

PRELIMINARY SOIL GEOCHEMISTRY
TREADWELL MINERAL CLAIM
CAMBORNE AREA
REVELSTOKE MINING DIVISION
N.T.S. 82 K/13 E
LATITUDE 50°47.5', LONGITUDE 117°38.5'

James M. Logan
Consulting Geologist

Owner/operator.

June 1983

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,177

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PRELIMINARY SOIL GEOCHEMISTRY

TREADWELL MINERAL CLAIM

CAMBORNE AREA

REVELSTOKE MINING DIVISION

82 K/13 E

SUMMARY

Soil geochemistry has outlined anomalous gold and silver values coincident with the projected extension of the Tommy vein on to the Treadwell mineral claim. Anomalous to sub-anomalous values of lead and silver located up-slope suggest the likelihood of an additional structure and/or mineralization present.

Fill-in geochemical sampling and geological mapping with rock sampling is proposed to further delineate and assess this and other structures believed to occur on the property. Backhoe trenching is contingent upon these results. An overall budget of \$12,500.00 should be available.

INTRODUCTION

The Treadwell (Lot #5402) reverted crown granted mineral claim [Record #1435(5)] was visited late July, 1982. At this time, a preliminary soil geochemical survey was conducted across the property to test for mineralized zones and determine if the projected northeastern extension of the Tommy vein could be delineated by geochemical means.

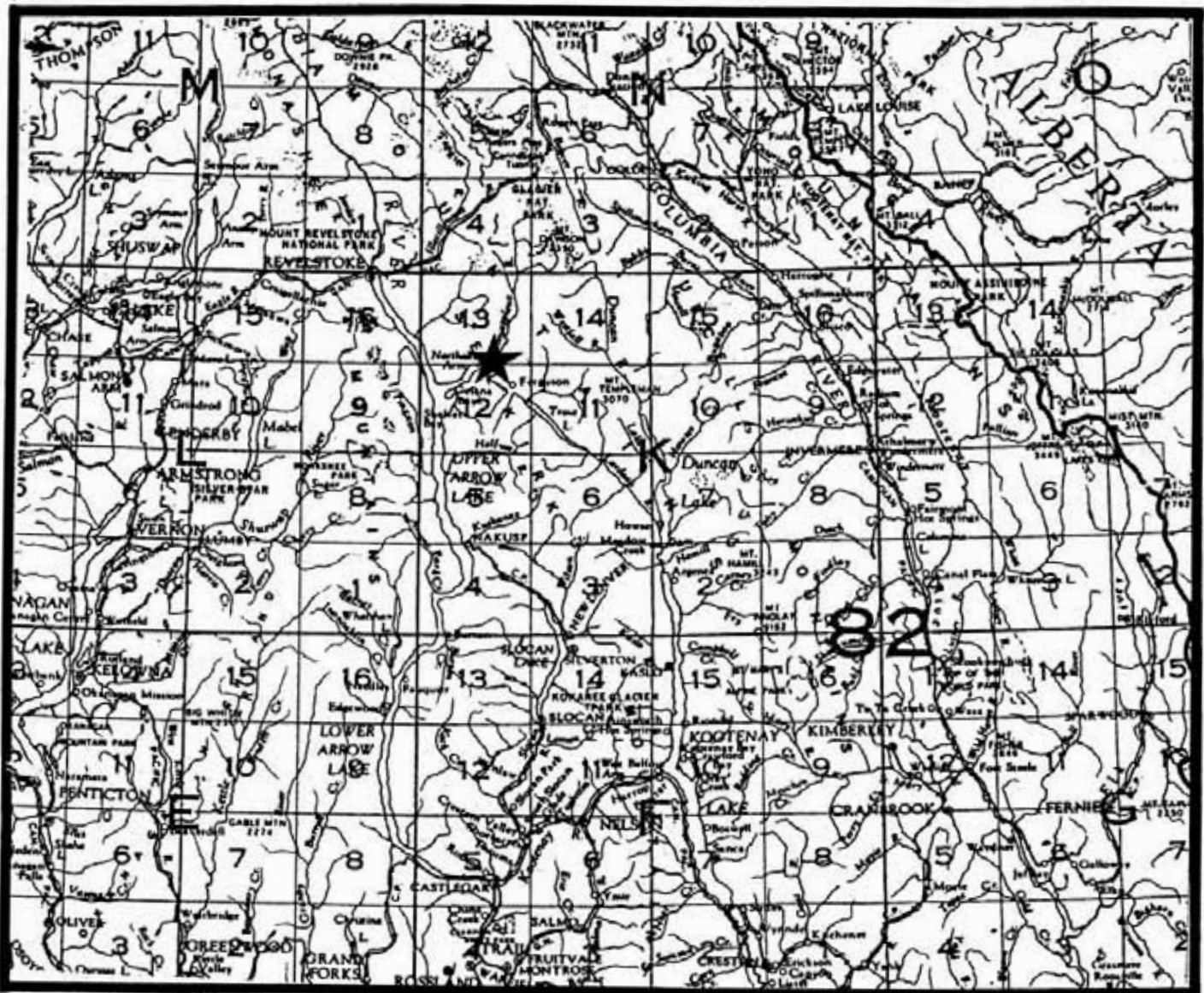
The claim is located approximately 1.0 km northeast of Camborne, B. C., on the lower slopes of Mount Lexington. Situated at $50^{\circ}47.5'$ latitude, $117^{\circ}38.5'$ longitude, the claim lies within the Revelstoke Mining Division, N.T.S. 82 K/13 E.

Total relief is 450 feet. The southern corner of the claim, at 1650 ft a.s.l., rises from Poole Creek up the southwest-facing slope to 2100 ft a.s.l. at the northeastern claim boundary.

Access via gravel road from Camborne (1 km) to the southern corner of the claim and thence by footpath across Poole Creek provides easy walking to the remainder of the property.

HISTORY

The first gold claim in the vicinity of Camborne was staked on a quartz lead on the Eva claim in July, 1899. By 1900, three adits were being driven on the Eva claim, development was proceeding on the Oyster and Criterion claims, and several other properties were receiving attention. In 1903, the Eva 10-stamp mill went into production as well as the Oyster-Criterion mill (also 10-stamps). The Camborne group was reorganized and preparations made to operate the 10-stamp mill. The year 1905 was prosperous, following the 1904 forest fire which threatened the mining camp. In 1906, the Eva was milling about 1,000 tons a month, the Camborne and Oyster-Criterion lay idle after only a short period of production, and the Burnière was staked. Hereafter mining activity began to decrease, and by 1909 all gold properties were idle.



0 20 40 60 80 100 120 140 Kilometres

0 20 40 60 Miles



LOCATION MAP

TREADWELL MINERAL CLAIM

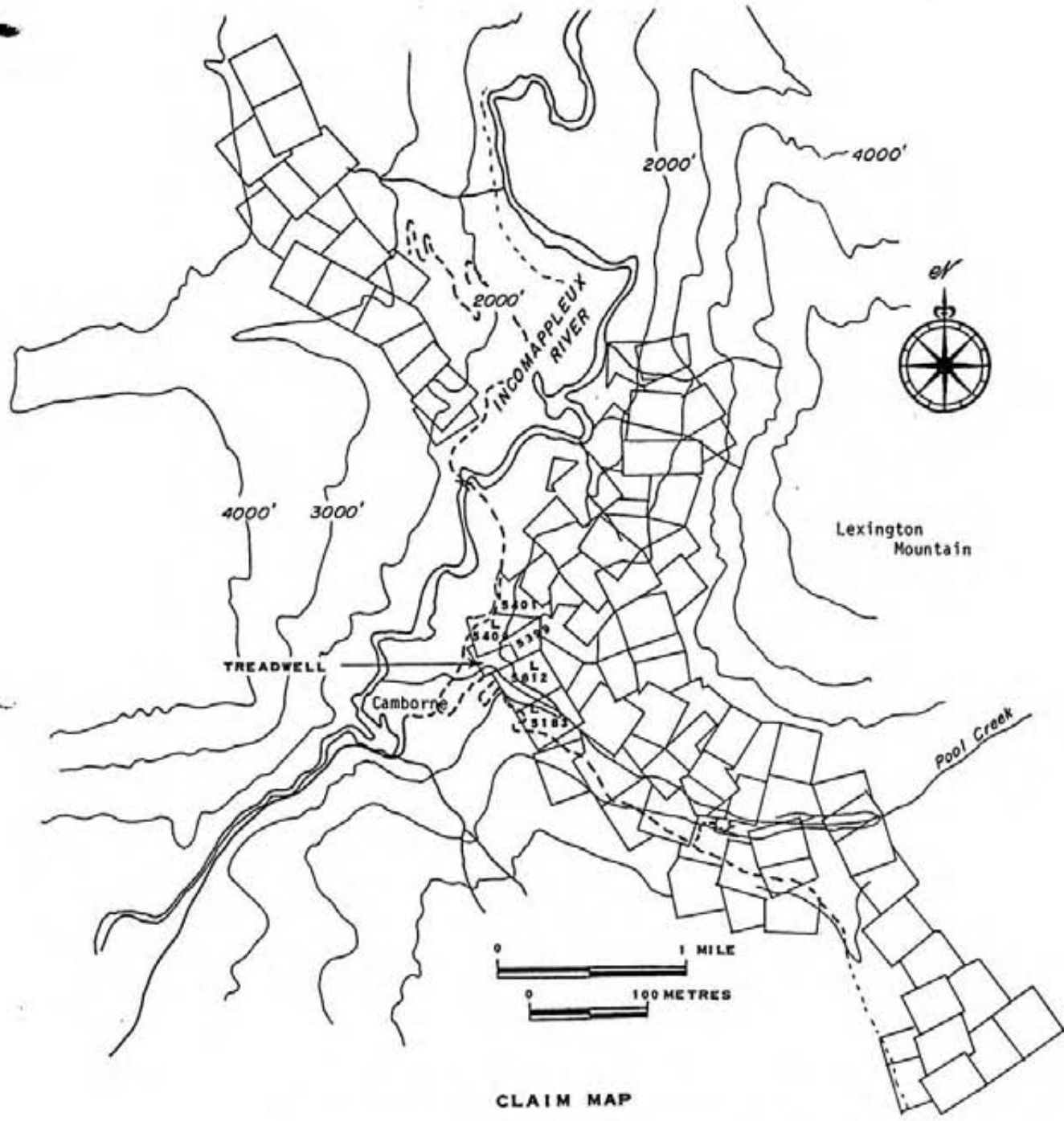
Camborne, Trout Lake Area

Revelstoke Mining Division - N.T.S. 82 K/13 E

Latitude 50°47.5', Longitude 117°38.5'

To accompany report by James M. Logan

June 1983



CLAIM MAP

TREADWELL MINERAL CLAIM

Camborne, Trout Lake Area
 Revelstoke Mining Division - N.T.S. 82 K/13 E
 Latitude 50°47.5', Longitude 117°38.5'

Options have been taken on the Eva, but no work is recorded (Gunning, 1929).

The Meridian Mining Co. Ltd. operated the Eva, Criterion, Cholla and Lucky Jack Groups from 1932 through 1934. Reconditioning and continued development were carried out on the Eva, No 7A level, the Criterion workings, and the Lucky Jack workings. A tramway connected the Criterion (No. 2 adit) with the mill at Poole Creek, and commenced operations October 10, 1934.

The Treadwell claim, one of five claims which comprised the Cholla Group, was under the same ownership as the Eva claim (Imperial Development Syndicate). Most of the exploratory work undertaken was confined to the Cholla claim, "...but not enough work was done to either prove or disprove the existence of ore in commercial quantities". Report of the Minister of Mines (1925) suggests "that other showings on the property might be prospected to advantage", but whether this refers to the Treadwell claim and/or to the others is not clear.

GEOLOGY AND MINERALIZATION

Read (1976) shows the claim to be underlain by the Broadview Formation, the uppermost member of the lower Cambrian to middle Devonian (or older) Lardeau Group. On a regional scale, polyphase deformation has produced three phases of approximately coaxial folds. Timing of deformation places the first phase in middle Paleozoic, possibly Devonian, and the second and possibly third phases in middle Jurassic (Read, 1976).

"The gold deposits in the vicinity of Camborne are fissure veins of quartz with some ankerite and siderite and are mineralized with free gold, pyrite which contains gold values, and occasional galena and sphalerite. The more persistent veins strike approximately northwest and have steep dips, cutting the country rocks at small angles (2nd phase crenulation axial plane cleavage), but there are many other important veins that trend from northwest to northeast... Many inclusions, more or less silicified, carbonated, or sericitized, occur in the veins, and, indeed, the evidence points to replacement having played an important part in the formation of

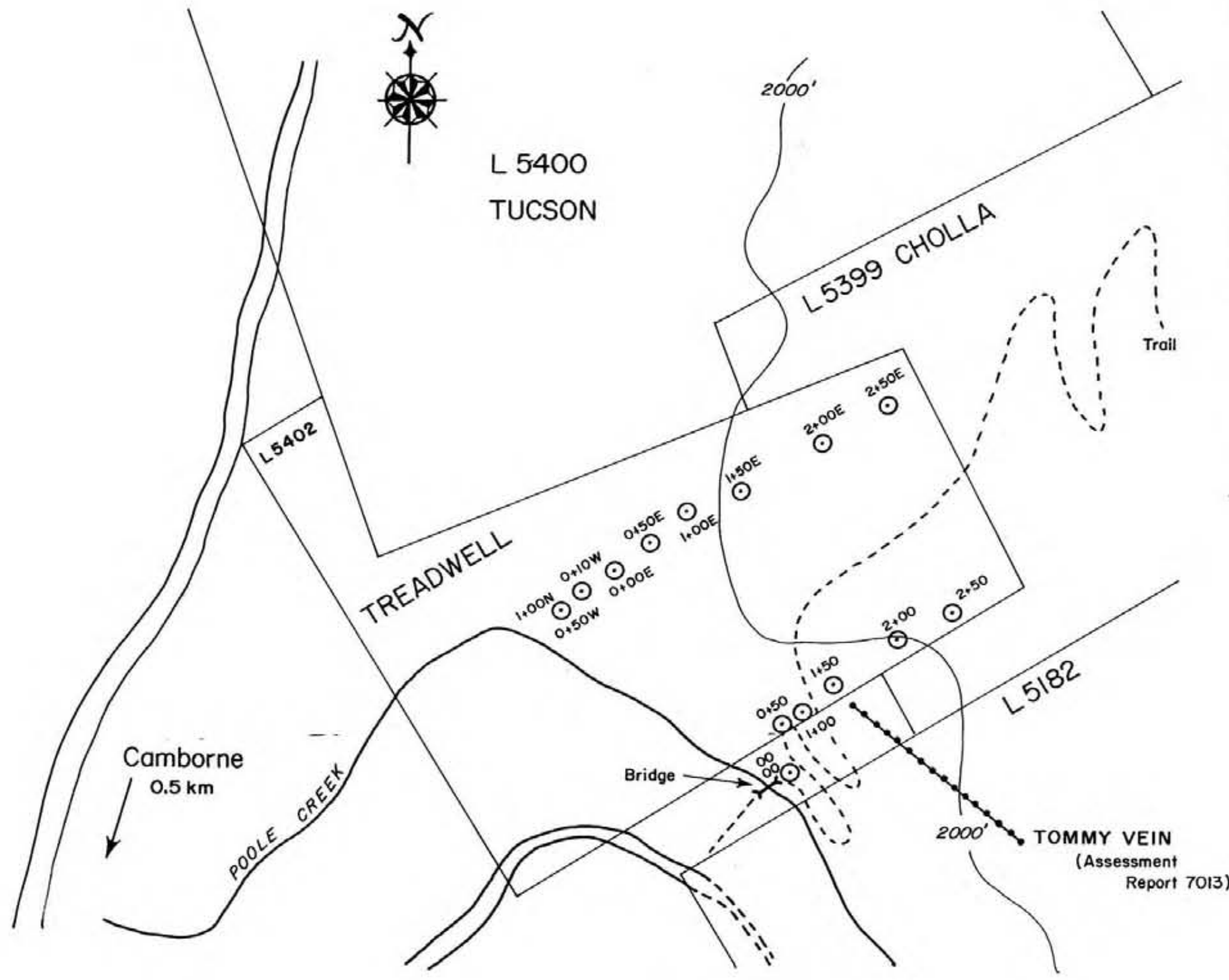
the veins, although filling of fissures has been the predominant process. The inclusions are frequently heavily mineralized with pyrite. Fault walls commonly bound the veins and gouge has been abundantly developed in places. The larger veins are frequently accompanied by a myriad of small quartz stringers running off, at random, into the country rock, so that considerable masses of rock adjoining the veins or between closely spaced veins have been converted to siliceous mineralized material" (Gunning, 1929).

The Treadwell claim is situated on the southwestern limit of a southeasterly plunging second phase synform. Here, the Broadview Formation consists of greenish-grey schists, phyllites and grits which strike northwesterly and dip almost vertical. The sediments have been highly silicified with vein-like inclusions of quartz formed both paralleling and cutting schistosity. To the northeast on the Cholla claim the cross-fractures are found to be more persistent and to carry better values than the other variety of quartz-fillings. The Cholla vein trends north-south, with a vertical dip, and open cuts along 100 feet of strike length are stated to give values ranging from \$4 to \$15 per ton (Rept. Minist. of Mines, 1915). The values are somewhat irregular in occurrence; the greatest concentration of ore-minerals has apparently taken place where there has been movement in the vein, or at the intersection of smaller veins with larger ones (Brock, 1903).

South of the Treadwell on the Thelma (?) claim (Lot #5182), the "Tommy vein" strikes N50°W and is shown to extend to within 5 metres of the Treadwell claim boundary (Assessment Report #7013). The vein is reported to have the same general characteristics as the Cholla vein and to have a width of 6 feet of solid quartz, giving small assays in gold (Rept. of Minister of Mines, 1915). This vein was not visited when the geochemical survey was conducted.

SOIL GEOCHEMISTRY

Soil samples were collected at 50-metre spacings along two northeasterly trending lines approximately 100 metres apart. Line 00 began at the footbridge above Poole Creek, and continued from 0+50E along the southern claim boundary northeasterly.

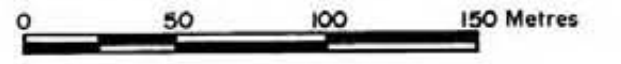


SAMPLE LOCATION MAP

SOIL GEOCHEMISTRY

**TREADWELL
MINERAL CLAIM**

**Camborne Area
Revelstoke Mining Division
N.T.S. 82 K/13 E
Latitude 50°47.5' Longitude 117°38.5'**



Sample Number	Pb ppm	Ag ppm	Au ppb
TR-00+00	69	1.5	65
TR- 00-0+50E	43	0.9	15
1+00E	36	0.6	315
1+50E	35	0.7	5
2+00E	26	4.0	10
2+50E	48	1.1	10
TR-1+00N-0+00	47	1.0	5
0+50E	18	0.5	10
1+00E	29	0.7	10
1+50E	11	0.4	25
2+00E	56	2.8	15
2+50E	64	0.9	10
0+10W	34	3.1	15
0+50W	82	1.1	230

Samples were chiefly residual soil, owing to the generally thin soil horizons developed above bedrock. Soil was, for the most part, brownish-grey clay with abundant angular schist and quartz fragments.

The number of samples precludes any meaningful statistical tests.

Gold values are anomalous at 00, 00-1+00E and 1+00N-0+50W. The latter was taken from the old mill site and the former above the footpath, suggesting contamination as likely sources. The highest value of 315 ppb Au located at 00-1+00E coincides remarkably well to an extension north-westerly of the Tommy vein. Silver values appear independent of gold and lead. Anomalous values occur at 00-2+00E and 1+00N 0+10W. The latter sample was taken from the bottom of an old slumped trench and may also be related to an extension of the Tommy vein. The former sample (at 00-2+00E) was taken from the base of a silicified schist outcrop and consisted principally of rock material. This station is well above the gold anomalies, suggesting a second area of possible mineralization.

CONCLUSIONS

Soil geochemical sampling has indicated anomalous values of both silver and gold on the Treadwell claim which are aligned along strike of the Tommy vein. In addition, anomalous to sub-anomalous values of silver and lead in the eastern portion of the claim may indicate a second parallel (?) structure of mineralization.

RECOMMENDATIONS

1. Fill-in soil geochemical sampling between lines 00 and 1+00N should be completed and possibly a third line 1+50N planned for the western end of the claim.
2. Detailed geological mapping and sampling, in particular locating and tracing the Tommy vein onto the property should be undertaken.
3. Contingent upon steps 1 and 2, the old trench located at 1+00N 0+10W should be excavated with a backhoe-loader.

COST ESTIMATE

1. Soil sampling	\$ 500.00	
Analyses	400.00	
	<u>900.00</u>	
Contingencies @ 10%	90.00	
	<u>990.00</u>	\$ 990.00
2. Geological mapping, sampling	\$1,000.00	
Analyses, assays	500.00	
Vehicle, travel, room, board, supplies	500.00	
Reporting	500.00	
	<u>2,500.00</u>	
Contingencies @ 10%	250.00	
	<u>2,750.00</u>	2,750.00
3. Backhoe-loader, road, trenching	\$5,000.00	
Supervision	1,500.00	
Vehicle, travel, room, board, supplies	750.00	
	<u>7,250.00</u>	
Contingencies @ 20%	1,450.00	
	<u>8,700.00</u>	8,700.00
		<u>8,700.00</u>
TOTAL		\$12,440.00

Respectfully submitted,


James M. Logan
Geologist

Vancouver, B. C.

June 18, 1983

STATEMENT OF QUALIFICATIONS

JAMES M. LOGAN

1. I, James M. Logan, of 5058 Ross Street, Vancouver, B. C., V5W 3K5, am a graduate of Brock University, Ontario, with a B.Sc. (Honours) degree in Geology.
2. I have been engaged in mining exploration for seven years.
3. I have written the report entitled "Preliminary Soil Geochemistry, Treadwell Mineral Claim, Camborne Area, Revelstoke Mining Division" dated June 18, 1983. The report is based on research and fieldwork conducted and supervised by the author.
4. I own, with associates, 100% of the property.
5. 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,

*James Logan*James M. Logan
Consulting Geologist

Vancouver, B. C.

June 18, 1983

REFERENCES

- Allen, G. B., 1978, Camborne Gold Project; Report to Madison Oils Ltd. Assessment Report #7013.
- Brock, R. W., 1903, Camborne Mining Camp; Geol. Surv. Can., Ann. Rept., Part A, p. 60.
- Read, P. B., 1977, Lardeau Map-Area, B. C.; Geol. Surv. Can., Rept. of Activities, Part A, Paper 77-1A.
- Read, P. B., 1976, Lardeau West-Half, B. C.; Geol. Surv. Can., Open File 432.
- Report of Minister of Mines, 1915, B.C.D.M.
- Report of Minister of Mines, 1925, B.C.D.M.
- Report of Minister of Mines, 1934, B.C.D.M.
- Walker, J. F., Bancroft, M. F. and Gunning, H. C., 1929, Lardeau Map-Area, British Columbia, General Geology, Mineral Deposits; Geol. Surv. Can., Memoir 161.

COST STATEMENT, 1982 PROGRAMME

L. Goldsmith - July 10/82 @ \$360/day	\$ 360.00
J. Logan - July 10/82, June 18/83 - 2 days @ \$250/day	500.00
Transportation	75.00
Analyses - 14 soil samples analysed for gold, silver, lead, zinc @ \$14.65/sample	205.10
Reporting, typing, drafting, photocopying	<u>110.80</u>
	\$1,250.90

A P P E N D I X

To: Mr. J.M. Logan,
 5058 Ross Street,
 Vancouver, B.C. V5W 3K5

File No. 23910
 Date September 17, 1982
 Samples Soil



Certificate of
 ASSAY of

LORING LABORATORIES LTD.

cc: L.B. Goldsmith - Vancouver

SAMPLE No.	PPM Pb	PPM Ag	PPB Au
<u>"Soil Samples"</u>			
TR-00+00	69	1.5	65
TR- 00-0+50E	43	0.9	15
1+00E	36	0.6	315
1+50E	35	0.7	5
2+00E	26	4.0	10
2+50E	48	1.1	10
TR-1+00N-0+00	47	1.0	5
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0+10W	34	3.1	15
0+50W	82	1.1	230

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

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

[Signature]
 Assayer