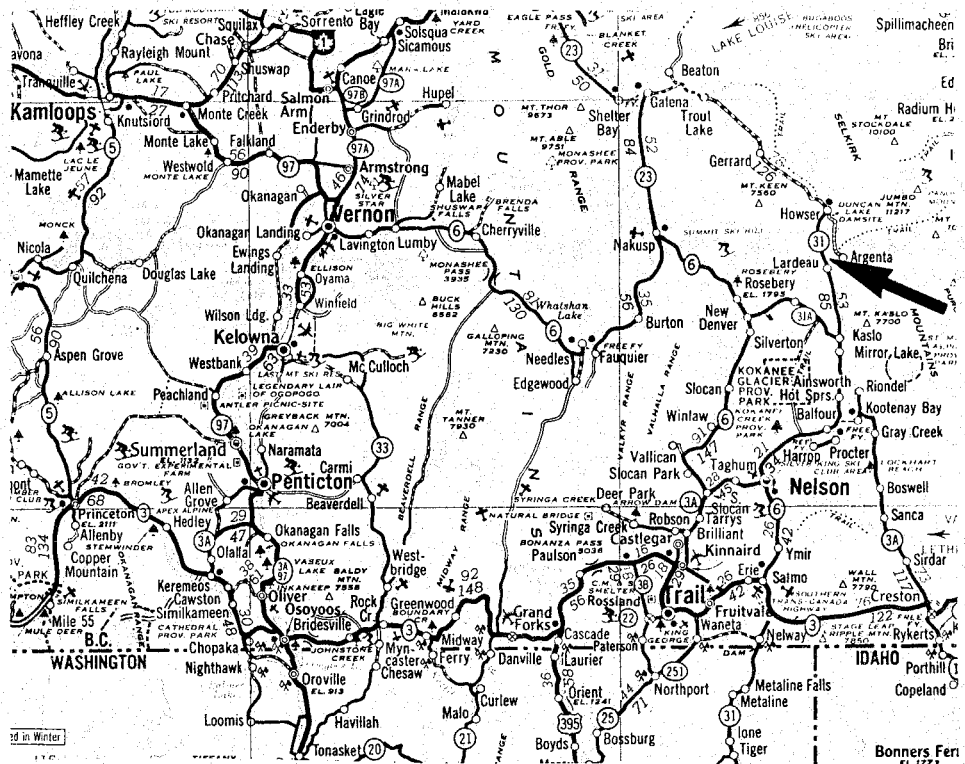
<u>Claim Name</u>	<u>Lot Number</u>	<u>Record Number</u>	<u>Date of Record</u>
Deserter	L2845	4320(4)	April 6, 1984

Four rock and ten soil samples were analysed for gold. Approximately 0.45 km of grid were established. The highway which trends 015° was used as a base line.

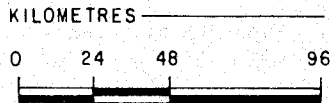
GEOLOGY

Reesor (1973) has mapped Lower Cambrian Badshot-Mohican crystalline limestone, marble, phyllite, and muscovite-quartz schist on the lower (eastern) portion of the claim. Lower Cambrian Hamill quartzite and pre-Mississippian Lardean Group schist may outcrop near the western boundary.

Outcrops near the highway are predominantly thin-bedded crystalline limestone with narrow micaceous or mica schist beds and boudins. Coarse limestone breccia is cemented with large mica flakes and pyrite. Quartz and smoky quartz with pyrite fills tension gashes which feather in and out of bedding planes. One such feature near BL 4+25 S is oriented 330° 60°SW; the gash extends for ±5 metres along the cliff face and is up to 20 cm in width.



LOCATION MAP

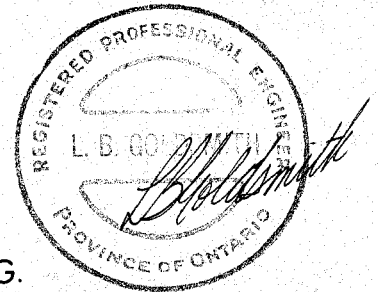


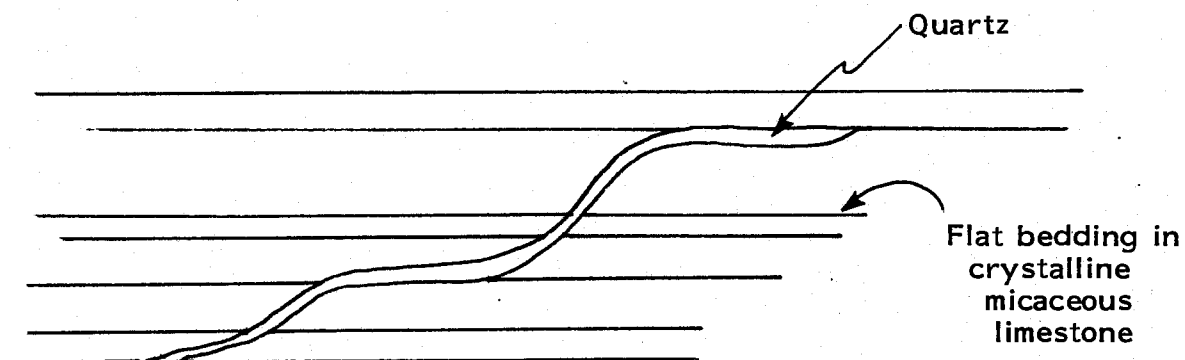
DESERTER

MINERAL CLAIM 4320 (4) / L 2845

LARDEAU AREA, B.C. 82K / 2W
SLOCAN MINING DIVISION

LOCKE B. GOLDSMITH, P. ENG.
CONSULTING GEOLOGIST





Quartz-Filled Tension Gash at BL 4+25 S

Attitude of bedding varies slightly from flat to 190° $10-15^{\circ}$ W. Tops were not determined.

ROCK AND SOIL GEOCHEMISTRY

Soil samples were collected at 50-metre intervals from soil banks above the highway level. A narrow, elongate spade was used to collect soil at a depth of 20 cm below organic debris. Composition is clay and sandy clay, light brown to ivory in colour.

Samples were analysed for gold by fire-assay and atomic absorption. No values above background content were present.

CONCLUSIONS

No gold is present in limonite-stained mica schist, in pyrite disseminations, veinlets, breccia cement, or in smoky quartz with occasional pyrite cubes. Gold was not detected in soils which have collected at the base of the steep cliffs. Additional prospecting uphill for lead-zinc mineralization should be undertaken. Much outcrop is exposed in cliff faces. Access will be difficult.

RECOMMENDATIONS

Rock geochemistry should be used in a reconnaissance search for lead-zinc. Soil geochemistry might be of use on benches between cliffs.

COST ESTIMATE

Approximately \$4,000.00 should be available to complete a reconnaissance evaluation of the claim.

Respectfully submitted,



Locke B. Goldsmith

Locke B. Goldsmith, P.Eng.
Consulting Geologist

Vancouver, B.C.
November 21, 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, "Geology, Rock and Soil Geochemistry, Deserter Mineral Claim, Slocan Mining Division, Lardeau, B.C.", dated November 21, 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 Geologist

Vancouver, B.C.
November 21, 1984

REFERENCE

Reesor, J.E. 1973. Geology of the Lardeau Map-Area, East Half, B.C.
G.S.C. Memoir 369.

ITEMIZED COST STATEMENT, 1984 PROGRAMME

Wage Scales:

L.B. Goldsmith, consulting geologist, ½ Aug. 2, ½ Nov. 10, ½ 20, ½ 21, total 2 days @ \$360/day	\$720.00	
G. Bennett, prospector, ½ Aug. 2, total ½ day @ \$200/day	<u>100.00</u>	
	\$820.00	\$ 820.00

Food:

Total expenditure of \$13.80, divided by 1 field day = \$13.80/day		13.80
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Transportation:

4x4 vehicle, 1 day @ \$45/day	\$ 45.00	
160 km @ \$0.30/km	48.00	
Gas	<u>13.00</u>	
	\$106.00	106.00

Analyses:

10 soil samples cost \$70.50 = \$7.05/sample		
4 rock samples cost \$37.60 = \$9.40/sample		
	<u>\$108.10</u>	108.10

Report:

Drafting, typing, photocopying, prints, materials		<u>403.40</u>
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Total		\$1,451.30
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APPENDIX

ROCK SAMPLE DESCRIPTIONS

1+50 S 0+20 W

Rusty mica schist. Talus at base of crystalline limestone cliff.

1+80 S 0+20 W

Crystalline limestone breccia, cemented with coarse muscovite and pyrite. Large talus at base of crystalline limestone cliff.

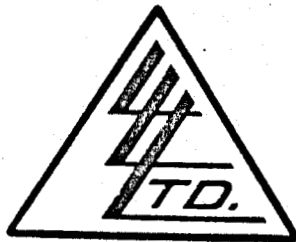
1+85 S 0+25 W

Smoky quartz with pyrite as disseminations, cubes, and on fractures. Talus, 0.3 m x 0.3 m at base of cliff.

4+50 S BL

Quartz veinlets with disseminated pyrite in black and siliceous limestone. Discontinuous quartzite beds to ± 15 cm wide.

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



File No. 26646
 Date August 16, 1984
 Samples Rock Samples

SERIES: DES

**Certificate of
 ASSAY of
 LORING LABORATORIES LTD.**

SAMPLE No.	PPB Au
BL-1+50S	5 <i>Soil</i>
1+50S-0+20W	5
1+80S-0+20W	Nil
1+85S-0+25W	Nil
4+50S-BL	Nil
BL-0+00S	Nil
-0+50S	Nil <i>Soil</i>
-1+00S	Nil
-2+00S	Nil
-2+50S	Nil
-3+00S	Nil
-3+50S	10
-4+00S	10
-4+50S	10

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.

[Signature]
 Assayer

