

Alclare Resources Inc.
(formerly Alclay Resources Inc.)

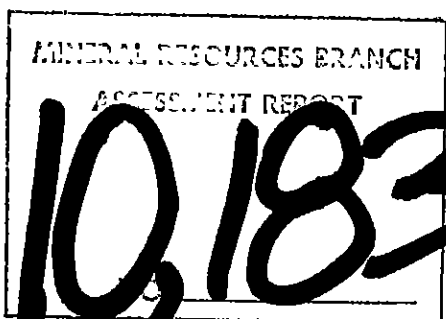
Itemized Cost Statement re
Assessment Report
(Geological Geochemical)

L. Werner, geologist; Preliminary Geological Report	\$ 1852.50
L. Werner, geologist; Statistical Analysis Report	\$ 787.50
Alex Burton, P.Eng.; Geological Geochemical Assessment Report	\$ 1635.37
Grid layout and rock chip sample collections Two men for 1 month. Period May to July 81	\$ 4000.00
Vehicle expenses	\$ 500.00
Assaying; General Testing, 325 samples for Cu., Ag. Min-En, 316 samples for Au.	\$ 2492.35 \$ 1811.15
Draughting services - preparation of Base Maps	\$ 950.00
Printing	\$ 20.55
Photocopying	\$ 24.16
	\$14073.58

Trench, road

3500.58

17573.58



W.G. Botel, P.Eng.

W.G. Botel

Dir. Alclare Resources Inc.

GEOLOGICAL
GEOCHEMICAL
ASSESSMENT REPORT

for

ALCLARE RESOURCES INC.
(Formerly Alclay Resources Inc.)
1557 West Broadway,
Vancouver, B.C. V6J 1W6

on the

CLAY PROPERTY
near Hawkins Lake
West of Canim Lake, B.C.

in the

Clinton Mining Division

NTS 92 P 15 W

51 52' North Latitude

120 55' West Longitude

by

Alex Burton, P. Eng.
Burton Consulting Inc.,
810 - 626 West Pender Street,
Vancouver, B.C. V6B 1V9

and

Leonard J. Werner, Geologist,
11937 - 230th Street,
Maple Ridge, B.C.

MARCH, 1982

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- Clay Claims Scale 1:10,000
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- Geochemistry Scale 1:1,000 Contours

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INTRODUCTION

In May of 1978 prospector Alf Robinson staked the first Clay Mineral Claim on a new copper discovery he had just made. Prior to his discovery there was no knowledge or records of any mineralization in this area.

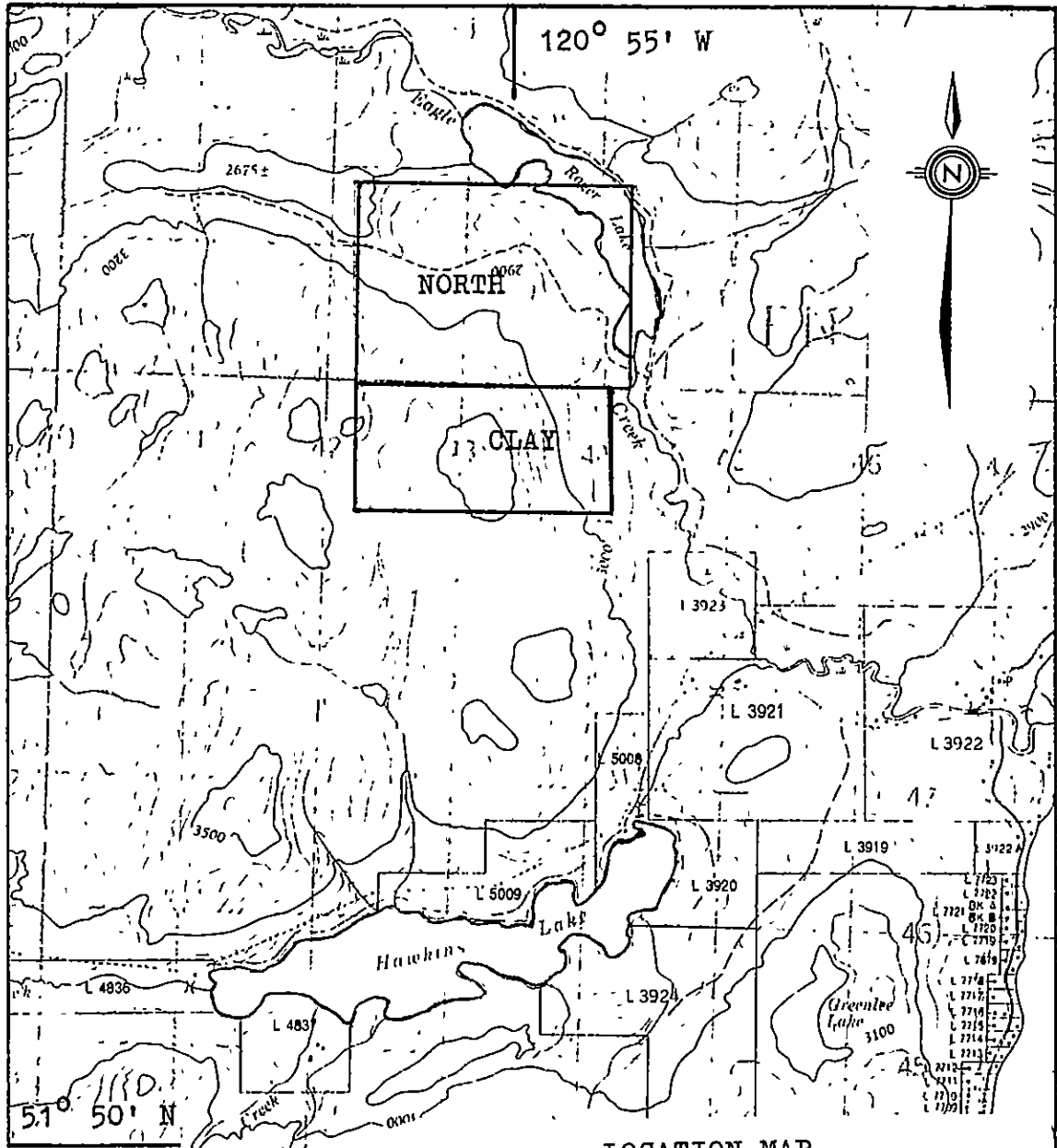
The discovery consists of volcanic rock outcrops with copper stain on the surface and bornite in the rock. The original discovery showings had never been explored although recent prospecting has discovered some old pits which might be man made.

The showings have now been exposed by a bulldozer and digger and are of sufficient interest to warrant a comprehensive exploration effort.

Copper in the form of bornite with minor chalcopyrite with associated gold and silver values are the important economic minerals.

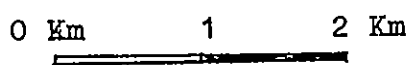
A regular survey picket grid has been run over a large part of the claims and has been geochemically rock chip sampled. Further prospecting has discovered other areas of copper mineralization and geological mapping has been completed over the original discovery as well as some geophysical test lines. This report deals with the geochemical survey.

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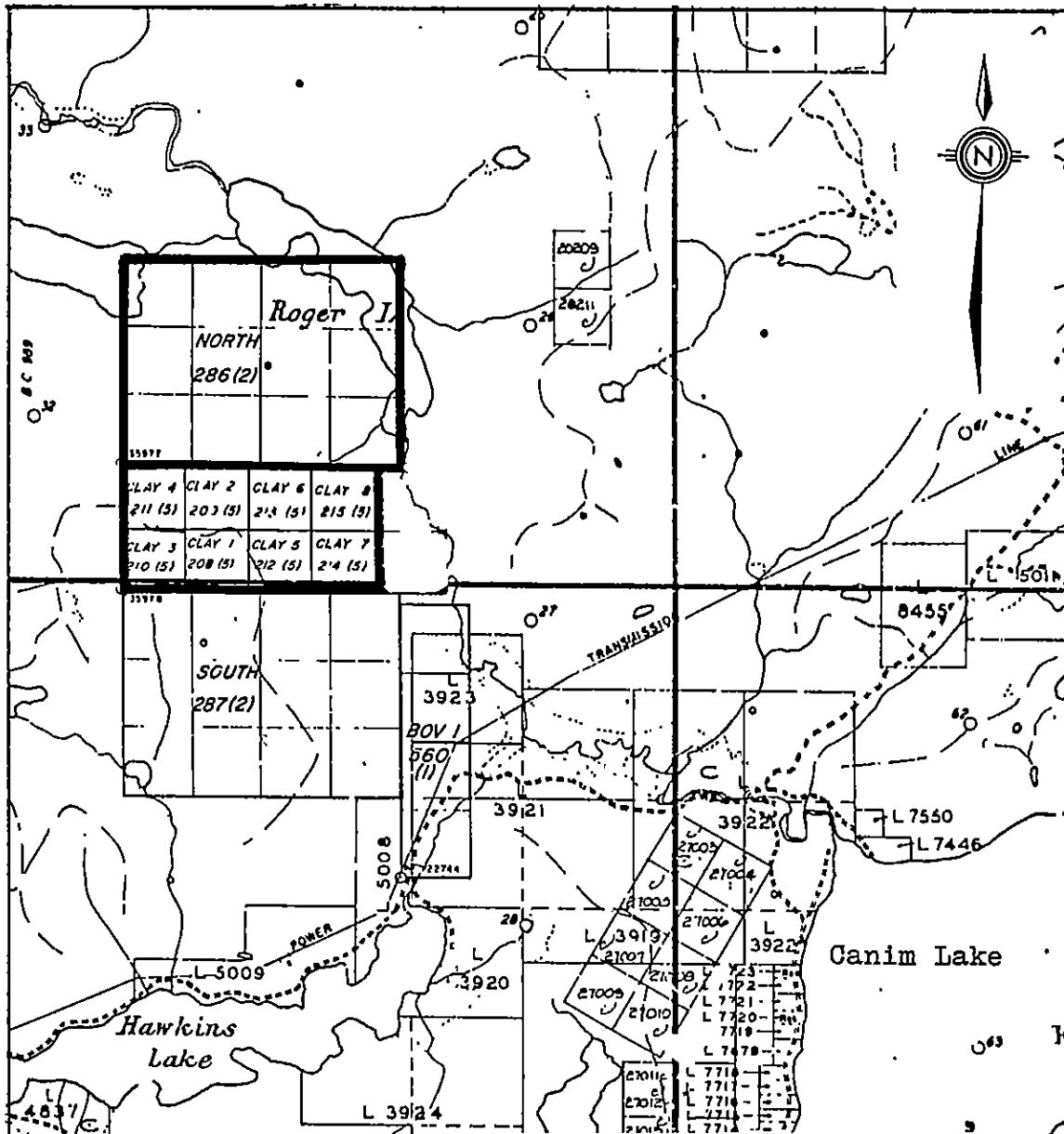


LOCATION MAP

Clay and North Mineral Claims
 Clinton Mining Division
 ALCLARE RESOURCES Inc.



To accompany report by A. Burton, P.Eng.
 Burton Consulting Inc.
 Suite 5-924 W. Hastings
 Vancouver, B.C. V6C 1E4



CLAIM MAP
 CLAY and NORTH MINERAL CLAIMS
 Clinton Mining Division
 Alclare Resources Inc.

To accompany report by A. Burton, P.Eng.
 Burton Consulting Inc.
 Suite 5-924 W. Hastings
 Vancouver, B.C. V6C 1E4

0 1 2 Km.

LIST OF CLAIMS

	<u>Name</u>	<u>Record No.</u>	<u>Month</u>	<u>Units</u>
<u>Metric Claims</u>	North	286	2	12
	Skidoo	955	2	16
	Cabin	956	2	20
	After	1115	9	10
				<u>Claims</u>
<u>Two Post Claims</u>	Clay 1 - 8	208 - 214	5	8
	Hunter 1 - 8	957 - 964	2	8
	Trapper 1 - 8	853 - 860	8	8
			TOTAL	82

The claims are contiguous.

LOCATION

The Clay Property is in the Clinton Mining Division of B.C. The claims start three kilometers north of Hawkins Lake and extend north to Roger Lake. NTS coordinates are 92 P 15 W, North Latitude is 51° 52' and West Longitude is 120° 55'.

ACCESS

Access is by provincial roads from 100 Mile House to a point close to the east end of Hawkins Lake where a private road leads northerly up the hill to where

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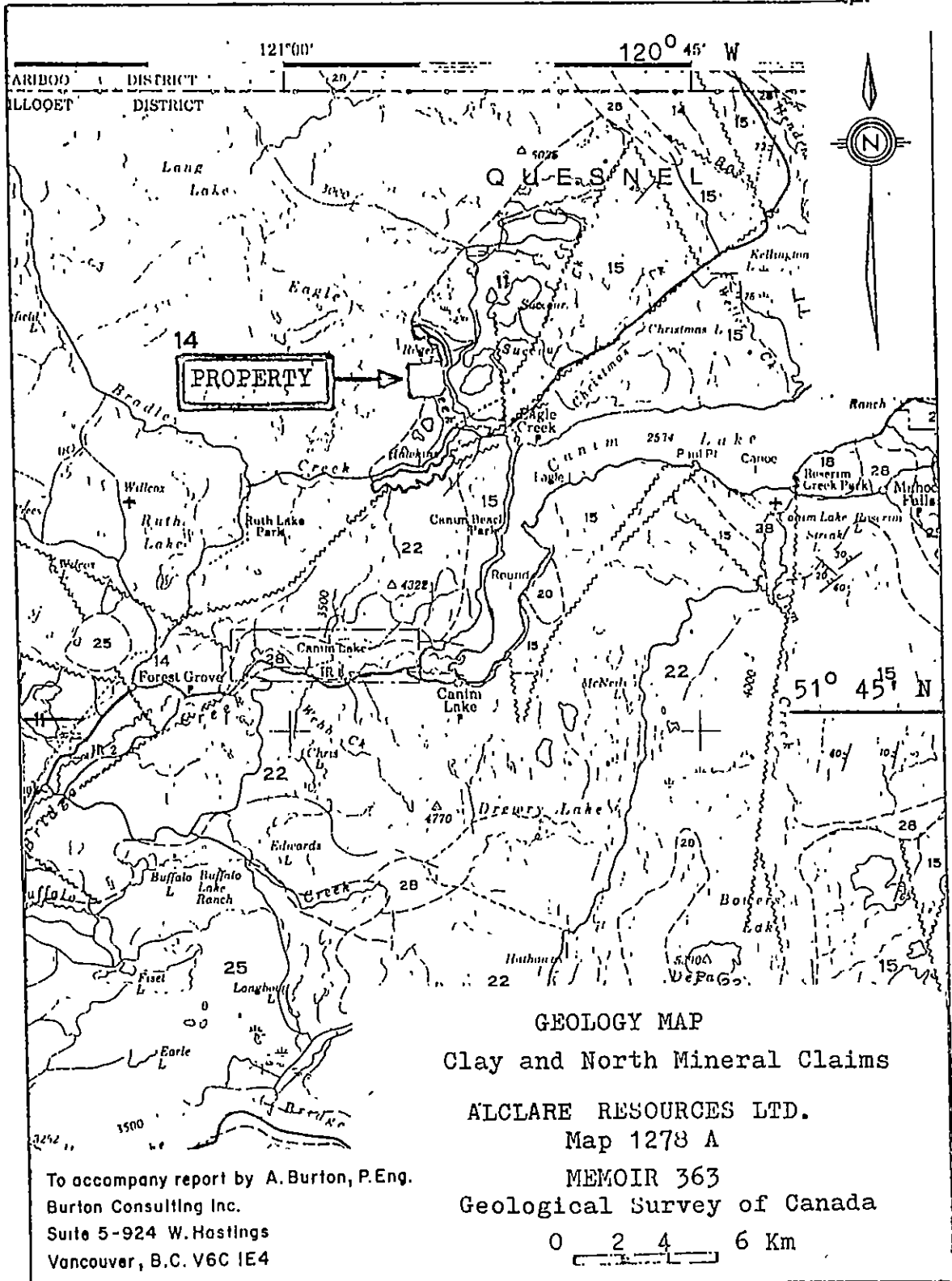
a bulldozer four wheel drive road heads off to the main showings. It takes less than one hour to drive to the showings from Hawkins Lake.

PHYSIOGRAPHY

The property is in the Cariboo portion of British Columbia. The area has cold moderately snowy winters with mild summers. Logging from the north has not quite reached to the main showings. Timber cover is extensive with areas of mature Spruce, Balsam, plus Fir and Cedar alternating with patches of young evergreen varieties. Underbrush is moderate.

Soils are often immature, resting on glacial materials. Soils are largely organic above the generally unweathered bedrock outcrop areas. Several swamps are found, some at the base of linear outcrop ridges and others on flat plateau like areas. Topographic relief is moderate.

Over glacial deposits soils are immature with a thin layer of 'A' zone lying directly on unaltered glacial materials. In the swamps sour organic soils generally overly glacial materials, or fluvial glacial material. Shallow soils over bedrock are generally of organic material, but in some areas with intermediate slopes on the



GEOLOGY MAP
Clay and North Mineral Claims

ALCLARE RESOURCES LTD.

Map 1278 A

MEMOIR 363

Geological Survey of Canada

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0 2 4 6 Km

bedrock there are poorly developed residual soils combined with frost heaved or talus bedrock fragments.

With this scenario of soil type anomalous values would be expected only in areas of shallow soils over mineralized bedrock or in places with secondary hydromorphic transported anomalies. Soil samples over glacial materials would not be expected to reflect either the presence or absence of underlying mineralization.

To obtain more directly applicable results a rock chip geochemical survey was done over the central area of interest.

GEOLOGY

Memoir 363 by R.B. Campbell, and H.W. Tipper published by the Geological Survey of Canada is the most recent mapping in the district.

The claims are underlain by volcanic rocks that have been mapped as Triassic (Karnian and Norian Age) Nicola Group. Augite andesite flows and breccias, tuff, argillite and grey limestone are reported. To the west, possibly extending east as far as the western edge of the claims is the Takomkane batholith of Triassic or Jurassic (Rhaetian or Hettangian) Age. The Takomkane

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rocks range through hornblende-biotite quartz diorite, and granodiorite, to minor hornblende diorite, monzonite, gabbro and hornblendite.

PROPERTY GEOLOGY AND MINERALIZATION

Rocks seen on the property consist of basic to mid-acidic volcanics with minor volcanic sediments.

In the area around the showings the most common rock is dark green andesitic to basaltic extrusive volcanics. Some of the volcanics may prove to be partially intrusive. Variations seen include augite porphyry, augite porphyry schist, augite porphyry breccia and hornblend porphyry schist. Phyllites and grey limestones plus some possibly sheared tuffs are of definite sedimentary origin and are present to a minor extent volumetrically. They may be very important in regards to the mineralization and for solving the structure. Some units are strongly sheared, but other more massive units appear not to have been affected by the shearing. Cross faults have not yet been seen, but strike slip faulting along the more strongly sheared units is suspected. The sedimentary units do not outcrop well.

MINERALIZATION

Mineralization in the volcanics consists of disseminations masses and blebs of bornite with minor pyrite, chalcopyrite and native gold. The sulphides on outcrop are fresh and essentially unweathered. There is a minor amount of surface rust and traces of malachite is sometimes seen adjacent to blebs of sulphides. Epidote, pink calcite and chlorite are all associates of the mineralization. Native gold occurs as fine grains, occasionally visible to the naked eye, apparently associated with the better grade bornite but not everywhere. The better mineralization exposed at present is associated with the limestone at the south end of the discovery knoll near 60 m south and 15 m west of zero point. Here part of the limestone has been replaced by massive bornite.

Controls and genesis on mineralization are not known for sure, but there is a definite relationship between copper mineralization and the sedimentary-volcanic contacts.

The limestone and the phyllite are nearly stratigraphically equivalent in a shallow syncline as outlined by recent mapping. Additional mineralization of similar type has been discovered to the east and the south of the discovery.

SURVEY GRID

The central part of the property was covered with a compass and hip chain measured grid. Stations were established on true east west line at 25 metres spacing, marked with flagging tape and measured from the point of origin which is the location post of the Clay 1, 2, 5 and 6 mineral claims, and is centrally located in the discovery area. Distances were measured East or West and North or South from this point of origin. Cross lines were run at 25 metre spacing with stations at 25 metres. An area 600 metres E-W by 300 metres N-S was covered.

ROCK CHIP TREATMENT

Rock chips were collected from the closest outcrop or set of outcrops to each station and put in standard kraft paper geochemical sample bags. Weathering is generally surficial so most rock chips were fresh. Samples for gold analysis at Min En Labs were crushed and pulverized in a ceramic plated pulverizer and analyzed by Atomic Absorption Spectrophotometric procedure after suitable chemical digestion to give a 5 P.P.B. detection limit.

Samples for copper, zinc, molybdenum and silver were analyzed by General Testing Laboratories with aqua

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regia digestion followed by Atomic Absorption determination for detection limits of 1 P.P.M.

Some soil samples were also taken.

DISCUSSION OF GEOCHEMICAL ROCK CHIP SURVEY

The survey covered the discovery knoll and extended out from it in four cardinal directions. Sampling was done on a square grid from available outcrops.

The central part of the survey area was expected to be anomalous and it was further expected that the anomaly would die out before reaching the edge of the survey area on at least one or more of the four boundary sides of the survey.

This would allow for the elements analyzed (copper, zinc, molybdenum and gold), calculations of effectiveness, backgrounds, thresholds and anomalous values so that spacing of sampling and choice of elements would be at optimum efficiency when surveying the remainder of the property as well as for direct usefulness in exploring the discovery zone.

STATISTICS

Statistics were calculated on the 290 rock chip samples by Mr. Leonard J. Werner, Geologist. His calculations of statistical data plus percent frequency of various parameters for the elements copper, gold and silver are presented in the appendix. The calculations form an excellent first basis for consideration of the results in a single population. Detailed consideration shows that the sampled area is biased in favour of mineralized and anomalous rocks in comparison to the small area of background value rocks sample.

ZINC AND MOLYBDENUM

Only every twentieth sample was analyzed for zinc and molybdenum. Both metals appear to be totally unrelated to the copper, gold silver mineralization. They relate neither to the extremely high values nor to the background values and can be considered immaterial.

COPPER

Copper of course is the prime element of economic potential on this property.

Background values for copper in the rocks

adjacent to, but outside of, the central mineralized zone ranges from a minimum of 22 P.P.M. to 32 P.P.M. There is a further range of occasional scattered copper values in unmineralized areas up to roughly 50 P.P.M.

There are less than half a dozen erratically scattered higher values outside the 50 P.P.M. contour, also there are some apparently unmineralized patches within the overall 50 P.P.M. boundary that are background level.

Areas of definite mineralization are effectively outlined by the 75 P.P.M. contour. The 75 P.P.M. contour outlines a slightly larger area than the 100 P.P.M. contour and provides better definition of significant areas of interest than the 100 P.P.M. contour.

Values from 200 to plus 1,000 P.P.M. are related directly to copper sulphide mineralization in the rocks. Known important copper mineralization is not found outside of the 75 P.P.M. contour, however, there are anomalous areas which have not yet been tested for copper content.

GOLD

Lowest values reported for gold in the rock chips is 5 P.P.B. (the detection limit), next value reported is 10 P.P.B. followed by 20 and then up to a maximum of 2,350

P.P.B. (P.P.B. for gold only, other elements is P.P.M.)
In the area of background copper content gold in the rocks is reported at the detection level.

With the exception of a couple of samples the detection limit is not exceeded except within the 50 P.P.M. contour for copper. There is a general relationship between high gold values and areas of better copper mineralization, but it is only useful for confirmation of the copper, not as a primary exploration tool due to its erratic distribution.

Native gold has been seen associated with bornite mineralization in the two areas where the exceedingly high rock chip gold values occur, (ie: plus 100 P.P.B.) There is a poorly defined chain of anomalous gold values extending E-W across the center of the survey area within the 50 P.P.M. copper contour, but no geological or geomorphic lineament has been recognized.

SILVER

Areas of background rocks generally carry from a reported low of 0.2 P.P.M. silver to 0.9 P.P.M. silver, again with a few erratic higher values. Values above 1 P.P.M. are within the 50 P.P.M. copper contour although not as

extensive as the copper. Values over 2 P.P.M. show a decided preference for areas of better copper mineralization, and are either directly associated with the extremely high copper values associated with sulphide mineralization or are adjacent to them.

DISCUSSION OF ROCK GEOCHEMISTRY RESULTS

Zinc and molybdenum have no direct relationship with the copper mineralization.

Copper, plus gold and silver content of the rocks are related to the sulphide copper mineralization. Copper gives a larger and more useful anomalous pattern. The size of the anomalous areas were measured and the optimum size of grid pattern to pick up the generally anomalous area noted and then the more detailed grid pattern needed to outline individual significant anomalies within the general anomalous area was measured.

100 metre sample spacing will not miss the anomalous zone while 200 metre spacing of rock chip samples could occasionally hit background value 'holes' within the generally anomalous area.

To identify specific highly anomalous sections within the generally anomalous area a sample spacing of 50 metres is required. Further definition is obtained with 25 metre spacing.

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CONCLUSIONS

On the Alclare Property with its extensive swamps and glacial soils the standard exploration technique of geochemical soil sampling is not effective. The program of geochemical grid rock chip sampling has proven to be effective. It does outline areas of anomalous values and zones of higher values associated with copper mineralization. This technique was effective because there is sufficient outcrop in the surveyed area.

Copper is the most efficient element to outline zones of mineralization with gold and silver serving to confirm the zones.

RECOMMENDATIONS

The remainder of the Property should be rock chip geochemically sampled on a 100 metre square grid pattern.

Samples should be analyzed for copper only. Any significant zones of copper mineralization will be identified within the grid.

Anomalous areas identified by the 100 metre grid sampling program can be outlined with a more detailed 50 metre square grid where samples are analyzed for copper plus silver. Gold may be analyzed for, if desired.

Within the area of the present rock chip geochemical survey further prospecting is required on anomalies on the north east, and south sides of the grid as they are the equivalent of anomalies on the southwest, west and northwest which are associated with good sulphide copper mineralization.

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ALEX BURTON, P. ENG.
GEOLOGICAL CONSULTANT

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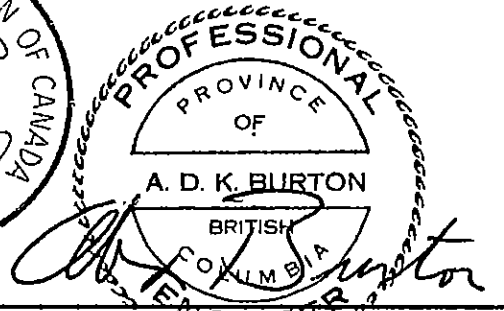
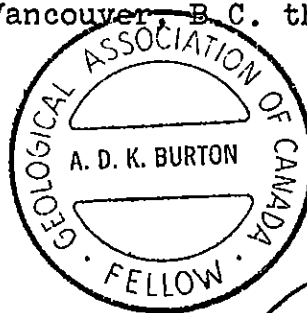
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VANCOUVER, B.C.
CANADA V6B 1V9

STATEMENT OF QUALIFICATIONS

I, Alex Burton do hereby certify that I am an independent Consulting Geologist with offices at 810 - 626 West Pender Street, Vancouver, B.C. V6B 1V9.

- 1) I certify that I am a geology graduate of the University of British Columbia and am a registered Professional Engineer in B.C. with Certificate No. 6262.
- 2) I have practised my profession for over 25 years both as an independent consultant and in senior managerial capacity for major mining companies in Canada and other countries.
- 3) I am a member of the Association of Exploration Geologists and have extensive experience in geochemistry.
- 4) I am a fellow of the Geological Association of Canada.

Dated in Vancouver, B.C. this 8th day of March, 1982.



ALEX BURTON, P. ENGINEER
Consulting Geologist

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CERTIFICATE OF THE AUTHOR

I, Leonard J. Werner, do hereby declare that:

1. I am an independent consulting geologist, and have worked in the field of exploration and mining geology since 1969, and I reside at 11937 - 230 Street Maple Ridge, B. C.
2. I was educated in mining engineering technology at the B. C. Institute of Technology, and in geological sciences to Master's level at the University of B. C.
3. I am a member of the Canadian Intstitute of Mining and Metallurgy, the Geological Association of Canada and the Society of Engineering Technologists of B. C.
4. I have no interest, direct or indirect, in the Alclare (formerly Alclay) properties or in the securities of Alclare Resources Inc. (formerly Alclay Resources Inc.), nor do I expect to receive any.



L. J. Werner

ALCLARE ROCK GEOCHEMISTRY

STATISTICAL ANALYSIS

Data from geochemical analysis of rock chip samples collected during 1981 from the Alclare property were treated using conventional statistical calculations. Mean and standard deviation were computed by hand calculator, allowing determination of anomalous values greater than the mean plus one standard deviation.

All data were plotted on a grid according to recorded co-ordinates, and entered into a computer file from which the Silver/Gold ratios were calculated, Log ppm Copper and Silver and Log ppb Gold calculated, and percent frequency histograms of non-transformed Copper and Silver, and Log-transformed Copper, Silver and Gold plotted. All files were stored on disk for future use.

Statistical data are as follows:

GOLD	Mean-----	38.32 ppb
	Standard deviation-----	198.93
	No. samples-----	288
	No. >X+S-----	8 or 3%
	No. >X+1/2S-----	10 or 3%
SILVER	Mean-----	1.07 ppm
	Standard deviation-----	2.26
	No. samples-----	290
	No. >X+S-----	11 or 4%
	No. >X+1/2S-----	18 or 6%
COPPER	Mean-----	125.49
	Standard deviation-----	209.38
	No. samples-----	290
	No. >X+S-----	7 or 2%
	No. >X+1/2S-----	36 or 12%

Intervals for plotted histograms are as follows:

INTERVAL	PLOTTED X-VALUE	%-FREQUENCY
----------	-----------------	-------------

COPPER

0-50	50	51.0
51-100	100	20.0
101-150	150	9.7
151-200	200	4.8
201-250	250	3.8
251-300	300	2.8
301-350	350	0.3
351-400	400	1.7
401-450	450	0.7
451-500	500	0.3
501-550	550	0
551-600	600	0.3
Over 600	650	4.5

SILVER

0-10	10	88.6
11-20	20	4.5
21-30	30	0.3
31-40	40	0.7
41-50	50	1.0
51-60	60	0.3
61-70	70	0.3
71-80	80	0.3
81-90	90	0
91-100	100	1.0
over 100	110	3.6

SILVER/COPPER

0	1	25.6
.01	2	37.4
.02	3	18.7
.03	4	11.4
.04	5	2.8
.05	6	0.7
.06	7	0.7
.07	8	0.7
.08	9	0.4
.09	10	0
.10	11	0
over .10	12	1.6

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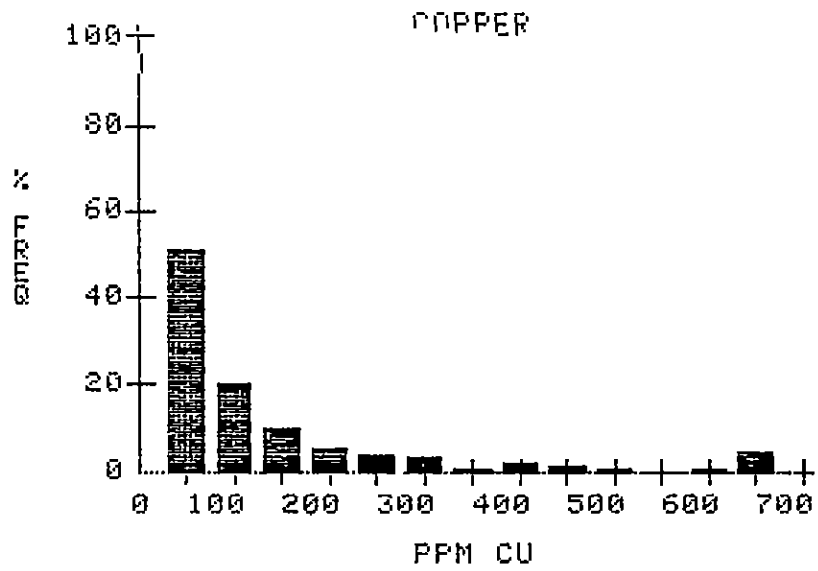
3.0-3.25	1	21.1
3.26-3.50	2	12.5
3.51-3.75	3	11.1
3.76-4.00	4	8.3
4.01-4.25	5	8.0
4.26-4.50	6	7.6
4.51-4.75	7	6.6
4.76-5.00	8	5.5
5.01-5.25	9	3.8
5.26-5.50	10	4.2
5.51-5.75	11	3.8
5.76-6.00	12	1.7
6.01-6.25	13	1.0
6.26-6.50	14	0.3
6.51-6.75	15	0
6.76-7.00	16	4.5

LOG-TRANSFORMED SILVER

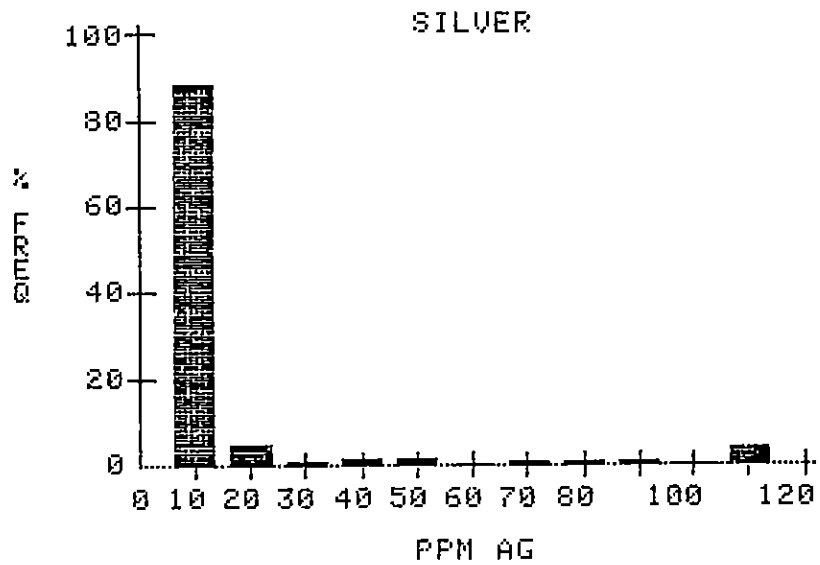
-2.0 - -1.76	1	0
-1.75 - -1.51	2	5.9
-1.50 - -1.26	3	0
-1.25 - -1.01	4	13.5
-1.00 - -0.76	5	0
-0.75 - -0.51	6	22.2
-0.50 - -0.26	7	21.1
-0.25 - -0.01	8	13.5
0-0.25	9	12.1
0.26-0.50	10	3.1
0.51-0.75	11	1.7
0.76-1.00	12	2.4
1.01-1.25	13	1.4
1.26-1.50	14	0
1.51-1.75	15	1.0
1.76-2.00	16	0.4
over 2.00	17	2.1

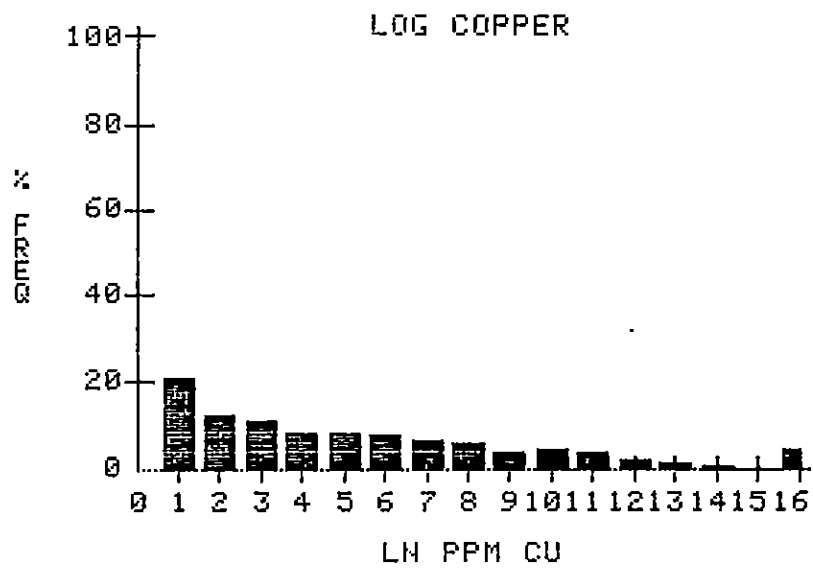
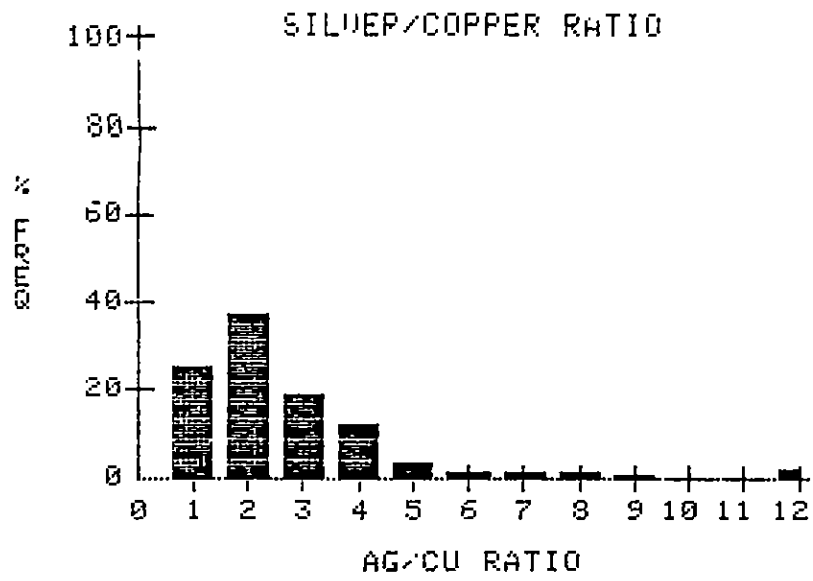
LOG-TRANSFORMED GOLD

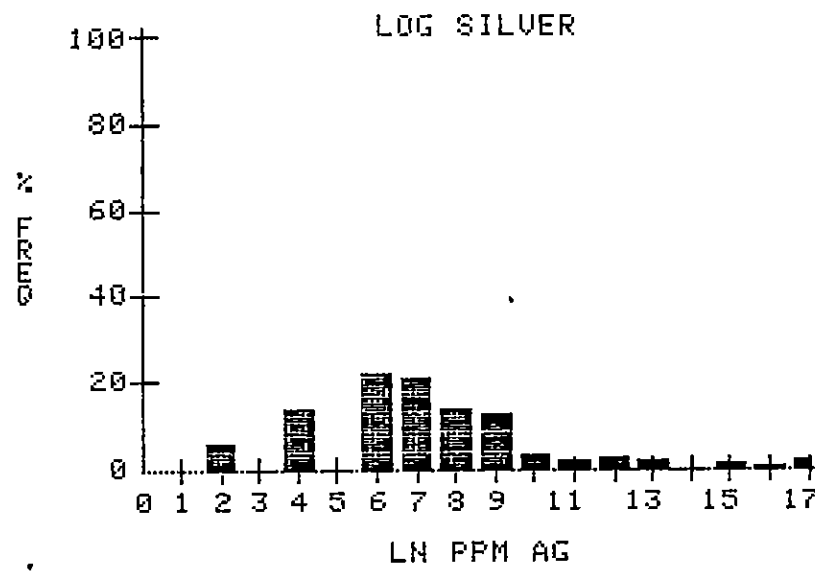
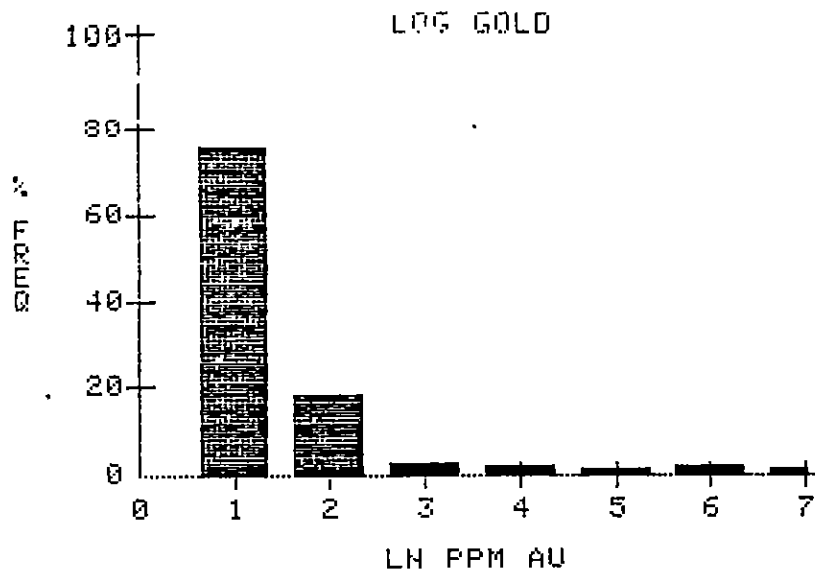
1-2	1	75.1
2-3	2	17.9
3-4	3	2.1
4-5	4	1.8
5-6	5	0.7
6-7	6	1.4
7-8	7	1.0



SILVER







CO-ORD	Cu, ppm	Ag, ppm	Au, ppb	Ag/Cu	LN(Cu)	LN(Ag)	LN(Au)
150W-165N	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
150W-150N	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
150W-124N	29.00	0.30	5.00	0.01	3.37	-1.20	1.61
150W-100N	49.00	0.70	5.00	0.01	3.89	-0.36	1.61
150W-75N	41.00	0.50	10.00	0.01	3.71	-0.69	2.30
150W-50N	166.00	0.80	5.00	0.00	5.11	-0.22	1.61
150W-25N	23.00	0.60	5.00	0.03	3.14	-0.51	1.61
150W-00N	23.00	0.30	5.00	0.01	3.14	-1.20	1.61
150W-25S	71.00	0.50	5.00	0.01	4.26	-0.69	1.61
150W-50S	24.00	0.50	5.00	0.02	3.18	-0.69	1.61
150W-75S	26.00	0.50	5.00	0.02	3.26	-0.69	1.61
150W-100S	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
150W-125S	125.00	1.00	5.00	0.01	4.83	0.00	1.61
150W-135S	34.00	2.60	5.00	0.06	3.53	0.96	1.61
125W-165N	34.00	0.70	5.00	0.02	3.53	-0.36	1.61
125W-150N	55.00	0.50	10.00	0.01	4.01	-0.69	2.30
125W-125N	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
125W-100N	23.00	1.30	5.00	0.06	3.14	0.26	1.61
125W-75N	121.00	0.50	5.00	0.00	4.80	-0.69	1.61
125W-50N	29.00	0.50	5.00	0.02	3.37	-0.69	1.61
125W-25N	41.00	0.50	5.00	0.01	3.71	-0.69	1.61
125W-00N	185.00	0.80	5.00	0.00	5.22	-0.22	1.61
125W-25S	22.00	0.30	5.00	0.01	3.09	-1.20	1.61
125W-50S	23.00	0.30	5.00	0.01	3.14	-1.20	1.61
125W-75S	22.00	0.70	5.00	0.03	3.09	-0.36	1.61
125W-100S	23.00	2.60	5.00	0.11	3.14	0.96	1.61
125W-125S	28.00	0.70	5.00	0.03	3.33	-0.36	1.61
100W-175N	23.00	0.30	5.00	0.01	3.14	-1.20	1.61
100W-150N	46.00	1.70	5.00	0.04	3.83	0.53	1.61
100W-125N	49.00	0.70	35.00	0.01	3.89	-0.36	3.56
100W-100N	27.00	1.00	5.00	0.04	3.30	0.00	1.61
100W-75N	23.00	0.20	5.00	0.01	3.14	-1.61	1.61
100W-50N	29.00	0.30	5.00	0.01	3.33	-1.20	1.61
100W-25N	23.00	0.70	5.00	0.03	3.14	-0.36	1.61
100W-00N	63.00	0.30	5.00	0.00	4.14	-1.20	1.61
100W-25S	131.00	0.50	5.00	0.00	4.88	-0.69	1.61
100W-50S	43.00	0.80	5.00	0.02	3.76	-0.22	1.61
100W-75S	24.00	2.60	5.00	0.11	3.18	0.96	1.61
100W-100S	23.00	0.70	5.00	0.03	3.14	-0.36	1.61
75W-165N	196.00	0.70	5.00	0.00	5.28	-0.36	1.61
75W-150N	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
75W-125N	25.00	0.20	5.00	0.01	3.22	-1.61	1.61
75W-100N	22.00	0.50	5.00	0.02	3.09	-0.69	1.61
75W-75N	23.00	1.00	5.00	0.04	3.14	0.00	1.61
75W-50N	232.00	1.80	5.00	0.01	5.45	0.59	1.61
75W-25N	23.00	0.80	15.00	0.03	3.14	-0.22	2.71
75W-00N	60.00	0.80	5.00	0.01	4.09	-0.22	1.61
75W-25S	23.00	0.70	5.00	0.03	3.14	-0.36	1.61
75W-50S	37.00	0.70	5.00	0.02	3.61	-0.36	1.61
75W-75S	39.00	2.20	5.00	0.06	3.66	0.79	1.61
75W-100S	34.00	0.50	5.00	0.01	3.53	-0.69	1.61
75W-125S	23.00	0.50	5.00	0.02	3.14	-0.69	1.61

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50W-150N	22.00	0.30	5.00	0.01	3.09	-1.20	1.61
50W-125N	23.00	0.80	5.00	0.03	3.14	-0.22	1.61
50W-100N	22.00	0.50	5.00	0.02	3.09	-0.69	1.61
50W-75N	42.00	2.30	5.00	0.05	3.74	0.83	1.61
50W-50N	53.00	1.50	5.00	0.03	4.08	0.41	1.61
50W-25N	49.00	1.20	5.00	0.02	3.89	0.18	1.61
50W-00N	29.00	1.00	5.00	0.03	3.37	0.00	1.61
50W-25S	30.00	3.40	690.00	0.11	3.40	1.22	6.54
50W-50S	1000.00	4.80	540.00	0.00	6.91	1.57	6.29
50W-75S	1000.00	4.70	5.00	0.00	6.91	1.55	1.61
50W-100S	41.00	0.50	5.00	0.01	3.71	-0.69	1.61
50W-125S	24.00	0.50	5.00	0.02	3.18	-0.69	1.61
25W-175N	22.00	0.30	5.00	0.01	3.09	-1.20	1.61
25W-150N	22.00	0.20	5.00	0.01	3.09	-1.61	1.61
25W-125N	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
25W-100N	42.00	2.90	5.00	0.07	3.74	1.06	1.61
25W-75N	266.00	1.00	10.00	0.00	5.58	0.00	2.30
25W-50N	1000.00	6.30	2350.00	0.01	6.91	1.84	7.76
25W-25N	28.00	0.80	5.00	0.03	3.33	-0.22	1.61
25W-00N	42.00	0.30	5.00	0.01	3.74	-1.20	1.61
25W-25S	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
25W-50S	23.00	0.20	5.00	0.01	3.14	-1.61	1.61
25W-75S	24.00	0.50	5.00	0.02	3.18	-0.69	1.61
25W-100S	32.00	0.20	5.00	0.01	3.47	-1.61	1.61
25W-125S	51.00	0.50	5.00	0.01	3.93	-0.69	1.61
00E-175N	27.00	0.70	5.00	0.03	3.30	-0.36	1.61
00E-150N	210.00	0.30	5.00	0.00	5.35	-1.20	1.61
00E-125N	44.00	0.30	5.00	0.01	3.78	-1.20	1.61
00E-100N	89.00	0.50	5.00	0.01	4.49	-0.69	1.61
00E-75N	1000.00	8.90	430.00	0.01	6.91	2.19	6.06
00E-50N	1000.00	11.90	1350.00	0.01	6.91	2.48	7.21
00E-25N	25.00	0.50	5.00	0.02	3.22	-0.69	1.61
00E-00N	68.00	1.30	5.00	0.02	4.22	0.26	1.61
00E-25S	223.00	0.80	80.00	0.00	5.41	-0.22	4.38
00E-50S	484.00	1.00	10.00	0.00	6.18	0.00	2.30
00E-75S	159.00	0.70	5.00	0.00	5.07	-0.36	1.61
00E-100S	26.00	0.70	5.00	0.03	3.26	-0.36	1.61
00E-125S	25.00	0.80	5.00	0.03	3.22	-0.22	1.61
25E-175N	23.00	0.30	5.00	0.01	3.14	-1.20	1.61
25E-150N	27.00	0.70	5.00	0.03	3.30	-0.36	1.61
25E-125N	38.00	0.70	5.00	0.02	3.64	-0.36	1.61
25E-100N	27.00	1.00	5.00	0.04	3.30	0.00	1.61
25E-75N	26.00	0.50	20.00	0.02	3.26	-0.69	3.00
25E-50N	31.00	0.70	10.00	0.02	3.43	-0.36	2.30
25E-25N	1000.00	2.80	20.00	0.00	6.91	1.03	3.00
25E-00N	38.00	0.50	10.00	0.01	3.64	-0.69	2.30
25E-25S	28.00	0.70	10.00	0.03	3.33	-0.36	2.30
25E-50S	33.00	1.20	5.00	0.04	3.50	0.18	1.61
25E-75S	83.00	1.00	15.00	0.01	4.42	0.00	2.71
25E-100S	154.00	1.30	110.00	0.01	5.04	0.26	4.70
25E-125S	46.00	0.70	10.00	0.02	3.83	-0.36	2.30

50E-175N	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
50E-150N	24.00	0.20	5.00	0.01	3.18	-1.61	1.61
50E-125N	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
50E-100N	37.00	0.50	10.00	0.01	3.61	-0.69	2.30
50E-75N	24.00	0.30	10.00	0.01	3.18	-1.20	2.30
50E-50N	41.00	0.50	50.00	0.01	3.71	-0.69	3.91
50E-25N	22.00	0.70	5.00	0.03	3.09	-0.36	1.61
50E-00N	28.00	0.80	5.00	0.03	3.33	-0.22	1.61
50E-50S	26.00	1.20	5.00	0.05	3.26	0.18	1.61
50E-75S	25.00	1.00	5.00	0.04	3.22	0.00	1.61
50E-100S	102.00	0.80	5.00	0.01	4.62	-0.22	1.61
50E-125S	25.00	1.00	5.00	0.04	3.22	0.00	1.61
50E-135S	1000.00	3.50	5.00	0.00	6.91	1.25	1.61
75E-160N	23.00	0.30	10.00	0.01	3.14	-1.20	2.30
75E-150N	24.00	0.50	5.00	0.02	3.18	-0.69	1.61
75E-125N	140.00	0.50	10.00	0.00	4.94	-0.69	2.30
75E-100N	46.00	0.70	5.00	0.02	3.83	-0.36	1.61
75E-75N	1000.00	2.30	495.00	0.00	6.91	0.83	6.20
75E-50N	414.00	1.00	70.00	0.00	6.03	0.00	4.25
75E-25N	23.00	0.70	10.00	0.03	3.14	-0.36	2.30
75E-00N	246.00	0.80	5.00	0.00	5.51	-0.22	1.61
75E-25S	93.00	0.70	5.00	0.01	4.53	-0.36	1.61
75E-50S	37.00	1.20	5.00	0.03	3.61	0.18	1.61
75E-75S	38.00	0.80	5.00	0.02	3.64	-0.22	1.61
75E-100S	357.00	1.20	10.00	0.00	5.88	0.18	2.30
75E-125S	38.00	1.20	5.00	0.03	3.64	0.18	1.61
75E-135S	76.00	0.70	5.00	0.01	4.33	-0.36	1.61
100E-160N	76.00	0.70	5.00	0.01	4.33	-0.36	1.61
100E-150N	31.00	0.70	10.00	0.02	3.43	-0.36	2.30
100E-125N	1000.00	2.00	260.00	0.00	6.91	0.69	5.56
100E-100N	60.00	2.00	10.00	0.03	4.09	0.69	2.30
100E-75N	23.00	1.50	5.00	0.07	3.14	0.41	1.61
100E-50N	24.00	5.70	5.00	0.24	3.18	1.74	1.61
100E-25N	40.00	29.20	10.00	0.73	3.69	3.37	2.30
100E-25S	43.00	0.70	5.00	0.02	3.76	-0.36	1.61
100E-50S	123.00	1.30	5.00	0.01	4.81	0.26	1.61
100E-75S	46.00	0.70	5.00	0.02	3.83	-0.36	1.61
100E-100S	129.00	1.20	5.00	0.01	4.86	0.18	1.61
100E-125S	27.00	0.70	5.00	0.03	3.30	-0.36	1.61
100E-135S	25.00	0.60	5.00	0.02	3.22	-0.51	1.61
125E-160N	1000.00	11.70	1740.00	0.01	6.91	2.46	7.46
125E-150N	83.00	0.50	5.00	0.01	4.42	-0.69	1.61
125E-125N	165.00	0.80	15.00	0.00	5.11	-0.22	2.71
125E-100N	44.00	0.70	5.00	0.02	3.78	-0.36	1.61
125E-75N	192.00	0.80	20.00	0.00	5.26	-0.22	3.00
125E-50N	88.00	0.70	5.00	0.01	4.48	-0.36	1.61
125E-25N	1000.00	1.00	10.00	0.00	6.91	0.00	2.30
125E-00N	104.00	0.80	5.00	0.01	4.64	-0.22	1.61
125E-25S	271.00	1.00	5.00	0.00	5.60	0.00	1.61
125E-50S	223.00	1.20	10.00	0.01	5.41	0.18	2.30
125E-75S	91.00	1.20	5.00	0.01	4.51	0.18	1.61
125E-100S	357.00	1.00	10.00	0.00	5.88	0.00	2.30
125E-125S	45.00	1.00	5.00	0.02	3.81	0.00	1.61
125E-135S	26.00	0.80	5.00	0.03	3.26	-0.22	1.61

150E-100N	101.00	0.70	5.00	0.01	4.62	-0.36	1.61
150E-150N	30.00	0.30	10.00	0.01	3.40	-1.20	2.30
150E-125N	48.00	0.70	5.00	0.01	3.87	-0.36	1.61
150E-100N	131.00	0.70	5.00	0.01	4.88	-0.36	1.61
150E-75N	52.00	0.50	5.00	0.01	3.95	-0.69	1.61
150E-50N	106.00	0.50	50.00	0.00	4.66	-0.69	3.91
150E-25N	112.00	0.70	10.00	0.01	4.72	-0.36	2.30
150E-00N	35.00	0.50	5.00	0.01	3.56	-0.69	1.61
150E-25S	34.00	0.80	5.00	0.02	3.53	-0.22	1.61
150E-50S	24.00	1.00		0.04	3.18	0.00	ERROR
150E-75S	310.00	0.80		0.00	5.74	-0.22	ERROR
150E-100S	48.00	0.80	5.00	0.02	3.87	-0.22	1.61
175E-175N	96.00	0.20	10.00	0.00	4.56	-1.61	2.30
175E-150N	138.00	0.30	30.00	0.00	4.93	-1.20	3.40
175E-125N	53.00	0.30	5.00	0.01	3.97	-1.20	1.61
175E-100N	106.00	0.50	5.00	0.00	4.66	-0.69	1.61
175E-75N	55.00	0.20	5.00	0.00	4.01	-1.61	1.61
175E-50N	29.00	0.20	5.00	0.01	3.37	-1.61	1.61
175E-25N	73.00	0.30	20.00	0.00	4.29	-1.20	3.00
175E-00N	52.00	0.70	5.00	0.01	3.95	-0.36	1.61
175E-25S	131.00	0.80	10.00	0.01	4.88	-0.22	2.30
175E-50S	29.00	0.70	5.00	0.02	3.37	-0.36	1.61
175E-75S	90.00	0.80	10.00	0.01	4.50	-0.22	2.30
175E-100S	223.00	1.20	5.00	0.01	5.41	0.18	1.61
200E-175N	1000.00	1.30	150.00	0.00	6.91	0.26	5.01
200E-150N	49.00	0.70		0.01	3.89	-0.36	ERROR
200E-125N	76.00	0.80	5.00	0.01	4.33	-0.22	1.61
200E-100N	38.00	0.50	5.00	0.01	3.64	-0.69	1.61
200E-75N	90.00	0.70	5.00	0.01	4.50	-0.36	1.61
200E-50N	221.00	0.50	10.00	0.00	5.40	-0.69	2.30
200E-25N	60.00	0.50	10.00	0.01	4.09	-0.69	2.30
200E-00N	187.00	1.00	5.00	0.01	5.23	0.00	1.61
200E-25S	31.00	0.70	5.00	0.02	3.43	-0.36	1.61
200E-50S	255.00	0.70	20.00	0.00	5.54	-0.36	3.00
200E-75S	283.00	1.20	5.00	0.00	5.65	0.18	1.61
200E-100S	27.00	0.70	5.00	0.03	3.30	-0.36	1.61
200E-125S	24.00	0.80	5.00	0.03	3.18	-0.22	1.61
225E-175N	145.00	0.50	10.00	0.00	4.98	-0.69	2.30
225E-150N	114.00	0.20	5.00	0.00	4.74	-1.61	1.61
225E-125N	141.00	0.50	5.00	0.00	4.95	-0.69	1.61
225E-100N	194.00	0.50	10.00	0.00	5.27	-0.69	2.30
225E-75N	95.00	0.30	5.00	0.00	4.55	-1.20	1.61
225E-50N	34.00	0.50	145.00	0.01	3.53	-0.69	4.98
225E-25N	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
225E-00N	81.00	0.70	10.00	0.01	4.39	-0.36	2.30
225E-25S	44.00	0.70	5.00	0.02	3.78	-0.36	1.61
225E-50S	46.00	0.70	5.00	0.02	3.83	-0.36	1.61
225E-75S	43.00	1.00	5.00	0.02	3.76	0.00	1.61
225E-100S	62.00	1.00	5.00	0.02	4.13	0.00	1.61
225E-125S	55.00	0.50	5.00	0.01	4.01	-0.69	1.61

250E-175N	116.00	0.30	5.00	0.00	4.75	-1.20	1.61
250E-150N	58.00	0.80	5.00	0.01	4.06	-0.22	1.61
250E-125N	79.00	0.30	10.00	0.00	4.37	-1.20	2.30
250E-100N	280.00	0.70	5.00	0.00	5.63	-0.36	1.61
250E-75N	58.00	0.30	5.00	0.01	4.06	-1.20	1.61
250E-50N	35.00	0.30	5.00	0.01	3.56	-1.20	1.61
250E-25N	151.00	0.50	10.00	0.00	5.02	-0.69	2.30
250E-00N	77.00	0.30	5.00	0.00	4.34	-1.20	1.61
250E-25S	63.00	0.50	5.00	0.01	4.14	-0.69	1.61
250E-50S	23.00	0.50	5.00	0.02	3.14	-0.69	1.61
250E-75S	33.00	0.30	5.00	0.01	3.50	-1.20	1.61
250E-100S	149.00	0.50	5.00	0.00	5.00	-0.69	1.61
250E-125S	96.00	0.70	5.00	0.01	4.56	-0.36	1.61
275E-175N	105.00	0.20	5.00	0.00	4.65	-1.61	1.61
275E-150N	70.00	0.30	5.00	0.00	4.25	-1.20	1.61
275E-125N	25.00	0.30	10.00	0.01	3.22	-1.20	2.30
275E-100N	68.00	0.70	20.00	0.01	4.22	-0.36	3.00
275E-75N	47.00	0.30	5.00	0.01	3.85	-1.20	1.61
275E-50N	114.00	0.30	20.00	0.00	4.74	-1.20	3.00
275E-25N	287.00	0.70	85.00	0.00	5.66	-0.36	4.44
275E-00N	73.00	0.70	5.00	0.01	4.29	-0.36	1.61
275E-25S	37.00	1.20	10.00	0.03	3.61	0.18	2.30
275E-50S	36.00	0.80	5.00	0.02	3.58	-0.22	1.61
275E-75S	63.00	0.70	5.00	0.01	4.14	-0.36	1.61
275E-100S	106.00	0.50	5.00	0.00	4.66	-0.69	1.61
275E-125S	31.00	0.70	5.00	0.02	3.43	-0.36	1.61
300E-175N	237.00	0.80	5.00	0.00	5.47	-0.22	1.61
300E-150N	117.00	0.30	5.00	0.00	4.76	-1.20	1.61
300E-125N	397.00	0.70	40.00	0.00	5.98	-0.36	3.69
300E-100N	24.00	0.30	5.00	0.01	3.18	-1.20	1.61
300E-75N	24.00	0.70	5.00	0.03	3.18	-0.36	1.61
300E-50N	33.00	0.30	20.00	0.01	3.50	-1.20	3.00
300E-25N	28.00	0.20	5.00	0.01	3.33	-1.61	1.61
300E-00N	240.00	0.80	5.00	0.00	5.48	-0.22	1.61
300E-25S	97.00	0.50	20.00	0.01	4.57	-0.69	3.00
300E-50S	27.00	0.70	5.00	0.03	3.30	-0.36	1.61
300E-75S	250.00	0.80	10.00	0.00	5.52	-0.22	2.30
300E-100S	55.00	0.70	5.00	0.01	4.01	-0.36	1.61
300E-125S	171.00	0.50	5.00	0.00	5.14	-0.69	1.61

325E-175N	66.00	0.30	5.00	0.00	4.19	-1.20	1.61
325E-150N	35.00	0.30	5.00	0.01	3.56	-1.20	1.61
325E-100N	216.00	2.20	5.00	0.01	5.38	0.79	1.61
325E-75N	23.00	0.20	5.00	0.01	3.14	-1.61	1.61
325E-50N	175.00	0.70	5.00	0.00	5.16	-0.36	1.61
325E-25N	389.00	0.80	20.00	0.00	5.96	-0.22	3.00
325E-00N	79.00	0.80	5.00	0.01	4.37	-0.22	1.61
325E-25S	69.00	0.80	5.00	0.01	4.23	-0.22	1.61
325E-50S	34.00	0.70	5.00	0.02	3.53	-0.36	1.61
325E-75S	41.00	0.80	5.00	0.02	3.71	-0.22	1.61
325E-100S	87.00	0.50	5.00	0.01	4.47	-0.69	1.61
325E-125S	27.00	0.70	5.00	0.03	3.30	-0.36	1.61
350E-150N	23.00	0.20	5.00	0.01	3.14	-1.61	1.61
350E-100N	49.00	0.50	5.00	0.01	3.89	-0.69	1.61
350E-75N	61.00	0.80	5.00	0.01	4.11	-0.22	1.61
350E-50N	178.00	0.20	5.00	0.00	5.18	-1.61	1.61
350E-25N	63.00	0.30	5.00	0.00	4.14	-1.20	1.61
350E-00N	108.00	0.50	5.00	0.00	4.68	-0.69	1.61
350E-25S	25.00	0.80	5.00	0.03	3.22	-0.22	1.61
350E-50S	24.00	0.60	5.00	0.03	3.18	-0.51	1.61
350E-75S	95.00	0.70	10.00	0.01	4.55	-0.36	2.30
350E-100S	73.00	0.80	5.00	0.01	4.29	-0.22	1.61
350E-125S	108.00	0.80	5.00	0.01	4.68	-0.22	1.61
375E-175N	72.00	0.30	5.00	0.00	4.28	-1.20	1.61
375E-150N	27.00	0.30	5.00	0.01	3.30	-1.20	1.61
375E-125N	55.00	0.20	5.00	0.00	4.01	-1.61	1.61
375E-100N	83.00	0.70	5.00	0.01	4.42	-0.36	1.61
375E-75N	77.00	0.50	5.00	0.01	4.34	-0.69	1.61
375E-50N	52.00	1.00	5.00	0.02	3.95	0.00	1.61
375E-25N	65.00	0.30	5.00	0.00	4.17	-1.20	1.61
375E-00N	41.00	0.80	5.00	0.02	3.71	-0.22	1.61
375E-25S	178.00	1.30	10.00	0.01	5.18	0.26	2.30
375E-50S	124.00	0.50	5.00	0.00	4.82	-0.69	1.61
375E-75S	447.00	1.00	5.00	0.00	6.10	0.00	1.61
375E-100S	30.00	0.70	5.00	0.02	3.40	-0.36	1.61
375E-125S	266.00	1.70	5.00	0.01	5.58	0.53	1.61
400E-00N	590.00	1.30	5.00	0.00	6.38	0.26	1.61
400E-25S	1000.00	15.60	50.00	0.02	6.91	2.75	3.91
400E-50S	282.00	0.80	5.00	0.00	5.64	-0.22	1.61
400E-75S	123.00	1.00	5.00	0.01	4.81	0.00	1.61
400E-100S	140.00	0.50	10.00	0.00	4.94	-0.69	2.30
400E-125S	36.00	1.20	5.00	0.03	3.58	0.18	1.61
425E-100N	359.00	0.30	5.00	0.00	5.88	-1.20	1.61



General Testing Laboratories

A Division of SGS Supervision Services Inc.

1001 East Pender Street
Vancouver, B.C. V6A 1W2
Telephone: (604) 254-1647
Cable: Supervise
Telex: 04-507514

February 19, 1982.

Your ref.: Our ref.: 8108-1757

Mr. Bill Botel
Ste. 1102 - 675 West Hastings Street
Vancouver, B.C.
V6B 1N7

Dear Mr. Botel,


This letter is in response to your request for the methods of analysis for Alclay Resources Inc. pertaining to our Ref. 8108-1757

Au : 10 gm. sample, fire assay extraction, HNO_3 and HCl solution of dore bead. Atomic absorption finish.

Ag, Pb, Zn : 1 gm. sample, aqua-regia digestion. Atomic absorption determination.

Mo : 1 gm. sample, aqua-regia digestion. Atomic absorption determination in aluminum chloride matrix.

Yours truly,
GENERAL TESTING LABORATORIES
A DIVISION OF SGS SUPERVISION SERVICES INC.



L. Wong,
Chief Assayer.

1 of 4 copies to 10102

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General Testing Laboratories

A Division of SGS Supervision Services Inc.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2
PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE



TO:
ALCLAY RESOURCES INC.
Ste. 503 - 1975 Pendrell Street
Vancouver, B.C.

CERTIFICATE OF ASSAY

No.: 8108-1757 DATE: Sept. 8/81

We hereby certify that the following are the results of assays on: **Rock geochem**

MARKED	GOLD	SILVER	Copper	Zinc	Molybdenum	XXX	XXX	XXX
		Ag (ppm)	Cu (ppm)	Zn (ppm)	Mo (ppm)			
0+0		1.3	68	-	-			
0+25S		0.8	223	-	-			
0+50S		1.0	484	-	-			
0+75S		0.7	159	-	-			
0+100S		0.7	26	-	-			
0+125S		0.8	25	-	-			
25E		0.5	38	-	-			
25E 25S		0.7	28	-	-			
25E 50S		1.2	33	-	-			
25E 75S		1.0	83	-	-			
25E 100S		1.3	154	-	-			
25E 125S		0.7	46	-	-			
25E 135S		1.3	70	-	-			
50E		0.8	28	-	-			
50E 50S		1.2	26	-	-			
50E 75S		1.0	25	-	-			
50E 100S		0.8	102	-	-			
50E 125S		1.0	25	-	-			
50E 138S		3.5	> 1000	94	1.3			
75E		0.8	246	-	-			
75E 25S		0.7	93	-	-			
75E 50S		1.2	37	-	-			
75E 75S		0.8	38	-	-			
75E 100S		1.2	357	-	-			
75E 125S		1.2	38	-	-			
75E 135S		0.7	76	-	-			
100E 25S		0.7	43	-	-			
100E 50S		1.3	123	-	-			
100E 75S		0.7	46	-	-			
100E 100S		1.2	129	-	-			
100E 125S		0.7	27	-	-			
100E 135S		0.6	25	-	-			
125E		0.8	104	-	-			
125E 20S		0.3	26	-	-			
125E 25E		1.0	271	-	-			
125E 50S		1.2	223	-	-			

Continued on page 2

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L. Wong

PROVINCIAL ASSAYER

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A Division of SGS Supervision Services Inc.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2

PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:
ALCLAY RESOURCES INC.
 Ste. 503 - 1975 Pendrell Street
 Vancouver, B.C.
 ... page 2

CERTIFICATE OF ASSAY

No.: 8108-1757 DATE: Sept. 8/81

We hereby certify that the following are the results of assays on:

Rock geochem

MARKED	GOLD	SILVER	Copper	Zinc	Molybdenum	XXX	XXX	XXX
		Ag (ppm)	Cu (ppm)	Zn (ppm)	Mo (ppm)			
125E 75S		1.2	91	-	-			
125E 95S		1.2	92	-	-			
125E 100S		1.0	357	77	1.3			
125E 125S		1.0	45	-	-			
125E 135S		0.8	26	-	-			
150E		0.5	35	-	-			
150E 13		0.7	82	-	-			
150E 25S		0.8	34	-	-			
150E 50S		1.0	24	-	-			
150E 75S		0.8	310	-	-			
150E 100S		0.8	48	-	-			
175E		0.7	52	-	-			
175E 25S		0.8	131	-	-			
175E 50S		0.7	29	-	-			
175E 75S		0.8	90	-	-			
175E 100S		1.2	223	-	-			
200E		1.0	187	-	-			
200E 25S		0.7	31	-	-			
200E 50S		0.7	255	-	-			
200E 75S		1.2	283	-	-			
200E 100S		0.7	27	-	-			
200E 125S		0.8	24	-	-			
225E		0.7	81	65	1.3			
225E 25S		0.7	44	-	-			
225E 50S		0.7	46	-	-			
225E 75S		1.0	43	-	-			
225E 100S		1.0	62	-	-			
225E 125S		0.5	55	-	-			
275E		0.7	73	-	-			
275E 25S		1.2	37	-	-			
275E 50S		0.8	36	-	-			
275E 75S		0.7	63	-	-			
275E 100S		0.5	106	-	-			
275E 125S		0.7	31	-	-			
300E		0.8	240	-	-			
300E 25S		0.5	97	-	-			

/ Continued on page 3

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1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2

PHONE (604) 254-1847 TELEX 04-507514 CABLE SUPERVISE

TO:
ALCLAY RESOURCES INC.

..... page 3

CERTIFICATE OF ASSAY

No.: 8108-1757 DATE: Sept. 8/81

We hereby certify that the following are the results of assays on:

Rock geochem

MARKED	GOLD	SILVER	Copper	Zinc	Molybdenum	XXX	XXX	XXX
		Ag(ppm)	Cu (ppm)	Zn (ppm)	Mo (ppm)			
300E 50S		0.7	27	-	-			
" 75S		0.8	250	-	-			
" 100S		0.7	55	-	-			
" 125S		0.5	171	-	-			
325E		0.8	79	-	-			
" 25S		0.8	69	-	-			
" 50S		0.7	34	64	1.3			
" 75S		0.8	41	-	-			
" 100S		0.5	87	-	-			
" 125S		0.7	27	-	-			
350E South		0.5	108	-	-			
" 25S		0.8	25	-	-			
" 50S		0.6	24	-	-			
" 75S		0.7	95	-	-			
" 100S		0.8	73	-	-			
" 115S		0.7	65	-	-			
" 125S		0.8	108	-	-			
360E 160N		0.7	161	-	-			
375E S		0.8	41	-	-			
" 25S		1.3	178	-	-			
" 50S		0.5	124	-	-			
" 75S		1.0	447	-	-			
" 100S		0.7	30	-	-			
" 118S		1.7	266	-	-			
400E		0.5	45	-	-			
400E S		1.3	590	-	-			
" 25S		15.6	> 1000	94	7.5			
" 50S		0.8	282	-	-			
" 75S		1.0	123	-	-			
" 100S		0.5	140	-	-			
" 125S		1.2	36	-	-			
0+25N		0.5	25	-	-			
0+50N		11.9	> 1000	-	-			
0+75N		8.9	> 1000	-	-			

/ Continued on page 4

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L. Wobg

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PHONE (604) 254-1647 TELEX 04-507514 CABLE: SUPERVISE

TO:
ALCay Resources Inc.

.... page 4

CERTIFICATE OF ASSAY

No.: 8108-1757 DATE: Sept. 8/81

We hereby certify that the following are the results of assays on: Rock geochem

MARKED	SILVER	Copper	Zinc	Molybdenum	XXX	XXX	XXX
		Ag (ppm)	Cu (ppm)	Zn (ppm)	Mo (ppm)		
0+100N	0.5	89	-	-			
0+125N	0.3	44	-	-			
0+150N	0.3	210	-	-			
0+175N	0.7	27	-	-			
25E 25N	2.8	> 1000	-	-			
" 50N	0.7	31	-	-			
" 75N	0.5	26	-	-			
" 100N	1.0	27	-	-			
" 125N	0.7	38	-	-			
" 150N	0.7	27	-	-			
" 175N	0.3	23	-	-			
50E 25N	0.7	22	-	-			
" 50N	0.5	41	72	6.3			
" 75N	0.3	24	-	-			
" 100N	0.5	37	-	-			
" 125N	0.5	23	-	-			
" 150N	0.2	24	-	-			
" 175N	0.5	23	-	-			
75E 25N	0.7	23	-	-			
" 50N	1.0	414	-	-			
" 75N	2.3	> 1000	-	-			
" 100N	0.7	46	-	-			
" 125N	0.5	140	-	-			
" 150N	0.5	24	-	-			
" 160N	0.3	23	-	-			
100E 25N	29.2	40	-	-			
" 50N	5.7	24	-	-			
" 75N	1.5	23	-	-			
" 100N	2.0	60	-	-			
" 125N	2.0	> 1000	-	-			
" 150N	0.7	31	-	-			
" 160N	0.7	76	-	-			

/ Continued on page 5

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L. Wong
L. Wong
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1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2
 PHONE (604) 254-1847 TELEX 04-507514 CABLE: SUPERVISE

TO:
 ALCLAY RESOURCES INC.
 page 5

CERTIFICATE OF ASSAY

No: 8108-1757 DATE: Sept. 8/81

We hereby certify that the following are the results of assays on: Rock geochem

MARKED	XXXX	SILVER	Copper	Zinc	Molybdenum	XXX	XXX	XXX
		Ag (ppm)	Cu (ppm)	Zn (ppm)	Mo (ppm)			
125E 25N		1.0	> 1000	65	1.3			
" 50N		0.7	88	-	-			
" 75N		0.8	192	-	-			
" 100N		0.7	44	-	-			
" 125N		0.8	165	-	-			
" 150N		0.5	83	-	-			
" 165N		11.7	> 1000	-	-			
150E 25N		0.7	112	-	-			
" 50N		0.5	106	-	-			
" 75N		0.5	52	-	-			
" 100N		0.7	131	-	-			
" 125N		0.7	48	-	-			
" 150N		0.3	30	-	-			
" 165N		0.7	101	-	-			
200E 25N		0.5	60	-	-			
" 50N		0.5	221	-	-			
" 75N		0.7	90	-	-			
" 100N		0.5	38	-	-			
" 125N		0.8	76	-	-			
" 150N		0.7	49	-	-			
" 175E		1.3	> 1000	176	15			
300E 25N		0.2	28	-	-			
" 50N		0.3	33	-	-			
" 75N		0.7	24	-	-			
" 100N		0.3	24	-	-			
" 125N		0.7	397	-	-			
" 150N		0.3	117	-	-			
" 175N		0.8	237	-	-			
350E North		0.5	38	-	-			
" 25N		0.3	63	-	-			
" 50N		0.2	178	-	-			
" 75N		0.8	61	-	-			
" 100N		0.5	49	-	-			
" 150N		0.2	23	-	-			

/ Continued on page 6

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 PHONE (604) 254-1847 TELEX 04-507514 CABLE: SUPERVISE

TO:
ALCLAY RESOURCES INC.

... page 6

CERTIFICATE OF ASSAY

No.: 8108-1757 DATE: Sept. 8/81

We hereby certify that the following are the results of assays on:

Rock Geochem

MARKED	GOLD	SILVER	Copper	Zinc	Molybdenum	xxx	xxx	xxx
		Ag (ppm)	Cu (ppm)	Zn (ppm)	Mo (ppm)			
425E 100N		0.3	359	-	-			
25W		0.3	42	-	-			
" 25S		0.5	23	-	-			
" 50S		0.2	23	-	-			
" 75S		0.5	24	-	-			
" 100S		0.2	32	-	-			
" 125S		0.5	51	85	1.3			
" 150N		0.2	22	-	-			
" 175N		0.3	22	-	-			
50W 25N		1.2	49	-	-			
" 50N		1.5	59	-	-			
" 75N		2.3	42	-	-			
" 100N		0.5	22	-	-			
" 125N		0.8	23	-	-			
" 150N		0.3	22	-	-			
75W 25N		0.8	23	-	-			
" 50N		1.8	232	-	-			
" 75N		1.0	23	-	-			
" 100N		0.5	22	-	-			
" 125N		0.2	25	-	-			
" 150N		0.5	23	-	-			
" 165N		0.7	196	-	-			
100A		0.3	63	-	-			
100W 25N		0.7	23	-	-			
" 50N		0.3	28	-	-			
" 75N		0.2	23	11	1.3			
" 100N		1.0	27	-	-			
" 125N		0.7	49	-	-			
" 150N		1.7	46	-	-			
" 175N		0.3	23	-	-			
125W 25S		0.3	22	-	-			
" 50S		0.3	23	-	-			
" 75S		0.7	22	-	-			

/ Continued on page 7

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PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:
ALCLAY RESOURCES INC.

..... page 7

CERTIFICATE OF ASSAY

No.: 8108-1757 DATE: Sept. 8/81

We hereby certify that the following are the results of assays on:

Rock geochem

MARKED	XXXXXX	SILVER	Copper	Zinc	Molybdenum	XXX	XXX	XXX
		Ag(ppm)	Cu (ppm)	Zn (ppm)	Mo (ppm)			
125W 100S		2.6	23	-	-			
" 125S		0.7	28	-	-			
125W		0.8	185	-	-			
" 25N		0.5	41	-	-			
" 50N		0.5	29	-	-			
" 75N		0.5	121	-	-			
" 100N		1.3	23	-	-			
" 125N		0.5	23	-	-			
" 150N		0.5	55	-	-			
" 165N		0.7	34	-	-			
25W 25N		0.8	28	-	-			
" 50N		6.3	> 1000	-	-			
" 75N		1.0	266	21	1.3			
" 100N		2.9	42	-	-			
" 125N		0.5	23	-	-			
150W 25S		0.5	71	-	-			
" 50S		0.5	24	-	-			
" 75S		0.5	26	-	-			
" 100S		0.5	23	-	-			
" 125S		1.0	125	-	-			
" 135S		2.6	34	-	-			
150W		0.3	23	-	-			
" 125N		0.3	29	-	-			
" 150N		0.5	23	-	-			
" 165N		0.5	23	-	-			
" 25N		0.6	23	-	-			
" 50N		0.8	166	-	-			
" 75N		0.5	41	-	-			
" 100N		0.7	49	-	-			
50W		1.0	29	-	-			
" 25S		3.4	30	-	-			
" 50S		4.8	> 1000	-	-			
" 75S		4.7	> 1000	25	1.3			
" 100S		0.5	41	-	-			
" 125S		0.5	24	-	-			

Continued on page 8

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR

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L. Wong

PROVINCIAL ASSAYER

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association
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General Testing Laboratories

A Division of SGS Supervision Services Inc.

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V8A 1W2
 PHONE (604) 254-1647 TELEX 04-507514 CABLE: SUPERVISE

TO:
 ALCLAY RESOURCES INC.
 ... page 8

CERTIFICATE OF ASSAY

No.: 8108-1757 DATE: Sept. 8/81

We hereby certify that the following are the results of assays on: Rock geochem

MARKED	XXXXXX	SILVER	Copper	Zinc	Molybdenum	XXX	XXX	XXX
		Ag (ppm)	Cu (ppm)	Zn (ppm)	Mo (ppm)			
75W		0.8	60	-	-			
" 25S		0.7	23	-	-			
" 50S		0.7	37	-	-			
" 75S		2.2	39	-	-			
" 100S		0.5	34	-	-			
" 125S		0.5	23	-	-			
100W		0.3	23	-	-			
" 25S		0.5	131	-	-			
" 50S		0.8	43	-	-			
" 75S		2.6	24	-	-			
" 100S		0.7	23	-	-			
225E 25N		0.5	23	-	-			
" 50N		0.5	34	-	-			
" 75N		0.3	95	-	-			
" 100N		0.5	194	-	-			
" 125N		0.5	141	-	-			
" 150N		0.2	114	-	-			
" 170N		0.5	145	96	1.3			
250E		0.3	77	-	-			
" 25S		0.5	63	-	-			
" 50S		0.5	23	-	-			
" 75S		0.3	33	-	-			
" 100S		0.5	149	-	-			
" 100S (soil)		0.5	35	-	-			
" 125S		0.7	96	-	-			
" 25N		0.5	151	-	-			
" 50N		0.3	35	-	-			
" 75N		0.3	58	-	-			
" 100N		0.7	280	-	-			
" 125N		0.3	79	-	-			
" 150N		0.8	58	-	-			
" 175N		0.3	116	-	-			

/ Continued on page 9

NOTE: REJECTS RETAINED ONE MONTH PULPS RETAINED THREE MONTHS ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.

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PHONE (604) 254-1647 TELEX 04-507514 CABLE: SUPERVISE

TO:
ALCLAY RESOURCES INC.

..... page 9

CERTIFICATE OF ASSAY

No.: 8108-1757 DATE: Sept. 8/81

We hereby certify that the following are the results of assays on: rock geochem

MARKED	SILVER Ag (ppm)	Copper Cu (ppm)	Zinc Zn (ppm)	Molybdenum Mo (ppm)	xxx	xxx	xxx
275E 25N	0.7	287	-	-			
" 50N	0.3	114	-	-			
" 50N (soil)	0.5	203	-	-			
" 75N	0.3	47	-	-			
" 100N	0.7	68	-	-			
" 125N	0.3	25	36	1.3			
" 150N	0.3	70	-	-			
" 169N	0.2	105	-	-			
325E 25N	0.8	389	-	-			
" 50N	0.7	175	-	-			
" 75N	0.2	23	-	-			
" 100N	2.2	216	-	-			
" 150N	0.3	35	-	-			
" 167N	0.3	66	-	-			
375E North	0.3	23	-	-			
" 25N	0.3	65	-	-			
" 50N	1.0	52	-	-			
" 75N	0.5	77	-	-			
" 100N	0.7	83	-	-			
" 125N	0.2	55	-	-			
" 150N	0.3	27	-	-			
" 168N	0.3	72	-	-			
175E 25N	0.3	73	-	-			
" 50N	0.2	29	-	-			
" 75N	0.2	55	-	-			
" 100N	0.5	106	100	1.3			
" 125N	0.3	53	-	-			
" 150N	0.3	138	-	-			
" 175N	0.2	96	-	-			

NOTE: REJECTS RETAINED ONE MONTH PULPS RETAINED THREE MONTHS ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR.

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OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURE FOR GOLD GEOCHEMICAL ANALYSIS.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pre-treated with HNO_3 and HClO_4 mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analysed from suitable aliquote by Atomic Absorption Spectrophotometric procedure.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 5 ppb.

INVOICE

N^o 313 A

MIN-EN LABORATORIES LTD.

705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

Phone: (604) 980-5814 or 988-4524
Telex: 04-352828

DATE Jan. 18/82.
YOUR ORDER NO.

to • Veerman-Botel Ltd.,
• 1102-675 W. Hastings St.,
• Vancouver, B.C.

OUR ORDER NO.	TERMS	F.O.B.	Alclay Res.	
2-13				
QUANTITY	STOCK NUMBER/DESCRIPTION	UNIT PRICE	AMOUNT	
316	geochem-- Au	5 00	1580	00
316	geodem-- rolling of samples	65	205	40
1	assay - Cu, Ag, Au	23 00	23	00
1	assay sample prep	2 75	2	75
	TOTAL		1811	15

THESE ARE PROFESSIONAL SERVICES AND ARE PAYABLE WHEN RENDERED.
OVER 30 DAYS 2% INTEREST PER MONTH WILL BE CHARGED.

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project Alclay Res. Date of report .. Jan, 18/82. ..
File No. 2-13 Date samples received Jan. 12/82. ..
Samples submitted by: B. Botel
Company: Veerman-Botel
Report on: 77 Geochem samples
.....
..... Assay samples
.....

Copies sent to:

1. Veerman-Botel, Vancouver, B.C.
2.
3.

Samples: Sieved to mesh Ground to mesh

Prepared samples stored discarded samples - rolled
rejects stored discarded

Methods of analysis: Au-Aqua Regia.A.A.

Remarks:

SPECIALISTS IN MINERAL ENVIRONMENTS

COMPANY Veerman-Botel

PROJECT No.: Alclay Res.

ATTENTION: B. Botel

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 2-13

DATE: Jan. 18

1982.

Sample Number	6 86	10 90	15 95	20 100	25 105	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
8108-1757-250E-75S													5			
				100									5			
				100									10	soil		
		250E	125S										5			
		275E	25S										10			
			50										5			
			75										5			
			100										5			
		275E	125S										5			
		300E	25S										20			
			50										5			
			75										10			
			100										5			
		300E	125S										5			
		325E	25S										5			
			50										5			
			75										5			
			100										5			
		325E	125S										5			
		350E	25S										5			
			50										5			
			75										10			
			100										5			
			115										5			
		350E	125S										5			
		375E	25S										10			
			50										5			
			75										5			
			100										5			
8108-1757-375E-118S													5			

CERTIFIED BY

COMPANY Veerman-Botel

GEOCHEMICAL ANALYSIS DATA SHEET

No. 2-13

PROJECT No.: Alclay Res.

MIN - EN Laboratories Ltd.
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

DATE: Jan. 18
1982.

ATTENTION: B. Botel

6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
Sample Number	Mg ppm	Ca ppm	SP ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
8108-1	757-	400E-	25S									50				
			50									5				
			75									5				
			100									10				
		400E-	125S									5				
		50W-	25N									5				
		100W-	25N									5				
		25W										5				
		50W										5				
		75W										5				
		100W										5				
		125W										5				
		150W										5				
		0+25N										5				
		0+50										1350				
		0+75										430				
		0+100										5				
		0+150										5				
		0+125										5				
		0+175N										5				
		25E										10				
		50E										5				
		75E										5				
		125E										5				
		150E										5				
		175E										5				
		200E										5				
		225E										10				
		250E										5				
810	1757-	275E										5				

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GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 2-13

DATE: Jan. 18
1982.

6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb			
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	160
81.08-1757-		3.00E											5		
		3.25E											5		
		3.50E+North											5		
		3.50E+South											5		
		3.75E+North											5		
		3.75E+South											5		
		4.00E											5		
		4.00E+South											5		
		0+0											5		
		0+2.5S											80		
		0+5.0S											10		
		0+7.5S											5		
		0+1.00S											5		
		0+1.25S											5		
		1.50+1.3											5		
		1.00A											5		
81.08-1757-0													5		

[Handwritten signature]

COMPANY Veerman-Botel

GEOCHEMICAL ANALYSIS DATA SHEET

No. 2-13

PROJECT No.: Alclay Res.

MIN - EN Laboratories Ltd.

DATE: Jan. 15,

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

1982.

PHONE (604) 980-5814

ATTENTION: B. Botel

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Mn ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
	81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
8109-1650-751K													15				
			752										640				
			753										50				
			754										950				
			755										40				
			756										1700				
8109-1650-757K													260				
8108-1758-Kno11 #1													4750				
													140				
													160				
													3120				
													225				
													1100				
													90				
													170				
8108-1758-275E-300S													75				
8108-1757-25E-25N													20				
													10				
													20				
													5				
													5				
													5				
													5				
													50				
													10				
													10				
													5				
													5				
													5				
8108-1757-50E-175N													5				

Handwritten signature and initials

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PROJECT No.: Alclay Res.

ATTENTION: B. Botel

GEOCHEMICAL ANALYSIS DATA SHEET

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705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 2-13

DATE: Jan. 15

1982.

Sample Number	6 86	10 90	15 95	20 100	25 105	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
	Hg ppm	Cd ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
8108-1			75E-25N										10			
			50										70			
			75										495			
			100										5			
			125										10			
			150										5			
			75E-160N										10			
			100E-25N										10			
			50										5			
			75										5			
			100										10			
			125										260			
			150										10			
			100E-160N										5			
			125E-25N										10			
			50N										5			
			75										20			
			100										5			
			125										15			
			150										5			
			125E-165N										1740			
			150E-25N										10			
			50										50			
			75										5			
			100										5			
			125										5			
			150										10			
			150E-165N										5			
			175E-25N										20			
810			175E-50N										5			

COMPANY Veerman Botel

PROJECT No.: Alclay Res.

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PHONE (604) 980-5814

No. 2-13

DATE: Jan. 15

1982

6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb			
81	86	90	95	100	110	115	120	125	130	135	140	145	150	155	160
8108-1	1757-	175E-	75N									5			
			100									5			
			125									5			
			150									30			
		175E-	175N									10			
		200E-	25N									10			
			50									10			
			75									5			
			100									5			
			125									5			
			150									no sample			
		200E-	175N									150			
		225E-	25N									5			
			50									145			
			75									5			
			100									10			
			125									5			
		225E-	150N									5			
		225E-	170N									10			
		250E-	25N									10			
			50									5			
			75									5			
			100									5			
			125									10			
			150									5			
		250E-	175N									5			
		275E-	25N									85			
			50									20			
			50 soil									5			
8108-1	1757-	275E-	75N									5			

COMPANY Veerman-Botel

PROJECT No.: Alclay Res.

ATTENTION: B. Botel

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 2-13

DATE: Jan. 15
1982

6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Sample Number	Gr	Gr	Gr	Gr	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb			
81	86	90	95	100	110	115	120	125	130	135	140	145	150	155	160
8108-1	1757	275E-100N										20			
			125									10			
			150									5			
		275E-169N										5			
		300E-25N										5			
			50									20			
			75									5			
			100									5			
			125									40			
			150									5			
		300E-175N										5			
		325E-25N										20			
			50									5			
			75									5			
			100									5			
			150									5			
		325E-167N										5			
		350E-25N										5			
			50									5			
			75									5			
			100 (soil)									5			
		350E-150N										5			
		360E-160N										5			
		375E-25N										5			
			50									5			
			75									5			
			100									5			
			125									5			
			150									5			
8109-1	1757	375E-168N										5			

COMP Veerman-Botel

PROJECT No.: Alclay Res.

ATTENTION: B. Botel

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 2-13
DATE: Jan. 15
1982

Sample Number	6 81	10 86	15 90	20 95	25 100	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
			Cu ppm	Pb ppm	NI ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
8108-1757			425E	100N (Soil)									5			
			25W	25N									5			
				50									2350			
				75									10			
				100									5			
				125									5			
				150									5			
			25W	175N									5			
			50W	50N									5			
				75									5			
				100									5			
				125									5			
				150									5			
			50W	175N									5			
			75W	25N									15			
				50									5			
				75									5			
				100									5			
				125									5			
				150									5			
			75W	165N									5			
			100W	50N									5			
				75									5			
				100									5			
				125									35			
				150									5			
			100W	175N									5			
			125W	25N									5			
				50									5			
8108-1757			125W	75N									5			

COMPANY Veerman-Botel

PROJECT No.: Alclay Res.

ATTENTION: B. Botel

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 2-13

DATE: Jan. 15

1982

Sample Number	Mo ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
81	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
8108-1	757	125W	100N									5			
			125									5			
			150									10			
		125W	165N									5			
		150W	25N									5			
			50									5			
			75									10			
			100									5			
			125									5			
			150									5			
		150W	165N									5			
		25W	25S									5			
			50									5			
			75									5			
			100									5			
		25W	125									5			
		50W	25S									690			
			50									540			
			75									5			
			100									5			
		50W	125S									5			
		75W	25S									5			
			50									5			
			75									5			
			100									5			
		75W	125S									5			
		100W	25S									5			
			50									5			
			75									5			
810	1757	100W	100S									5			

COMPANY Veerman-Botel

PROJECT No.: Alclay Res.

ATTENTION: B. Botel

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

DATE: Jan 15

1982

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	ppb	ppb	ppb	ppb	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb			
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
8108-1757		125W	25S										5			
			50										5			
		125W	75										5			
		135W	125S										5			
		150W	25S										5			
			50										5			
			75										5			
			100										5			
			125										5			
		150W	135S										5			
		25E	25S										10			
			50										5			
			75										15			
			100										110			
			125										10			
		25E	135S										5			
		50E	25S										5			
			50										5			
			75										5			
			100										5			
			125										5			
		50E	138S										5			
		75E	25S										5			
			50										5			
			75										5			
			100										10			
			125										5			
		75E	135S										5			
		100E	25S										5			
8108-1757		100E	50S										5			

COMPANY Veerman-Botel

PROJECT No.: Alclay Res.

ATTENTION: B. Botel

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

DATE: 2-13

DATE: Jan. 15 - 1982

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	ppb	ppb	ppb	ppb	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb			
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
8108-1757		100E-75S											5			
		100											5			
		125											5			
		100E-135S											5			
		125E-20S											10			
		25											5			
		50											10			
		75											5			
		95											5			
		100											10			
		125											5			
		125E-135S											5			
		150E-25S											5			
		150E-100S											5			
		175E-25S											10			
		50											5			
		75											10			
		175E-100S											5			
		200E-25S											5			
		50											20			
		75											5			
		100											5			
		200E-125S											5			
		225E-25S											5			
		50											5			
		75											5			
		100											5			
		225E-125S											5			
		250E-25S											5			
8108-1757		250E-50S											5			

CERTIFIED BY

PRELIMINARY GEOLOGICAL REPORT

CLAY PROPERTY

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INTRODUCTION

This report presents the findings of an initial investigation of the Alclay copper property east of 100 Mile House in central B. C. The writer was retained by Alclay Resources Inc. to conduct a geological and preliminary geophysical examination of the area of the main showings as outlined by W. C. Botel in Vancouver, and A. Robinson on the property, and to make recommendations for further investigation of the deposit.

Geological mapping, EM-16 and magnetometer surveys and sampling were done on May 13-16, 1981. Results indicate that the property is an excellent copper showing, and that further work in the form of diamond drilling and rock geochemistry is warranted. Other than possibly induced polarization it appears that most geophysical techniques will not respond to the mineralization.

LOCATION AND ACCESS

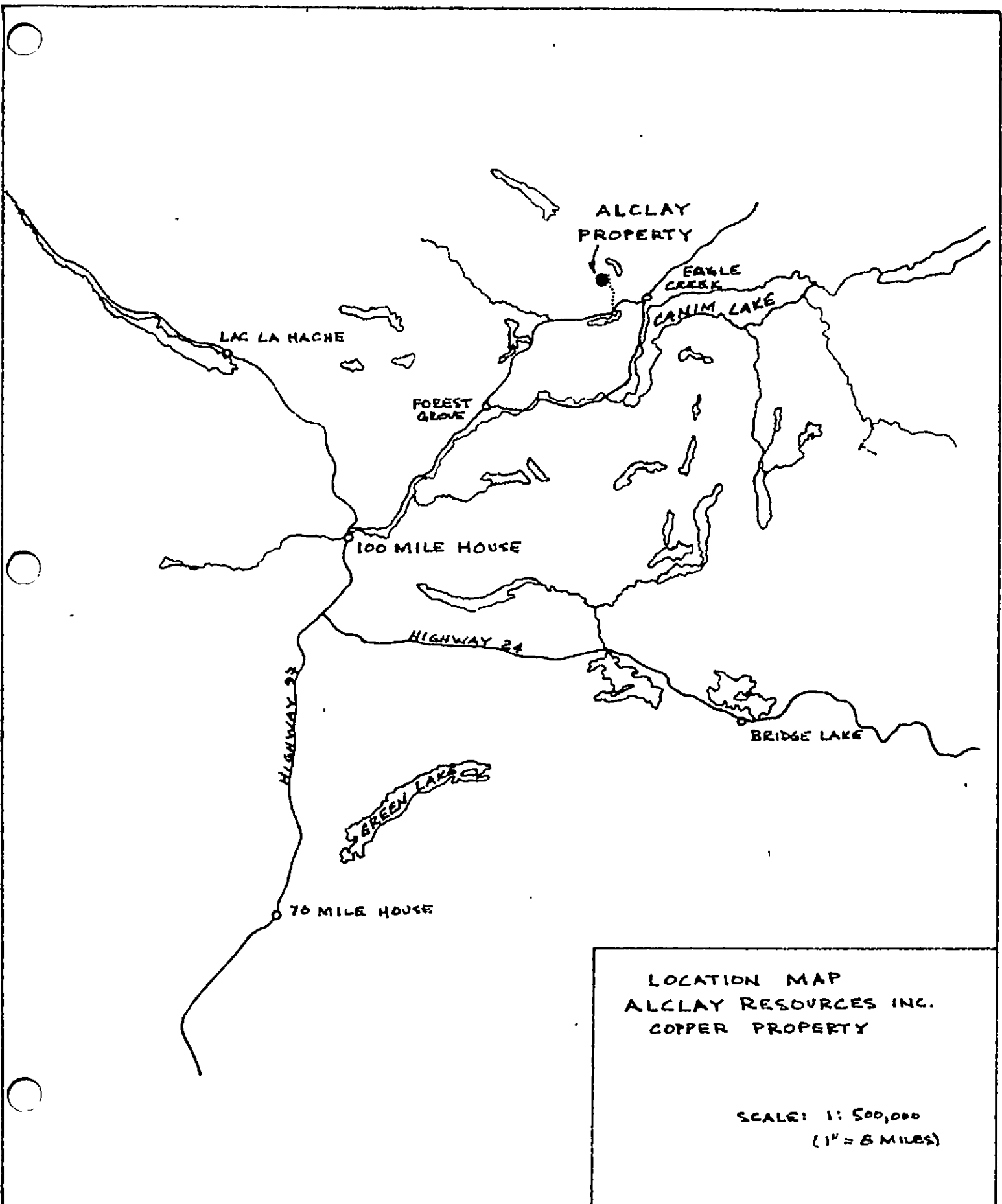
The property is situated in the south-central interior of B. C. approximately 36 kilometers east-northeast of 100 Mile House, at 51° 52' 50" N, 120° 55' 20" W. The property is reached by travelling from Highway 97 at 100 Mile House to Eagle Creek on Canim Lake, and then 3 kilometers west to the Al Robinson residence at the east end of Hawkins Lake. A 5 kilometer four-wheel-drive road leads northward from this residence to the top of an 1100 meter (3600 foot) high knoll 6 kilometers southwest of the south end of Roser Lake.

HISTORY

New property. The mineralized showings were located and staked by A. Robinson in 1978, at which time 6 claims were staked to cover these showings. Since then blocks of claims have been staked to north and south to cover possible extensions to the mineralization.

GEOLOGY & MINERALIZATION

The mineralization occurs in Triassic Nicola volcanic rocks, which in the vicinity of the showings consist of dark green augite porphyry flows, augite porphyry breccia, limestone and phyllite. The volcanics are typical of Nicola Group rocks,



ALCLAY
PROPERTY

EAGLE
CREEK

CANIM LAKE

LAC LA HACHE

FOREST
GROVE

100 MILE HOUSE

HIGHWAY 24

HIGHWAY 22

BRIDGE LAKE

GREEN LAKE

70 MILE HOUSE

LOCATION MAP
ALCLAY RESOURCES INC.
COPPER PROPERTY

SCALE: 1: 500,000
(1" = 8 MILES)

with augite crystals commonly 4 millimeters in length embedded in a fine-grained green matrix. Breccia consists of angular clasts of this augite porphyry up to 20 centimeters in length embedded in a greenish-grey tuffaceous matrix. Average clast size is approximately 6 centimeters with the breccia consisting of 40% to 70% clasts.

The limestone unit is discontinuous (probably lensoidal), up to 5 meters thick, and appears to occupy the same stratigraphic position as one of the phyllite units. It is thin-bedded, dark grey to dark green and barren of any fossils; the variation to dark green color is due to an increase in included tuffaceous sediment.

Phyllite occurs north of the limestone along strike and probably in the same stratigraphic position. It is grey, distinctively brown-weathering and is probably derived from a fine-grained tuffaceous siltstone.

Measurements of bedding, composition layering and foliation attitudes indicate the presence of a synformal fold with a NNE-SSW nearly horizontal axis running through the center of the outcrop area of the knoll. This is supported by the existence of the phyllite unit on both sides of the knoll. Along the west limb of this structure are several areas where attitudes reverse and dip steeply westwards rather than towards the synformal axis, indicating a deformation of the west limb in the form of rippling; this rippling is likely due to the intrusion of Jurassic granodiorite immediately west of the property.

Coincident with the rippling is the appearance of tension gashes in augite porphyry andesite and breccia. These gashes are from 1 to 2 centimeters thick and 4 to 6 centimeters long, and are filled with coarsely crystalline calcite and dark green epidote with accompanying bornite, chalcocite, hematite, minor chalcopyrite and occasional visible free gold nearly always associated with bornite. The sulfides commonly displace up to half of the calcite in gash veins. This type of mineralization in fractured rocks occurs in a semi-continuous zone 15 to 20 meters wide and 100 to 120 meters long along the west limb of the synform. On both ends the mineralized zone is covered by glacial drift.

Less spectacular mineralization occurs as bornite and chalcopyrite over most of the outcrop area, precipitated along unopened fractures and always accompanied by malachite and azurite. In addition bornite has been found in calcite-filled tension gashes 500 meters east of the main showings, and bornite and chalcopyrite were found in fractures in bedrock along the access road 1 kilometer south of the property.

MAGNETIC SURVEY

A magnetic survey was conducted over the gridded area of the main showings using a Geometrics G-816 proton precession magnetometer. Lines were run east-west, with looping through station 6N, 0E for drift measurement. Drift was found to be less than 50 gammas and no drift correction applied.

Data were plotted on a plan of the surveyed area and contoured. The mineralized trend did not present a magnetic signature and no significant trends appeared.

ELECTROMAGNETIC SURVEY

Electromagnetic profiles were obtained from the gridded area of the main showings using a Geonics Ronka EM-16 receiver tuned to station NLK Seattle, Wa. (18.6 kHz.). Polarity of readings were recorded facing west and profiles of inphase and quadrature plotted. The mineralized zone did not present an electromagnetic signature, but sharp crossovers were obtained by extending lines 0N and 6N through the swamp area immediately east of the knoll. Such responses to water-saturated swampy ground are characteristic of the EM-16 technique; thus in this case the distinctive anomalies observed in lines 0N and 6N are interpreted as caused by the swamp.

All profiles exhibit an identical pattern indicating the presence of a conductor (swamp) to the east of the knoll; as well, the trend to high positive inphase readings toward the west end of all profiles indicates the existence of a conductor west of the knoll. As this area is also occupied by swampy ground, the interpretation of the anomaly must be the same as for the east side of the knoll.

CONCLUSIONS

The Alclay property exhibits excellent potential as a copper target due to the geologic setting, the nature of mineralization and size of the mineralized showing. The mineralization occurs as a concentration of copper as bornite

and chalcopryite with gold and silver in Triassic volcanic rocks which are regionally high in background copper content, and which host notable copper properties including the Sustut deposit in north-central B.C. The concentration occurs because of the intrusion of younger granodiorite immediately west of and probably under the area of present showings, which caused the generation of tension gashes providing space for sulfide precipitation, and the circulation of fluids providing the transport mechanism during cooling. No structure which would limit the lateral (north-south) or vertical extensions of the present showings was found. It is expected that wherever the observed nature of deformation of the volcanic rocks occurs adjacent to the intrusive contact the concentration of copper could occur. This allows that the nature of an exploration target sought in order to expand the mineralized area could be continuous or discontinuous along a north-south line, varying with the intrusive contact and nature of deformation. The existence of glacial cover both north and south of the property necessitates a geochemical or geophysical means of detection, other than blind drillings.

The present showings present a surface exposure of at least 15 meters by 100 meters, or roughly 50 feet by 300 feet. Each 100 meters of vertical depth would yield 150,000 cubic meters or roughly 375,000 tons of ore (at 14 cubic feet per ton). To date, various assays indicate a grade of between 5% and 20% copper, with substantial values in gold and silver. Assay results of samples collected during this investigation were not received at time of this writing; they will be appended when received.

Both attempted geophysical techniques (EM-16 and magnetometer) failed to detect any anomaly over the well-mineralized outcrop. This indicates that magnetic minerals do not accompany the copper and that the mineralized body is not conductive. These indications severely restrict the use of geophysics in any future examinations.

RECOMMENDATIONS

The potential size and grade of the Alclay Property permit that further exploration proceed. On the basis of this investigation, several major constraints can be applied to the available courses of action.

The absence of magnetic or EM-16 anomalies over known mineralization precludes the use of nearly all geophysical techniques. The only remaining geophysical method which may yield an anomaly is induced polarization. To simply test this technique would require an expenditure of \$2000; a complete survey of the area would require \$20,000. The high cost and

unknown chance of success suggest that this technique be reserved as a possible investigative tool to be used after more information is gained by other means.


Geochemical techniques have some chance of success, with restrictions in application due to the variability in ground conditions. The development of soil is inconsistent in that the knoll where the showings occur is mostly solid rock, much of the surrounding lower ground is swampy with standing water, and remaining areas are drift covered. Well-mineralized outcrop surrounded by lower swamp will result in the concentration of copper in swamp soils without underlying mineralization, and in invalid anomalies. All of the remaining area contains little or no soil suitable for a consistent survey.

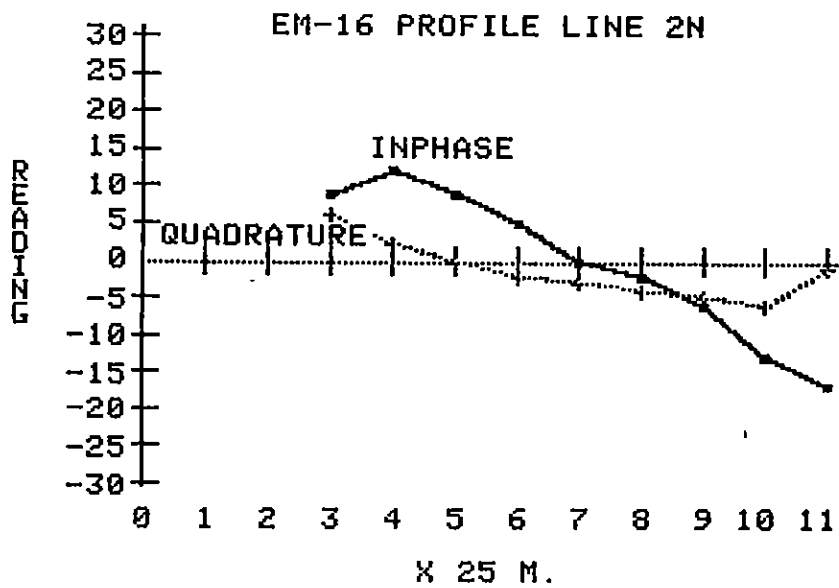
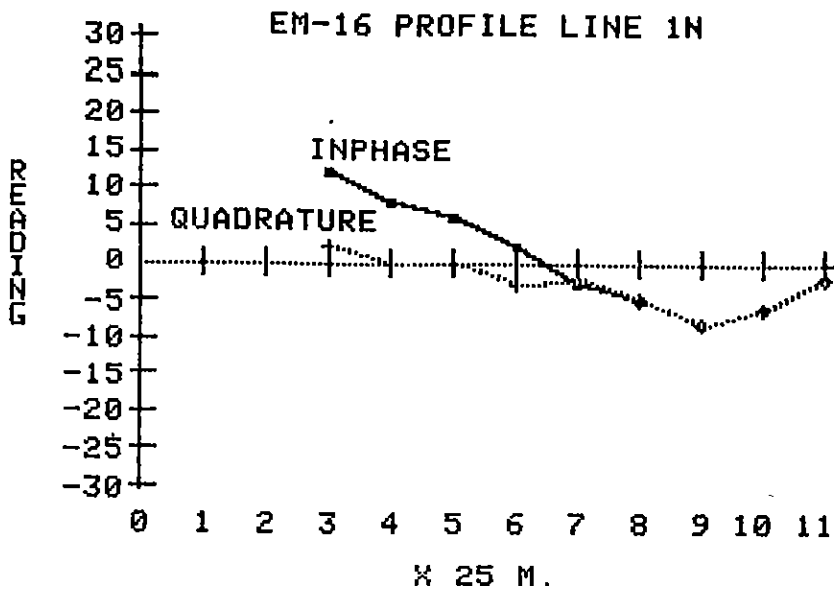
Rock geochemistry may be a technique that could be applied with some success without a large expenditure of funds. Use can be made of the rocky nature of the ground, and the swampy areas have sufficient rock that sample collection can be consistent. Care must be taken in evaluating results to allow for movement of rock on talus slopes and in glacial drift.

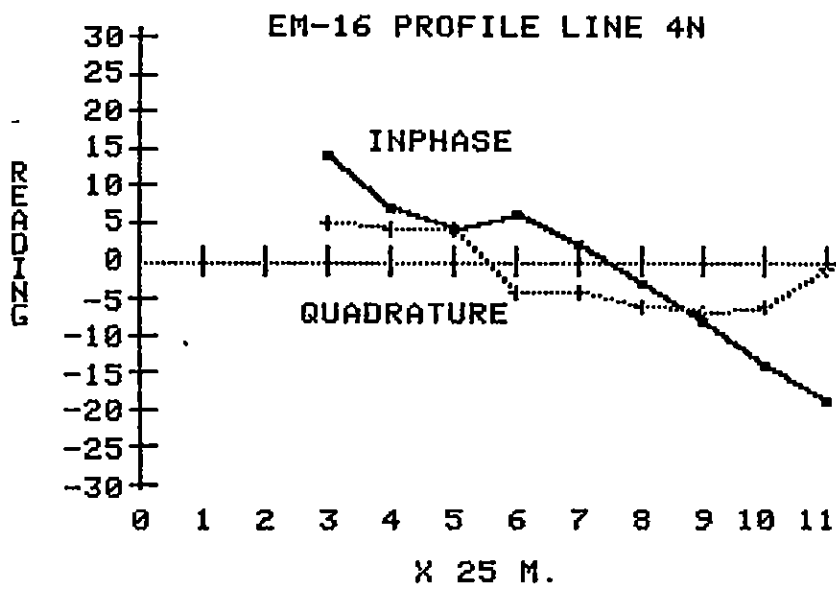
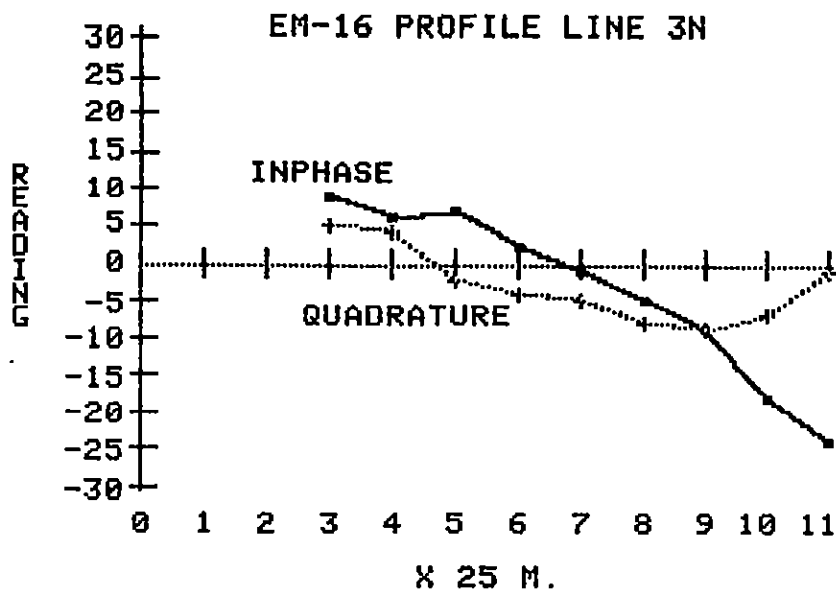
Downdip extension of the mineralization should be established early in any program by diamond drilling. As funds allow, up to three angle holes should be drilled to intersect the mineralization at 50 to 100 meters of depth, assuming a nearly vertical dip. The synform suggests that dips are generally to the east, but the interference caused by rippling of the west limb reduces the accuracy of such a prediction, so that drilling from either side has an equal chance of success. A pond of water suitable for drilling supply exists west of the showings on lower ground; a deeper intersection can be obtained with less drilling if the holes are drilled at a shallow angle of between -30 and -45 degrees from 50 to 75 meters west of the mineralization. B-size hole drilled by a truck-mounted Longyear 38 or equivalent would give a high degree of mobility, rapid drilling and sufficient core for assay.

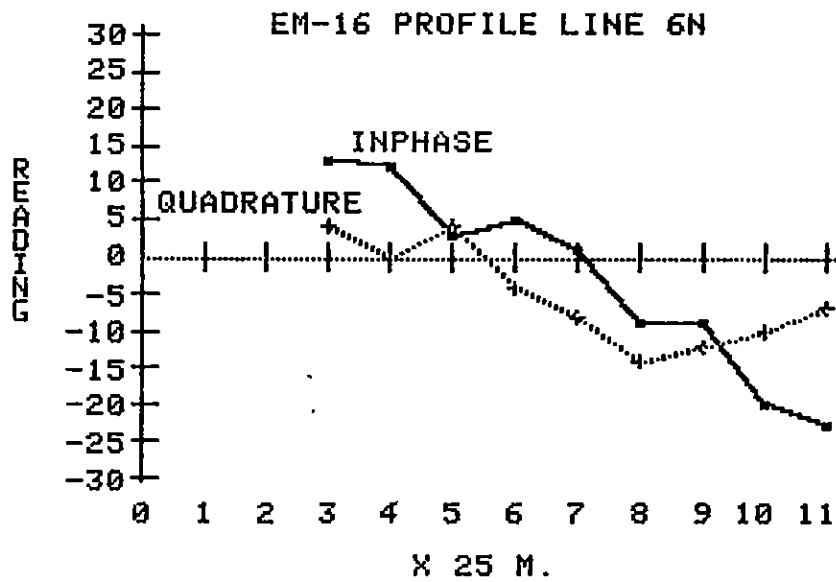
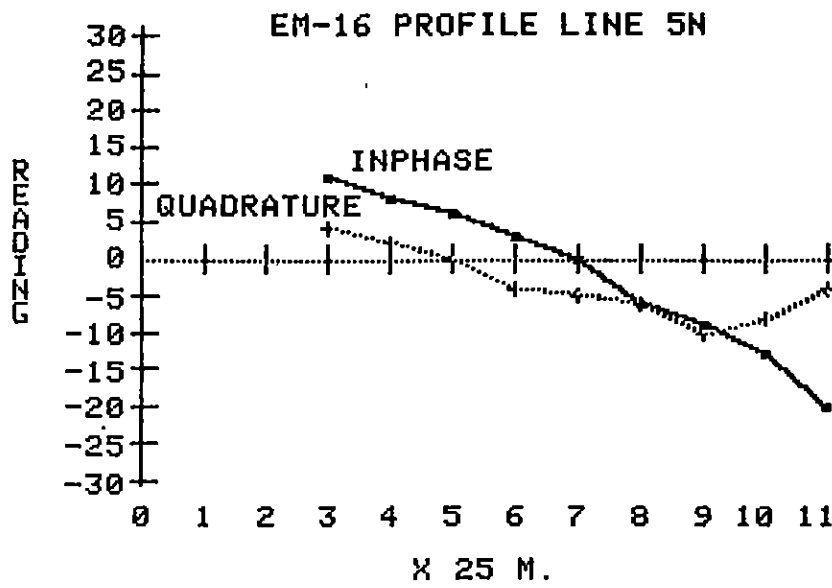
Trenching to date has been conducted with small bulldozers which were in many cases not able to reach solid bedrock, and have therefore not succeeded in encountering the edges of the mineralized zone. Further systematic bulldozer trenching aided by blasting should be employed to crosscut the mineralized zone in at least three places so that an accurate understanding of the limits to mineralization can be gained. This can be continued down the north and south sides of the knoll in talus to establish further lateral extent to the mineralization.

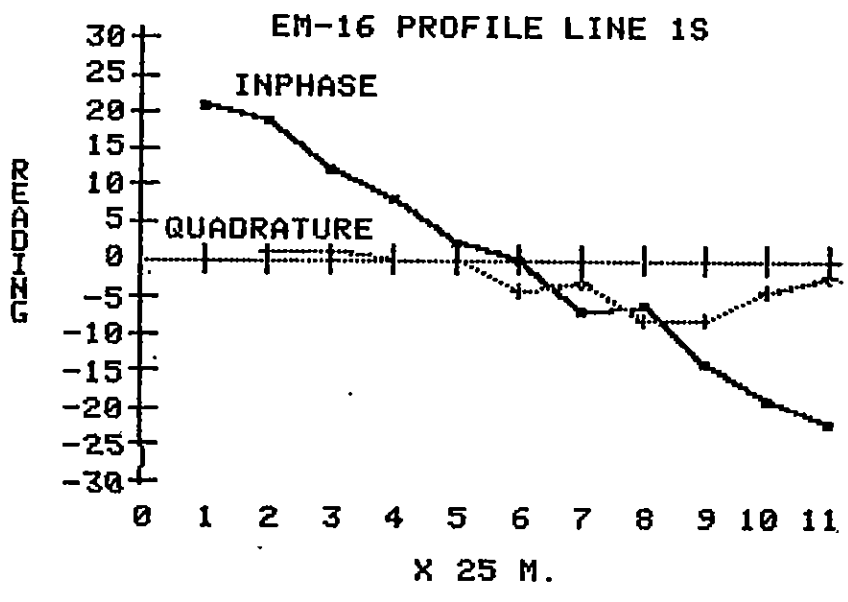
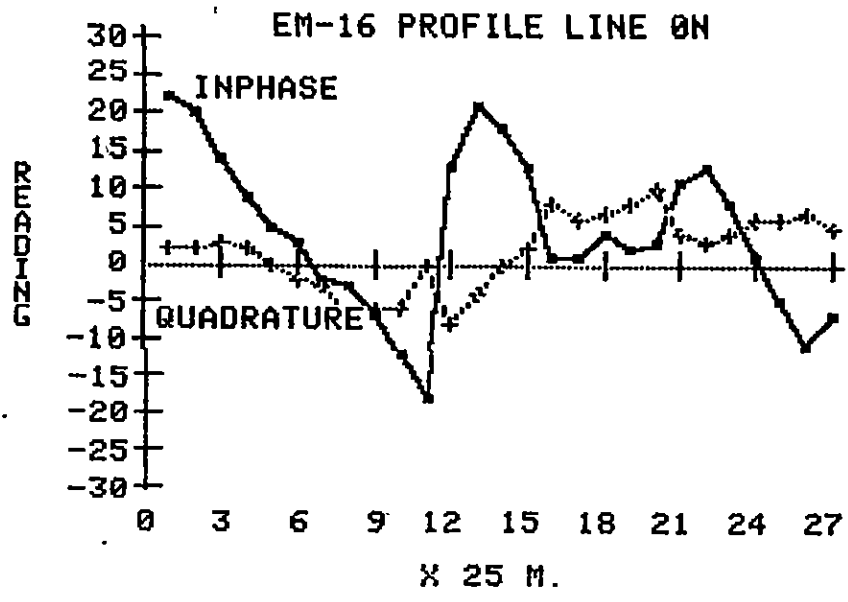
In addition, extension of the 25 meter grid will be required in order that the rock geochemistry, if successful over the present gridded area, can be expanded. The initial survey should at least encompass the present gridded area so that all terrain types are suitably tested.

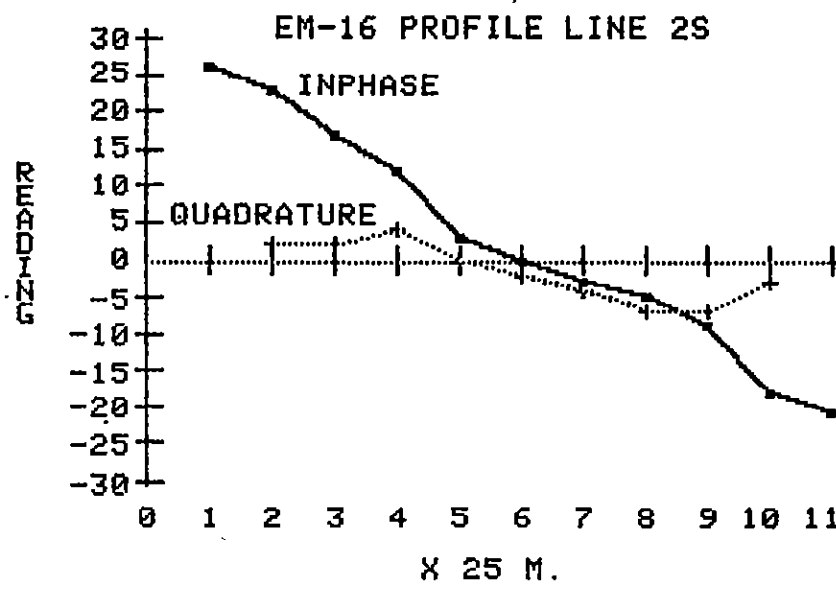




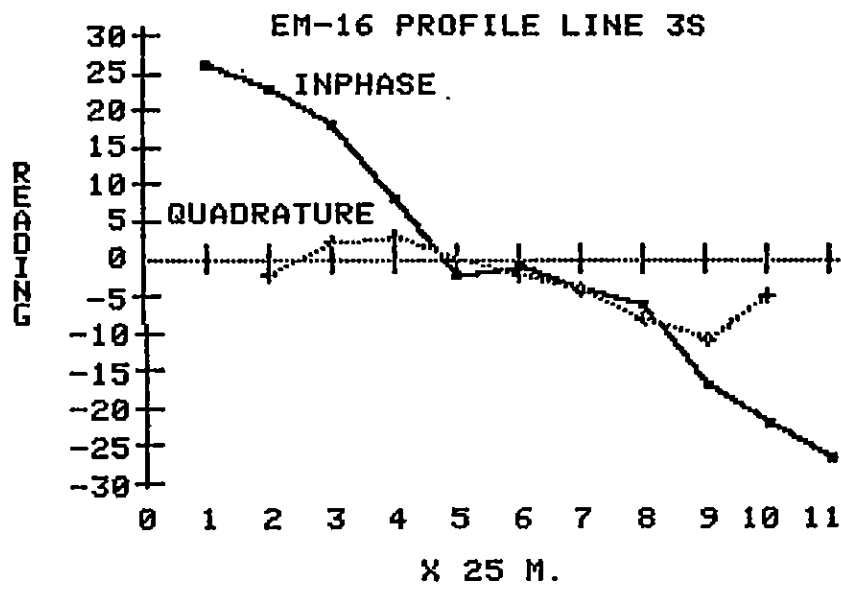








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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221
TELEX. 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO: MR. L. J. WERNER
11937 - 230 STREET
MAPLE RIDGE, B. C.
V2X 6R3

CERT. # : A811094-001A

INVOICE #: I8111094

DATE : 30-SEP-81

P. O. #
D-80-65-B

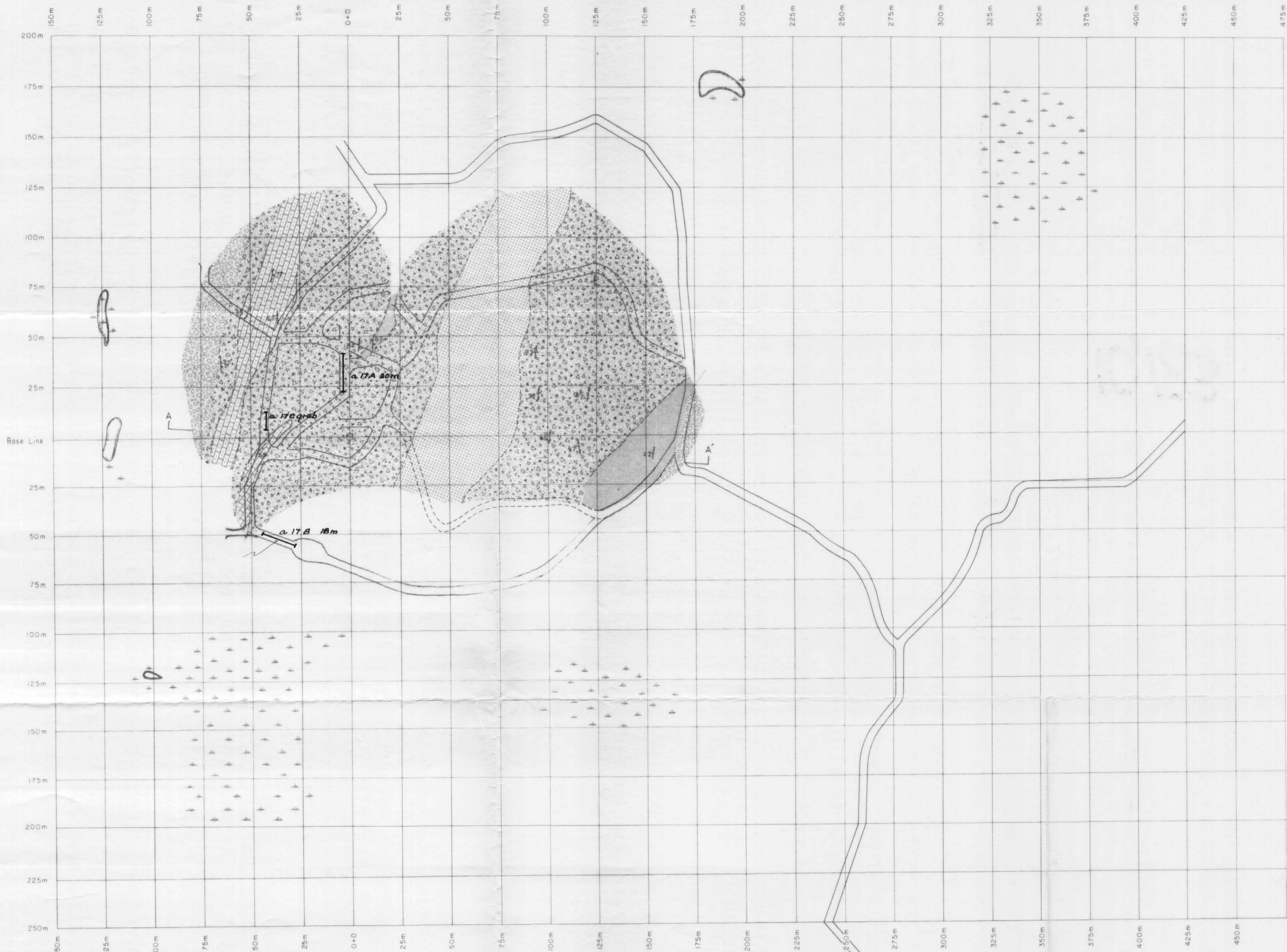
'CORRECTED COPY'

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a17B-LW-81	207	1.80	0.58	0.094
a17C-LW-81	207	2.08	0.01	<0.003




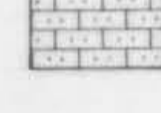
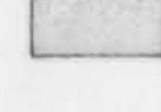


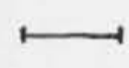
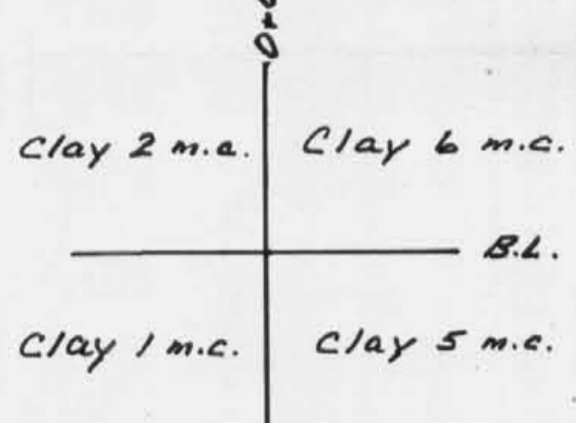
.....
Registered Assayer, Province of British Columbia



MEMBER
CANADIAN TESTING
ASSOCIATION



LEGEND

-  OVERBURDEN: Glacial till, alluvium
 -  ANDESITE: Green, massive augite porphyry
 -  ANDESITE: Green, tuffaceous
 -  LIMESTONE
 -  PHYLLITE
 -  Bedding attitude
 -  Foliation attitude
 -  Sample site and No.
- 

 Clay 2 m.e. Clay 6 m.e.

 ———— B.L. ————

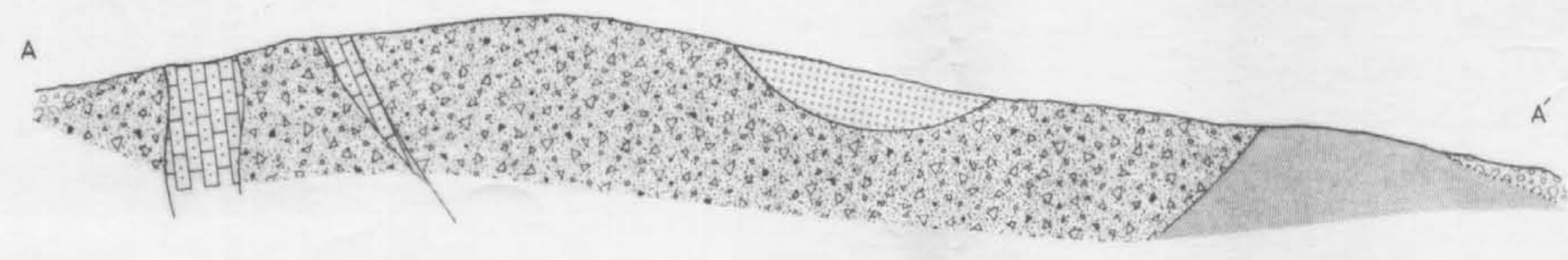
 Clay 1 m.e. Clay 5 m.e.

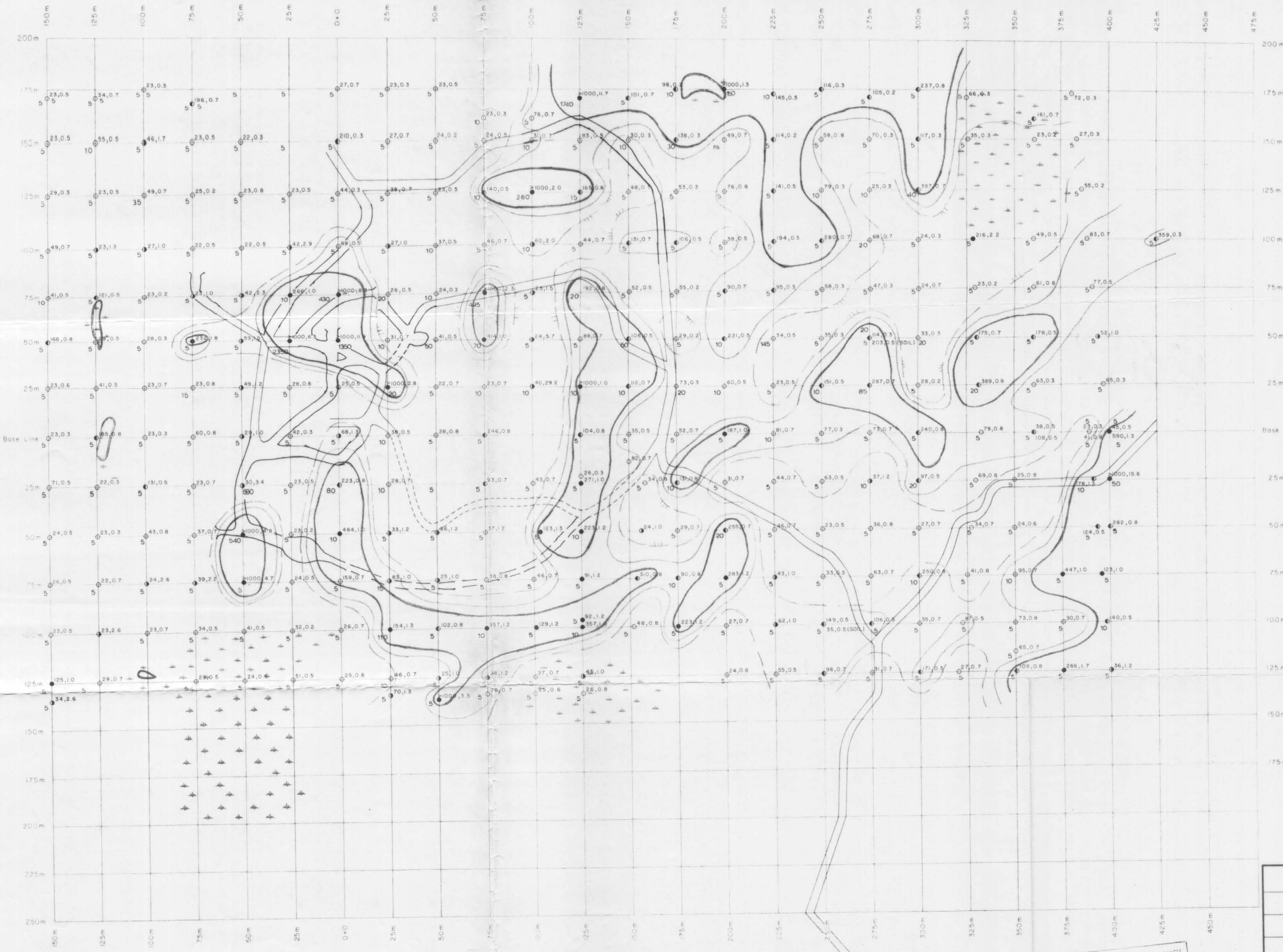
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ALCLAY RESOURCES INC.			
HAWKINS LAKE AREA			
CLAY CLAIMS			
PRELIMINARY GEOLOGY			
PLAN No.	DRAWN	DATE	FIGURE
REVISED Oct. 1981		N.T.S.	

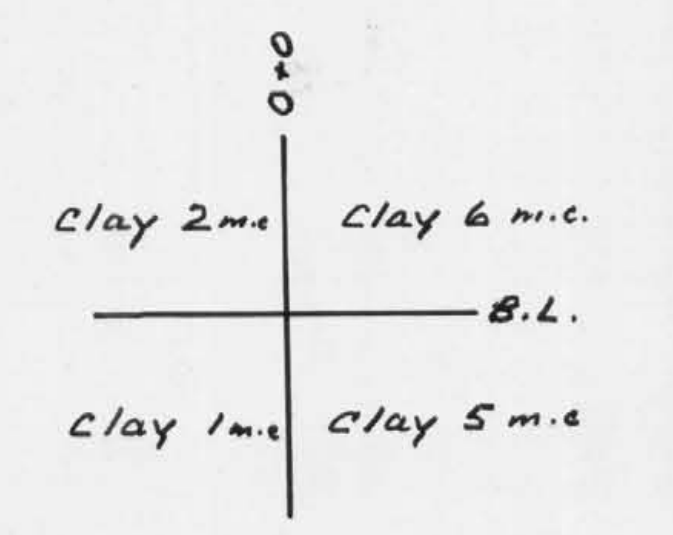
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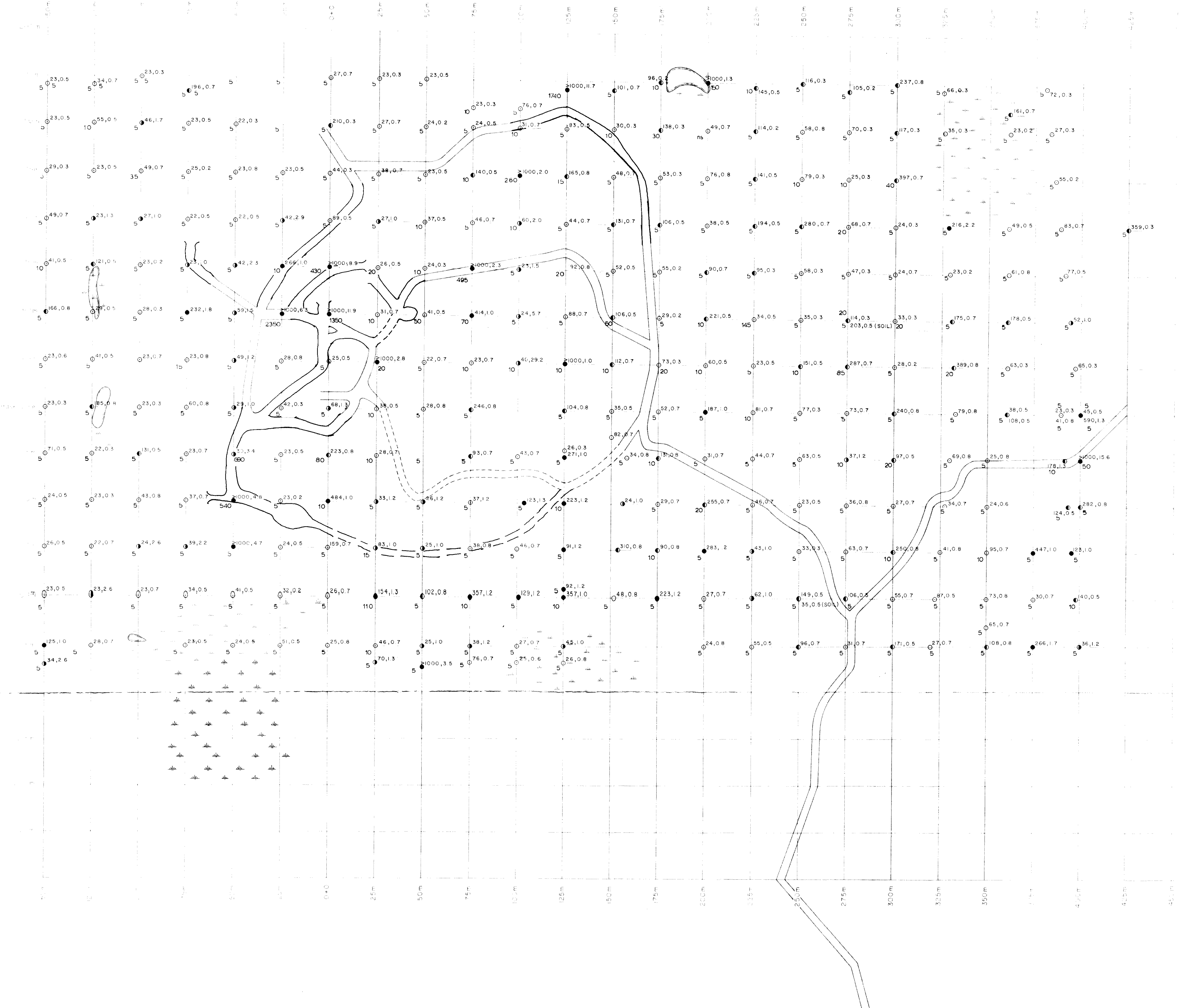
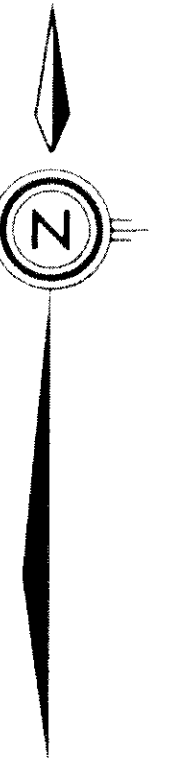
LEGEND

- 24.08 ppm Cu, ppm Ag
- 447 Anomalous Cu ≥ 90
- 1.0 Anomalous Ag ≥ 1.0
- 283.12 Anomalous Cu, Ag
- 22 ... ppb Au



ALCLAY RESOURCES INC.			
HAWKINS LAKE AREA			
CLAY CLAIMS			
GEOCHEMISTRY			
ppm Cu, ppm Ag, ppb Au			
PLAN No	DRAWN	DATE	FIGURE
		SEPT 1981	
REVISED		N.T.S.	

10,183



LEGEND

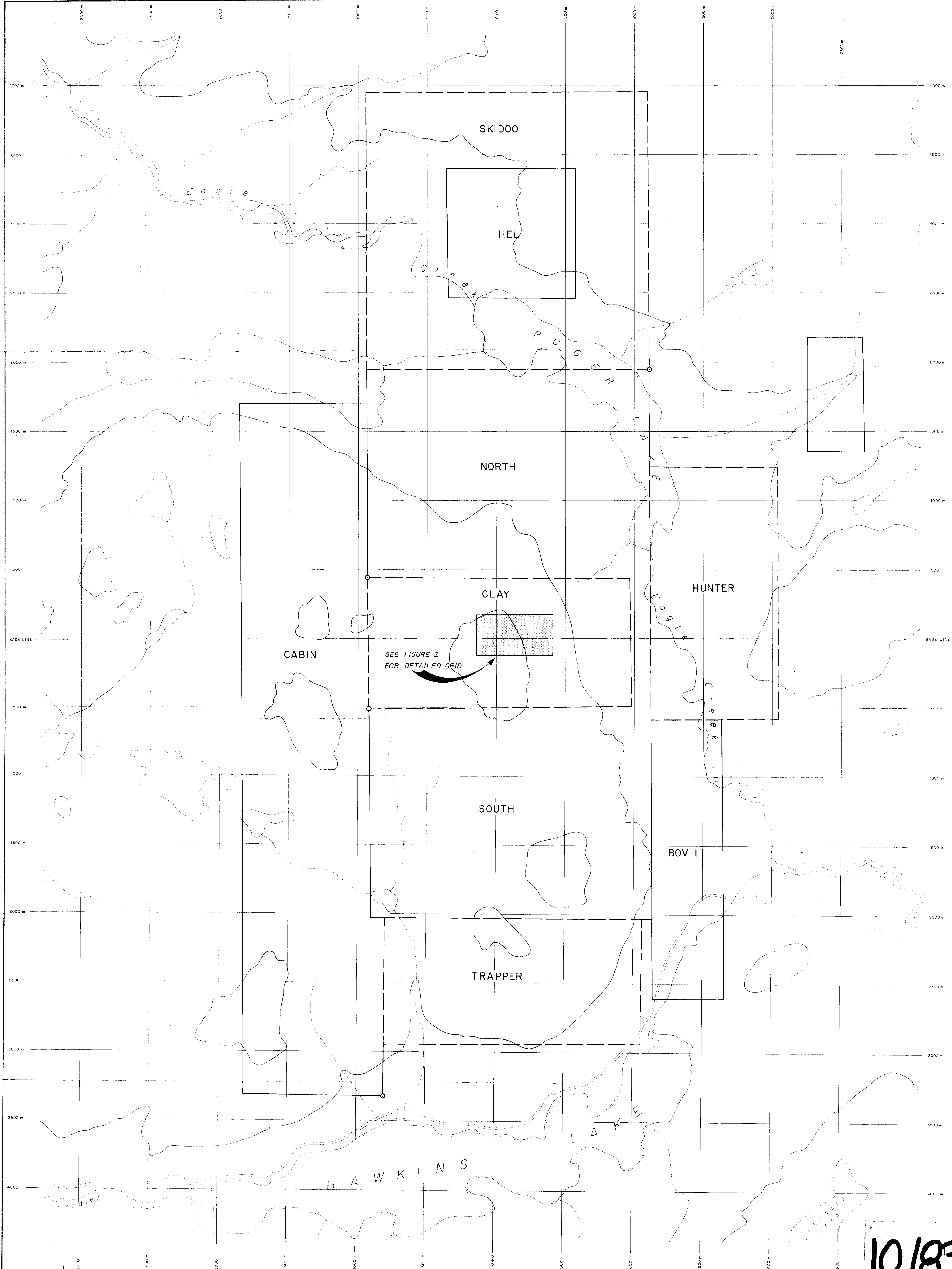
- 24,0.8 ppm Cu, ppm Ag
- 447 Anomalous Cu ≥ 90
- 1.0 Anomalous Ag ≥ 1.0
- 283,1.2 Anomalous Cu, Ag
- 22 ... ppb Au

10,183

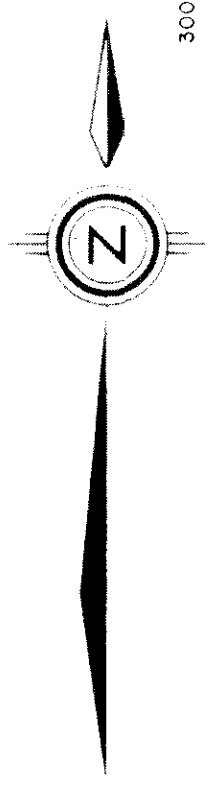
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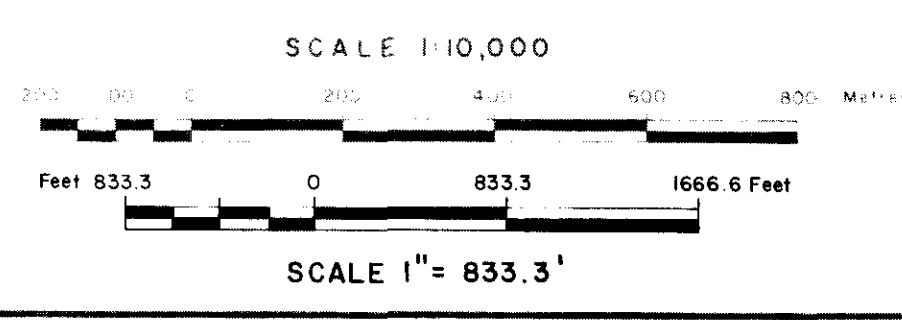
ALCLAY RESOURCES INC.			
HAWKINS LAKE AREA			
CLAY CLAIMS			
GEOCHEMISTRY			
ppm Cu, ppm Ag, ppb Au			
DATE	DRAWN	FIGURE	
SEPT. 1981	NTS	2	

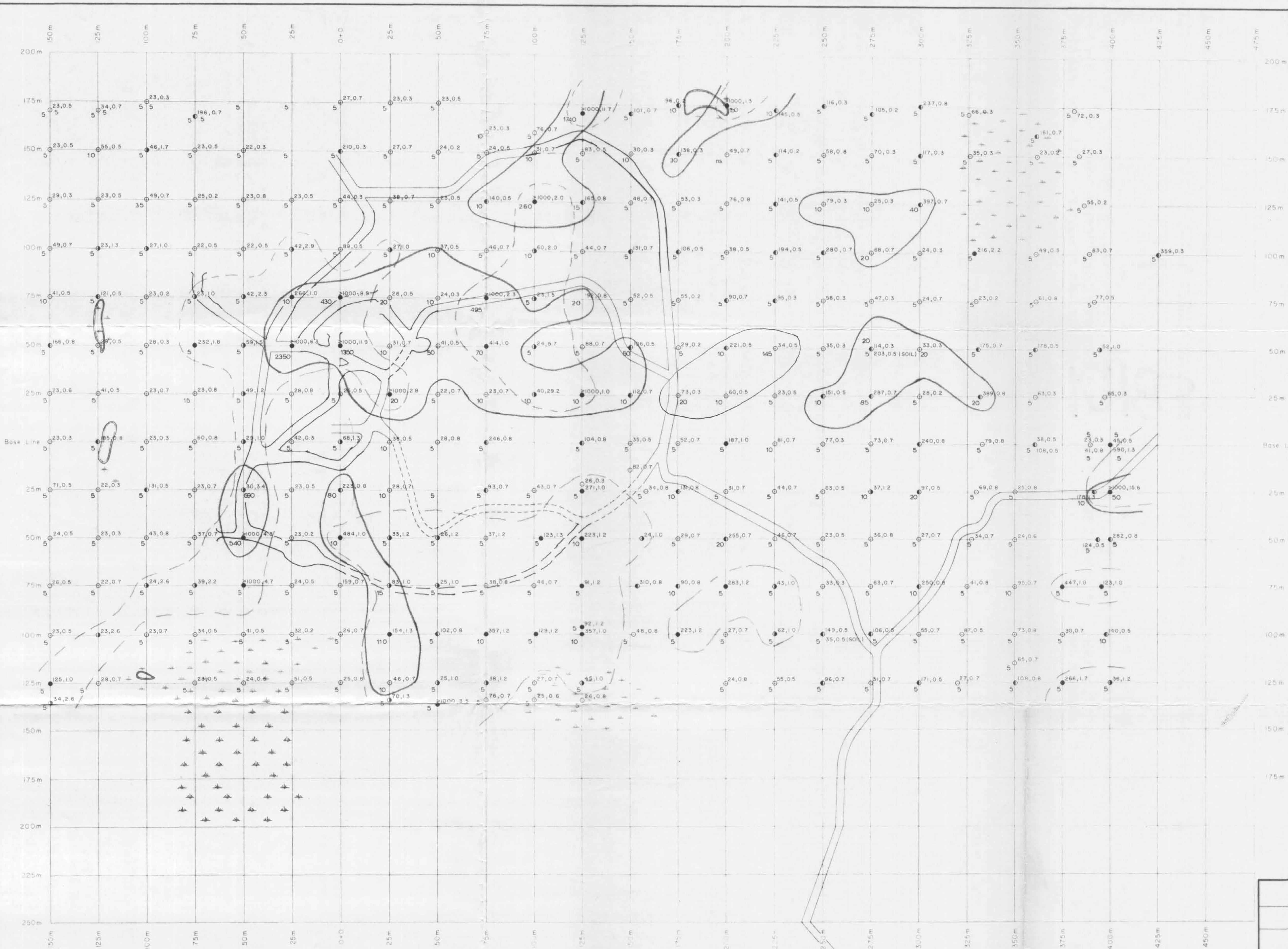


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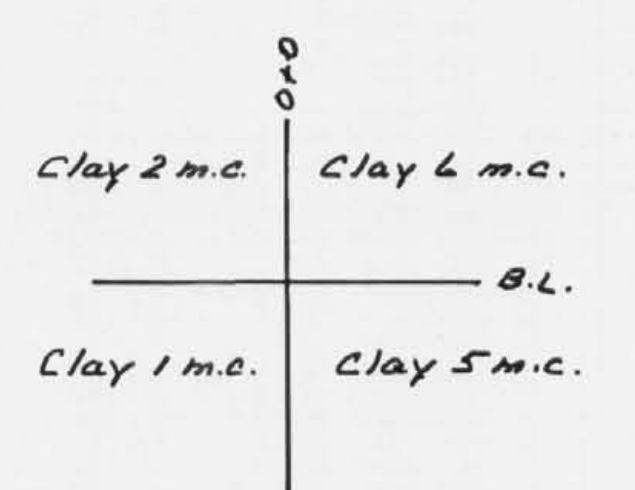
ALCLAY RESOURCES INC.	
HAWKINS LAKE AREA	
CLAY CLAIMS	



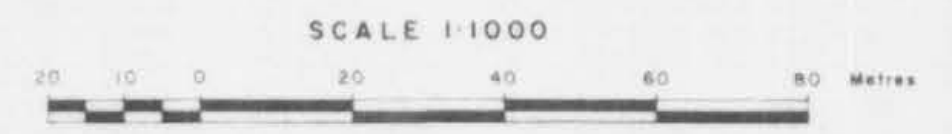


LEGEND

- 24.0.8 ppm Cu, ppm Ag
- 447 Anomalous Cu ≥ 90
- 10 Anomalous Ag ≥ 1.0
- 283.12 Anomalous Cu, Ag
- 22 ... ppb Au



- U GOLD CONTOURS +10 PPM
- - SILVER CONTOURS +10 PPM



ALCLAY RESOURCES INC.			
HAWKINS LAKE AREA			
CLAY CLAIMS			
GEOCHEMISTRY			
ppm Cu, ppm Ag, ppb Au			
PLAN No	DRAWN	DATE	FIGURE
		SEPT. 1981	
REVISED		NTS	

10,183