

'81-# 2 - # 8871

SOIL GEOCHEMISTRY
DELORAINÉ AND JAZMINE CLAIMS
SLOCAN MINING DIVISION
CODY, B. C.
NTS 82 F/14 E
LATITUDE 49°57' LONGITUDE 117°15'

ARCTEX ENGINEERING SERVICES

L. B. GOLDSMITH, P.ENG.
CONSULTING GEOLOGIST

JANUARY, 1981

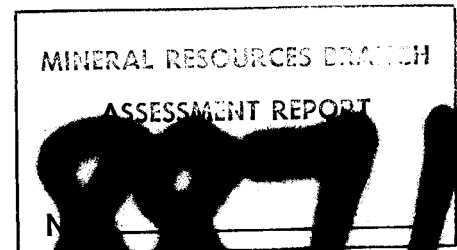


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SOIL GEOCHEMISTRY
DELORAINÉ AND JAZMINE CLAIMS
SLOCAN MINING DIVISION
CODY, B. C.

SUMMARY

Two soil samples contain geochemically anomalous quantities of lead, one of which contains a threshold value of 3.2 ppm silver. Detailed soil sampling in the vicinity of these samples is recommended at an estimated cost of \$5600.

INTRODUCTION

The Deloraine reverted crown granted mineral claim and the Jazmine staked mineral claim are located 2 km (1.2 miles) due south of the historic mining village of Cody, B. C., on the west slope of Cody Creek. Access is via paved road eastward from New Denver for 13 km (8 miles) to Three Forks, and thence southeasterly for 5 km (3 miles) on maintained gravel roads through Sandon. A steep road which has been recently reopened to the Colonial Mine crosses the northeast corner of the Jazmine Claim.

Nothing is known of the early history of the claims. Shallow pits and adits have been excavated at 3+00 E 8+27 N, 3+00 E 8+05 N, and 3+00 E 6+90N on rusty shear zones in argillite. Production from surrounding mines is summarized below:

<u>Name</u>	<u>Tons</u>	<u>oz Ag/ton</u>	<u>oz Au/ton</u>	<u>% Pb</u>	<u>% Zn</u>
Slocan Star	390,769	18.5	0.0031	9.15	3.24
Richmond-Eureka	72,294	12.4	0.001	4.0	2.51
Freddy Lee	817	112	0.0037	59.8	0.013
Colonial	331	52.8	0.019	43.5	16.0
Chicago	3	74.7		71.3	3.4

A total of 61 soil samples was analyzed. Sampling was supervised and performed by the author. Approximately 3 km of grid was established.

GEOLOGY

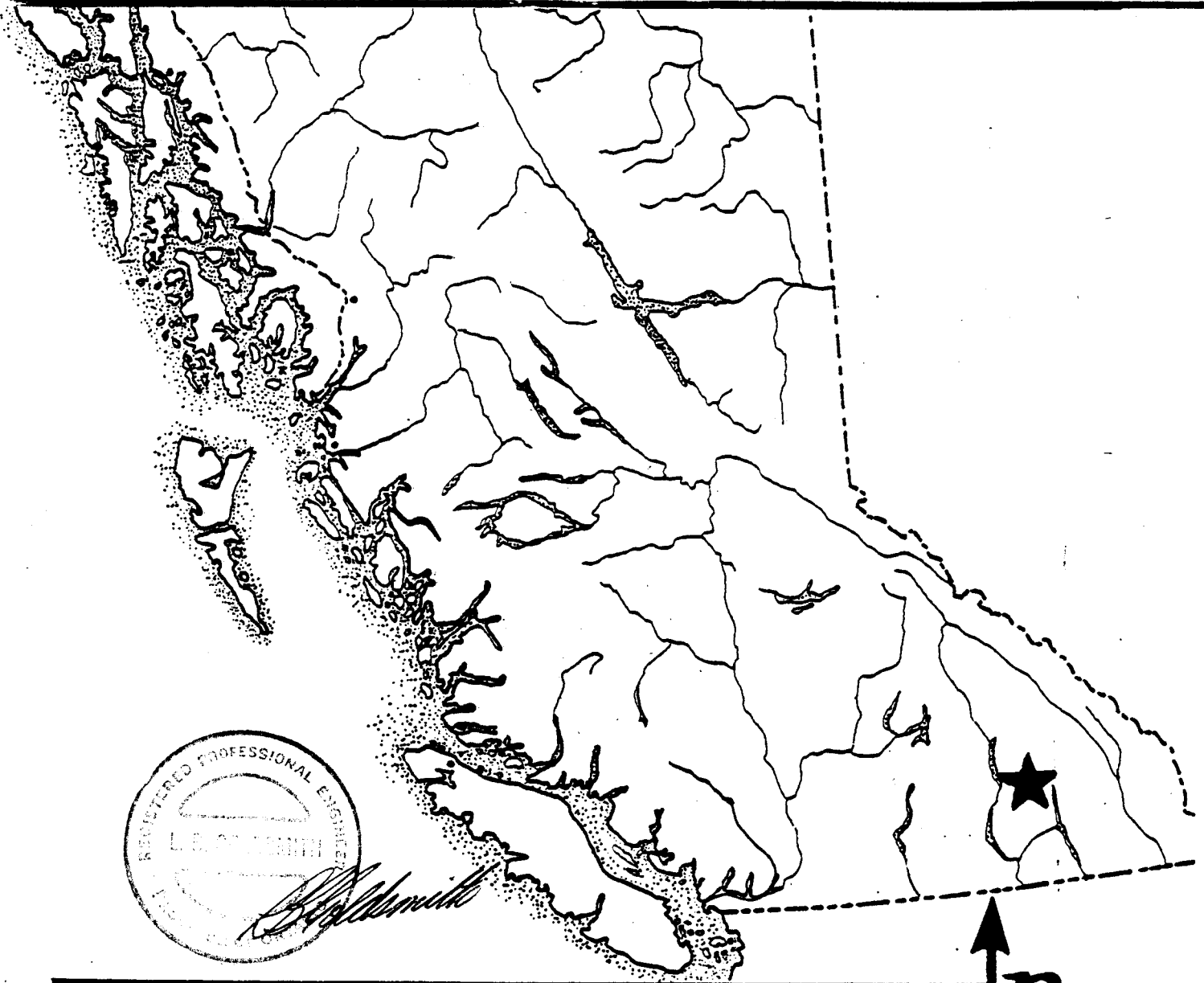
The claims are underlain by argillite of the Triassic-Jurassic Slocan sediments. At least three sets of fracture zones with limonite staining were

DELORAINÉ & JAZMINE CLAIMS

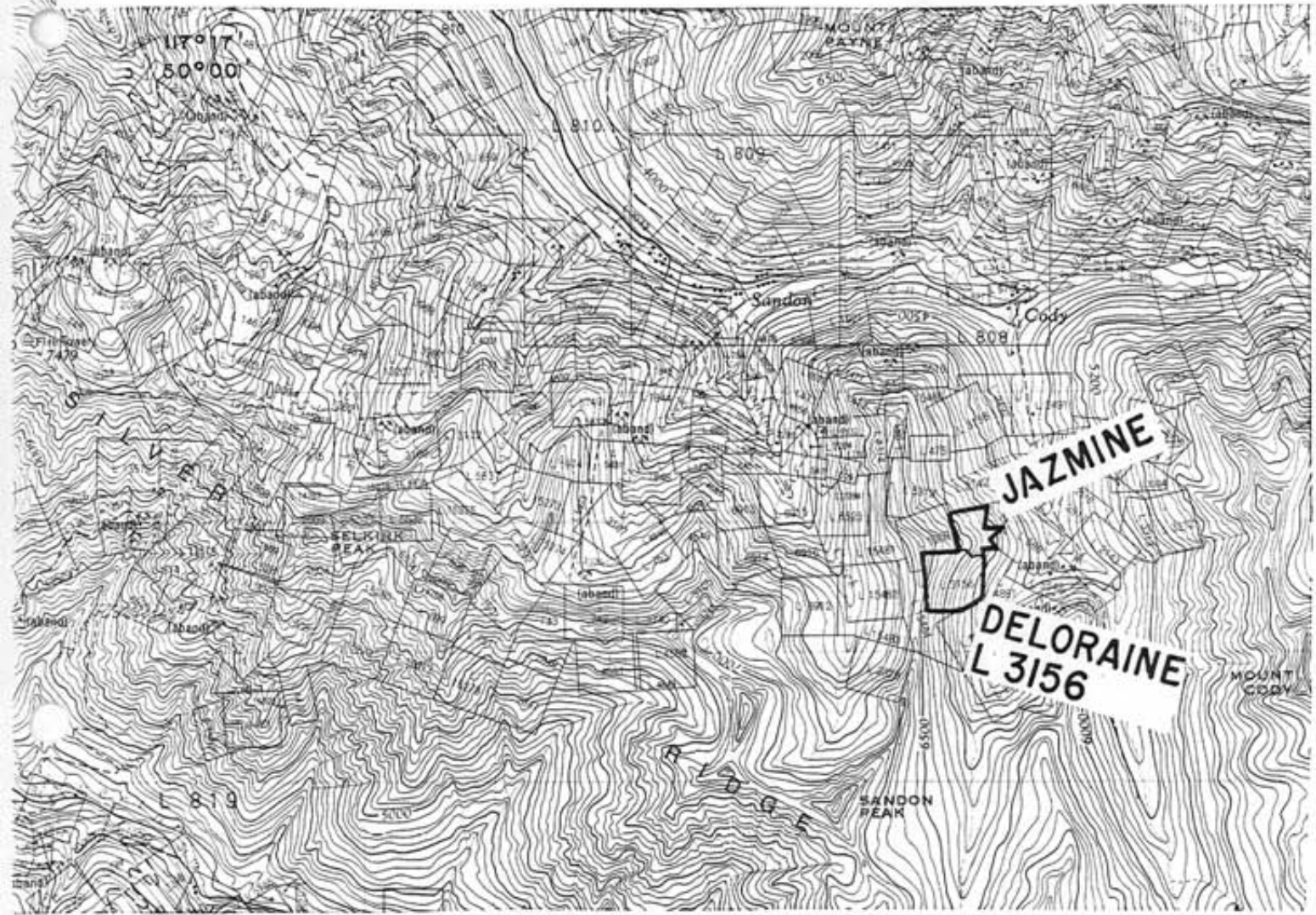
CODY, B.C.

SLOCAN MINING DIVISION

NTS 82F / 14E



Location map



CLAIM MAP

0 500 1000 m.

DELORRAINE & JAZMINE CLAIMS
 CODY, B.C. SLOCAN MINING DIVISION NTS 82F / 14E

noted with attitudes of:

020°, 070°E to vertical

080°, 65°S

160°, 70°E.

SOIL GEOCHEMISTRY

Base line for the grid was established at 105° Az with crosslines at 195°. Line spacing is 100 metres with sample intervals at 50 metres. Samples were taken with a narrow elongate spade at depth of 20 cm (8 inches) below the organic debris. Soils are nearly uniformly grey-coloured and clay bearing with varying proportions of sandy (usually light brown-orange) siliceous material.

Analyses for silver and lead were performed by Loring Laboratories Ltd., 629 Beaverdam Road 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 3 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 levels of background, threshold, and anomalous values. However, from experience gained during several years of soil sampling in the Slocan sediments, the values of 198 ppm lead and 3.2 ppm silver at 1+00 E 3+50 N are in the upper portion of a threshold grouping. The value of 380 ppm lead at 3+00 E 6+00 N is anomalous but contains only a background concentration of silver. No old workings or contamination were observed in the vicinity of these sample locations.

CONCLUSIONS

Preliminary soil sampling has located two threshold and anomalous concentrations of metals. Fracture zones in competent argillites cross the claim in several directions; these could, in zones of dilatency, maintain open spaces to host concentrations of silver-lead-zinc. Additional investigation is warranted.

RECOMMENDATIONS

1. A grid of soil samples on 25-metre centres should be completed in the vicinity of 1+00 E 3+50 N and 3+00 E 6+00 N.

2. Subject to evaluation of the geochemistry, soil trenching with a backhoe-loader should be undertaken. Access preparation within the claims will be necessary.

COST ESTIMATE

Geochemical sampling	\$2,000
Analyses	400
Vehicle, supplies, room, board	500
Backhoe-loader	2,000
Engineering, supervision	600
Reporting	600
	<u>\$5,100</u>
Contingencies @ 10%	500
Total	<u>\$5,600</u>

All of which is respectfully submitted,



Locke B. Goldsmith
 Locke B. Goldsmith, P. Eng.
 Consulting Geologist

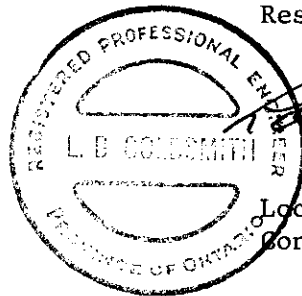
Vancouver, B. C.
 January 27, 1981

ENGINEER'S CERTIFICATE

LOCKE B. GOLDSMITH

1. I, Locke B. Goldsmith, am a Registered Professional Engineer in the Province of Ontario 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 in Geology from Michigan Technological University and have done postgraduate study at Michigan Tech, University of Nevada, and University of British Columbia. I am a graduate of the Haileybury School of Mines and am a Certified Mining Technician.
3. I have been engaged in mining exploration for 22 years.
4. I have authored the report entitled "Soil Geochemistry, Deloraine and Jazmine Claims, Slocan Mining Division, Cody, B. C." The report is based on field work conducted and 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.

January 27, 1981

REFERENCES

1. Cairnes, C. E., 1935, Description of Properties, Slocan Mining Camp, B. C.: G.S.C. Memoir 184.
2. University of British Columbia, MINDEP Computer Files.

ITEMIZED COST STATEMENT, 1980 PROGRAMME

a) Wage Scales:

L. B. Goldsmith, Consulting Geologist
 July 1, Oct. 1, Oct. 3, Jan. 28 (1981),
 total 4 days @ \$300/day

\$1,200.00

Peter Harker, Prospector

Oct. 1, Oct. 3, total 2 days @ \$130/day

260.00

Gerald Bennett, Prospector

Oct. 1, total 1 day @ \$130/day

130.00

1,590.00

\$1,590.00

b) Food:

Total expenditure of \$24.70, divided by
 3 field days = \$8.23/day

24.70

24.70

c) Transportation:

Approximately 35 miles round trip to the
 property from Silverton,
 3 trips = 105 miles @ \$0.25/mile

26.25

26.25

d) Analyses:

61 soil samples, cost \$161.23 = \$2.64/sample

161.23

e) Report:

M. Izard, drafting

320.00

M. Izard, drafting supplies

8.50

L. Borleske, typing

50.00

J. Hope, photocopying, collation

30.00

408.50

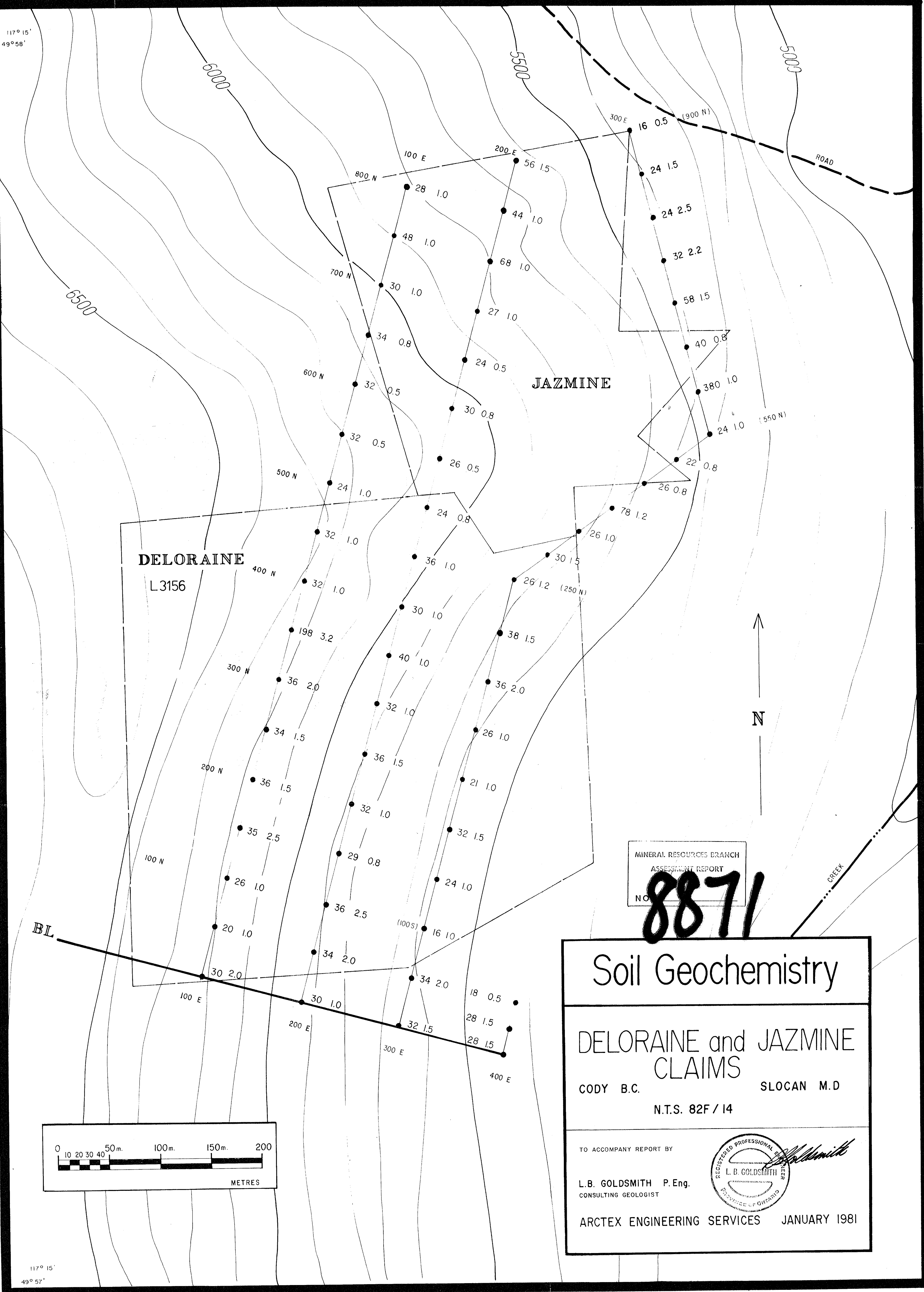
408.50

TOTAL

\$2,210.68

APPENDIX

117° 15'
49° 58'



DELORAINE
L.3156

JAZMINE

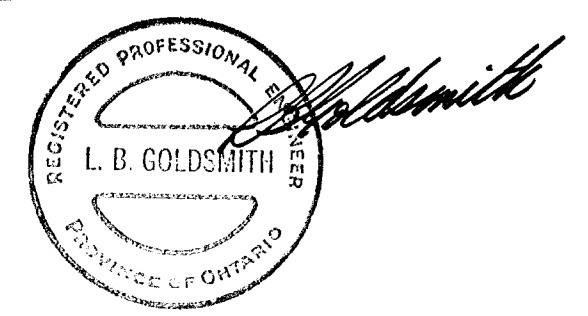
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8871

Soil Geochemistry

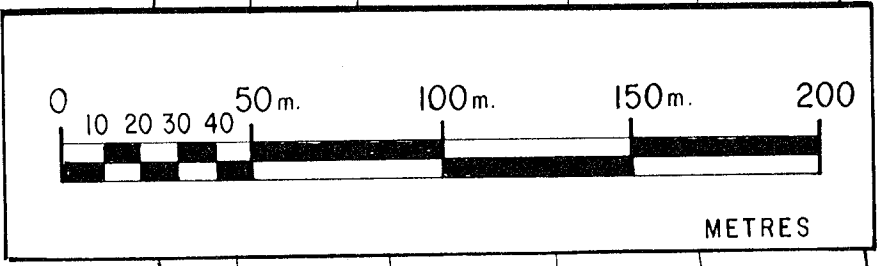
DELORAINE and JAZMINE CLAIMS

CODY B.C. SLOCAN M.D.
N.T.S. 82F / 14

TO ACCOMPANY REPORT BY
L.B. GOLDSMITH P.Eng.
CONSULTING GEOLOGIST



ARCTEX ENGINEERING SERVICES JANUARY 1981



117° 15'
49° 57'