2729

REPORT ON A SOIL GEOCHEMICAL SURVEY,

BAL GROUP,

TCHENTLO LAKE MINES LTD.

(lat. 55° 12' N, long. 125° 05' W)

Omineca Mining Division

by

A. J. Sinclair, P. Eng.

September 30, 1970

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REPORT ON A SOIL GEOCHEMICAL SURVEY,

BAL GROUP,

TCHENTLO LAKE MINES LTD.

SUMMARY:

1. A soil geochemical survey of the Bal group of claims of Tchentlo Lake Mines Ltd., in Omineca Mining Division, was conducted in two stages, during the summers of 1969 and 1970.
2. A graphical analysis of the data as cumulative probability plots allows the fairly precise recognition of cut-off values that separate purely background values, from a range of values that could be either anomalous or background, and higher values that are definitely anomalous.
3. Two large zones, anomalous in both Cu and Mo, have been located. The largest and most significant covers virtually all of Bal 4 claim. The second, and somewhat smaller, includes the southeastern part of Bal 6 claim.
4. Numerous anomalous or possibly anomalous (intermediate) values exist throughout the claims group, particularly in the northwestern part but are not concentrated enought in any one zone to constitute target areas. Some potential remains however, because of the fairly wide line spacing (800 feet) used in the present survey.

REPORT ON A SOIL GEOCHEMICAL SURVEY,

BAL GROUP,

TCHENTLO LAKE MINES LTD.

INTRODUCTION:

Bal Group, owned by Tchentlo Lake Mines Ltd. of Prince George, B. C., consists of 46 claims (Bal 1-16 inclusive, PJ 1-20 inclusive, and TC 1-10 inclusive) and 5 fractions (A 1-5 inclusive). The claims are in the central interior of British Columbia in Omineca Mining Division, on the north shore of Tchentlo Lake, about 60 miles northwest of Fort St. James (figure 1).

Access is via float plane or helicopter from Fort St. James or Smithers. A helicopter pad exists on the property. A possible water route is via Chuchi and Tchentlo lakes.

Molybdenum-copper showings occur on the claims about 1000 to 1500 feet north of Tchentlo Lake on a gently sloping, hummocky surface from 100 to 200 feet above lake level. Tchentlo Lake surface is about 2600 feet a.m.s.l. The claims are in part of an old burn with much deadfall and low brush cover. Small spruce and alder swamps are common between knolls.

Prior to recent work by the principals of Tchentlo Lake Mines there had been no formally recorded exploration work on the Bal showings. During the summers of 1969 and 1970 Tchentlo Lake Mines conducted an investigation of the claims including a soil geochemical survey and the analysis of 12 whole rock chip samples. This work was supervised by Mr. C. Campbell in 1969 and by Tchentlo Lake Mines personnel in 1970.

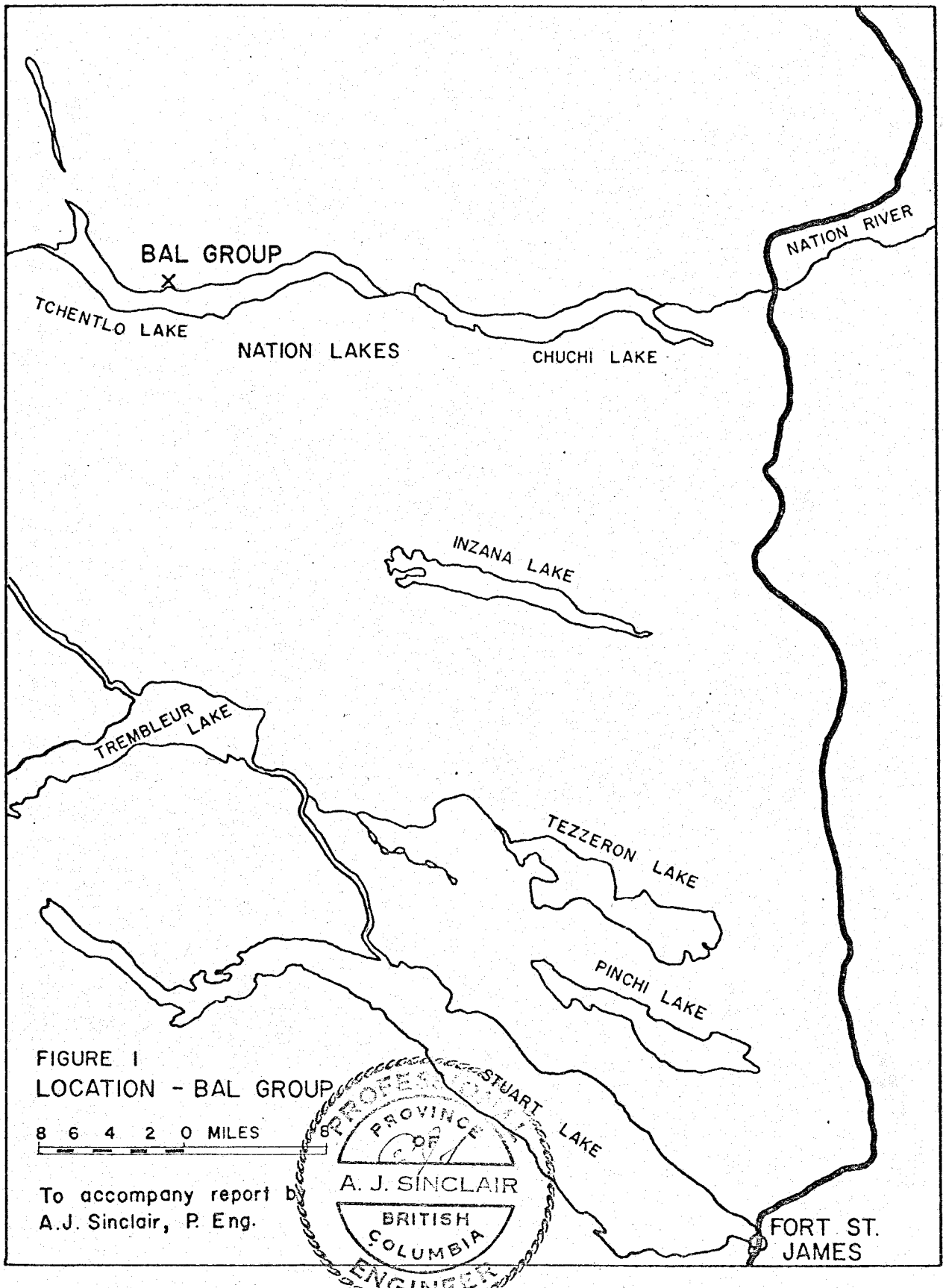


FIGURE 1
LOCATION - BAL GROUP

To accompany report by
A.J. Sinclair, P. Eng.

Additional work by Tchentlo Lake Mines included geological mapping (figure 2), linecutting, and trenching and stripping (figure 8).

GEOLOGY:

Bal Group of claims is underlain by dioritic rocks of the Hogem batholith, presumably of Upper Jurassic or Lower Cretaceous age (Armstrong, 1949). The rock is medium-grained, contains abundant hornblende and recognizable K-feldspar, and may correspond to Armstrong's marginal phase, syenodiroite. Showings are at the south end of the batholith. Figure 2 shows the geology in the vicinity of the showings.

Dioritic rocks are well jointed, with at least 3 prominent sets at all localities examined. Orientations of the 3 sets, however, do not necessarily correspond at any two nearby localities. Two sets are generally steeply dipping with the third set being relatively flat. Each set is fairly close to being at right angles to the other two. All three joint sets are mineralized, principally with pyrite and, to a lesser degree and erratically, with molybdenite and/or chalcopyrite.

The general nature of host rocks and sulphides appears similar at all exposures although molybdenite appears to be most abundant around the claims post common to Bal 1 to Bal 4 inclusive, and in the area of stripping shown in figure 8.

Weathering of the rocks and sulphides has been fairly extensive. Outcrop surfaces are generally rusty in appearance and has been leached on surface. Limonite is particularly abundant along joints mineralized with pyrite. Small patches of malachite stain occur locally.

MINERALIZATION:

Mineralization is locallized almost exclusively in 2 or 3 joint

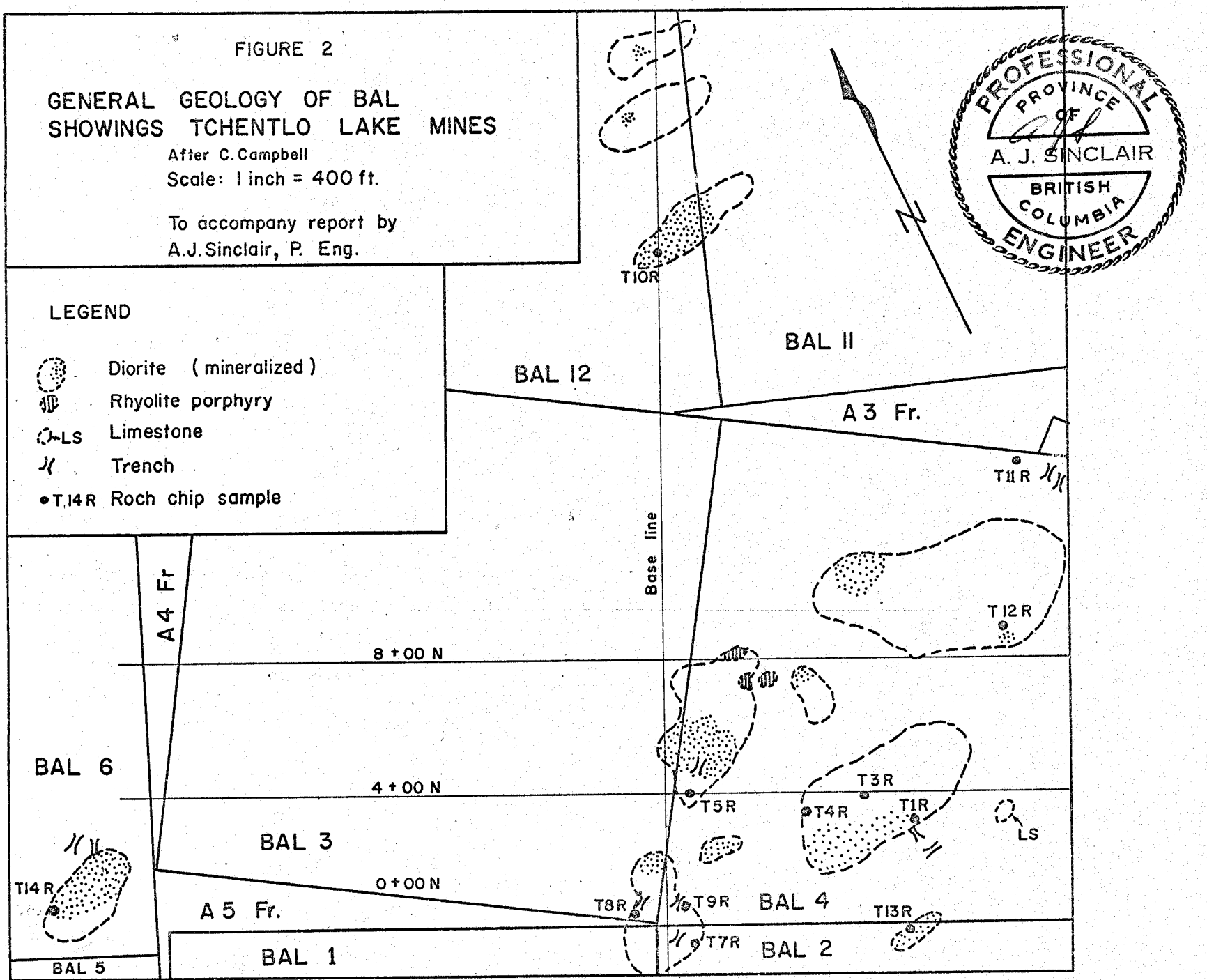
FIGURE 2

GENERAL GEOLOGY OF BAL SHOWINGS TCHENTLO LAKE MINES

After C. Campbell

Scale: 1 inch = 400 ft.

To accompany report by
A.J. Sinclair, P. Eng.



sets that appear to maintain fairly uniform orientations within an outcrop but differ in orientations over distances of 100 feet or more. Pyrite and quartz are the two most abundant materials filling joints, generally ranging in width from thin smears to about one-quarter inch. Not uncommonly smoky quartz occurs in veins up to one inch in width. In general, most veins are less than one-quarter inch in width and contain a much greater proportion of pyrite than of quartz.

Examination of 3 polished sections shows that, where present, molybdenite is concentrated along vein margins as flakes approximately parallel to the vein wall. Chalcopyrite is rare but occurs as minute, anhedral grains interstitial to quartz and pyrite.

Sulphides are extensively weathered. Even seemingly fresh specimens show evidence of limonitization of pyrite in polished sections. Limonite is everywhere abundant and minor amounts of a yellow, secondary, earthy material, probably ferrimolybdite, occur locally. Malachite is present but is extremely rare.

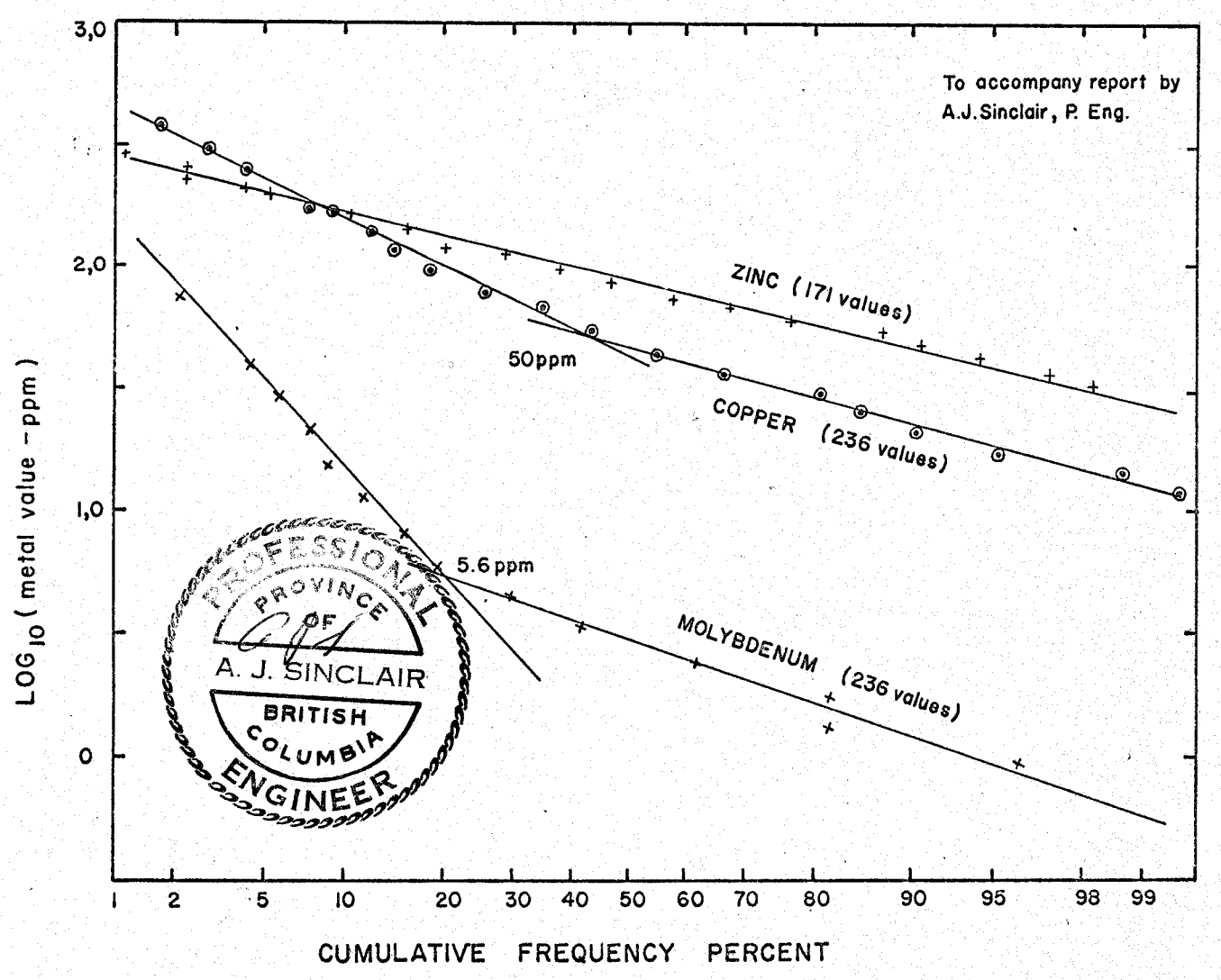
Twelve rock chip samples were taken by Mr. Colin Campbell and analyzed for Cu, Mo and Ag by Vancouver Geochemical Laboratories Ltd., North Vancouver. Results are given in Appendix I: locations of rock chip samples are shown in figure 2.

GEOCHEMISTRY:

1969 Soil Survey Data:

A total of 236 soil samples were taken by Mr. C. Campbell and submitted to Vancouver Geochemical Laboratories Ltd., to be analyzed for Cu and Mo. One hundred and seventy-one of these samples were also analyzed for Zn. These data, listed in Appendix II, were plotted as cumulative

FIGURE 3
CUMULATIVE FREQUENCY PLOTS
Zn, Cu AND Mo IN SOIL SAMPLES



curves on log probability paper (figure 3) to aid in interpretation. Means and standard deviations for both arithmetic and logged data are listed in Table I.

TABLE I

ARITHMETIC AND GEOMETRIC MEANS AND STANDARD DEVIATIONS OF 1969 SOIL GEOCHEMICAL RESULTS

	N	Arithmetic		Logarithmic		
		x	s	mean	x + s	x - s
Cu	236	78	106	55	116	26
Mo	236	9.3	32	3.3	12	0.9
Zn	171	98	59	86	140	53

All values in ppm

The cumulative probability plot for zinc indicates that a single population exists. A further examination of high zinc values, including those greater than 2 standard deviations above the mean value, showed an apparent erratic geographic distribution. Hence, zinc analyses in themselves do not provide a useful means of outlining target areas. However, cumulative probability plots for both Cu and Mo (figure 3) indicate that each consists of two populations. In the case of copper, a value of 50 ppm separates a lower background population from a higher anomalous population. Similarily, Mo values of 6 ppm and above are anomalous whereas those less than 6 ppm represent a background population.

Sample locations and anomalous geochemical sites are shown plotted on figure 4. Several relatively large anomalous areas are evident. The most significant anomalous zone appears to be that centred over Bal 4 claim and occupying an area of more than 1500 feet by 1000 feet. This large area is characterized by anomalous values of both Cu and Mo and coincides with abundant outcrops of mineralized diorite. A second area anomalous for both Cu and Mo, but less well defined than the

first area, occupies the southern and eastern parts of Bal 6 claim. A third area occupying much of claims TC 1 and TC 2 contains abundant anomalous Cu values but few anomalous Mo values.

1970 Soil Survey Data:

A total of 507 soil samples were taken in the summer of 1970 by Mr. Wm. Rigler of Tchentlo Lake Mines Ltd., and submitted to Vancouver Geochemical Laboratories Ltd. to be analyzed for Cu and Mo. Photocopies of the results are included in Appendix III. Results of the 1970 soil survey have been kept separate from earlier data because of the possibility of different biases in sampling technique and because of possible differences in analytical procedures from one year to the next. Furthermore, the 1970 analyses have been divided into 2 groups, primarily because they were analyzed in two separate batches. The two groups of data in large part represent two separate geographic parts of the property. Group #1 data were obtained mostly from an area east of and including the two short north-sourth base lines at 4800 E and 5600 E.

Arithmetic data for Cu and Mo have been used to plot the histograms shown in figure 5. In all cases the distributions are strongly, positively skewed and thus approach lognormal rather than arithmetic normal distributions. Means and standard deviations derived from both arithmetic and logged data are shown in Table II.

The 1970 soil geochemical data were plotted on probability paper (figures 6 and 7) maintaining the two groups separately. Several aspects of the cumulative curves are of interest:

(1) The plot for Cu from Group #2 gives essentially the same information as does the corresponding plot for 1969 data, i. e. a break in the curve at 50 ppm separating those values that are definitely background from

FIGURE 5

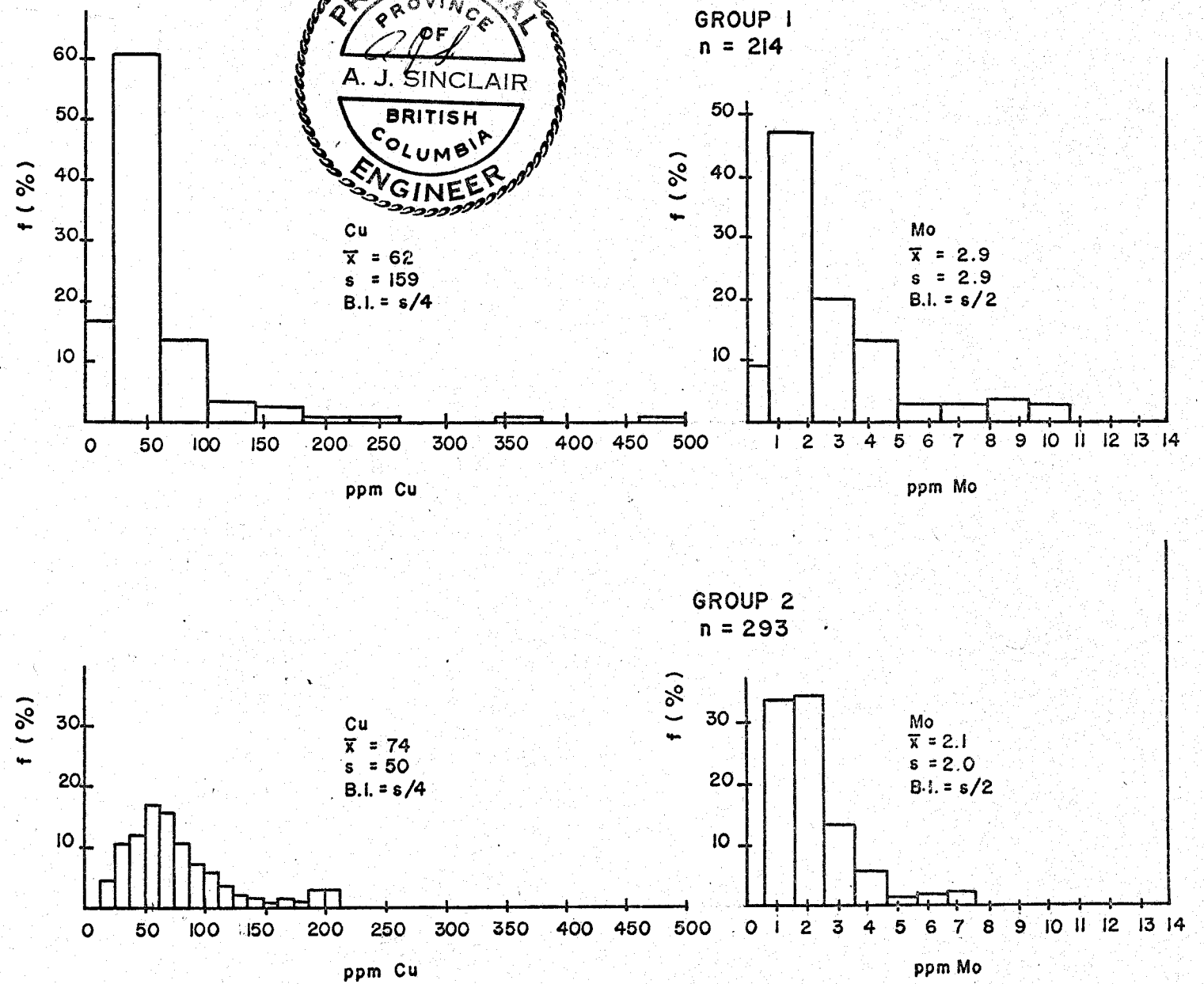


TABLE II

ARITHMETIC AND GEOMETRIC MEANS AND STANDARD DEVIATIONS OF 1970 SOIL GEOCHEMICAL RESULTS

		N	Arithmetic x	Arithmetic s	Logarithmic mean	Logarithmic x+s	Logarithmic x-s
Group #1	Cu	214	62	159	43	83	22
	Mo	214	2.9	2.9	0.8	3.0	0.02
Group #2	Cu	293	74	50	57	235	14
	Mo	293	2.1	2.0	0.9	1.7	0.05

All values in ppm

higher values. The fact that identical values were obtained is fortuitous, of course, although one would expect the two values to be very close because the two sets of data are interdispersed in much the same area.

(2) A pronounced difference exists between cumulative plots of Cu for the two groups of 1970 data. The apparent disparity is not serious and can be explained relatively easily by decomposing each of the complex curves into their respective component populations. This is shown in figure 7 for Cu from Group #1. The lognormal population B shown in the diagram is an approximation of the background density distribution. In logarithmic terms this is about 1.43 ± 0.14, or in more meaningful arithmetic terms 27^{+10}_{-7}. For Group #2 data the approximate background distribution is 38^{+23}_{-16}. The two are appreciably different and it seems probable, therefore, that background values increase slightly from east to west in the claims block. Similar reasoning for the two anomalous populations shows that the eastern block (Group #1) has an anomalous population with higher mean and larger standard deviation than does the western population represented by Group #2. The general conclusion, then, is that both background and anomalous populations differ appreciably in the eastern and western parts of the sampled areas.

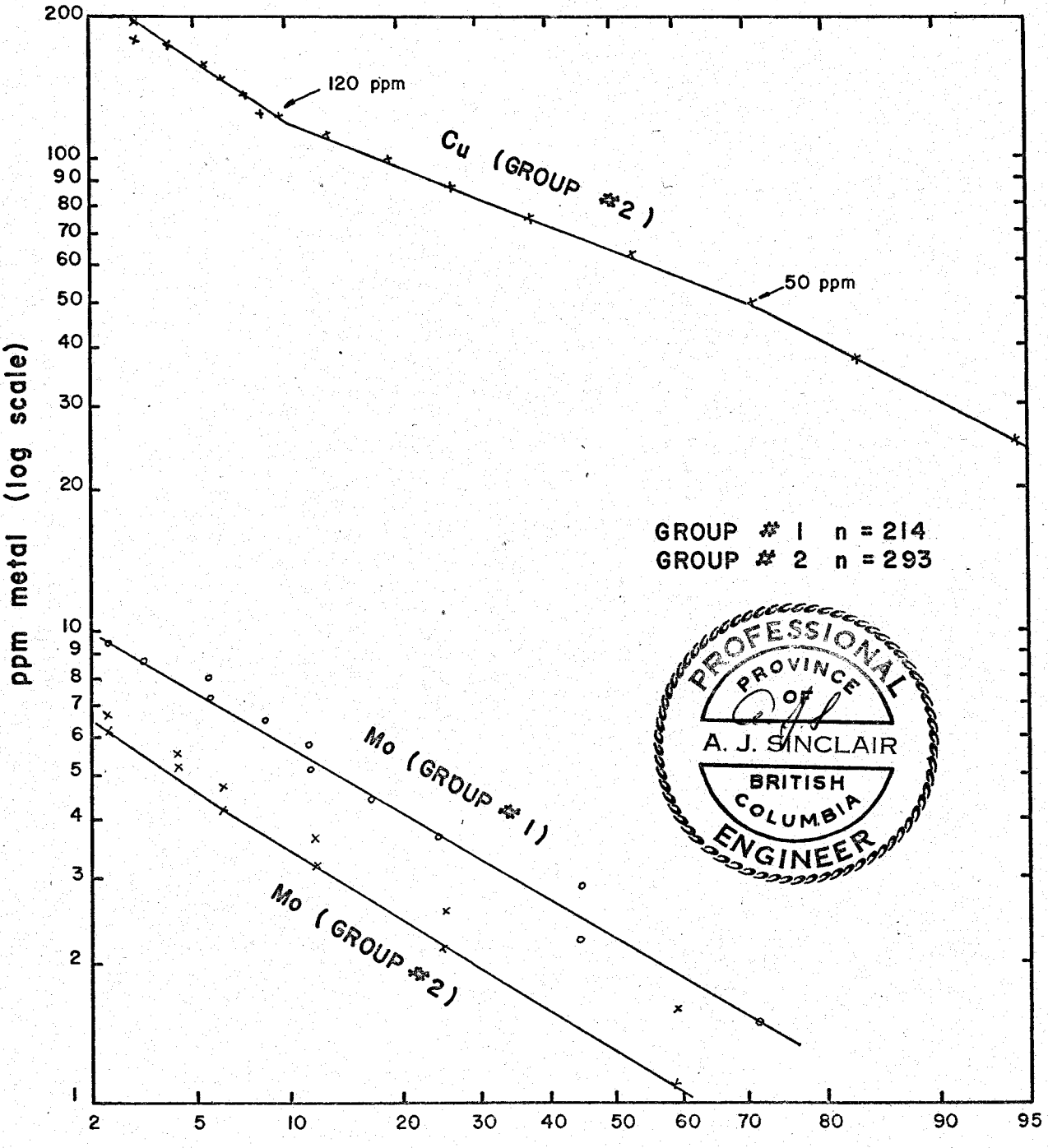


FIGURE 6

(3) Cumulative curves for copper from both groups have two definite breaks in slope. That part of each curve lying between the breaks represents a mixture of two populations designated A (anomalous) and B (background) as shown in figure 7. Those values above the upper break are entirely from the anomalous population whereas those values below the lower break are entirely background. In the case of Group #1 data all values above 73 ppm Cu are anomalous and all those below 25 ppm are background. Intermediate values could belong to either population. For Group #2 the breaks occur at 120 ppm Cu and 50 ppm Cu. Many of those intermediate values plotting close to anomalous values can probably be assumed to be anomalous, but in general, it is almost impossible to decide whether or not a given intermediate value is anomalous. Hence, it has become common proctice in a first examination of data to assume that all intermediate values are anomalous. This is not justified in the present case because such a large proportion of the values are intermediate.

Discussion of 1970 Results:

For purposes of discussion the 1970 results will be considered for 2 geographic areas: Area 1 corresponding with that part of the claims group lying east of the two base lines at 4800 E and 5600 E, and Area 2 the region to the west of these two baselines.(see figure 8). This geographic grouping corresponds very closely to the division of data into Groups #1 and #2 respectively.

In area 1 soil Cu values that are definitely anomalous are scattered somewhat erratically north of line 2400 N. These values do not concentrate sufficiently in any one zone that could be considered a detailed target for further detailed exploration. South of line 2400 N virtually all Cu values are in the background population.

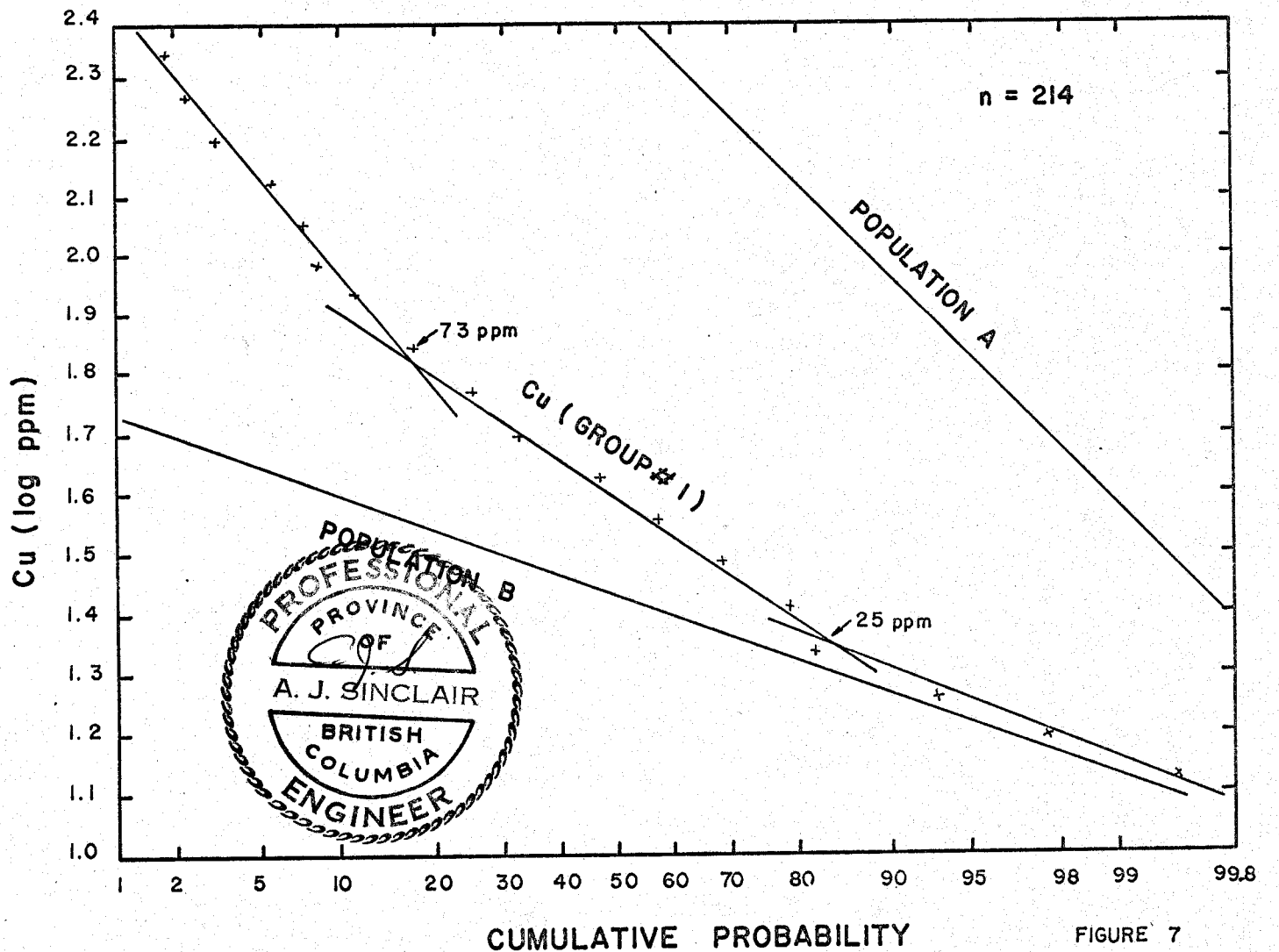

n = 214
POPULATION A
POPULATION B
Cu (GROUP#1)
73 ppm
25 ppm
Cu (log ppm)
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
1
2
5
10
20
30
40
50
60
70
80
90
95
98
99
99.8
CUMULATIVE PROBABILITY
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
A. J. SINCLAIR

FIGURE 7

Area 2 data should be considered in light of both the 1969 results and Group #2 of the 1970 results since both sets of data represent in part, the same general area and are interdispersed to some extent. Anomalous and intermediate values of Group #2 data are dispersed throughout the area and in general add only limited information to that already indicated by the 1969 data (figure 4). Numerous high values centred about the main baseline on line 1600 N suggest that the target defined on the lower half of Bal 4 claim might be extended to include virtually all of that claim. The western extension of line 800 N also contains mainly anomalous and intermediate values, and suggests that a substantial sized target might exist on Bal 6 claim (supporting the 1969 results). Elsewhere in Area 2 intermediate and anomalous values are abundant and more-or-less evenly scattered. Consequently, they do not define specific target areas!

CONCLUSIONS:

A soil geochemical survey on Bal group of claims of Tchentlo Lake Mines Ltd. has delineated two reasonably well-defined zones anomalous in both Cu and Mo. The largest and probably most significant of these covers virtually all of Bal #4 claim. The second, and less well-defined is the southeastern part of Bal #6 claim. Elsewhere, except in the southeastern part of the claims group, anomalous values are interdispersed with background values and do not indicate large, well-defined targets. However, considerable potential remains in much of the property because of the wide spacing of grid lines used in the survey and several "fill-in" lines should be sampled, especially in area 2 and the northern part of area 1.

A. J. Sinclair, P. Eng.
Sept. 30, 1970

PROVINCE OF BRITISH COLUMBIA
A. J. SINCLAIR
ENGINEER

BIBLIOGRAPHY:

1. Armstrong, J. E., 1949, Fort St. James map-area, Cassiar and Coast districts, B. C., Geol. Surv. Canada, Memoir 252.

2. Lepeltier, C., 1969, A simplified statistical treatment of geochemical data by graphical representation; Econ. Geol., vol. 64, p. 538-550.

3. Manson River Sheet 93-N, National Topographic System.

4. Smithers-Fort St. James, B. C., Geol. Surv. Canada, Map 971A.

CERTIFICATE

I, Alastair J. Sinclair, of the city of Vancouver, province of British Columbia, hereby certify:

1. That I am a Geological Engineer residing at 5869 Dunbar St., Vancouver 13, B. C.

2. That I obtained a B. A. Sc. degree in Applied Geology from the University of Toronto in 1957, an M. A. Sc. degree in Geological Engineering from the University of Toronto in 1958, and a Ph. D. in Geology from the University of British Columbia in 1964.

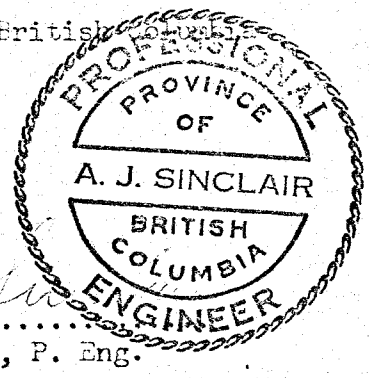
3. That I am a registered Professional Engineer in the Province of Ontario in the Mining Division, and in the Province of British Columbia in the Geology Branch.

4. That I have practised my profession for thirteen years.

5. That I have no interest directly or indirectly, nor do expect to have any direct or indirect interest in the properties or securities of Tchentlo Lake Mines Ltd., or any affiliated companies.

6. That the accompanying report is based on visits to the Bal group in 1969 and 1970, and personal analysis of Geochemical data obtained under the supervision of Mr. Colin Campbell and Mr. Wm. Rigler.

Dated at Vancouver in the Province of British Columbia this 30th day of September, 1970.



A. J. Sinclair, P. Eng.

APPENDIX I

ROCK GEOCHEMISTRY RESULTS - 1969

Sample locations shown in figure 2

GEOCHEMICAL ANALYTICAL REPORT

1521 Pemberton Ave.
North Vancouver, B.C.
988-2171

Date: Sept.26, 1969

Report Number: 69-51-002

From: Tchentlo Lake Mines Ltd.
#201 - 1595 Fifth Street
Prince George, B. C.

Submitted By: Mr. Colin Campbell

Repor: On: 12 rock samples for trace analysis

Analyzed For: Mo, Cu, Ag

Date Sample Received:

Date Report Mailed: Sept.26, 1969

Weight of Sample Used: 0.50 gr

Extraction: hot $HClO_4$, HNO_3

Method of Analyses: Atomic Absorption Spec.
Nitrous oxide & Actylene fuel for Mo
Acetylene & air for fuel for Cu, Zn

Volume of Dilution: 25 ml

Instrument Used: Techtron AA4 & AA5

Disposition of Sieved Material: in file

Analyst: C. Chun L. Nicol

Signed: C. Chun

REMARKS: one copy sent to Mr. Colin Campbell, Vancouver
Mo Sensitivity 1.0 ppm
Ag " 0.5 "

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instrument used.

Lab. No.	Sample Number	Mo	Cu	Ag				Remarks
01	T 1 R	56	220	1.0				
02	3	164	420	1.0				
03	4	18	250	1.5				
04	5	75	260	2				
05	7	218	640	1.5				
06	8	1,120	770	1.0				
07	9	314	480	1.5				
08	10	10	170	1/0	Ag =	1.0		
09	11	370	460	1.5	Cu =	460		
10	12	14	280	1.5				
11	13	145	285	1.5				
12	T 14 R	21	250	1.5				
13								
14								
15								

APPENDIX II

SOIL GEOCHEMISTRY RESULTS - 1969

Mo, Cu and Zn values in ppm

VANCOUVER GEOCHEMICAL LABORATORIES LTD.

GEOCHEMICAL ANALYTICAL REPORT

1521 Pemberton Ave.
North Vancouver, B.C.
988-2171

Date: September 15/69

Report Number: 69-51-001

From: Tchentlo Lake Mines Ltd.(N.P.L.)
201, 1595 Fifth Avenue
Prince George, B.C.

Submitted By: C.J. Campbell

Report On: 173 geochem samples

Analyzed For: Mo, Cu, & Zn

Date Sample Received: September 10/69

Date Report Mailed: September 17/69

Weight of Sample Used: 0.5 gm

Extraction: Hot HNO_3 & $HClO_4$

Method of Analyses: Atomic Absorption Spec.
Nitrous & Acetylene for Mo;
Acetylene & Air for Cu & Zn.

Volume of Dilution: 10 mls

Instrument Used: AA4 & AA5

Disposition of Sieved Material: in file

Analyst: C. Chun & L. Nicol

Signed: L J Nicol

REMARKS: N = none-detected

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instrument used.

Lab. No.	Sample Number	Mo	Cu	Zn				Remarks
01	P- 1-S	5	89	100				
02	2	1	31	50				
03	3	2	28	72				
04	4	1	45	80				
05	5	4	44	84				
06	6	2	27	43				
07	7	3	38	40				
08	8	5	47	51				
09	9	3	35	56				
10	10	4	45	58				
11	11	26	140	87				
12	12	4	169	85				
13	13	37	106	110				
14	14	9	35	79				
15	P- 15-S	4	21	45				

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1521 Pemberton Ave.
North Vancouver, B.C.
988-2171

Date: September 15/69 Report Number: 69-51-001

From: Tchentlo Lake Mines Ltd. Analyst: C. Chun & L. Nicol

Lab. No.	Sample Number	Mo	Cu	Zn				Remarks
01	B- 16 -S	2	19	50				
02	17	2	72	59				
03	18	2	18	31				
04	19	3	26	74				
05	20	8	187	100				
06	21	8	400	115				
07	22	4	495	80				
08	23	2	46	58				
09	24	5	99	100				
10	25	3	77	76				
11	26	2	58	70				
12	27	3	50	60				
13	(28) -28 A	N	43	60				68 N- B-P
14	95 -28 B	N	27	87				70 N- B-S
15	~~29~~ 29	4	224	90				
16	on coding form 30	3	57	93				
17	31	3	60	68				
18	32	2	19	85				
19	33	5	60	115				
20	34	2	23	75				
21	35	4	50	100				
22	36	3	49	77				
23	37	1	18	38				
24	38	N	25	73				
25	39	9	46	70				
26	40	5	35	64				
27	41	4	20	34				
28	42	N	15	36				
29	43	1	32	115				
30	B - 44-S	3	45	96				

VANCOUVER GEOCHEMICAL LABORATORIES LTD.

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1521 Pemberton Ave.
North Vancouver, B.C.
988-2171

Date: September 15/69 Report Number: 69-51-001

From: Tchentlo Lake Mines Ltd. Analyst: C. Chun & L. Nicol

Lab. No.	Sample Number	Mo	Cu	Zn				Remarks
01	B - 45 - S	6	34	155				
02	46	5	41	350				
03	47	3	44	102				
04	48	4	45	83				
05	49	4	29	185				
06	50	3	36	190				
07	51	4	94	220				
08	52	1	67	68				
09	53	3	40	82				
10	54	5	48	190				
11	55	5	70	74				
12	56	5	148	112				
13	57	3	40	46				
14	58	10	58	139				
15	59	3	90	65				
16	60	5	75	155				
17	61	1	35	60				
18	62	2	33	63				
19	63	1	51	53				
20	64	2	79	90				
21	65	2	37	45				
22	66	4	20	89				
23	67	7	54	75				
24	68	11	64	92				
25	69	6	75	115				
26	70	16	100	111				
27	71	7	69	130				
28	72	5	78	170				
29	73	4	79	87				
30	B- 74 -S	3	36	65				

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Date: September 15/69 Report Number: 69-51-001

From: Tchentlo Lake Mines Ltd. Analyst: C. Chun & L. Nicol

Lab. No.	Sample Number	Mo	Cu	Zn				Remarks
01	B - 75 - S	4	27	80				
02	76	5	181	130				
03	77	2	58	57				
04	78	3	84	58				
05	79	27	330	132				
06	80	9	43	54				
07	81	8	57	123				
08	82	11	73	72				
09	83	70	193	95				
10	84	17	73	120				
11	85	56	480	123				Mo= 56
12	86	25	195	150				
13	87	3	50	103				
14	88	5	68	92				
15	89	1	32	62				
16	90	1	34	40				
17	91	1	35	63				
18	92	2	35	110				
19	95 93	12	74	158				
20	B - 94 -S	6	63	110				
21	T - 1 -S	2	41	102				
22	2	3	34	84				
23	3	10	260	190				
24	4	8	185	510				
25	5	25	185	68				
26	6	3	57	165				
27	7	3	44	93				
28	8	3	17	116				
29	9	1	20	55				
30	T - 10 -S	2	58	160				

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North Vancouver, B.C.
988-2171

Date: September 15 /69 Report Number: 69-51-001

From: Tchentlo Lake Mines Ltd. Analyst: C. Chun & L. Nicol

Lab. No.	Sample Number	Mo	Cu	Zn				Remarks
01	T - 11 - S	2	24	57				
02	12	1	15	90				
03	13	5	45	136				
04	14	8	35	120				
05	15	122	270	220				
06	16	40	163	105				
07	17	55	229	158				
08	18	425	167	200				
09	19	83	175	70				
10	20	24	42	58				
11	21	12	45	97				
12	22	20	70	105				
13	23	7	53	170				
14	24	5	47	265				
15	25	2	35	67				
16	26	1	34	115				
17	27	1	23	85				
18	28	1	22	49				
19	29	1	29	77				
20	30	2	16	67				
21	31	2	17	58				
22	32	3	32	62				
23	33	3	36	155				
24	34	4	54	128				
25	35	6	80	57				
26	36	3	38	112				
27	37	3	18	70				
28	38	2	25	110				
29	39	3	37	75				
30	T - 40 - S	4	50	219				

VANCOUVER GEOCHEMICAL LABORATORIES LTD.

GEOCHEMICAL ANALYTICAL REPORT

1521 Pemberton Ave.
North Vancouver, B.C.
988-2171

Date: September 15/69 Report Number: 69-51-001

From: Tchentlo Lake Mines Ltd. Analyst: C. Chun & L. Nicol

Lab. No.	Sample Number	Mo	Cu	Zn				Remarks
01	T - 41 - S	3	32	106				
02	42	N	33	73				
03	43	1	34	114				
04	44	2	41	87				
05	45	5	45	85				
06	46	2	14	29				
07	47	2	46	66				
08	48	3	25	58				
09	49	1	8	150				
10	50	N	24	47				
11	51	1	22	55				
12	52	10	105	54				
13	53	1	17	78				
14	54	1	~~35~~	50				Cu= 14
15	55	1	18	32				
16	56	4	30	54				
17	57	3	32	59				
18	58	3	19	40				
19	59	2	18	39				
20	60	11	60	285				
21	61	122	365	117				
22	62	15	31	67				
23	63	1	19	44				
24	64	15	318	165				silt
25	65	4	28	85				
26	66	5	35	143				
27	67	3	45	82				
28	68	4	50	125				
29	69	6	38	103				
30	T - 70 - S	6	58	60				

VANCOUVER GEOCHEMICAL LABORATORIES LTD.

GEOCHEMICAL ANALYTICAL REPORT

1521 Pemberton Ave.
North Vancouver, B.C.
988-2171

Date: September 15/69 Report Number: 69-51-001

From: Tchentlo Lake Mines Ltd. Analyst: C. Chun & L. Nicol

Lab. No.	Sample Number	Mo	Cu	Zn				Remarks
01	T - 71 - S	14	135	110				
02	72	37	69	77				
03	73	10	116	81				
04	74	12	37	58				
05	75	64	175	140				
06	76	64	1300	150				
07	77	107	300	140				
08	T - 78 - S	32	138	58				
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GEOCHEMICAL SOIL SURVEY

CAMP _____ SAMPLE CODE _____

COLLECTOR Rigby + Anderson PROJECT T.C. GROUP. AREA (Lake, River) _____

DATE _____ MAP SHEET _____ AERIAL PHOTO _____

No.	SAMPLE No.	LOCATION LINE	LOCATION STN.	TOPO.	DRAIN	TERR.	VEG.	SOIL TYPE	DEPTH HORIZ.	COLOUR	TEXT.	REMARKS	ANALYTICAL RESULTS Mo	ANALYTICAL RESULTS Cu		
1	TC 1 201	BL	28	N 62N	Good		PINE	CLAY		Gray			1	21		
2	2 202	BL	26	N 60N	POOR		BAL	Clay		Gray			3	46		
3	3 203	BL	24	N 58	Good		P	M		BORUN			2	85		
4	4 204	BL	22	N 56	M		P	M		BORUN			2	48		
5	5	BL	20	N 54	M		P	M		RED B			3	64		
6	6	BL	18	N 52	M		PW	M		L BORUN			4	110		
7	7	BL	16	N 50	Good		SPR	M		L BOURN			2	60		
8	8	BL	12	N 46	M		PINE SPR	CLAY		Gray			1	74		
9	9	BL	10	N 44	M		P.	M		L BORUN			1	26		
10	10	BL	8N	42N	M		P	CLAY		L BORUN			1	95		
11	11	BL	6 N	40 N	M		ADLER WILL	M		L BORUN			4	108		
12	12	BL	2 N	36 N	M		PINE	M		L BORUN			nd	51		
13	13	BL	00	34 N	POOR		PINE WILL	CLAY		L BROUN			2	68		
14	14	L.O.P.	14"	L34N	POOR		ALDER	M		BROUN			4	143		
15	15	L.O.P.	12W	"	POOR		ALDER	M		L BROUN			4	88		
16	16	L.O.P.	10W	"	Good		ALDER PINE	M		L BROUN			1	50		
17	17	L.O.P.	8W	"	Good		" "	"		R BROUN			2	46		
18	18	L.O.P.	6W	"	M		PINE WILL	"		L BROUN			2	61		
19	19	L.O.P.	4W	"	M		"	"		"			3	46		
20	20	L.O.P.	2W	"	M		PINE	M		RED BROUN			3	47		

GEOCHEMICAL SOIL SURVEY

CAMP _____ SAMPLE CODE _____

COLLECTOR _____ PROJECT T.C. GROUP. AREA (Lake, River) _____

DATE _____ MAP SHEET _____ AERIAL PHOTO _____

No.	SAMPLE No.	LOCATION LINE	LOCATION STN.	TOPO.	DRAIN	TERR.	VEG.	SOIL TYPE	DEPTH HORIZ.	COLOUR	TEXT.	REMARKS	ANALYTICAL RESULTS Mo	ANALYTICAL RESULTS Cu
1	TC21	L-0E	14E	L34N	M		PINE SPR	M		L BROWN			3	40
2	22	L-0E	12E	"	POOR		ALDER WILL	M		" "			8	94
3	23	L-0E	10E	"	" "		ALDER SPR	M		Gray			4	117
4	24	L-0E	8E	"	" "		SPR WILL	M		Gray			3	85
5	25	L-0E	6E	"	M		P WILL	M		L BROWN			4	60
6	26	L-0E	4E	"	M		" "	M		" "			1	80
7	27	L-0E	2E	"	M		ALDER PINE	M		" "			1	48
8	28	L-4N	14W	L38N	M		WILL PINE	M		" "			2	47
9	29	L-4N	12W	"	M	WILL	M			"			2	180
10	30	L-4N	10W	"	M	WILL ALDER	M			BROWN			3	65
11	31	L-4N	8W	"	Good	PINE BALSAM	M			L BROWN			4	110
12	32	L-4N	6W	"	Good	PINE ALDER	M			BROWN			4	80
13	33	L-4N	4W	"	Good	SPR ALDER	M			BROWN			3	85
14	34	L-4N	2W	"	Good	SPR PINE	M			RED BROWN			2	45
15	35	L-4N	14E	"	POOR	ALDER	M			BROWN			6	115
16	36	L-4N	12E	"	Good	PINE	M			L BROWN			2	30
17	37	L-4N	10E	"	Good	PINE	M			L BROWN			2	40
18	38	L-4N	8E	"	M	PINE SPR	M			L BROWN			3	25
19	39	L-4N	6E	"	POOR	WILL SPR	M			L BROWN			2	90
20	40	L-4N	4E	"	M	PINE ALDER	M			L BROWN			1	57

N.B OVER

No	Line	Sta	Drain	Veg	Soil Type	C	Mo	Co
41	L-36N L-7W	2 E	Poor	SPR Alder	M	L Broun	4	73
42	L-8 N L42N	14W	Good	Pine, Will	M	" "	3	58
43	L-8N L42N	12W	Good	Pine Will	M	Gray	1	70
44	L-8N L42N	10W	Good	Pine Spr Will	M	L Broun	2	83
45	L-8N L42N	8W	M	Alder Will	M	L " "	2	107
46	L-8N L42N	6W	Good	Pine Will	M	" "	3	95
47	L-8N L42N	4W	Good	" "	M	" "	3	80
48	L-8N L42N	2W	Good	Pine Alder	M	Red Broun	na	46

GEOCHEMICAL SOIL SURVEY

CAMP _____ SAMPLE CODE _____

COLLECTOR _____ PROJECT T.C. GROUP AREA (Lake, River) _____

DATE _____ MAP SHEET _____ AERIAL PHOTO _____

No.	SAMPLE No.	LOCATION LINE	LOCATION STN.	TOPO.	DRAIN	TERR.	VEG.	SOIL TYPE	DEPTH HORIZ.	COLOUR	TEXT.	REMARKS	ANALYTICAL RESULTS Mo	Cu		
1	TC 49	L-8N	2E	L42W	Good	PINE SPR	PINE SPR	M		L BROWN			2	49		
2	50	L-8N	4E	"	POOR		SPR WILL	M		Grey			3	93		
3	51	L-8N	6E	"	POOR		PINE WILL	M		L BROWN			2	150		
4	52	L-8N	8E	"	POOR		ALDER WILL	M		" "			2	265		
5	53	L-8N	10E	"	Good		PINE	M		RED BROWN			2	44		
6	54	L-8N	12E	"	Good		PINE WILL	M		L BROWN			1	62		
7	55	L-8N	14E	"	Good		PINE	M		" "			3	37		
8	56	12N	2W	L4W	POOR		SPR WILL	M		" "			2	25		
9	57	12N	4W	"	POOR		" "	M		" "			1	38		
10	58	12N	6W	"	POOR		" "	M		" "			2	36		
11	59	12N	8W	"	Good		SPR PINE	M		" "			nd	37		
12	60	12N	10W	"	Good		SPR PINE			RED BROWN	12.5		3	115		
13	61	12N	14W	"	Good		PINE	M		RED BROWN			3	205		
14	62	12N	2E	"	M		SPR PINE	M		BROWN			2	130		
15	63	12N	8E	"	Good		PINE	M		RED BROWN			4	23		
16	64	12N	11E	"	" "		" "	M		" "			2	35		
17																
18																
19																
20										" "	"					

APPENDIX III

SOIL GEOCHEMISTRY RESULTS - 1970

Mo and Cu values in ppm

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2172

GEOCHEMICAL ANALYTICAL REPORT

REPORT No. 70-85-001 DATE June 19, 1970

SAMPLES SUBMITTED BY R.Rigler COMPANY Tchentlo Lake Mines Ltd.

SHIPPED VIA Greyhound FROM Prince George, B. C.

REPORT ON 213 soil samples for Mo, Cu; 1 rock sample for Cu. DATE SAMPLES ARRIVED June 13/70

* * *

COPIES OF THIS REPORT SENT TO: **TRANSMITTED BY:**

(1) Tchentlo Lake Mines Ltd., c/o Louis A. Jewitt, — mail

(2) Suite 201, 1595 - 5th Avenue, Prince George, B.C.

(3)

SAMPLES SIFTED OR GROUND TO -80 MESH WEIGHT USED 0.5 g

FINAL VOLUME 10 ml ALIQUOT USED n/a

* * *

METHOD OF ANALYSIS: Instrumental - Atomic Absorption

EXTRACTION: $HClO_4$ and HNO_3

DETECTION: Techtron AA4 and AA5

SAMPLES ASSIGNMENT: (a) PREPARED SAMPLES: filed

(b) REJECTS: discarded

* * *

ANALYST(S) TYPIST ati.

SUPERVISING CHEMIST L.J. Nicol CHECKED BY C. CHUN

nd = none detected

COSTS:

SHIPPING CHARGE	$ ---
SAMPLE PREPARATION	$ 43.45
ANALYSIS	$320.50
OTHER	$ ---
TOTAL	$363.95

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Tchentlo Lake Mines Ltd. REPORT No. 70-85-001 PAGE 1 OF 6

MARKING	Mo	Cu		
BL 48 E 0+00 2W 694	1	31		
4 95	2	20		
6 96	6	115		
8 97	3	20		
10 98	3	38		
12 99	4	26		
14 700	3	21		
16 01	3	26		
18 02	1	15		
20W 03	4	19		
2E 04	nd	21		
4 05	1	25		
6 06	1	14		
8 07	3	36		
10 08	2	21		
12 09	1	18		
14 710	nd	15		
16 11	nd	17		
18 12	4	42		
BL48 E 0+00 20E 13	2	13		

MARKING	Mo	Cu		
BL48E 8N 2W 714	1	16		
4 15	1	17		
6 16	2	18		
8 17	1	21		
10 18	1	20		
12 19	4	35		
14 20	2	30		
16 21	2	20		
20W 22	16	84		
2E 23	nd	21		
4 24	nd	21		
6 25	1	20		
8 26	1	17		
10 27	2	20		
12 28	2	24		
14 29	3	20		
16 30	3	30		
18 31	1	34		
BL48E 8N 20E 32	nd	25		

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

70-85-001

COMPANY Tchentlo Lake Mines Ltd. REPORT No. PAGE 2 OF 6

MARKING		Mo	Cu		
BL 48E 8N 22E	733	3	20		
26	34	2	39		
28	35	5	57		
BL 48E 8N 30E	36	3	31		
BL 48E16N 2E	37	4	41		
4	38	2	37		
6	39	1	20		
8	40	1	22		
10	41	nd	26		
12	42	nd	25		
16	43	3	24		
18	44	3	57		
20	45	1	15		
22	46	3	18		
24	47	nd	26		
26	48	2	35		
28	49	1	28		
30	50	1	28		
BL 48E16N 32E	51	2	120		
BL 48E24N 2E	52	2	50		

MARKING		Mo	Cu		
BL48E 24N 4E	753	5	81		
6	54	3	45		
8	55	6	42		
10	56	4	75		
12	57	4	60		
14	58	5	80		
16	59	4	48		
18	60	1	20		
20	61	3	34		
22	62	2	35		
24	63	nd	35		
26	64	1	35		
28	65	1	34		
30	66	3	30		
BL48E24N 32E	67	2	34		
BL48E32N 2E	68	5	76		
4	69	2	58		
8	70	3	36		
BL48E32N 10E	71	5	64		

REMARKS

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Tchentlo Lake Mines Ltd. REPORT No. 70-85-001 PAGE 3 OF 6

MARKING	Mo	Cu		
BL 48E 32N 12E 72	21	90		
14 73	22	172		
16 74	2	58		
18 75	2	57		
20 76	4	48		
22 77	1	45		
24 78	4	55		
26 79	1	35		
28 80	3	44		
30 81	3	44		
BL 48E 32N 32E 82	4	30		
BL 48E 40N 2E 83	3	38		
4 84	2	32		
6 85	3	40		
8 86	3	25		
10 87	3	24		
12 88	2	32		
14 89	2	48		
16 90	3	47		
BL 48E 40N 18E 91	2	50		

MARKING	Mo	Cu		
BL 48E 40N 20E 742	11	127		
22 43	8	70		
24 94	6	63		
26 95	3	60		
28 96	7	48		
30 97	4	26		
BL 48E 40N 32E 99	4	61		
BL 48E 46N 2E 99	1	57		
4 801	1	21		
6 801	2	40		
8 02	1	27		
10 03	nd	20		
12 04	1	26		
14 05	1	30		
16 06	1	40		
18 07	1	31		
20 08	2	35		
22 09	3	34		
BL 48E 46N 24E 810	2	65		

REMARKS

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Tchentlo Lake Mines Ltd. REPORT No. 70-85-001 PAGE 4 OF 6

MARKING		Mo	Cu
BL 48E 46N 26E	11	2	70
28	12	1	64
30	13	5	74
BL 48E 46N 32E	14	7	71
BL 48E 2S	15	2	26
0	16	5	67
2N	17	2	36
4	18	2	17
6	19	2	26
8	20	2	30
10	21	2	32
12	22	9	143
18	23	2	59
22	24	6	245
24	25	3	40
26	26	3	110
28	27	2	31
30	28	2	50
32	29	3	39
BL 48E 34N	30	3	45

MARKING		Mo	Cu
BL 48E 36N	831	3	220
38	832	3	61
40	33	3	38
42	34	4	55
44	35	1	42
BL 48E 46N	36	2	24
BL 56E 72N 2E	37	2	75
4	38	5	345
6	39	1	44
8	40	nd	44
10	41	3	80
12	42	3	45
14	43	3	150
16	44	1	26
18	45	2	42
20	46	3	94
22	47	2	72
BL 56E 72N 24E	48	2	46
BL 56E 64N 2E	49	2	56

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Tchentlo Lake Mines Ltd. REPORT No. 70-85-001 PAGE 5 OF 6

	MARKING	Mo	Cu		
50	BL 56E 64N 4E	2	40		
51	6	1	44		
52	8	2	49		
53	10	1	49		
54	12	5	185		
55	14	2	25		
56	16	2	45		
57	18	nd	26		
58	20	2	44		
59	BL 56E 64N 24E	1	40		
60	BL 56E 48N	2	39		
61	50	3	45		
62	52	2	48		
63	54	3	50		
64	56	1	44		
65	58	1	55		
66	60	1	43		
67	62	2	94		
68	64	2	40		
69	BL 56E 66N	2	45		

	MARKING	Mo	Cu		
70	BL 56E 68N	2	81		
71	70	5	148		
72	72	nd	35		
73	74	3	26		
74	BL 56E 76N	2	61		
75	BL 56E 56N 2E	2	45		
76	4	2	55		
77	6	nd	53		
78	8	nd	16		
79	10	nd	18		
80	12	2	74		
81	14	1	44		
82	16	nd	46		
83	18	1	31		
84	20	2	44		
85	22	3	66		
86	BL 56E 56N 24E	1	36		
87	16N 2E	4	71	No baseline marking	
88	16N 4E	5	65	"	"

REMARKS

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

70-85-001

COMPANY Tchentlo Lake Mines Ltd. REPORT No. PAGE 6 OF 6

MARKING		Mo	Cu		
16N 6E	889	6	95	No baseline marking	
8	90	4	41		
10	91	2	26		
12	92	8	79		
14	93	10	125		
18	94	7	60		
20	95	7	95		
22	96	8	143		
26	97	7	140		
28	98	3	58		
30	99	9	235		
32	900	3	45		
34	01	6	70		
36	02	8	62		
38	03	5	20		
42	04	3	25		
44	05	7	62		
16N 46E	06	8	125		
BL 48E 40N	07	---	2300	rock	

MARKING				

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2172

GEOCHEMICAL ANALYTICAL REPORT

REPORT No. 70-85-002 DATE July 11, 1970

SAMPLES SUBMITTED BY ..... COMPANY Tchentlo Lake Mines Ltd.

SHIPPED VIA ..... FROM Prince George, B. C.

REPORT ON 293 samples for Mo & Cu DATE SAMPLES ARRIVED July 4, 1970

* * *

COPIES OF THIS REPORT SENT TO: **TRANSMITTED BY:**

(1) Mr. Lisle B. Catenby — Mail
3196 Westmount Place, West Vancouver, B. C.

(2) Tchentlo Lake Mines Ltd.
#201-1595 Fifth Avenue, Prince George, B. C.

(3) Mr. A.J. Sinclair
5869 Dunbar Street, Vancouver 13, B. C.

SAMPLES SIFTED OR GROUND TO -80 MESH WEIGHT USED 0.5 g

FINAL VOLUME 10 ml ALIQUOT USED n/a

* * *

METHOD OF ANALYSIS: Instrumental - Atomic Absorption

EXTRACTION: $HClO_4$ and HNO_3

DETECTION: Techtron AA4 and AA5

SAMPLES ASSIGNMENT: (a) PREPARED SAMPLES: filed

(b) REJECTS: discarded

* * *

ANALYST(S) ..... TYPIST hl.

SUPERVISING CHEMIST L.J. Nicol CHECKED BY C. CHUN

COSTS:

SHIPPING CHARGE	$ ---
SAMPLE PREPARATION	$ 58.60
ANALYSIS	$ 439.50
OTHER	$ ---
TOTAL	$ 498.10

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Tchentlo Lake Mines Ltd. REPORT No. 70-85-002 PAGE 1 OF 8

MARKING			Mo	Cu		
BLA 62N		401	1	88		
	64	402	2	30		
	66	403	2	28		
	68	404	3	96		
	70	405	nd	73		
BLA 72N		406	3	93		
A 72N -	2E	407	1	103		
	4	408	1	55		
	6	409	1	108		
	8	410	1	88		
	10	411	1	54		
	12	412	3	75		
	14	413	3	116		
	16	414	1	45		
	18	415	nd	64		
	20	416	1	60		
	22	417	2	100		
	24	418	1	65		
	26	419	nd	65		
A 72N -	28	420	1	55		

MARKING			Mo	Cu	Remarks	
A 72N -	30E	421	1	64		
	32	422	2	41		
	34	423	2	27		
	36	424	1	45		
	38	425	1	69		
	40	426	2	64		
	42	427	2	40		
	44	428	1	42		
	46	429	1	45		
	48	430	nd	56		
	50	431	nd	49		
	52	432	1	73		
	54	433	3	177	Silt	
	56E	434	1	37		
	2W	435	2	79		
	4	436	6	170		
	6	437	2	80		
	8	438	nd	100		
A 72N -	10W	439	nd	83		

REMARKS

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Tchentlo Lake Mines Ltd. REPORT No. 70-85-002 PAGE 2 OF 8

MARKING	Mo	Cu		
A 72N - 12W 421	3	74		
A 72N - 14W 422	5	110		
BLA 8N - 18W 423	11	174		
20 424	6	38		
22 425	3	50		
24 426	1	55		
26 427	5	165		
28 428	1	18		
30 429	1	25		
32 430	2	43		
34 431	2	53		
36 432	nd	30		
38 433	nd	33		
40 434	1	38		
42 435	13	150		
8N - 4W 436	1	30		
16N - 2W 437	3	61		
6 438	7	325		
8 439	6	115		
BLA 16N - 10W 440	3	85		

MARKING	Mo	Cu		
BLA 16N - 12W 460	4	59		
14 61	4	45		
16 62	3	58		
18 63	1	50		
20 64	3	90		
22 65	5	133		
24 66	5	86		
26 67	2	53		
28 68	1	71		
30 69	6	163		
32 70	3	69		
34 71	1	54		
36 72	24	268		
38 73	2	25		
40 74	2	66		
42 75	2	83		
BLA 16N - 4W 76	1	18		
BLA 24N - 2E 77	2	80		
BLA 24N - 4E 78	3	65		

REMARKS

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MARKING	No	Cu		
BLA 24N - 6S 479	2	85		
8 480	2	70		
10 81	2	89		
12 82	2	40		
14 83	2	57		
16 84	2	83		
18 85	2	52		
20 86	3	60		
22 87	1	25		
24 88	1	60		
28 89	2	23		
30 90	3	73		
32 91	4	118		
34 92	2	27		
36 93	2	53		
38 94	2	37		
40 95	2	35		
42 96	2	15		
44 97	3	44		
BLA 24N - 46S 98	3	35		

MARKING	No	Cu		
BLA 24N - 2W 449	2	90		
4 500	3	94		
6 501	2	100		
8 02	3	70		
10 03	4	71		
12 04	4	280		
14 05	2	59		
16 06	3	39		
18 07	2	21		
20 08	1	65		
22 09	3	205		
24 10	2	65		
26 11	1	93		
28 12	7	400		
30 13	1	79		
32 14	4	113		
34 15	1	70		
36 16	8	61		
BLA 24N - 38W 17	3	75		

REMARKS

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MARKING		No	Cu		
BLA 24N - 40N	518	1	31		
42	19	1	20		
24N - 44N	20	1	26		
32N - 16E	21	3	65		
18	22	1	22		
20	23	3	100		
22	24	3	70		
24	25	4	48		
34	26	2	53		
36	27	2	55		
38	28	2	51		
40	29	4	215		
42	30	2	140		
44	31	1	55		
46E	32	4	55		
16N	33	2	60		
20	34	2	145		
22	35	1	53		
24	36	1	25		
32N - 26N	37	3	110		

MARKING		No	Cu		
32N - 28N	538	6	160		
30	39	4	168		
32	40	2	33		
34	41	1	56		
32N - 36N	42	1	14		
38N - 48E	43	4	68		
40N - 16E	44	1	53		
18	45	2	135		
20	46	2	84		
22	47	2	55		
24	48	2	90		
26	49	2	90		
28	50	nd	66		
30	51	1	54		
32	52	nd	71		
34	53	3	132		
36	54	3	130		
38	55	3	82		
BLA 40N - 40E	56	1	37		

REMARKS

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MARKING		No	Cu	Remarks
BLA 40N - 42E	557	1	81	
44	58	4	70	
46E	59	2	35	
16N	60	2	325	
~~18~~	----------	----------	----------	missing
20	61	1	42	
22	62	2	22	
24	63	4	73	
26	64	1	75	
28	65	2	185	
30	66	3	88	
32	67	1	82	
34	68	3	112	
36	69	4	75	
38	70	2	75	
40	71	1	55	
42	72	2	48	
40N - 44W	73	1	105	
40N - 22E	74	1	43	
40N - 42E	75	1	49	

MARKING		No	Cu
48N - 6E	576	2	95
8	77	2	80
10	78	2	115
12	79	2	25
14	80	7	120
18	81	2	83
20	82	2	60
22	83	2	115
24	84	2	68
26	85	1	71
28	86	2	90
30	87	2	85
32	88	2	82
34	89	2	126
36	90	2	114
38	91	1	41
40	92	2	66
42E	93	1	64
BLA 48N - 2W	94	1	48

REMARKS

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MARKING		Mo	Cu		
BLA 48N - 44W	595	nd	107		
6	96	1	48		
8	97	nd	20		
10	98	2	30		
12	99	2	69		
14	600	2	22		
16	601	1	28		
18	02	1	60		
20	03	1	38		
22	04	2	68		
24	05	nd	82		
26	06	2	92		
28	07	1	33		
30	08	2	48		
32	09	2	73		
34	610	1	25		
36	611	2	30		
38	12	1	143		
40	13	nd	23		
48N - 42W	14	1	25		

MARKING		Mo	Cu		
48N - 44W	615	1	20		
56N - 2E	16	1	70		
4	17	4	213		
6	18	1	100		
8	19	3	120		
10	20	1	24		
12	21	2	50		
14	22	1	49		
16	23	1	69		
18	24	2	57		
20	25	1	31		
22	26	3	94		
24	27	1	100		
26	28	2	79		
28	29	2	66		
30	30	2	73		
32	31	2	70		
34	32	2	82		
BLA 56N - 36E	33	1	25		

REMARKS

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MARKING		Mo	Cu		
BLA 56N - 38E	634	1	69		
40	35	2	90		
42	36	2	45		
44	37	1	45		
50	38	6	120		
54	39	2	59		
56E	40	2	42		
2W	41	2	98		
4	42	1	110		
6	43	1	30		
8	44	3	75		
12	45	2	39		
14	46	2	43		
16	47	2	55		
20	48	1	29		
22	49	3	88		
24	50	2	89		
26	51	2	73		
28	52	2	215		
56N - 30W	53	1	90		

MARKING		Mo	Cu		
56N - 32W	654	2	128		
34	55	1	58		
36	56	1	40		
38	57	1	53		
40	58	2	60		
42	59	1	84		
56N - 44W	60	3	72		
64N - 2E	61	2	63		
4	62	nd	73		
6	63	1	48		
8	64	1	100		
10	65	1	53		
12	66	1	60		
14	67	1	65		
16	68	3	89		
18	69	3	63		
20	70	2	42		
22	71	2	96		
BLA 64N - 24E	72	3	100		

REMARKS

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MARKING	No	Cu	Remarks
BLA 6+N - 26E			missing
28 673	2	48	
30 74	1	75	
32 75	1	62	
34 76	1	63	
36 77	1	84	
38 78	1	40	
40 79	2	55	
42 80	1	42	
44 81	1	53	
46 82	1	28	
48 83	4	110	
50 84	2	62	
52 85	2	37	
54 86	1	53	
56E 87	2	55	
2W 88	1	72	
4 89	2	105	
6 90	4	79	
6+N - 10W 91	1	50	

MARKING	No	Cu		
6+N - 12W 692	1	84		
BLA 6+N - 14W 693	5	140		

REMARKS

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TC 6 TC 5
TC 4 TC 3
TC 9 TC 7
TC 10 TC 8
TC 2 TC 1
A 2 Fr.
BAL 14 BAL 13 BAL 12 BAL 11
BASE LINE
A 4 Fr. A 3 Fr.
BAL 15 BAL 6 BAL 5
BAL 3 BAL 4 BAL 1 BAL 2
A 5 Fr.
N.B.C. EXPL.

PJ 19 PJ 20 PJ 17 PJ 18
PJ 15 PJ 16 PJ 9 PJ 10
PJ 13 PJ 14
46 + 00 N
42 + 00 N
38 + 00 N
PJ 7 PJ 8
PJ 5 PJ 6
32 + 00 N
30 + 00 E
60 + 00 E
PJ 11 PJ 12
BAL 9 BAL 10
PJ 3 PJ 4
PJ 1 PJ 2
BAL 8
BAL 7
8 + 00 N
4 + 00 N
HI 27
(N.B.C.)
0 + 00
4 + 00 S
HI 28 Fr.
(N.B.C.)
8 + 00 S
TCHENTLO LAKE

N

2729
M-7

FIGURE 4

Cu - Mo GEOCHEMISTRY - BAL GROUP - 1969

TCHENTLO LAKE MINES

Scale : 1 inch = 400 feet

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
A. J. SINCLAIR

- Soil sample location
- Anomalous Cu area (> 50 ppm)
- Anomalous Mo area (> 5 ppm)

Analyses by Vancouver Geochemical Laboratories Ltd.
Base map from C. Campbell

To accompany report by
A.J. Sinclair, P. Eng.

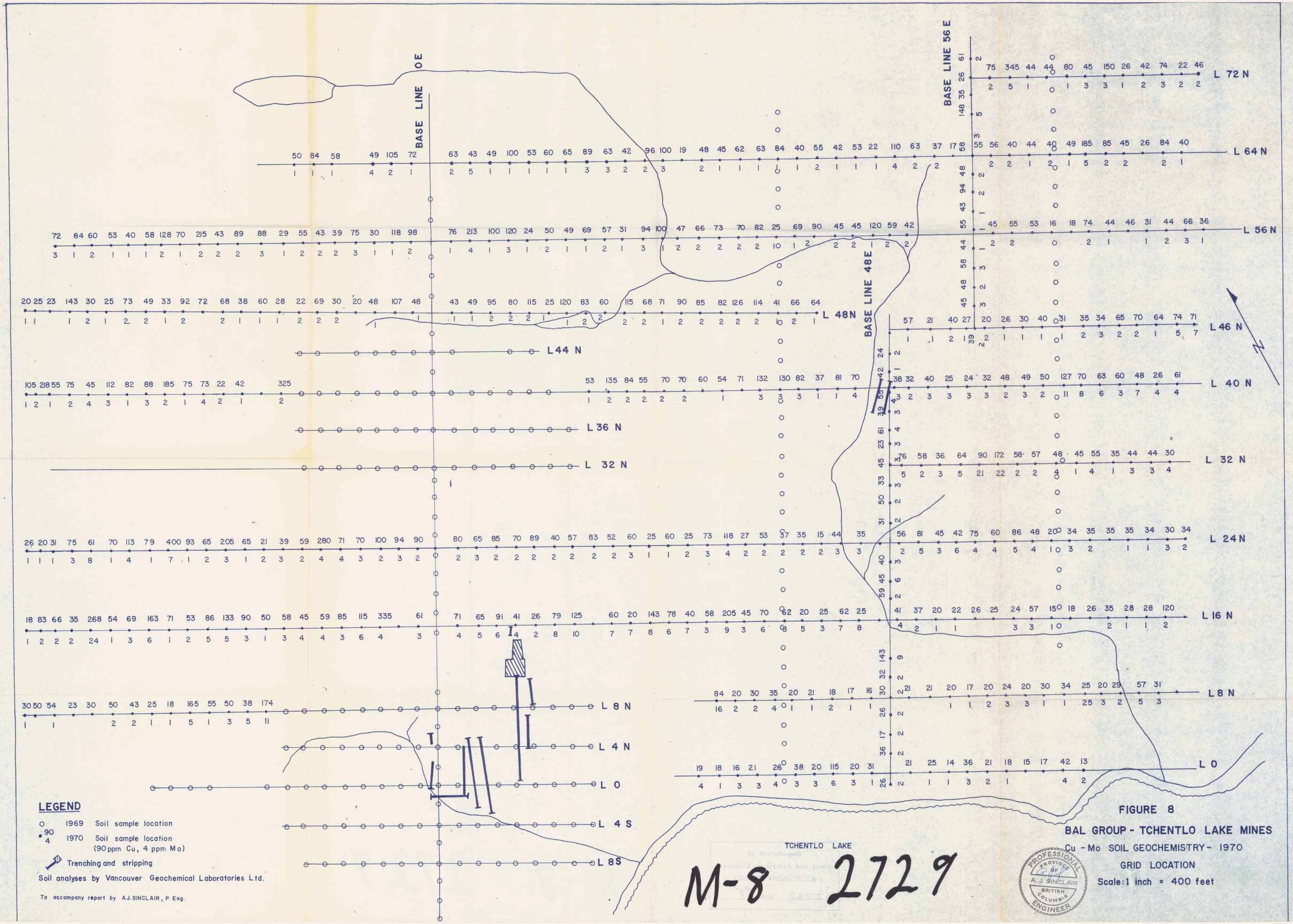

FIGURE 8

BAL GROUP - TCHENTLO LAKE MINES

Cu - Mo SOIL GEOCHEMISTRY - 1970

GRID LOCATION

Scale: 1 inch = 400 feet