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GEOLOGY AND SOIL GEOCHEMISTRY
DELORAINÉ, JAZMINE, AND SILVER TIP FRACTION
MINERAL CLAIMS
SLOCAN MINING DIVISION
CODY, B.C.
NTS 82 F/14 E
LATITUDE 49°57'N, LONGITUDE 117°¹²15'W

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,529

Locke B. Goldsmith, P.Eng.
Consulting Geologist

February 6, 1985

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GEOLOGY AND SOIL GEOCHEMISTRY MAP (Pocket inside
back cover)

GEOLOGY AND SOIL GEOCHEMISTRY
DELORAINÉ, JAZMINE, AND SILVER TIP FRACTION
MINERAL CLAIMS
SLOCAN MINING DIVISION
CODY, B.C.

SUMMARY

Detailed soil geochemistry in the northwest corner of the Jazmine claim has outlined two northeasterly trending silver-lead anomalies. A well mineralized lode zone trending 040° $70-80^{\circ}$ SE was found within the southern anomaly. A chip sample across 1.5 metres of sheared argillite containing quartz and galena assayed 28.36 oz Ag/ton, 52.42% Pb, and 1.40% Zn.

A programme of soil geochemistry to detail other high lead-silver areas within the claims, dozer-backhoe trenching, and diamond drilling is recommended at a cost of \$149,400.

INTRODUCTION

The Deloraine and Silver Tip reverted crown-granted mineral claims and the Jazmine staked mineral claim are located 2 km (1.2 mi) due south of the historic mining village of Cody, B.C., on the west slope of the valley of Cody Creek. The Silver Tip Fraction extends easterly across the southwest fork of Cody Creek and is adjacent to the formerly productive Leadsmith (Noonday) mine from which 371 tons containing 45% Pb and 44 oz Ag/ton were shipped (Cairnes, 1935, p. 64). Claim particulars are listed below:

<u>Name</u>	<u>Lot Number</u>	<u>Record Number</u>	<u>Date of Record</u>
Deloraine	3156	1711(2)	Feb. 7, 1980
Jazmine		2229(10)	Oct. 8, 1980
Silver Tip Fr.	4881	3107(8)	Aug. 5, 1982

Access is via paved road eastward from New Denver for 13 km (8 mi) to Three Forks, and thence southeasterly for 5 km (3 mi) on maintained gravel roads to Sandon. An ungraded gravel road continues for 2 km (1 mi) to Cody, and thence southerly for 2 km onto the property. A logging road crosses the eastern portion of the Silver Tip Fraction, and a steep road, now sloughed, crosses the northeast corner of the Jazmine claim en route to the Colonial Mine. Elevation ranges from 1525 m (5000') to 2044 m (6700').

Nothing is known of the early history of the claims. Shallow workings were noted previously in a report filed for assessment work (Goldsmith 1981).

A total of 36 soil samples and 1 rock sample was analysed. Approximately 0.35 km of grid was established.

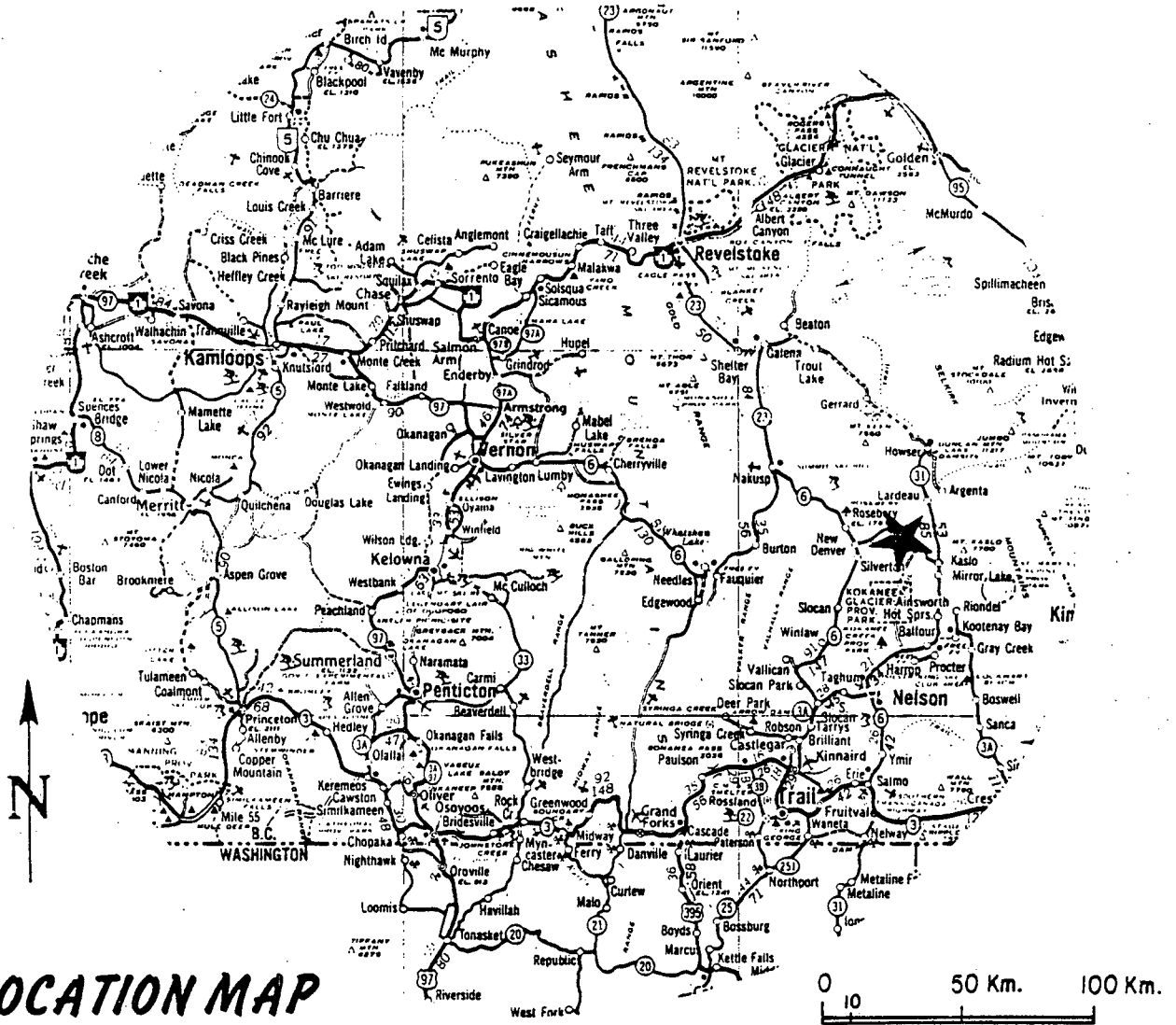
GEOLOGY AND MINERALIZATION

The claims are underlain by argillite of the Triassic-Jurassic Slokan sediments. Granitic float, possibly from the western edge of the Mr. Carlyle stock, was noted on the eastern portion of the Silver Tip Fraction.

A shear zone trending 040°70°-80°SE in argillite was found at grid coordinates 1+35E 7+10N. The shear is exposed for 3 metres of width in an old

DELORAIN, JAZMINE and SILVER TIP Fr. MINERAL CLAIMS

Cody, B.C SLOCAN M.D. NTS 82F/14



LOCATION MAP

To accompany report by L.B. GOLDSMITH, P.Eng.

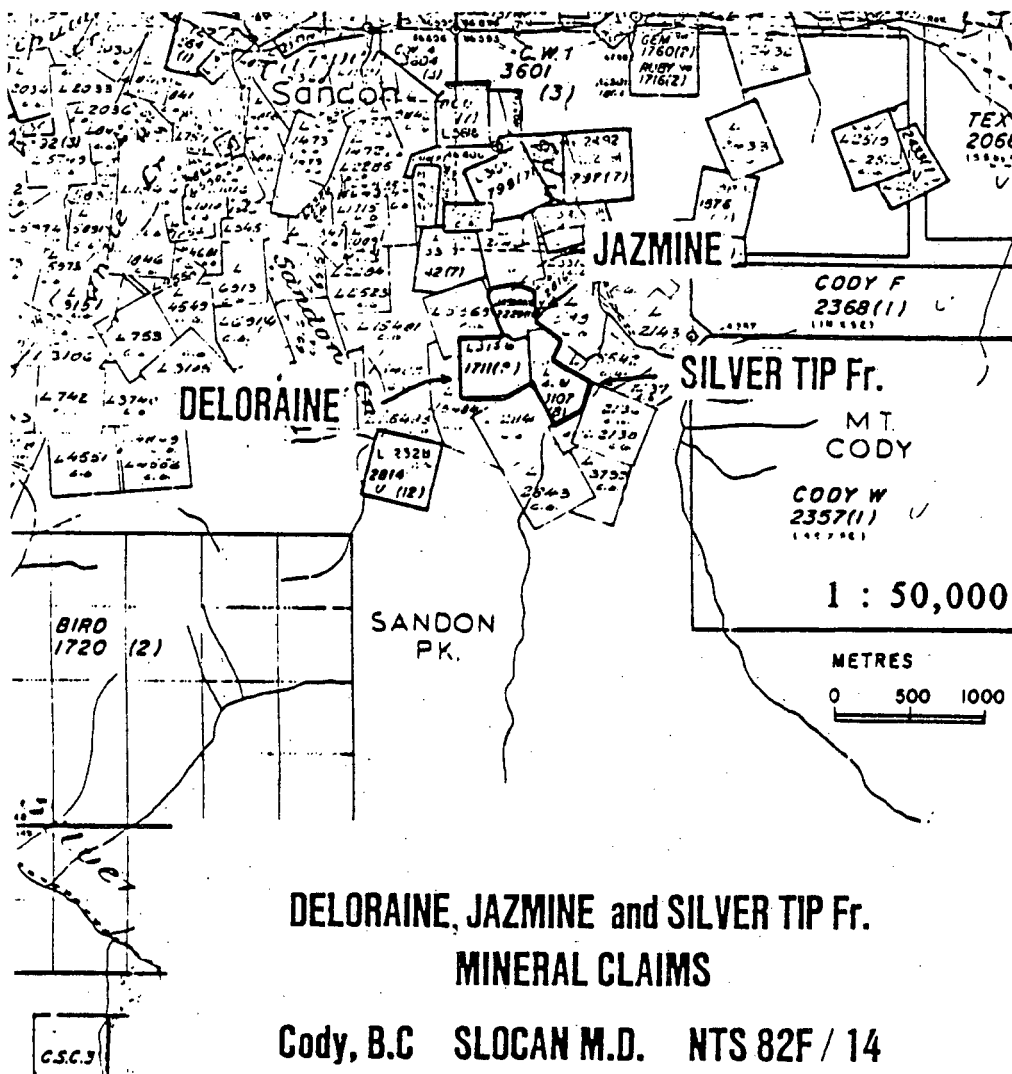
Consulting Geologist



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February 1985

CLAIM MAP

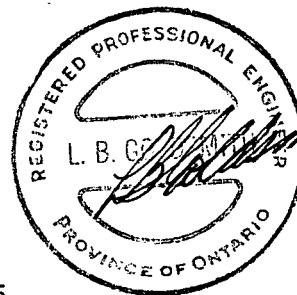


To accompany report by L.B. GOLDSMITH, P.Eng.

Consulting Geologist

ARCTEX ENGINEERING SERVICES

February 1985



trench, and appears to continue at both ends of the excavation. A sample chipped across 1 metre assayed 28.36 oz Ag/ton, 52.42% Pb, and 1.40% Zn. The shear is upslope from old pits and a short adit noted in the 1981 survey.

SOIL GEOCHEMISTRY

The grid from 1981 was used as a base. Fill-in lines 1+25E and 1+75E were run in the vicinity of 6+00N to 8+50N. An anomalous value of silver was obtained at 1+25E 6+90N (4.1 ppm Ag), and threshold silver values at 9 other sample sites. Lead is anomalous at 1+25E 7+60N (471 ppm Pb) and 1+75E 7+30N (326 ppm Pb) and at threshold levels at 4 other sites. Trend of the anomalous metals brackets the mineralized shear zone and approximately parallels the strike of the shear as corrected for topography (see map in pocket).

CONCLUSIONS

Silver-lead-zinc mineralization has been discovered in place on the Jazmine claim. Soil geochemical anomalies extend up and downslope from the discovery location, and a parallel zone is indicated to the northwest. The discovery is upslope from old pits, a short adit, and threshold to anomalous silver and lead values obtained in soils from the 1981 programme.

RECOMMENDATIONS

Soil sampling and geological mapping should be continued to fill in the area between lines 2+00E and 3+00E from 5+50N to 9+00N. Dozer-backhoe trenching should be undertaken on the shear zone and on soil geochemical anomalies which are known or which may be detected in new work. Diamond drilling should be considered, depending upon the results of trenching.

COST ESTIMATE

Phase 1

Geological mapping	\$ 2,500	
Soil sampling, with grid	2,000	
Analyses	2,000	
Dozer-backhoe trenching	15,000	
Engineering, supervision	5,000	
Room, board, supplies	1,500	
Vehicle, travel	2,000	
Report	3,000	
	<u>33,000</u>	
Contingencies @ 20%	6,600	
	<u>39,600</u>	
Total, Phase 1	\$39,600	\$ 39,600

Phase 2

Diamond drilling, allow 500 m @ \$120/m	\$ 60,000	
Drill site preparation, roads	10,000	
Analyses	1,000	
Geological supervision	10,000	
Engineering	2,000	
Room, board, supplies	3,000	
Vehicle, travel	3,000	
Report	3,000	
	<u>92,000</u>	
Contingencies @ 20%	18,400	
	<u>110,400</u>	
Total, Phase 2	\$110,400	\$110,400
		<u>110,400</u>
Total, Phases 1 and 2		\$149,400

Results of Phase 1 should be compiled into an engineering report; continuance to Phase 2 should be contingent upon receiving favourable conclusions and recommendations from an Engineer.

Vancouver, B.C.
February 6, 1985



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

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 in Geology from Michigan Technological University, a M.Sc. degree in Geology from the University of British Columbia, and have done postgraduate study in Geology at Michigan Tech and the University of Nevada. 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 26 years.
4. I have authored the report entitled, "Geology and Soil Geochemistry, Deloraine, Jazmine, and Silver Tip Fraction Mineral Claims, Slocan Mining Division, Cody, B.C.", dated February 6, 1985. 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.

February 6, 1985

REFERENCES

Cairnes, C.E. 1935. Description of properties, Slocan Mining Camp, B.C.
G.S.C. Memoir 184.

Goldsmith, L.B. 1981. Soil geochemistry, Deloraine and Jazmine claims, Slocan Mining Division, Cody, B.C. Private report, submitted for assessment work.

Goldsmith, L.B. 1984. Soil geochemistry, Deloraine, Jazmine, and Silver Tip Fraction claims, Slocan Mining Division, Cody, B.C. Private report submitted for assessment work.

University of British Columbia. MINDEP Computer Files.

COST STATEMENT, 1984-85 PROGRAMME

Wage Scales:

L.B. Goldsmith, consulting geologist,

 $\frac{1}{2}$ Aug. 24, $\frac{1}{2}$ 25, 1984; Feb. 5, 1985 -

total 2 days @ \$360/day

\$ 720.00

G. Bennett, prospector, Aug. 24,

 $\frac{1}{2}$ 25, total $1\frac{1}{2}$ days @ \$200/day300.00

1,020.00

\$1,020.00

Transportation:

4x4 vehicle, 1 day @ \$45/day

45.00

38 km @ \$0.30/km

11.40

Gas

3.10

59.50

59.50

Analyses:

36 soil samples cost:

132.90

1 rock sample

35.70

168.60

168.60

Report:

Drafting, typing, photocopying,

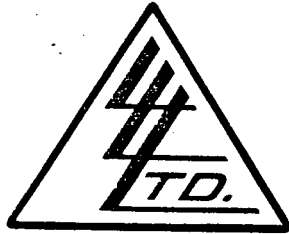
prints

188.32

TOTAL \$1,436.42

APPENDIX

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



File No. 26779
Date September 10, 1984
Samples Rock

PROJECT DELORAINE

Certificate of
ASSAY of
LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON SILVER	%	%
<p><u>"Deloraine Pit"</u></p> <p>#1 Shear Zone</p>	28.36	52.42	1.40

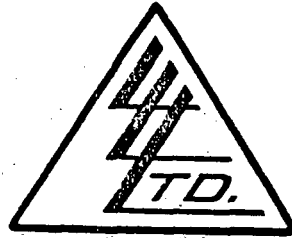
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

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

Assayer

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

File No. 26818
 Date September 13, 1984
 Samples Soil Samples



Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 1

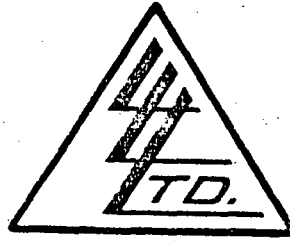
SAMPLE No.	PPM Pb	PPM Ag
<u>"Geochemical Analysis"</u>		
MONT-3S-4W	21	.9
D-1+25E-6+20N	27	1.0
-6+30N	33	2.2
-6+40N	26	1.0
-6+50N	24	1.2
-6+60N	24	1.1
-6+70N	24	.7
-6+80N	27	.8
-6+90N	28	4.1
-7+00N	11	1.0
-7+10N	23	.8
-7+20N	21	1.0
-7+30N	22	2.0
-7+40N	30	1.1
-7+50N	228	1.9
-7+60N	471	1.4
7+70N	59	1.0
7+80N	34	1.1
-7+90N	50	1.5
-8+00N	41	.7
D-1+75E-7+00N	30	.8
-7+10N	35	1.5
-7+20N	100	3.1
-7+30N	326	1.8
-7+40N	268	2.8
-7+50N	151	2.6
-7+60N	40	1.1
-7+70N	29	1.5

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

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



File No. 26818
 Date September 13, 1984
 Samples Soil Samples

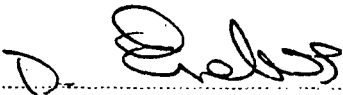
Certificate of
ASSAY of
LORING LABORATORIES LTD.

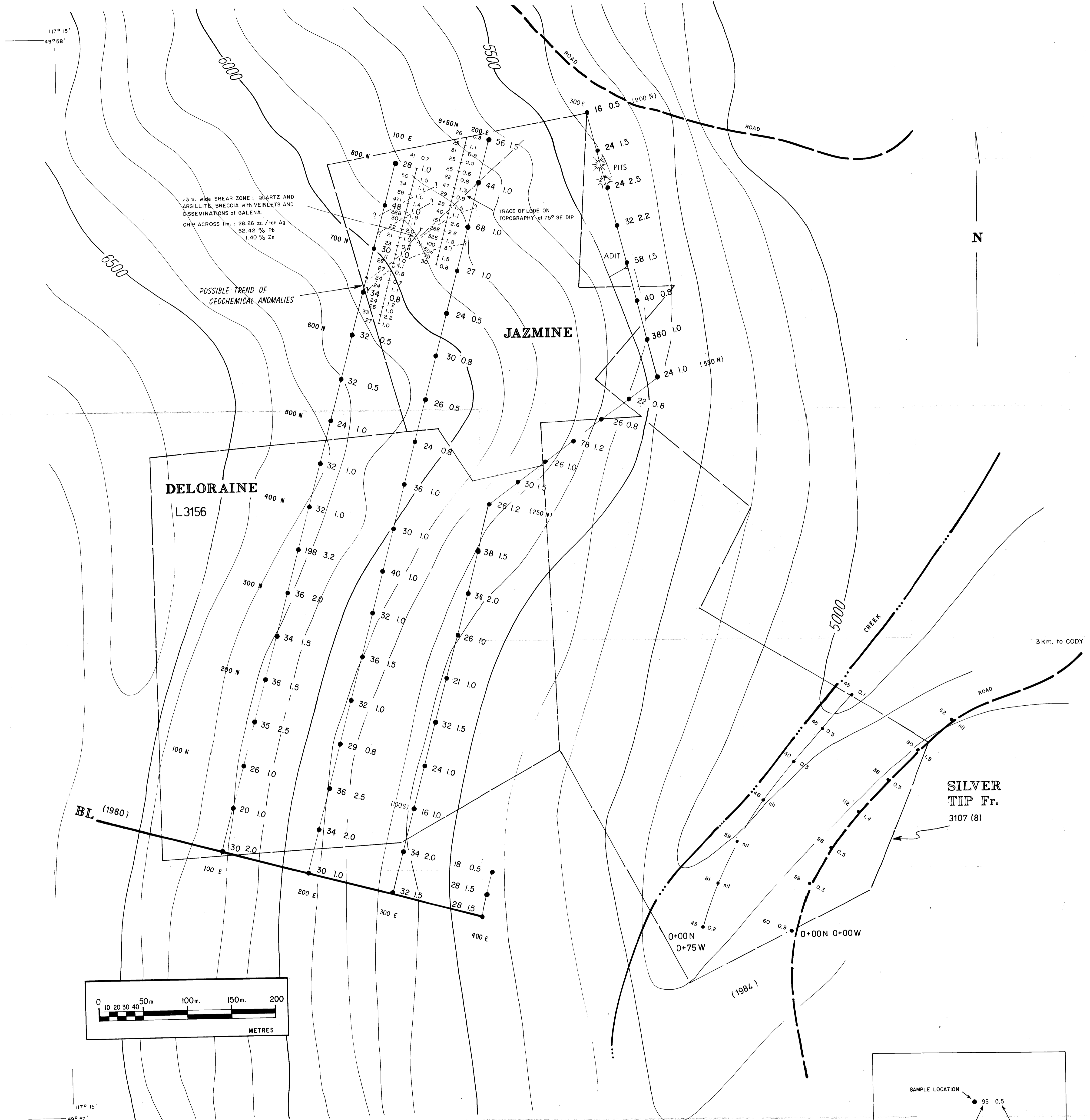
Page # 2

SAMPLE No.	PPM Pb	PPM Ag
<u>"Geochemical Analysis"</u>		
D-1+75E-7+80N	29	.9
-7+90N	47	1.3
-8+00N	22	.8
-8+10N	25	.6
-8+20N	25	.5
-8+30N	31	.9
-8+40N	25	1.1
-8+50N	26	.8

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


 Assayer



> 3 m. wide SHEAR ZONE; QUARTZ AND ARGILLITE BRECCIA WITH VEINLETS AND DISSEMINATIONS OF GALENA.
 CHFR ACROSS Fr.: 28.26 oz./ton Ag
 52.42 % Pb
 1.40 % Zn

TRACE OF LOBE ON TOPOGRAPHY of 75° SE DIP

POSSIBLE TREND OF GEOCHEMICAL ANOMALIES

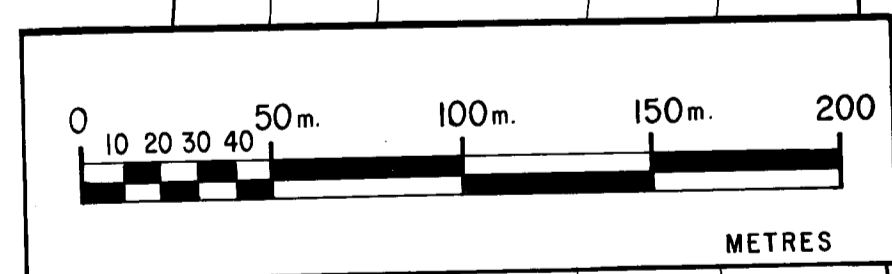
DELORAIN
L3156

JAZMINE

SILVER TIP Fr.
3107 (8)

BL (1980)

(1984)



117° 15'
49° 57'

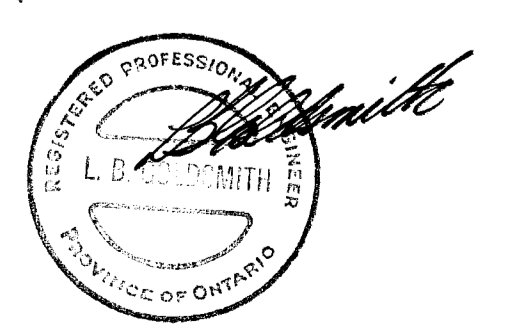
SOIL GEOCHEMISTRY

of the DELORAIN, JAZMINE and SILVER TIP Fr.
MINERAL CLAIMS

Cody, B.C. SLOCAN M.D. NTS 82F/14

To accompany report by L.B. GOLDSMITH, P.Eng.
Consulting Geologist

JANUARY 1981
ARCTEX ENGINEERING SERVICES August 1984
AMENDED FEBRUARY 1985



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