MINE LAKE MINERALS INC.

GEOLOGICAL AND GEOPHYSICAL REPORT

OF THE 1987 FIELD PROGRAM

by Thomas E. Gillett
Geologist

Marmora, Ontario.

December 28, 1987

MINE LAKE MINERALS INC.

GEOLOGICAL AND GEOPHYSICAL REPORT OF THE 1987 FIELD PROGRAM

MINE LAKE MINERALS INC., Suite 402, 15 Toronto Street, Toronto, Ontario M5C 2E3, holds through option agreements and staking on its own behalf a total of sixty-seven (67) claims north of Ouillette Lake in the Beckington Lake area, Patricial Mining Division, Ontario. This report is a compilation of data obtained during the 1987 Summer Field Exploration Program consisting of geological mapping, a surface geological survey, a geochemical survey, and a surface trenching program. A description and evaluation of the results of the geochemical survey has already been compiled and submitted as an accompanying report.

This report has attempted to make an evaluation of the geological and structural environment of the Claim Group. An attempt has been made to identify the known areas of mineralization and to associate these with the regional framework.

ACCESS AND LOCATION OF THE PROPERTY

The Claim Group can be described as situated in the Beckington Lake area which is regionally north of the North-east arm of Sturgeon Lake. Ouillette Lake, a long, narrow lake with a North-South orientation, encompasses part of the Southern boundary of the Claim Group. The Northern boundary lies to the North of Mine Lake. Access to the property is good. An all-weather forest road (No.700) runs East from Highway #599 approximately one mile South of the Village of Savant Lake, transversing the Northern part of the Claim Group.

The general topographic relief is one of low rolling hills with much of the lower ground covered with extensive swamps.

The whole area is well forested; the higher ground covered with spruce, jack pine and poplar, while the lower ground is covered with predominantly black spruce and cedar.

LINE CUTTING

There are two control grids on the property. In the Southern part of the property around Mine Lake, Mid-North Engineering laid out a North-South base line (Mine Lake Grid) starting at the North-east end of Ouillette Lake; pickets were placed at 25 meter intervals; offsetting lines were cut at 100 meter intervals with pickets placed at 25 meter intervals. Tie lines were cut on both the Eastern and Western property boundaries. All claim posts were identified and located relative to the grid.

In the Northern part of the property a grid was laid out with a Northwest-Southeast base line (Thomas Lake Grid) starting on the West side of Thomas Lake; pickets were placed at 100 foot intervals; offsetting lines were cut at 400 foot intervals.

THE CLAIMS

The Thomas Lake Claim Group was staked in the summer and fall of 1986. Previous work on this Claim Group consisted of some trenching on the East side of Thomas Lake in the 1930's and the reported drilling of two diamond drill holes by Ouillette Mines Limited in 1947. Several other companies since this date have undertaken reconnaissance ground and airborne geophysical surveys, the data of which are in the assessment files as public records.

No detailed mapping on surface sampling appears to have been undertaken in recent years.

The claims encompassing the Thomas Lake Claim Group and covered in this survey are as follows:

Pa 911403	Pa 911475
Pa 911404	Pa 911426
Pa 911405	Pa 911427
Pa 911406	Pa 911428
Pa 911407	Pa 911429
Pa 911408	Pa 911430
Pa 911409	Pa 911561
Pa 911410	Pa 911562
Pa 911413	Pa 911563
Pa 911414	Pa 911564
Pa 911415	Pa 911565
Pa 911416	Pa 911566
Pa 911419	Pa 911567
Pa 911420	Pa 911568
Pa 911421	Pa 911569
Pa 911422	Pa 911570
Pa 911423	Pa 911572
Pa 911424	Pa 911573
Pa 911425	Pa 911574

Therefore, the Thomas Lake Claim Group comprises a total of thirty-eight (38) claims.

The Mine Lake Claim Group was staked between 1983 and 1986. Previous work on the property consisted of extensive trenching and the sinking of several shafts in the 1930's. It is also reported that several drill holes were drilled in the 1940's, the location of which have not been identified. Selco is reported to have drilled three (3) drill holes in the early 1960's South and East of the old shaft. Again the exact location cannot be identified as they were drilling an airborne VLF conductor and no surface grid was cut. In 1984 Mid-North Engineering undertook a VLF magnetic and radiometric survey on the major portion of the Mine Lake Claim Group. A geological survey was also undertaken on the scale of 1 cm. to 250 meters.

During the summer of 1987, a humus geochemical survey was undertaken by Mine Lake Minerals on both the Thomas Lake and Mine Lake Claim Groups. A description and results of this survey have been presented under a separate report.

The claims comprising the Mine Lake Claim Group and covered in this survey are as follows:

Pa 611973	Pa 611988
Pa 611974	Pa 611989
Pa 611975	Pa 611990
Pa 611976	Pa 611993
Pa 611977	Pa 611994
Pa 611978	Pa 611995
Pa 611979	Pa 611996
Pa 611980	Pa 611997
Pa 611981	Pa 911401
Pa 611982	Pa 911402
Pa 611983	Pa 911411
Pa 611984	Pa 911412
Pa 611985	Pa 911417
Pa 611986	Pa 911418
Pa 611987	

The Mine Lake Group therefore comprises a group of twenty-nine (29) claims.

THE 1987 GEOLOGICAL FIELD PROGRAM

Both the Thomas Lake and the Mine Lake Claim Groups were mapped during this season's field program. Although the Mine Lake Claim Group had been mapped in 1984, it was decided to re-map the area in order to obtain more detail of structure and to obtain uniformity in nomenclature of rock types in the two claim groups. The Mine Lake system in metric units with a North-South base line and the Thomas Lake system in Imperial units. Daily field procedure was to map along the offset lines on standard graph paper. The individual field sheets were then transferred to a composite base map. Field personnel were instructed to be observant to possible faults, fractures, contacts, foliation, jointing, and attitude of bedding. Exposures in the areas mapped is moderate to poor. Swamps and glacial sands cover portions of the Claim Group, especially in the northwest, where exposures are very limited. In the Eastern and Western portions of both

the claim groups, the physiography of the land is relatively higher, and exposures are relatively good apart from being heavily moss-covered.

The geological mapping was undertaken by Paul Wetherbee, B.Sc, a graduate student at the University of Wisconsin, under the supervision of the writer of this report. Time spent in the field consisted of eight weeks between the 3rd of July and September 9, 1987.

LITHOLOGIES

The rocks present in the Claim Group consist essentially of bimodal volcanics and mafic intrusives. Intermediate volcanics are absent or rare.

MAFIC VOLCANICS

a) Massive, fine grained flow basalts represent the most widespread mafic volcanic. Typically, the flow basalts are weakly or non-foliated, show no features and outcrop with slopes of low relief.

b) Basalt porphyry is characterized by a black calcareous matrix and feldspar phenocrysts. This rock type outcrops extensively in the Southwest corner of the Thomas Lake area. Many of the phenocrysts have been replaced by a carbonate material (calcite ?)

c) Pillow basalts and mafic agglomerates make up a relatively minor portion of the mafic volcanics. Pillow basalts outcrop mainly around Mine Lake. Locally the pillow rinds are flattened, conforming with the local foliation. Younging directions are ambiguous. The mafic agglomerates may represent reworked mafic volcanics. This suggestion is even further strengthened in the observation of drill core obtained during December of 1987.

FELSIC VOLCANICS

The felsic volcanics typically outcrop as low mounds in the middle of swamps.

(a) Quartz-feldspar porphyry is the dominant felsic volcanic. Locally it contains coarse phenocrysts of quartz and feldspar plagioclase and K feldspar). The matrix consists of fine to medium grained quartz, feldspar, and biotite. The rock is generally well foliated.

(b) Rhyolite flows and tuffs form a minor percentage of the felsic volcanic sequence. The distinguishing characteristic in the field is the strong development of banding in the rhyolite. The rhyolite tuff is generally non-foliated. Both consist of fine grained quartz, feldspar and biotite.

(c) The Felsic agglomerate rarely outcrops. It consists of medium grained quartz, feldspar, occasionally crystalline biotite which infrequently forms anhedral "clots". These black "clots" may be recrystallized lapilli or devitrified glass, or may reflect some reworking process.

MAFIC INTRUSIVES

Intrusive rocks in the claim group consist of diorite, quartz diorite and gabbro. The bulk of the mafic intrusives are diorites. They are characterized by medium grained amphibole, feldspar and in some cases quartz (quartz diorites). Locally, the amphibole is well developed as radial clusters. Gabbro when exposed can be distinguished by coarse-grained amphibole and feldspar.

METAMORPHISM

All the rock types in the two claim groups have undergone at least greenschist and possibly amphibolite facies metamorphism. Although the

felsic volcanics indicate minor mineralogical changes due to the metamorphism, the mafic volcanics and intrusives are significantly recrystallized. Locally, the basalt shows euhedral biotite and quartz, and the diorite becomes a well foliated actinolite schist. In isolated outcrops the diorite contains garnet. In outcrops where the diorite is particularly fine grained, the distinction between diorite and basalt is arbitrary. It is possible that a significant portion of the rocks mapped as diorite is effectively coarsely recrystallized flow basalts. The field distinction is gradational, based on grain size, feldspar proportion, and the presence of quartz.

A distinctive rock is exposed at several outcrops on the Southeast side of Thomas Lake. It has been mapped as a rhyolite flow, but it may in fact be a metasediment. Mineralogically, the rock contains fine grained garnet, quartz, biotite, and feldspar, and is well foliated.

STRUCTURAL GEOLOGY

The dominant structural feature of the two claim groups is a foliation which strikes North 20°-40° West and dips to the Northeast, thereby being concordant with the stratigraphic framework. Characteristically, the foliation is best developed in the felsic volcanics by the sheet silicates. The mafic volcanics and intrusives are foliated locally. On a regional scale the foliation of the Northeast area of Sturgeon Lake wraps around and dips away from the Sturgeon Lake Batholith Complex to the West. The foliation attitudes in the claim group coincides with this trend.

Contacts in the map area are generally unexposed, and their approximate location is estimated on topographic features and the spatial distribution of the rock types. At certain localities, contacts between diorite-gabbro and massive basalts are exposed. These are interpreted as intrusive contacts,

and East of Thomas Lake flow basalt is completely exposed as a xenolith in the diorite.

Fault contacts are nowhere exposed in the claim group, being well covered by a glacial till. Faults where mapped are indicated by an abrupt change in the geological sequence, by increased foliation and by an abrupt topographic change. Due to the lack of exposures it is a distinct possibility that only a very few of the possibly many major faults have been identified in the field.

MINERALIZATION

Mineralization occurs as quartz/sulfide veins and as disseminated sulfides primarily in the felsic units and along the felsic/mafic volcanic contacts. Quartz veins occur on a scale from centimeters to over 10 meters in width and may or may not contain sulfides. Fine grained, euhedral pyrite is ubiquitous in most of the mafic volcanics and could be a metamorphic phase unrelated to vein forming mechanisms.

Three (3) veins 1-10 meters wide and 80-100 meters long have been stripped of overburden. Characteristically, the veins occur along mafic felsic volcanic contacts. Presumably they can be interpreted as zones of weakness with relatively high permeability. At a stripped area East of Thomas Lake, the mineralization situated along a mafic-felsic contact, occurs as a carbonate (calcite-siderite-ankerite)/tourmaline breccia. Pyrite occurs sporadically in the country rock but is generally absent in the carbonate itself. Stripped Area B, also on the Southeast side of Thomas Lake exposes some interesting mineralization in the form of a deformed quartz vein containing pyrite and minor chalcopyrite and pyrrhotite. There appears to be two or three generations of quartz

associated with the mineralization; milky, grey, and black quartz (possibly chert ?). The vein is deformed into a tight synformal structure, with isoclinal sympathetic fold within the vein. Strip Area C at the Southeast end of Mine Lake and South of the Old Shaft exposes a large sulfide zone along the contact of massif mafic volcanics and a quartz feldspar porphyry. There is some development of quartz veining. Pyrite, locally, massive, is present along the vein contacts.

SECONDARY ALTERATION

Secondary alteration unrelated to metamorphism of the volcanic and mafic intrusives in the claim group consists of silicification and carbonatization. Silica flooding is most prevalent in the felsic volcanics, giving weathered exposures a blended appearance. Carbonatization is most prevalent in the basalt flows and mafic porphyries. Calcareous veinlets and anhedral phenocrysts are prevalent in these units.

GEOPHYSICAL SURVEY

VLF-EM measurements were made using a Geonics EM 16, at 50 foot station intervals along the grid line where readings were taken of two transmitting stations, NSS Annapolis, Maryland (21.4 KH2) and NAA Cutler, Maine (17.8 KH2). All readings were taken facing North. Measurements were made of both the in-phase and quadrature components of the vertical secondary field expressed as a percentage of the horizontal primary field. Maps representing profiles of the two field components using stations NSS and NAA are presented with this report. A profile scale of 20% per inch has been used.

INTERPRETATION

The VLF-EM results show a large number of conductors originating, for the most part, from the bedrock. As might be expected NSS has emphasized the Northwest to North trending features which is the direction of the strike of most of the structural fabric of the claim group. It was hoped that Station NAA would emphasize Northeast to East trending features.

On both maps accompanying this report all the more important conductors are shown. Three categories are recognized:

(a) Strong bedrock conductors - typically from anomalies of 50% peak to peak or greater; definitely of bedrock origin: representing clay-filled shear zones, graphitic shears or massive sulfide bands (probably in sheared lavas).

(b) Weak bedrock conductors - typically 20%-50% peak to peak anomalies; probably of bedrock origin; representing water-filled fractures or shears with minor alteration.

(c) Possible surficial conductors - typically with negative quadrature responses; correlating with shore-lines topography; possibly fault-related but not obviously associated with alteration or mineralization.

Most of the bedrock conductors so identified have been interpreted as faults or shears, though many of the Northwest-trending features could be bedding related. In the discussion of "Structural Geology"and"Mineralization" contained in this report, a brief description is given of the association of shearing and the development of pervasive foliation in the felsic units concordant with the stratigraphic framework. A very distinct and strong feature can be identified forming the Western contact of the major North-South trending band of felsic rocks and the mafic units in the Western portion of the Thomas Lake claim group. This feature could be

interpreted as a strike fault contact between these two major lithological units. The strong and uniform conductivity may represent an altered shear zone, with or without sulfide or graphite associations.

In terms of structure, two families of faults appear to be indicated:

(a) North-South family

This family has already been described and probably represents shearing along the predominantly North-South direction of foliation of the country rocks. No definite horizontal movement has been identified.

(b) North-West family

This is a fairly open set of faults, most clearly represented by station NSS. The faults are somewhat arcuate. Clay filling is suggested by the relative strong amplitudes in the Southern part of the grid.

DISCUSSION OF RESULTS OF VLF SURVEY AND GEOLOGICAL MAPPING

The geophysical VLF-EM 16 Survey generally conforms with the geological interpretation of the recent field mapping of the claim group.
A great many EM conductors have been indicated forming a complex but fairly coherent pattern. These have been categorized as bedrock or superficial.
Of the bedrock group, two families have been recognized, falling into two probable ages of tectonic activity. All two families are believed to have associated alteration, though the North-South family is probably the most highly altered and is most likely to contain massive sulfides and/or graphite.
Geological field association suggest the development of prominent quartz veining and anomalous gold mineralization along the contacts of the felsic/mafic units.

Field associations indicate that this mineralization is late and post-dates much of the major tectonic activity. Therefore, it is necessary to further evaluate some of the major North-South conductors, especially those

with an association to known anomalous gold mineralization. A strong conductor can be identified with a North-South orientation at Grid 5600'S +2100'W in close proximity to the old Contact and Stewart Shaft on the West portion of the Mine Lake Claim Group. Another conductor can be identified to be associated with a prominent humus geochemical anomaly (submitted as assessment work, 12/17/87) at Grid 1600'S + 400'E.

CONCLUSIONS AND RECOMMENDATIONS

The rocks of the Thomas Lake and Mine Lake Claim Groups are part of a dominantly bimodal, interlensing volcanic and mafic intrusive assemblage. These rocks are typical of Archean greenstone belts. The complex history of the rocks may be generalized by the deposition of the volcanic cycles, which were then tilted to the Northeast by granitoid emplacement, producing a regional foliation in the volcanics. Movement was accomodated along lithological contacts where fluids migrated, resulting in the deposition of the quartz vein structures. Mineralization is associated with these fluids, with the more significant mineralization appearing to be restricted to zones of sufficient permeability to allow migration, i.e., contacts and faults.

The nature of the mineralizing process is unclear. The quartz veins show evidence of brittle as well as ductile deformation, and hence would appear to have formed in the transition between those two deformational regimes. Another plausible possibility is that the vein deposition and mineralization occurred over an extended period of time with changing pressure-temperature conditions, and within a system of repeated hydro-fracturing, fluid movement, deformation and sulfide deposition. This scenario would explain the complexly deformed vein material and different

types of quartz in the veins. Such an environment is very favorable for the deposition of significant gold mineralization.

It is recommended that VLF-EM 16 conductors along the contacts of the mafic and felsic units in the claim group be further investigated especially those with an association to known anomalous gold mineralization such as the conductor in close proximity to the Stewart and Contact Shafts. Conductors showing an identifiable relationship to prominent geochemical anomalies should also be further investigated.

Thomas E. Gillett

Thomas E. Gillett, B.Sc (Honors)
Geologist

Marmora, Ontario
December 28, 1987

APPENDIX " A "

PERSONNEL EMPLOYED

LINE CUTTING AND VLF SURVEY

Allan McClements	Marten River, Ontario	March 23-April 25

GEOLOGICAL MAPPING

T. E. Gillett, Geologist	R. R.#3, Marmora, Ontario	July 5-August 7
Paul Wetherbee, Geologist	Department of Geology, University of Wisconsin	July 5-September 6

STRIPPING AND TRENCHING

Lawrence Boucher	Savant Lake, Ontario	July 30-August 21
Harry Maggotte	" " "	" " - " "
Tony Skunk	" " , "	" " - " "
Les Dinsmore	" " , "	" " - " "
Glen Mair	" " , "	" " - " "

MINE LAKE MINERALS INC.

REPORT ON GEOCHEMICAL EXPLORATION PROGRAM

by Thomas E. Gillett
Geologist

Marmora, Ontario.

November 30, 1987

MINE LAKE MINERALS INC.

REPORT ON GEOCHEMICAL EXPLORATION PROGRAM

INTRODUCTION

MINE LAKE MINERALS INC. and its associated company, ARCON MINERALS, control a contiguous block of sixty-eight (68) unpatented Mining Claims in the Beckington Lake Area, Southeast of Savant Lake, Northwestern Ontario. Previous work in the 1930's and 1940's indicated the presence of anomalous gold mineralization in carbonatized, pyritized and quartz veined Archean pyroclastics, mafic lavas and quartz porphyries. In order to evaluate the property in the light of modern gold exploration techniques, a two-phase program was recommended by Don Bourne, P.Eng. Phase I of the program was designed to assemble basic geological, geophysical and geochemical data about the property. It consisted of line cutting a control grid, ground geophysical surveys (EM-VLF and Magnetometer), geological mapping, prospecting and a humus sampling program.

ACCESS AND LOCATION OF THE PROPERTY

The Claim Group can be described as situated in the Beckington Lake Area which is regionally North of the Northeast Arm of Sturgeon Lake. Ouillette Lake, a long narrow lake with a North-South orientation, encompasses part of the Southern boundary of the Claim Group. The Northern boundary lies to the North of Mine Lake. Access to the property is good. An all-weather forest road (No. 700) runs East from Highway No. 599 approximately one (1) mile South of the Village of Savant Lake, transversing the Northern part of the Claim Group.

The general topographic relief is one of low rolling hills. Much of the lower ground is covered with extensive swamps. The whole area is well forested; the higher ground is covered with spruce, jack pine and poplar, while the lower ground is covered with predominantly black spruce and cedar.

LINE CUTTING

There are two control grids on the property. In the Southern part of the property around Mine Lake, Mid-North Engineering laid out a North-South base line (Mine Lake Grid) starting at the Northeast end of Ouillette Lake; pickets were placed at 25 meter intervals; offsetting lines were cut at 100 meter intervals with pickets placed at 25 meter intervals. Tie lines were cut on both the Eastern and Western property boundaries. All boundary claim posts were indentified and located relative to the grid.

In the Northern part of the property (Thomas Lake Grid) a grid was laid out with Northwest-Southeast base line starting on the West side of Thomas Lake; pickets were placed at 100 foot intervals; offsetting lines were cut at 400 foot intervals.

GEOCHEMICAL SURVEY

The geochemical survey work was supervised by the writer with the aid of field personnel.

(a) Sampling Method

Samples of the A (humus) horizon of surface soils were taken with the aid of a shovel. A small (100 gram) sample of humus was placed in sample envelopes supplied by Swastika Laboratories of Swastika, Ontario. Care was taken to prevent contamination of subsurface soils.

(b) Assay Methods

The humus samples were submitted to Swastika Laboratories of Swastika, Ontario for preparation and analysis. After the samples were ashed and briquetted, the neutron activation technique, with the aid of the McMaster University reactor, was used for the analysis of gold. It is claimed that this technique has an accuracy of ±2 ppb. The results were plotted and contour maps are presented with this report.

DISCUSSION OF GEOCHEMICAL DISTRIBUTION OF GOLD

The geochemical distribution as indicated on the contour map appears to show a well-defined grain or orientation of anomalous gold values. In general there is a Northwest-Southeast orientation of nearly all the larger or more significant anomalous zones. This appears to correlate to the well developed foliation the Archean volcanic sequence being parallel and co-incident with the old bedding planes. The magnetometer survey on the Mine Lake Grid also indicated a Northwest-Southeast "magnetic grain".

There appears to be a correlation to an anomalous conductor, as outlined in the VLF (EM-16) Survey and the significant high geochemical values to the South and East of the old shaft. (Mine Lake Grid 00+360 m E - 300S+360E).

On the Thomas Lake Grid the more significant anomalous values 2400S + 1000 W and 1600S + 400E do not appear to show an obvious correlation to any significant geophysical feature. Geologically, there appears to be a suggestion of an association to the contact between mafic and felsic volcanics.

RECOMMENDATIONS

As a result of this geochemical survey and the suggestion of a correlation of anomalous gold values to both the magnetic grain and the

foliation of the geological sequence, the following recommendations are made:

(a) Further detailed samping at 25 foot intervals should be undertaken in all areas indicating higher that 10 ppb Gold.

(b) Anomalous areas at Grid (Thomas Lake) 2400S + 1000W, 1600S + 400E and Grid (Mine Lake) 300'S + 360E should be opened up by trenching or shallow diamond drilling.

Thomas E. Gillett

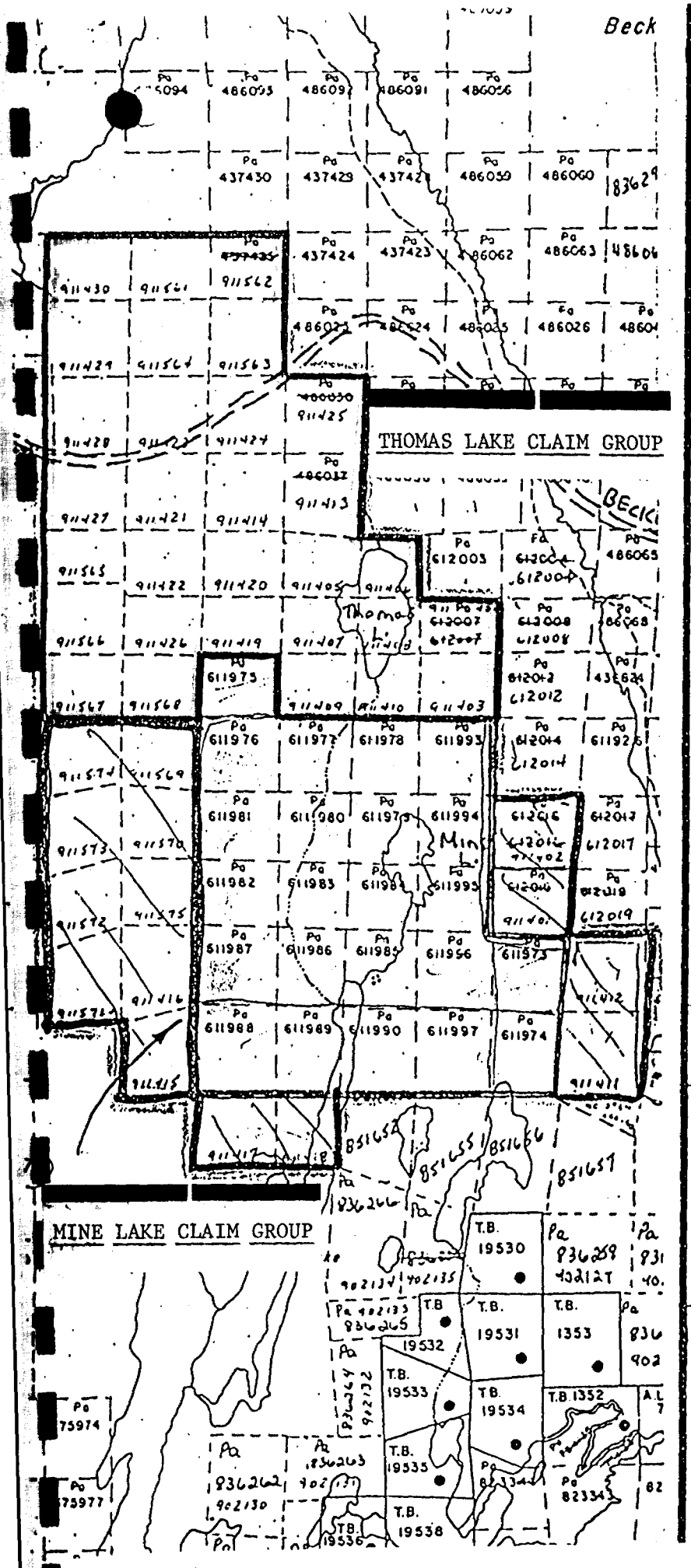
Thomas E. Gillett B.Sc (Honors)
Geologist

Marmora, Ontario.
November 30, 1987

APPENDIX "A"

PERSONNEL EMPLOYED

Thomas E. Gillett, Geologist R.R. #3, Marmora, Ontario K0K 2M0	July 5 - August 16, 1987
McClements Geophysical Marten River, Ontario Line Cutting	March, 1987
James H. Skelton Soil Sampling	July 5 - August 1, 1987



ORDER-IN-COUNCIL .....

RESERVATION .....

CANCELLED .....

SAND & GRAVEL .....

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MA
1913, VESTED IN ORIGINAL PATENTEE BY THE PUB
LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSE

R E F E R E N C E S

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY

S.R.O. – SURFACE RIGHTS ONLY

M.+ S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
P_1	RESERVED FOR PUBLIC USE			S.R.O.	
P_2	SEC. 43/70		18/10/71	S.R.O.	14378
P_3	SEC. 43/70	W36/74	27/6/74	S.R.O.	14378
P_4	SEC. 43/70	W28/76	8/6/74	S.R.O.	18855

Aug 8/85

AULLIBS REV. Aug 29/85

Nov. /85

SAND AND GRAVEL

April 19/8

Q_1	M.T.C. GRAVEL PIT	Nº 636	
Q_2	" " "	Nº 637	
Q_3	GRAVEL FILE	185333	
Q_4	" "	143788	
Q_5	M.T.C. GRAVEL PIT	Nº 635	
Q_6	" " "	Nº 1646	July 2
Q_7	" " "	Nº 1430, FILE 143788	
Q_8	GRAVEL FILE 160704		
Q_9	M.T.C. GRAVEL PIT Nº IC-14	FILE 143788	
Q_{10}	QUARRY PERMIT		

One mile wide C.N.R. reserve - Surface Rights withdrawn under Sec. 43 of the Mining Act (R.S.O. 1970) FILE 1684

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 2000 (1 KM) (2 KM)

AREA

BECKINGTON LAKE

M.N.R. ADMINISTRATIVE DISTRICT

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
ANAYLTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68099 - A Date: Sept. 18, 1987

Received Aug. 14, 1987 19 ~~Samples~~ of Humus Samples

Submitted by Mine Lake Resources, c/o T. Gillett, Toronto, Ontario.

SAMPLE NO.	GOLD PPB
N2401E	<1
N2402E	<1
N2403E	1
N2404E	1
N2405E	<1
N2406E	<1
N2407E	<1
N2408E	<1
N2409E	<1
N2410E	1
N2411E	<1
N2412E	<1
N2413E	<1
N2414E	<1
N2415E	1
N2416E	<1
N2417E	1
N2418E	<1
N2419E	1

Legend:
Sample Prefixed with M = Mine Lake Grid.
all other samples Thomas Lake Grid.

Per G. Lebel

G. Lebel - Manager

ESTABLISHED 1928

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244 FAX: (705) 642-3300
ANAYLTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68099 Date: Sept. 15, 1987

Received Aug. 14, 1987 727 ~~Samples~~ of Humus Samples

Submitted by Mine Lake Resources, c/o Tom Gillett, Toronto, Ontario.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
S5625W	<1	S5600B/L	1	S5224W	1
S5624W	<1	S5601E	1	S5223W	1
S5623W	1	S5602E	<1	S5222W	1
S5622W	1	S5603E	<1	S5221W	1
S5621W	1	S5604E	<1	S5220W	1
S5620W	2	S5605E	<1	S5219W	1
S5619W	2	S5606E	1	S5218W	2
S5618W	<1	S5607E	2	S5217W	1
S5617W	3	S5608E	<1	S5216W	1
S5616W	2	S5609E	<1	S5215W	<1
S5615W	2	S5610E	2	S5214W	2
S5614W	<1	S5611E	<1	S5213W	2
S5613W	2	S5612E	<1	S5212W	2
S5612W	1	S5613E	<1	S5211W	<1
S5611W	<1	S5614E	3	S5210W	<1
S5610W	2	S5615E	1	S5209W	1
S5609W	3	S5616E	1	S5208W	2
S5608W	2	S5617E	1	S5207W	2
S5607W	1	S5618E	<1	S5206W	1
S5606W	1	S5619E	<1	S5205W	<1
S5605W	1	S5620E	<1	S5204W	1
S5604W	<1	S5226W	1	S5203W	2
S5603W	1	S5225W	1	S5202W	<1
S5602W	1				
S5601W	1	Con't.....			

Per G. Lebel - Manager

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68099

SAMPLE NO.	GOLD PPB
S5201W	<1
S5200B/L	<1
S5201E	2
S5202E	2
S5203E	1
S5204E	9
S5205E	3
S5206E	1
S5207E	2
S5208E	2
S5209E	1
S5210E	1
S5211E	5
S5212E	4
S5213E	1
S5214E	2
S5215E	4
S5216E	1
S5217E	<1
S5218E	1
S5219E	1
S5220E	3
S4825W	2
S4824W	2
S4823W	1
S4822W	1
S4821W	2
S4820W	1
S4819W	1

SAMPLE NO.	GOLD PPB
S4818W	1
S4817W	1
S4816W	3
S4815W	2
S4814W	1
S4813W	1
S4812W	1
S4811W	1
S4810W	1
S4809W	<1
S4808W	<1
S4807W	1
S4806W	1
S4805W	<1
S4804W	<1
S4803W	<1
S4802W	<1
S4801W	<1
S4800B/L	<1
S4801E	<1
S4802E	<1
S4803E	<1
S4804E	<1
S4805E	<1
S4806E	<1
S4807E	<1
S4808E	1
S4809E	<1
S4810E	<1

Con't.....

SAMPLE NO.	GOLD PPB
S4811E	2
S4812E	<1
S4813E	<1
S4814E	<1
S4815E	<1
S4816E	<1
S4817E	1
S4818E	1
S4819E	<1
S4820E	<1
S4425W	<1
S4424W	<1
S4423W	<1
S4422W	<1
S4421W	<1
S4420W	<1
S4419W	1
S4418W	1
S4417W	<1
S4416W	1
S4415W	2
S4414W	1
S4413W	2
S4412W	1
S4411W	1
S4410W	1
S4409W	2

Per G. Lebel

G. Lebel - Manager

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68099 Page -3-

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
S4408W	<1	S4017W	1	S4019E	<1
S4407W	1	S4016W	1	S4020E	<1
S4406W	1	S4015W	<1	S4021E	2
S4405W	<1	S4014W	1	S4022E	2
S4404W	1	S4013W	1	S4023E	<1
S4403W	1	S4012W	<1	S4024E	<1
S4402W	1	S4011W	1	S4025E	1
S4401W	2	S4010W	4	S4026E	2
S4400B/L	2	S4009W	4	S3625W	1
S4415E	1	S4008W	6	S3624W	2
S4416E	1	S4007W	7	S3623W	3
S4417E	<1	S4006W	1	S3622W	1
S4418E	<1	S4005W	1	S3621W	2
s4419E	1	S4004W	2	S3620W	2
S4420E	<1	S4003W	2	S3619W	1
S4421E	2	S4002W	1	S3618W	2
S4422E	<1	S4001W	2	S3617W	1
S4423E	<1	S400B/L	1	S3616W	<1
S4424E	<1	S4008E	<1	S3615W	2
S4425E	<1	S4009E	<1	S3614W	3
S4426E	1	S4010E	<1	S3613W	3
S4025W	<1	S4011E	1	S3612W	2
S4024W	1	S4012E	<1	S3611W	2
S4023W	<1	S4013E	1	S3610W	2
S4022W	<1	S4014E	<1	S3609W	8
S4021W	1	S4015E	<1	S3608W	2
S4020W	<1	S4016E	<1		
S4019W	1	S4017E	<1		
S4018W	<1	S4018E	1		

Con't.....

Per G. Lebel

G. Lebel - Manager

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
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Certificate of Analysis

Certificate No. 68099

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
S3607W	1	S3216W	<1	S2820W	2
S3606W	1	S3215W	<1	S2819W	2
S3605W	2	S3214W	1	S2818W	1
S3604W	1	S3213W	<1	S2817W	<1
S3603W	1	S3212W	<1	S2816W	1
S3602W	1	S3211W	<1	S2815W	1
S3601W	3	S3210W	<1	S2814W	2
S3600B/L	8	S3209W	1	S2813W	1
S3615E	1	S3208W	<1	S2812W	1
S3617E	<1	S3207W	<1	S2811W	1
S3618E	2	S3206W	<1	S2810W	1
S3619E	2	S3205W	1	S2809W	<1
S3620E	<1	S3204W	<1	S2808W	1
S3621E	<1	S3203W	<1	S2807W	2
S3622E	<1	S3202W	<1	S2806W	1
S3623E	1	S3201W	<1	S2805W	1
S3624E	1	S3200B/L	<1	S2804W	1
S3625E	1	S3218E	<1	S2803W	1
S3626E	<1	S3219E	<1	S2802W	<1
S3225W	<1	S3220E	<1	S2801W	1
S3224W	<1	S3221E	2	S2801E	2
S3223W	<1	S3222E	2	S2802E	<1
S3222W	<1	S3223E	1	S2803E	<1
S3221W	1	S3224E	2	S2804E	1
S3220W	<1	S3225E	<1	S2806E	<1
S3219W	<1	S3226E	1	S2807E	2
S3218W	<1	S3227E	1	S2808E	2
S3217W	<1	S2821W	2	S2421W	1

Con't...

Per G. Lebel

G. Lebel - Manager

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
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ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68099

SAMPLE NO.	GOLD PPB
S2420W	4
S2419W	1
S2418W	1
S2417W	3
S2416W	1
S2415W	<1
S2414W	4
S2413W	2
S2412W	3
S2411W	10
S2410W	13
S2409W	3
S2408W	3
S2407W	2
S2406W	3
S2405W	2
S2404W	2
S2403W	3
S2402W	1
S2401W	2
S2400B/L	2
S2401E	<1
S2402E	1
S2403E	1
S2404E	2
S2405E	2
S2406E	1

SAMPLE NO.	GOLD PPB
S2407E	1
S2408E	1
S2409E	3
S2410E	2
S2411E	1
S2020W	2
S2019W	3
S2018W	<1
S2017W	1
S2016W	<1
S2015W	2
S2014W	2
S2013W	2
S2012W	1
S2011W	2
S2010W	1
S2009W	1
S2008W	2
S2007W	1
S2006W	2
S2005W	1
S2004W	3
S2003W	2
S2002W	<1
S2001W	1
S2000B/L	3
S2001E	2

SAMPLE NO.	GOLD PPB
S2002E	3
S2003E	2
S2004E	2
S2005E	4
S2006E	1
S2007E	2
S2008E	2
S2009E	1
S2010E	2
S2011E	2
S1614W	2
S1613W	2
S1612W	2
S1611W	3
S1610W	<1
S1609W	1
S1608W	3
S1607W	<2
S1606W	<1
S1605W	2
S1604W	2
S1603W	3
S1602W	1
S1601W	<1
S1600B/L	<1
S1601E	1

Con't.....

Per G. Lebel - Manager

SWASTIKA LABORATORIES LIMITED

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Certificate No. 68099

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
S1602E	1	S1201E	1	S801E	<1
S1603E	3	S1202E	1	S802E	<1
S1604E	110	S1203E	1	S803E	1
S1605E	<1	S1204E	<1	S804E	<1
S1606E	1	S1205E	<1	S805E	<1
S1607E	2	S1206E	2	S806E	1
S1608E	1	S1207E	<1	S807E	<1
S1609E	1	S1208E	<1	S808E	<1
S1610E	3	S1209E	<1	S809E	<1
S1611E	1	S1210E	1	S810E	<1
S1215W	1	S815W	1	S415W	2
S1214W	<1	S814W	<1	S414W	<2
S1213W	4	S813W	<1	S413W	<1
S1212W	<1	S812W	2	S412W	2
S1211W	<1	S811W	1	S411W	1
S1210W	2	S810W	<1	S410W	2
S1209W	3	S809W	2	S409W	1
S1208W	2	S808W	2	S408W	1
S1207W	1	S807W	<1	S407W	1
S1206W	<1	S806W	3	S406W	1
S1205W	1	S805W	2	S405W	1
S1204W	1	S804W	1	S404W	1
S1203W	1	S803W	2	S403W	1
S1202W	2	S802W	3	S402W	2
S1201W	<1	S801W	<1		
S1200B/L	2	S800B/L	2	Con't....	

Per G. Lebel

G. Lebel - Manager

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
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Certificate of Analysis

Certificate No. 68099

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
S401W	1	MSO-172W	1	MSO-340E	4
S400B/L	2	168W	1	344E	2
S401E	1	164W	1	352E	2
S402E	<1	160W	<1	MNO-472W	<1
S403E	<1	156W	1	468W	2
S404E	<1	152W	1	464W	<1
S405E	2	140W	1	460W	2
S406E	<1	136W	2	456W	<1
S407E	1	132W	2	452W	1
S408E	<1	128W	1	448W	<1
S409E	1	124W	1	444W	<1
S410E	<1	120W	1	440W	<1
MSO-272W	1	116W	1	436W	<1
268W	2	112W	2	432W	1
264W	<1	108W	2	428W	<1
260W	1	104W	1	424W	<1
256W	1	100B/L	3	420W	3
252W	1	124E	1	416W	<1
240W	1	128E	<1	412W	<1
236W	1	132E	<1	408W	<1
323W	<1	136E	1	404W	<1
228W	2	140E	3	400W	<1
224W	1	144E	2	372W	<1
220W	1	148E	2	368W	<1
216W	2	152E	1	364W	<1
212W	1	156E	2	360W	<1
208W	1	248E	<1	356W	<1
204W	1	328E	<1	352W	<1
200B/L	<1	336E	92		

Per G. Lebel
G. Lebel - Manager

SWASTIKA LABORATORIES LIMITED

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Certificate No. 68099

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
N1612E	<1	MN0-436E	3	M00-20W	<1
N1613E	<1	440E	5	16W	<1
N1614E	<1	444E	4	12W	<1
N2000BL	<1	448E	2	8W	<1
N2001E	<1	452E	1	4W	1
N2002E	<1	456E	2	00BL	<1
N2003E	<1	512E	1	28E	<1
N2004E	2	516E	2	32E	<1
N2005E	3	520E	1	36E	2
N2006E	<1	528E	2	40E	<1
N2007E	<1	532E	1	44W	<1
N2008E	<1	536E	1	48E	<1
N2009E	<1	540E	<1	52E	<1
N2010E	1	544E	1	56E	<1
N2011E	<1	548E	1		
N2012E	<1	552E	<1		
N2013E	<1	556E	2		
N2014E	<1	M00-72W	<1		
N2015E	<1	68W	<1		
N2016E	<1	64W	<1		
N2017E	<1	60W	3		
N2400BL	<1	56W	<1		
MN0256E	<1	52W	<1		
336E	<1	44W	4		
340E	1	40W	<1		
344E	1	36W	<1		
348E	<1	32W	<1		
352E	1	28W	<1		
356E	1	24W	2		

Per G. Lebel

G. Lebel - Manager

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 68099

SAMPLE NO.	GOLD PPB
MNO-348W	<1
344W	<1
340W	<1
336W	<1
332W	<1
328W	<1
324W	<1
320W	<1
316W	<1
312W	<1
308W	<1
304W	<1
300BL	<1
272W	<1
268W	<1
264W	<1
260W	<1
256W	1
252W	<1
248W	<1
244W	<1
240W	<1
236W	<1
232W	<1
228W	<1
224W	<1
220W	2
216W	1
212W	<1
204W	<1

SAMPLE NO.	GOLD PPB
MNO-172W	<1
168W	<1
164W	<1
160W	<1
156W	1
152W	<1
148W	<1
144W	3
140W	<1
136W	1
132W	<1
128W	1
124W	<1
120W	<2
116W	<1
112W	<1
108W	1
104W	<1
128E	1
132E	<1
136E	<1
140E	<1
144E	<1
148E	<1
152E	<1
156E	<1
208E	<1
232E	<1
236E	<1
240E	<1

SAMPLE NO.	GOLD PPB
MNO-244E	1
248E	<1
252E	<1
N1200BL	1
N1201E	<1
N1202E	<1
N1203E	<1
N1204E	<1
N1205E	<1
N1206E	1
N1207E	<1
N1208E	<1
N1209E	<1
N1210E	<1
N1211E	1
N1212E	<1
N1213E	<1
N1600BL	<1
N1601E	1
N1602E	<1
N1603E	<1
N1604E	<1
N1605E	<1
N1606E	<1
N1607E	<1
N1608E	<1
N1609E	<1
N1610E	<1
N1611E	1

Per G. Lebel

G. Lebel - Manager

900

September 12, 1988

Your file: W8803-183
Our file: 2.10621

Mining Recorder
Ministry of Northern Development & Mines
Court House
P.O. Box 3000
Sioux Lookout, Ontario
P0V 2T0

Dear Sir:

Re: Expenditure spent on Geochemical Soil Survey and Work submitted under Section 77 (19) on Mining Claims PA911401 et al in the area of Beckington Lake

The Assessment Work Credit on expenditure spent on Geochemical Soil Survey and Work samples has been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines & Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

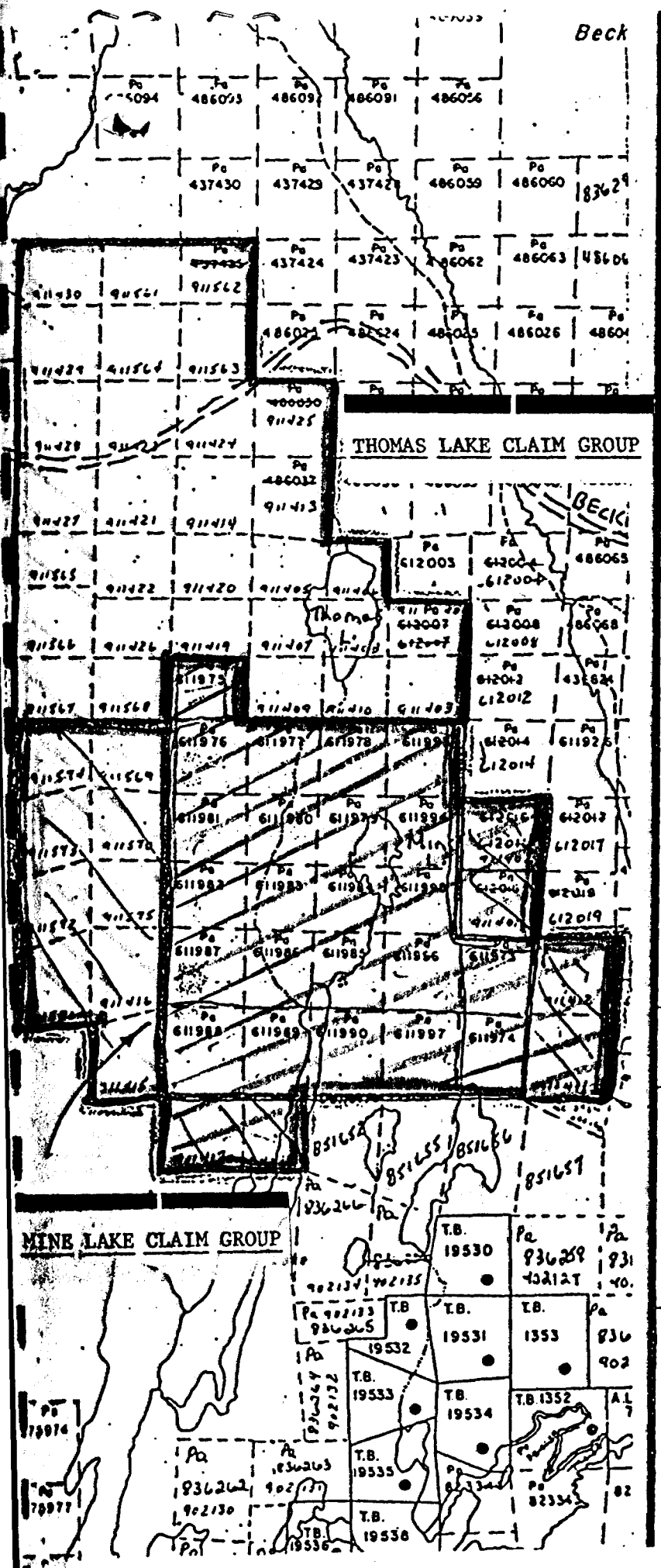
RM:ma

Resident Geologist
Sioux Lookout, Ontario

c.c. Mining Recorder
Sioux Lookout, Ontario

Mr. Thomas E. Gillett
514 Fraser Street
Pembroke, Ontario
K8A 1Y9

Mr. John Rapski
385A Spadina Road
Toronto, Ontario
✓ M5P 2W1



ORDER-IN-COUNCIL .....

RESERVATION .....

CANCELLED .....

SAND & GRAVEL .....

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MA 1913, VESTED IN ORIGINAL PATENTEE BY THE PUB LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY

S.R.O. – SURFACE RIGHTS ONLY

M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
RESERVED FOR PUBLIC USE			S.R.O.	
SEC. 43/70		18/10/71	S.R.O.	143788
SEC. 43/70	W36/74	27/6/74	S.R.O.	143788
SEC. 43/70	W28/76	8/6/76	S.R.O.	188335

Aug 8/85

Aug 29/85

Nov. 185

Aug 185 Rev.

SAND AND GRAVEL

Dec 13/86

M.T.C. GRAVEL PIT Nº 636

Nº 637

July 86

GRAVEL FILE 483333

143788

M.T.C. GRAVEL PIT Nº 535

Nº 1646

July 25!

Nº 1430, FILE 143788

GRAVEL FILE 466704

M.T.C. GRAVEL PIT Nº 1C-44 FILE 143788

QUARRY PERMIT

One mile wide C.N.R. reserve - Surface Rights withdrawn under Sec. 43 of the Mining Act (R.S.O. 1970) FILE 16840

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 2000

(1 KM) (2 KM)

AREA

BECKINGTON LAKE

M.N.R. ADMINISTRATIVE DISTRICT

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.10621

Date: September 8, 1988

Mining Recorder's Report of Work No.: W8803-183

Recorded Holder: Archon Minerals Inc.

Township or Area: Beckington Lake

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days ☐ Airborne ☐ Special provision ☐ Ground ☐ ☐ Credits have been reduced because of partial coverage of claims. ☐ Credits have been reduced because of corrections to work dates and figures of applicant.	$9,054.75 spent on Geochemical soil and rock samples taken from Mining Claims: PA 911401 to 407 inclusive 911409 - 410 911413 - 414 911419 911421 911425 - 426 911563 603.65 Days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980.

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Aug 23

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

Mining Lands Section

DOCUMENT No.
W8803-183

Mining Act

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): Beneficiation	Township or Area: G2532 BECKINGTON LAKE
Claim Holder(s): ARCHON MINERALS INC. ~~MINE LAKE MINERALS INC.~~	Prospector's Licence No.: T-4963 ~~T-4962~~
Address: 7 KING ST. E. SUITE 1300 TORONTO ONT. M5C 1A3	
Survey Company	Date of Survey (from & to): 12 08 87 (Day Mo. Yr.) 30 10 87 (Day Mo. Yr.)
Total Miles of line Cut	
Name and Address of Author (of Geo-Technical report): Thomas E. Gillett, 514 Fraser St., Pembroke, Ont. K8A 1Y9	

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

RECEIVED
JUL 8 1988
MINING LANDS SECTION

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
PA.	911406	60
	911407	60
	911409	60
	911420	630
	911562	37
	911563	27
	911424	37
	911414	47 20
	911419	23
	911403	40
	911404	40
	911408	20
	911410	42
	911413	17
	911405	33
	911425	27
		603

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

PATRICIA MINING DIVISION

Total number of mining claims covered by this report of work: 16

Expenditures (excludes power stripping)

Type of Work Performed: ASSAYS

Performed on Claim(s): GEOCHEMICAL & DRILLING & TRENCH

Section 77(19)

Calculation of Expenditure Days Credits

Total Expenditures: $ 9054.75 ÷ 15 = Total Days Credits: 603.71

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded: 603.7

Date Recorded: July 4, 1988

Mining Recorder: [signature]

Date Approved as Recorded: See revised statement

Director

Date: June 27/88

Recorded Holder or Agent (Signature): [signature]

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and after its completion and the annexed report is true.

Name and Address of Person Certifying

JOHN RAFTIS 385A SARDINA Rd. TORONTO ONT. M5M 3A1

Date Certified: June 27/88

Certified by (Signature): [signature]

ERIKSON & ASSOCIATES

Barristers and Solicitors

Suite 402
15 Toronto Street
Toronto, Ontario M5C 2E3

Telephone: (416) 365-9582
Fax: (416) 365-9268

March 2, 1988

DELIVERED

Ministry of Northern Development
Mining Lands Section
Whitney Block,
Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sirs:

Re: File 2.10621
Report of Work 87-156, 155, 161

Mr. Thomas Gillett, the consulting engineer who performed the above work programs, has questioned us as to why work was disallowed against claim 911410, as all of the work performed was carried out on this claim.

Could you kindly advise.

Yours truly,
ERIKSON & ASSOCIATES

per:
Richard Lachcik
RL:rb

March 2, 1988

MEMORANDUM TO: Mr. Roy Spooner
Mining Recorder, Sioux Lookout

RE: Geophysical (Electromagnetic), Geological and Geochemical Survey on Mining Claim Pa-911410 in the Area of Beckington Lake
(Report of Work 87-156)

The above-mentioned survey has been reassessed and credits approved as per the attached Technical Assessment Work Credit form. Please disregard the approval dated January 6, 1988.

This work matches up with File 30519 of the Mining and Lands Commissioner.

W.R. Cowan, Manager
Mining Lands Section
Mines & Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

RM:pl
Enclosure

cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

Mr. Richard Lachcik
Erikson & Associates
Suite 402
15 Toronto Street
Toronto, Ontario
M5C 2E3

Mr. Glen Erikson
Archon Minerals Inc.
Suite 1710
390 Bay Street
Toronto, Ontario
M5H 2Y2

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File: 2.10621

Date: March 2, 1988

Mining Recorder's Report of Work No.: 87-156

amended

Recorded Holder: Archon Minerals Inc.

Township or Area: Beckington Lake

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	PA 911410
Electromagnetic 20 days	
Magnetometer ____ days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological 5 days	
Geochemical 5 days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☒ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of
Northern Development
and Mines

Ontario

Ministère du
Développement du Nord
et des Mines

January 25, 1988

Your File: 87-155,87-156
87-161
Our file: 2.10621

Mining Recorder
Ministry of Northern Development and Mines
Court House
P.O. Box 3000
Sioux Lookout, Ontario
P0V 2T0

Dear Sir:

RE: Notice of Intent dated January 6, 1988
Geophysical (Electromagnetic), Geological and Geochemical
Survey submitted on Mining Claims PA 911401 et al
in the Area of Beckington Lake

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

RM
RM:pl
Enclosure: Technical Assessment Work Credits

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
Sioux Lookout, Ontario

Mine Lake Minerals Inc.
Archon Minerals Inc.
Mr. Glen Erikson
Suite 1710
390 Bay Street
Toronto, Ontario
M5H 2Y2

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.10621

Date: January 6, 1988

Mining Recorder's Report of Work No.: 87-155

AMENDED

Recorded Holder: Mine Lake Minerals Inc.

~~Township~~ or Area: Beckington Lake

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical 40 days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

10 Days Geochemical

PA 911401 to 402 inclusive

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

PA 911411 to 412 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.10621

Date: January 6, 1988

Mining Recorder's Report of Work No.: 87-156

AMENDED

Recorded Holder: Archon Minerals Inc.

~~XXXXXXX~~ Area: Beckington Lake Area

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	PA 911403 to 405 inclusive 911407 911409 911413 to 414 inclusive 911419 911421 911423 to 430 inclusive 911561 to 568 inclusive
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) *See "Mining Claims Assessed" column*	
Geological 20 days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

5 Days Geological	15 Days Geological
PA 911406	PA 911408

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

PA 911410
911420
911422

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.10621

Date: January 6, 1988

Mining Recorder's Report of Work No.: 87-156

AMENDED

Recorded Holder: Archon Minerals Inc.

Township or Area: Beckington Lake Area

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	PA 911405 911407 to 409 inclusive 911413 to 414 inclusive 911419 911421 911423 to 430 inclusive 911561 to 565 inclusive 911568
Electromagnetic 40 days	
Magnetometer ____ days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) *See "Mining Claims Assessed" column*	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

20 Days Electromagnetic	10 Days Electromagnetic
PA 911403 911566 to 567 inclusive	PA 911404 911406

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

PA 911410
911420
911422

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File 2.10621

Date January 6, 1988

Mining Recorder's Report of Work No. 87-156

AMENDED

Recorded Holder: Archon Minerals Inc.

~~Date~~ Area: Beckington Lake Area

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	PA 911403 to 404 inclusive
Magnetometer _____ days	911407
Radiometric _____ days	911409
Induced polarization _____ days	911413 to 414 inclusive
Other _____ days	911419
Section 77 (19) *See "Mining Claims Assessed" column*	
Geological _____ days	
Geochemical 20 days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

10 Days Geochemical	5 Days Geochemical
PA 911405	PA 911406
911421	
911425 to 426 inclusive	
911563	

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ insufficient technical data filed

PA 911408
911410
911420
911422 to 424 inclusive
911427 to 430 inclusive
911561 to 562 inclusive
911564 to 568 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.10621

Date: January 6, 1988

Mining Recorder's Report of Work No.: 87-161

Recorded Holder: Glen Erickson

~~Township~~ or Area: Beckington Lake Area

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	PA 611980 611994
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical 20 days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

15 Days Geochemical	10 Days Geochemical	5 Days Geochemical
PA 611995	PA 611979	PA 611982 611984 611986

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey
PA 611976 + 977 inclusive
611981
611983
611985
611987
611996
611973

☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ontario Ministry of Natural Resources

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

#87-155

2 10621

The Mining Act

0210

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)	Township or Area
GEOCHEMCIAL SURVEY	G 2532 Beckington Lake Area

Claim Holder(s)	Prospector's Licence No.
Mine Lake Minerals Inc.	T-4962

Address: Suite 1710-390 Bay Street, Toronto, Ontario M5H 2Y2

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Not applicable	3 07 87 (Day / Mo. / Yr.) 31 07 87 (Day / Mo. / Yr.)	1 mile

Name and Address of Author (of Geo-Technical report): Thomas Gillett (see below)

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	40
Man Days		**Days per Claim**
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		**Days per Claim**
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
PA	911401	
	911402	
	911411	
	911412	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
SEP 15 1987
MINING LANDS SECTION

PATRICIA MINING DIV.
RECEIVED
AUG 21 1987
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

Pa. 911401

Total number of mining claims covered by this report of work: 4

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
160	Aug. 21 1987	Tony Spooner
	Date Approved as Recorded	Branch Director

Date: Aug. 19/87

Recorded Holder or Agent (Signature):

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: Thomas Gillett, R.R #3, Marmora, Ontario K0K 2M0

Date Certified: Aug. 19/87

Certified by (Signature):

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

#87-156
210621

Timmins Lands

The Mining Act

OCX 10

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)	Township or Area
GEOCHEMICAL SURVEY, GEOPHYSICAL, ~~GEOCHEMICAL~~ GEOLOGICAL	Beckington Lake Area G 2532

Claim Holder(s)	Prospector's Licence No.
Archon Minerals Inc.	T-4963

Address: Suite 1710-390 Bay Street, Toronto, Ontario M5H 2Y2

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Not applicable	Day 3 Mo. 07 Yr. 1987 / Day 31 Mo. 07 Yr. 87	25 miles

Name and Address of Author (of Geo-Technical report): Thomas Gillett (see below)

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	40
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	20
	Geochemical	20
Man Days Complete reverse side and enter total(s) here		Days per Claim
	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED
SEP 15 1987
MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
PA	911403	
	911404	
	911405	
	911406	
	911407	
	911408	
	911409	
	911410	
	911413	
	911414	
	911419	
	911420	
	911421	
	911422	
	911423	
	911424	
	911425	
	911426	
	911427	
	911428	
	911429	
	911430	
	911561	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
PA	911562	
	911563	
	911564	
	911565	
	911566	
	911567	
	911568	

PATRICIA MINING DIV.
RECEIVED
AUG 21 1987
A.M. 7 8 9 10 11 12 1 2 3 P.M. 4 5 6

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits
Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Pa. 911401

Total number of mining claims covered by this report of work. 30

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
2400	Aug. 21, 1987	
	Date Approved as Recorded	Branch Director

Date	Recorded Holder or Agent (Signature)
Aug. 19, 1987	

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
Thomas Gillett, R.R. #3, Marmora, Ontario K0K 2M0

Date Certified	Certified by (Signature)
Aug. 19, 1987	

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

#87-161
2 10621

Tri-Varian Mining Lands

The Mining Act

Instructions: – Please type or print. 0210
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)	Township or Area
Geochemical Survey	Beckington Lake Area G2522

Claim Holder(s)	Prospector's Licence No.
~~Mine Lake Minerals Inc.~~ Glen Erikson	~~T-4963~~ A45586

Address: Suite 1710-390 Bay Street, Toronto, Ontario M5H 2Y2

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Not Applicable	3 Day 07 Mo. 87 Yr. / 31 Day 07 Mo. 87 Yr.	n/a

Name and Address of Author (of Geo-Technical report): Thomas Gillett R.R. #3, Marmora, Ont. K0K 2M0

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	20
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
PA	611976				
	611977				
	611979				
	611980				
	611981				
	611982				
	611983				
	611984				
	611985				
	611986				
	611987				
	611994				
	611995				
	611996				
	611973				

RECEIVED
SEP 15 1987
MINING LANDS SECTION

PATRICIA MINING DIV
RECEIVED
AUG 21 1987
A.M. 7 8 9 10 11 12 P.M. 1 2 3 4 5 6

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Pa. 611973

Total number of mining claims covered by this report of work. ~~15~~

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
300	Aug. 21, 1987	
	Date Approved as Recorded	Branch Director

Date: Aug. 19/87 Recorded Holder or Agent (Signature)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: THOMAS GILLETT, R.R. #3, Marmora, Ont. K0K 2M0

Date Certified: Aug. 19/87 Certified by (Signature)

Ontario

Ministry of Natural Resources

File 2.10621

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological & Geophysical

Township or Area Beckington Lake Area

Claim Holder(s) Mine Lake Minerals Inc.,
Archon Minerals Inc., Glen Erikson

Survey Company McClements Geophysics

Author of Report Thomas Gillett

Address of Author R.R.#3, Marmora, Ontario

Covering Dates of Survey March 23 to August 11, 1987
(linecutting to office)

Total Miles of Line Cut 26 miles

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	40
–Magnetometer	
–Radiometric	
–Other	
Geological	20
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 11/30/87 SIGNATURE: T. E. Gillett
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

See attached schedule
(prefix) (number)

If space insufficient, attach list

TOTAL CLAIMS 67

OFFICE USE ONLY

837 (5/79)

Ontario

Ministry of Natural Resources

File 2.10621

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological & Geophysical

Township or Area Beckington Lake Area

Claim Holder(s) Mine Lake Minerals Inc.,
Archon Minerals Inc., Glen Erikson

Survey Company McClements Geophysics

Author of Report Thomas Gillett

Address of Author R.R.#3, Marmora, Ontario

Covering Dates of Survey March 23 to August 11, 1987
(linecutting to office)

Total Miles of Line Cut 26 miles

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	40
–Magnetometer	
–Radiometric	
–Other	
Geological	20
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 11/30/87 SIGNATURE: T. E. Gillett
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

See attached schedule
(prefix) (number)

If space insufficient, attach list

TOTAL CLAIMS 67

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 1492 Number of Readings 1492

Station interval 50 foot stations Line spacing 100 feet

Profile scale 20% per inch

Contour interval no magnetic done

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument Geonics EM 16

Coil configuration -

Coil separation -

Accuracy -

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency NSS Anapolis, Maryland (21.4KH2) NAA Culter, Maine (17.8KH2)
(specify V.L.F. station)

Parameters measured -

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

Pa 611973
Pa 611974
Pa 611975
Pa 611976
Pa 611977
Pa 611978
Pa 611979
Pa 611980
Pa 611981
Pa 611982
Pa 611983
Pa 611984
Pa 611985
Pa 611986
Pa 611987

Pa 611988
Pa 611989
Pa 611990
Pa 611993
Pa 611994
Pa 611995
Pa 611996
Pa 611997
Pa 911401
Pa 911402
Pa 911411
Pa 911412
Pa 911417
Pa 911418

Pa 911403
Pa 911404
Pa 911405
Pa 911406
Pa 911407
Pa 911408
Pa 911409
Pa 911410
Pa 911413
Pa 911414
Pa 911415
Pa 911416
Pa 911419
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Pa 911429
Pa 911430
Pa 911561
Pa 911562
Pa 911563
Pa 911564
Pa 911565
Pa 911566
Pa 911567
Pa 911568
Pa 911569
Pa 911570
Pa 911572
Pa 911573
Pa 911574
Pa 911575

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geochemical Survey

Township or Area Beckington Lake Area

Claim Holder(s) Archon Minerals Inc., Mine Lake Minerals Inc., Glen Eriksson

Survey Company By Geologist, Thomas E. Gillett

Author of Report Thomas E. Gillett

Address of Author R.R.#3, Marmora, Ontario

Covering Dates of Survey March, 1987 to August 16, 1987
(linecutting to office)

Total Miles of Line Cut 26 miles

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

DAYS per claim

Geophysical

–Electromagnetic _____

–Magnetometer _____

–Radiometric _____

–Other _____

Geological _____

Geochemical 40 [redacted] 20

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: 11/30/87 SIGNATURE: T. E. Gillett
Author of Report or Agent

Res. Geol. _____ Qualifications 2 2469

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

See attached list
(prefix) (number)

RECEIVED
DEC 1 1987
MINING LANDS SECTION

TOTAL CLAIMS 49

If space insufficient, attach list

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken 49

Total Number of Samples 573

Type of Sample Humus – A Horizon
(Nature of Material)

Average Sample Weight 100 gm.

Method of Collection Manual

Soil Horizon Sampled A - Horizon.

Horizon Development

Sample Depth 6"- 9"

Terrain Rolling hills with large areas of swamp between hill's.

Drainage Development

Estimated Range of Overburden Thickness 2 to 20 feet

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis
Samples were dried ashed and briquetted.

General

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☒

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others gold

Field Analysis (_____ tests)
Extraction Method
Analytical Method
Reagents Used

Field Laboratory Analysis
No. (_____ tests)
Extraction Method
Analytical Method Neutron activation
Reagents Used

Commercial Laboratory (_____ tests)
Name of Laboratory Swastika Laboratories
Extraction Method
Analytical Method
Reagents Used

General

Claims held by Glen Erikson 20 days work claimed:

PA 611976
611977
611979
611980
611981
611982
611983
611984
611985
611986
611987
611994
611995
611996
611973

Claims held by Mine Lake Minerals Inc., 40 days work claimed:

PA 911401
911402
911411
911412

Claims held by Archon Minerals Inc., 20 days work claimed:

PA 911403
911404
911405
911406
911407
911408
911409
911410
911413
911414
911419
911420
911421
911422
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911561
911562
911563
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911565
911566
911567
911568

Evans Lake Area - G-2031

Barnard Lake Area G-2531

Fog Lake & Manion Twp. G-2542

Squaw Lake Area - G-3140

90°45' 90°30' 50°15' 50°07'30"

BOUCHER TWP.
FOR STATUS REFER TO TWP. PLAN

CHEVRIER TWP.
FOR STATUS REFER TO TWP. PLAN

PROJECTED LINE

PHILLIPS & BENNER O.L.S.

1 Mile S.R. RES.

REG'L HWY 17

SAVANT TOWNSITE

CANADIAN NATIONAL RAILWAY

BALLAST PIT

SAVANT LAKE INTERMEDIATE AERODROME FILE: 97873

AIRPORT

STA. STAUNTON

Chiveliston Lake

Beckington Lake

Rainbow Lake

Gordon Lake

Wellington L.

Mitchell L.

Couture Lake

Outerbridge Lake

Sturgeon Lake

Sturgeon Bay

Horseshoe Bay

North Arm

H.W. 697

H.W. 696

SV. 378 T.B. 1037

AL. 668 T.B. 648

AL. 667 T.B. 211

AL. 556 T.B. 210

T.B. 953

T.B. 720

T.B. 6978

B.G. 158 T.B. 6979

B.G. 157 T.B. 6980

B.G. 156 T.B. 6981

B.G. 155 T.B. 6982

AL. 773

T.B. 2357

T.B. 2201

T.B. 2356

1M. 2M. 3M. 4M. 5M. 6M. 7M. 8M. 9M. 10M.

1M. 2M.

43' 42' 41' 40' 39' 38' 37' 36' 35' 34' 33' 32' 31'

14' 13' 12' 11' 10' 9' 8'

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	▬
" , MINING RIGHTS ONLY	▬
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	Ⓢ

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
RESERVED FOR PUBLIC USE			S.R.O.	
SEC. 43/70		18/10/71	S.R.O.	143788
SEC. 43/70	W36/74	27/6/74	S.R.O.	143788
SEC. 43/70	W28/76	8/6/76	S.R.O.	

SAND AND GRAVEL

M.T.C. GRAVEL PIT NP 636
" " " NP 637
GRAVEL FILE 183333
" " 143788
M.T.C. GRAVEL PIT NP 635
" " " NP 1646
" " " NP 1430, FILE 143788
GRAVEL FILE 160704
M.T.C. GRAVEL PIT NP IC-14 FILE 143788
QUARRY PERMIT

One mile wide C.N.R. reserve - Surface Rights withdrawn under Sec. 43 of the Mining Act (R.S.O. 1970) FILE 168405

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA **BECKINGTON LAKE**

M.N.R. ADMINISTRATIVE DISTRICT
IGNACE
MINING DIVISION
PATRICIA
LAND TITLES / REGISTRY DIVISION
THUNDER BAR

Ministry of Natural Resources Ontario — Land Management Branch

Date FEBRUARY, 1984

Number **G-2532**

52J02NE0003 2.10621 BECKINGTON LAKE

200

502903

611 982
611 981
611 976
611 975
611 983
611 980
611 977
611 984
611 979
611 978
611 995
611 994
611 993
911401
911402

Contact Shaft
Stewart Shaft
WASTE
Main Shaft
Thomas Lake
Thomas Lake Grid
Base Line
L 92+00S
L 64+00S
1N
2N
3N
4N
5N
6N
7N
00
15
25
35

MINE LAKE MINERALS INC.

OUTLINE OF LINE CUTTING GRID

MINE LAKE CLAIM GROUP

LEGEND

- Shafts
- Claim Post
- Claim Boundary
- 3N Cut line
- 611 981 Claim Number

SCALE : 1 = 2500

Meters 0 100 200

Thomas E. Elliott 12/7/87

210

MINE LAKE MINERALS INC.

GEOPHYSICAL SURVEY

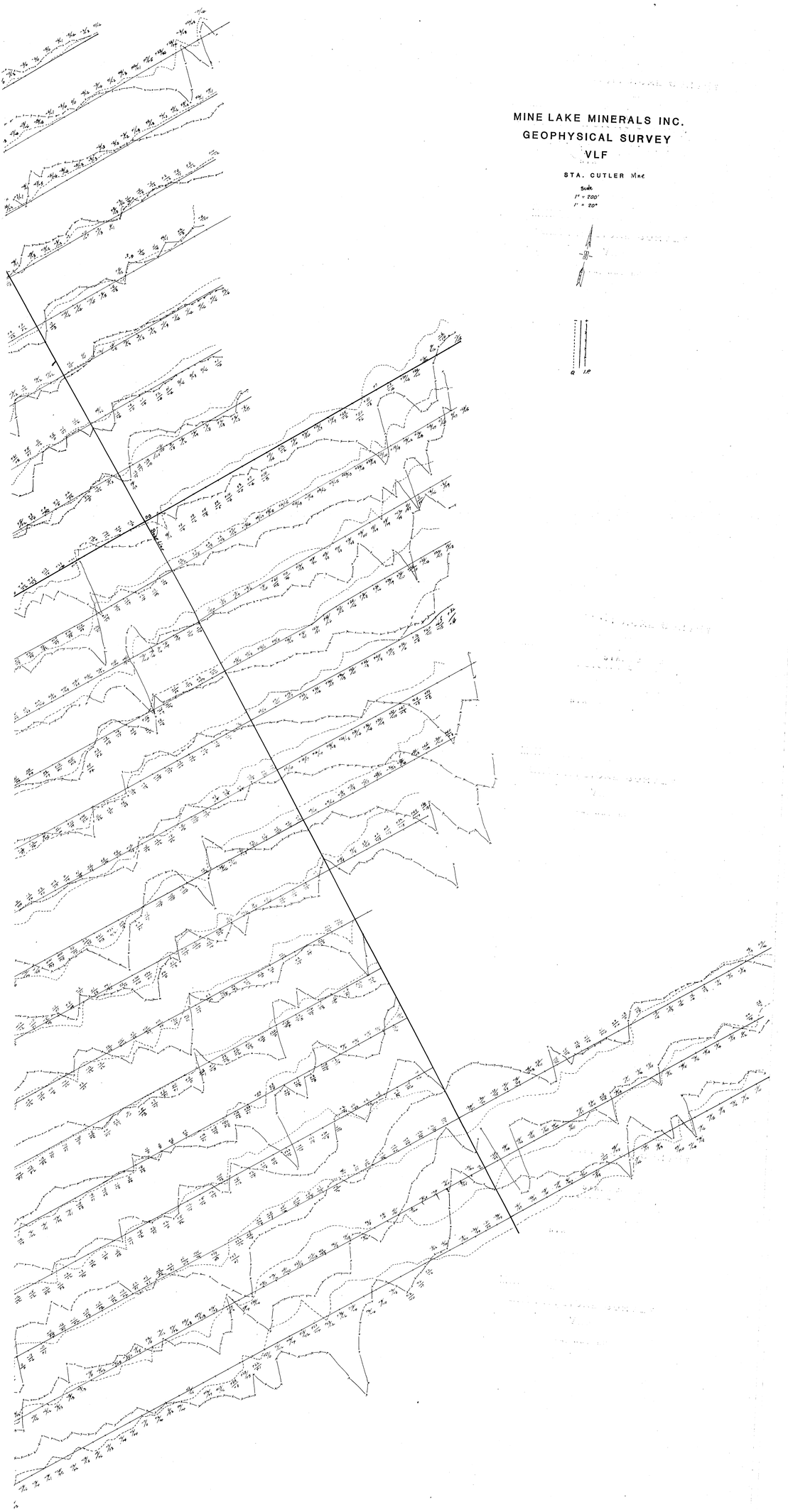
VLF

STA. CUTLER Mine

Scale

1" = 200'

1" = 20*



GEOLOGIC MAP
THOMAS LAKE CLAIM GROUP

1 MAFIC VOLCANICS
- 1a - FLOW BASALT
- 1b - PILLOW BASALT
- 1c - MAFIC AGGLOMERATE
- 1d - BASALT PORPHYRY

2 FELSIC VOLCANICS
- 2a - QUARTZ-FELDSPAR PORPHYRY
- 2b - RHYOLITE FLOWS
- 2c - TUFF
- 2d - FELSIC AGGLOMERATE

3 MAFIC INTRUSIVES
- 3a - GABBRO
- 3b - DIORITE GRANODIORITE

- 35 FOLIATIEN
- 73 ATTITUDE OF PRIMARY BEDDING
- ATTITUDE OF JOINTING
- SHEARING
- INFERRED CONTACT
- INFERRED FAULT, DISPLACEMENT UNKNOWN
- 605 #3 CLAIM POST W/TRAY NO'S., THE FIRST THREE DIGITS OMITTED
- EXTENT OF OUTCROP
- ROAD
- SWAMP, STANDING WATER
- STREAM

0 200 ft. 400 ft.
Scale: 1" = 200 ft.

NORTH

L20+00S L24+00S L28+00S MATCH LINE

L40+00N L36+00N L32+00N L28+00N L24+00N L20+00N L16+00N L12+00N L8+00N L4+00N 0+00 L4+00S L8+00S L12+00S L16+00S L20+00S L24+00S L28+00S L32+00S L36+00S L40+00S L44+00S L48+00S L52+00S L56+00S

Sand Pit

THOMAS LAKE

Stripped

Thomas E. Gillett 12/19/1967

MINE LAKE MINERALS INC.

GEOCHEMICAL HUMUS SURVEY ~ GOLD

~ LEGEND ~

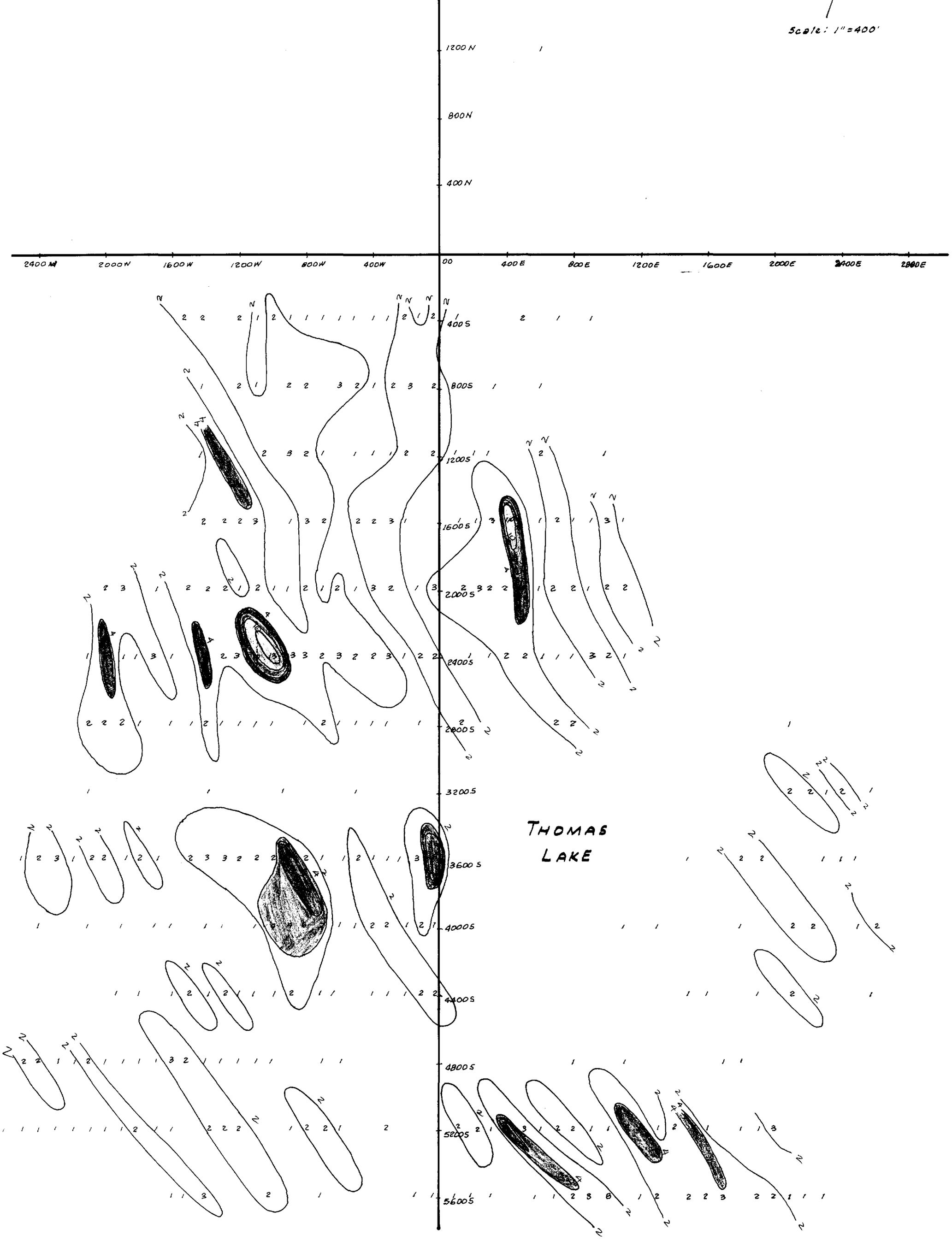
- > 2 ppb
- 2-4 ppb
- 4-8 ppb
- 8-10 ppb
- > 10 ppb

THOMAS LAKE CLAIM GROUP

2.10621

NORTH

Scale: 1"=400'



240

T. E. Gillett 11/30/87

MINE LAKE MINERALS INC.

GEOCHEMICAL HUMUS SURVEY- GOLD

~LEGEND~

2 10621

- > 2 ppb
- 2-4 ppb
- 4-8 ppb
- 8-10 ppb
- > 10 ppb

MINE LAKE CLAIM GROUP

Baseline

L 52+00S

L 54+00S

Thomas Lake Grid

7N

6N

5N

4N

3N

2N

1N

00

1S

2S

3S

4S

5S

6S

7S

8S

9S

10S

W.T.L.

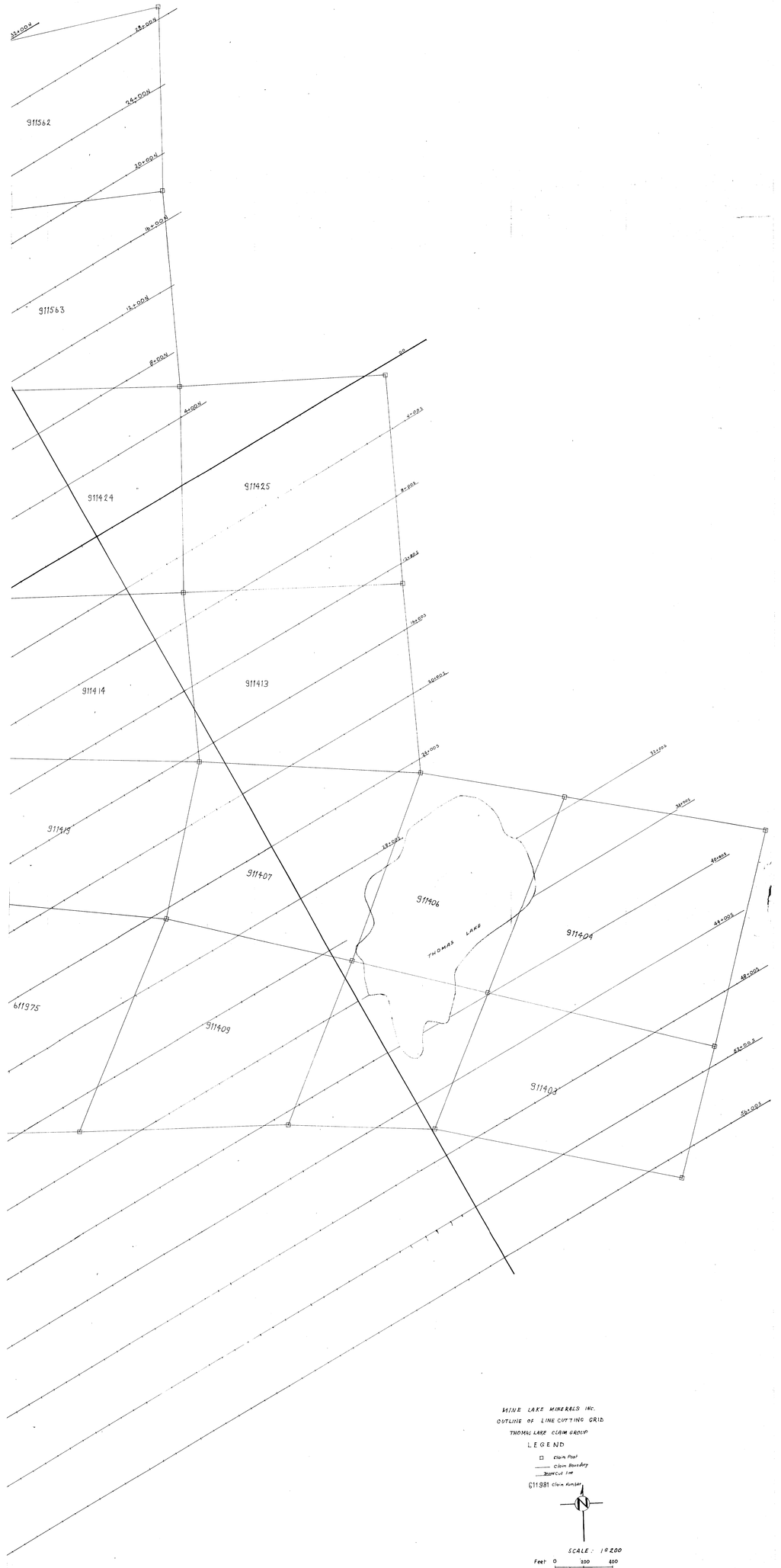
E.T.L.

Mine Lake

Ouillette Lake

Scale 1cm = 250m

Thomas E. Gillett
11/30/87



WINE LAKE MINERALS INC.

OUTLINE OF LINE CUTTING GRID

THOMAS LAKE CLAIM GROUP

LEGEND

- Claim Post
- Claim Boundary
- Picket Cut line
- 611.981 Claim Number

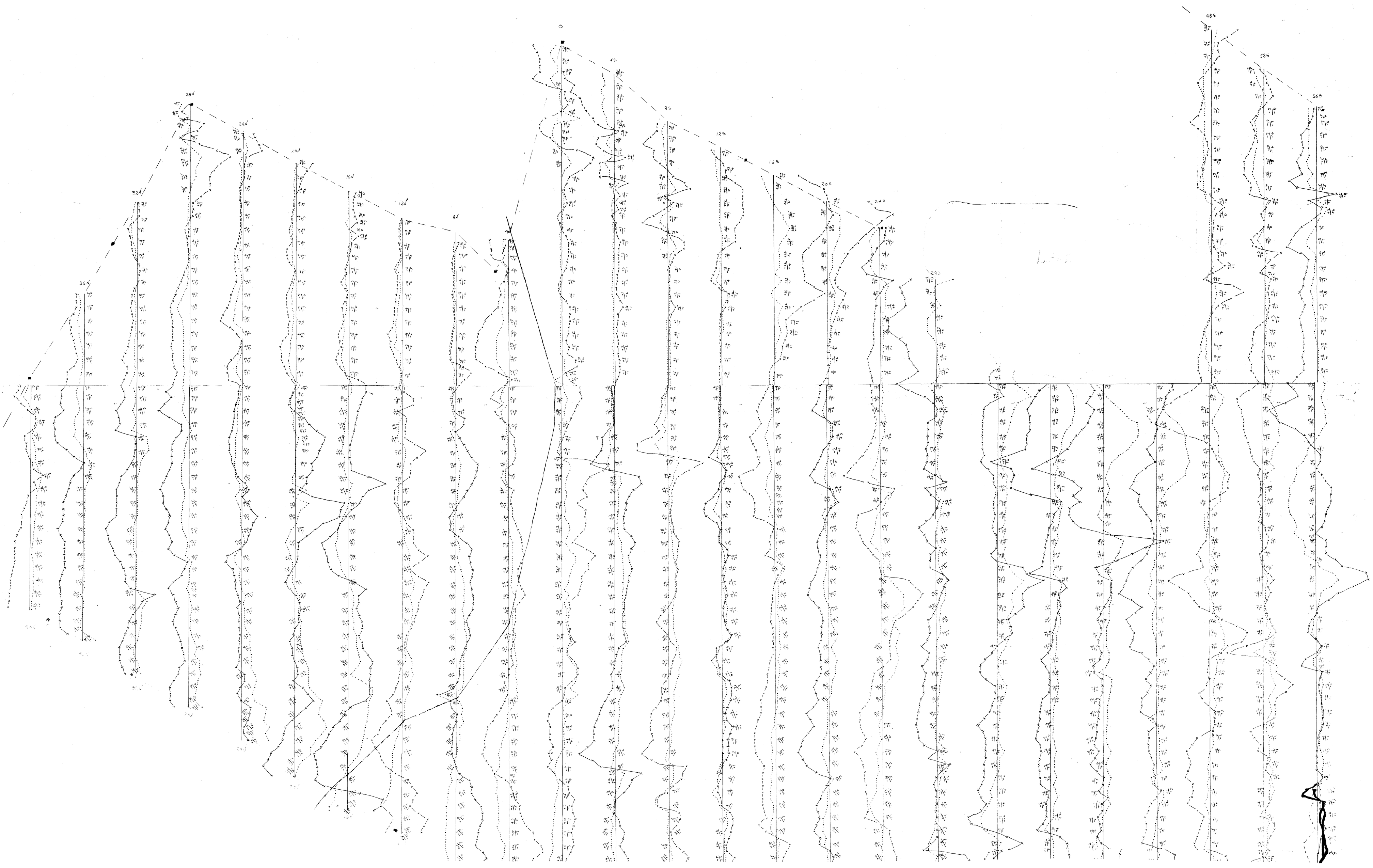
N

SCALE: 1" = 200'

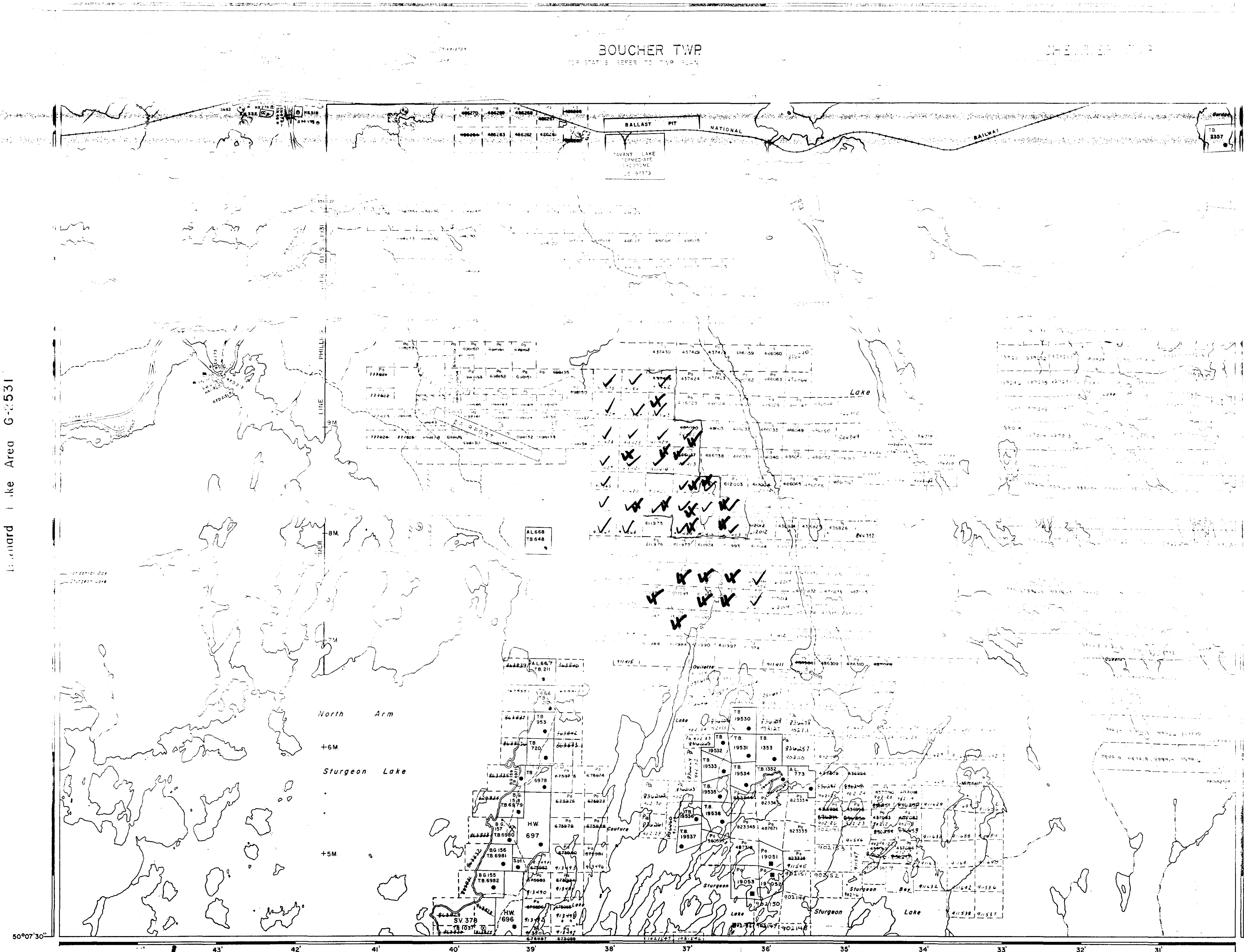
Feet 0 200 400

260.

T 8,141 12/7/89



Evans Lake Area - G-2031



Squaw Lake Area - G-3110

SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG

R E F E R E N C E S

AREA BECKINGTON LAKE

M.N.R. ADMINISTRATIVE DISTRICT
IGNACE
MINING DIVISION
PATRICIA
LAND TITLES / REGISTRY DIVISION
THUNDER BAY

Ontario
Ministry of Natural Resources
Land Management Branch

Date FEBRUARY, 1984
Number G-2532

RECEIVED JAN 7 19.. PATRICIA MINING DIVISION

52J02NE0003 2.10621 BECKINGTON LAKE

280

502903

GEOLOGIC MAP OF THE MINE LAKE CLAIM GROUP

~ LEGEND ~

1 MAFIC VOLCANICS
- 1a - FLOW BASALT
- 1b - PILLOW BASALT

2 FELSIC VOLCANICS
- 2a - QUARTZ-FELDSPAR PORPHYRY
- 2b - RHYOLITE FLOWS
- 2c - TUFF

3 MAFIC INTRUSIVES
- 3a - GABBRO
- 3b - DIORITE

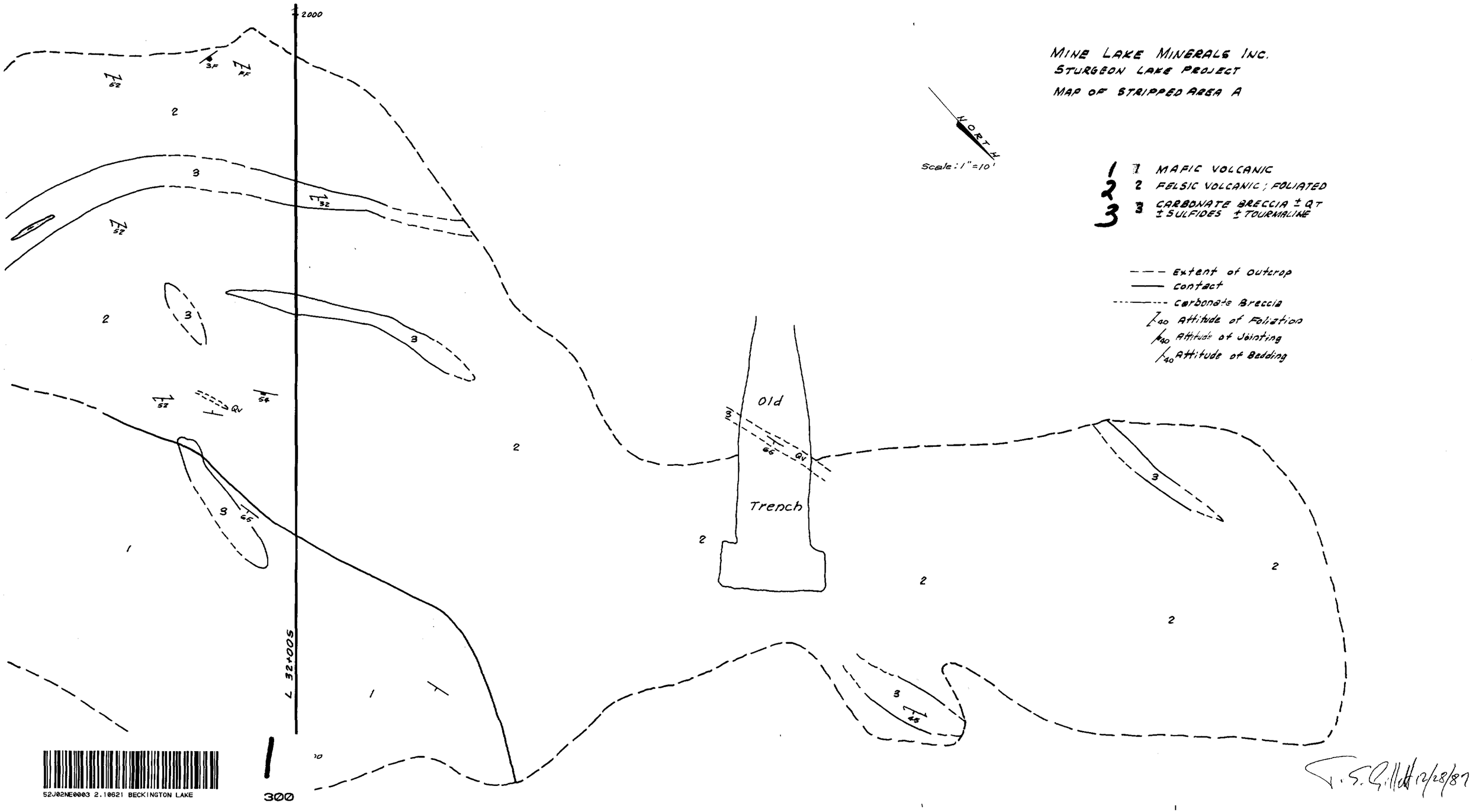
- EXTENT OF OUTCROP
- INFERRED FAULT
- INFERRED CONTACT
- FOLIATION ATTITUDE
- ATTITUDE OF PRIMARY BEDDING
- JOINTING ATTITUDE
- STREAM
- PIT
- TRENCH
- Py PYRITE
- Po PYRHOTITE
- Cpy CHALCOPYRITE
- Si SILICIFICATION
- Qt QUARTZ
- Cc CALCITE
- M MICA
- S SERICITE

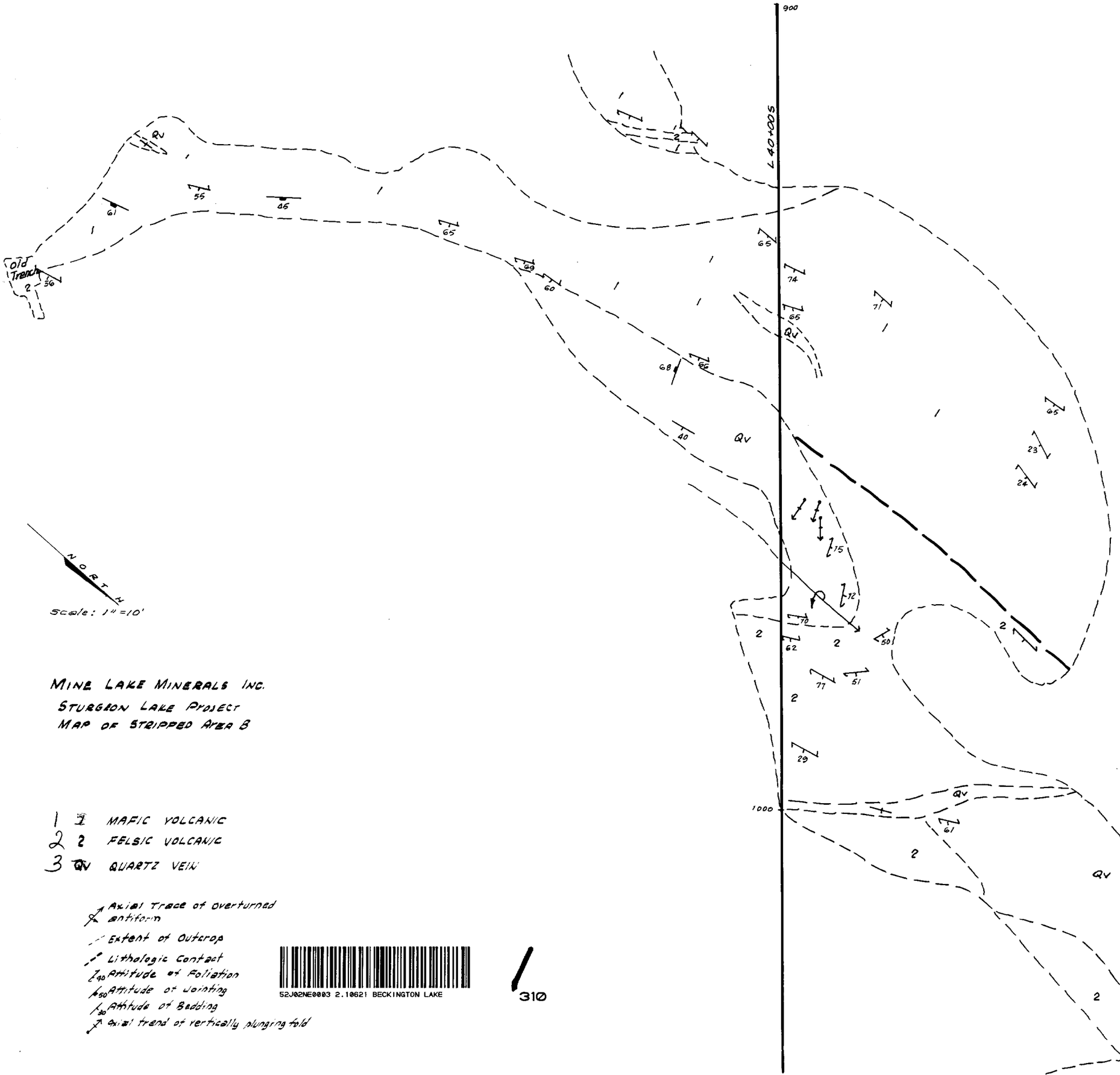
North
Magnetic

Scale
0 100m 200m
1" = 250

Baseline
L 52+00S
L 56+00S
Thomas Lake Grid
Mine Lake
Outlette Lake
Beaver Dam
Stripped Area
Shaft
Stewart Shaft
Main Shaft
Pit
Trench
7N
6N
5N
4N
3N
2N
1N
W.T.L.
E.T.L.

Thomas J. Gillett 12/19/87.





NORTH

Scale: 1" = 10'

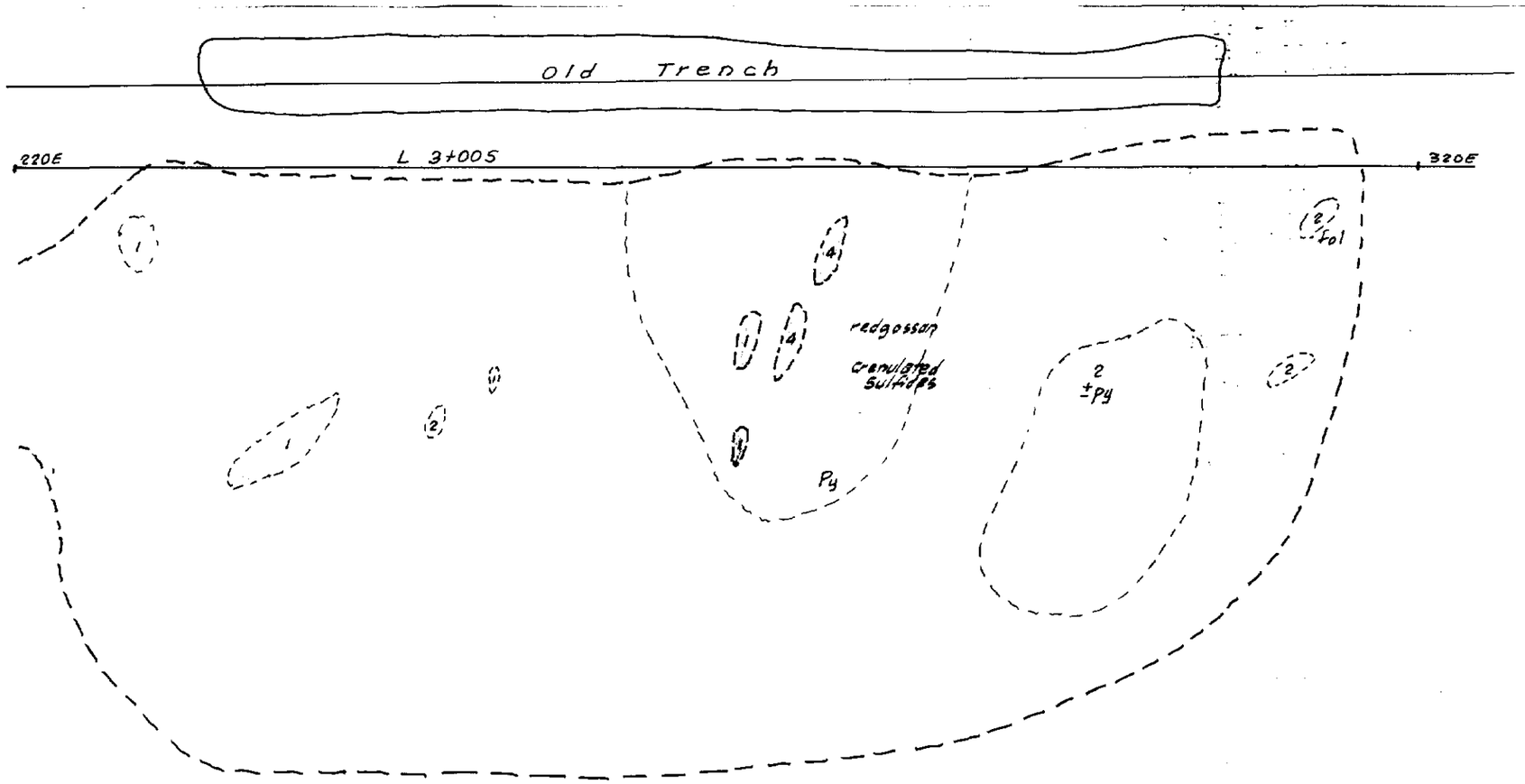
MINE LAKE MINERALS INC.
STURGEON LAKE PROJECT
MAP OF STRIPPED AREA B

1 2 MAFIC VOLCANIC
2 2 FELSIC VOLCANIC
3 Qv QUARTZ VEIN

Axial Trace of overturned antiform
Extent of Outcrop
Lithologic Contact
$\angle_{40}$ Attitude of Foliation
$\angle_{50}$ Attitude of Jointing
$\angle_{30}$ Attitude of Bedding
Axial trend of vertically plunging fold

310

T.S.S. 12/28/87



NORTH

Scale: 1"=10m

1 MAFIC VOLCANIC

2 FELSIC VOLCANIC; FOLIATED QT PORPHYRY

4 METASEDIMENT MI-F. GRAINED WELL FOL., BIT QT + FSP ± Py ± Po ± Cpy

———Extent of Bulldozed Area

-------Extent of outcrop

MINE LAKE MINERALS INC.
STURGEON LAKE PROJECT
MAP OF STRIPPED AREA C

T. E. Gillett 12/28/87

320

611 988

611 987

611 982

611 989

611 986

611 983

611 980

611 990

611 985

611 984

611 979

611 997

611 996

611 995

611 974

611 973

911401

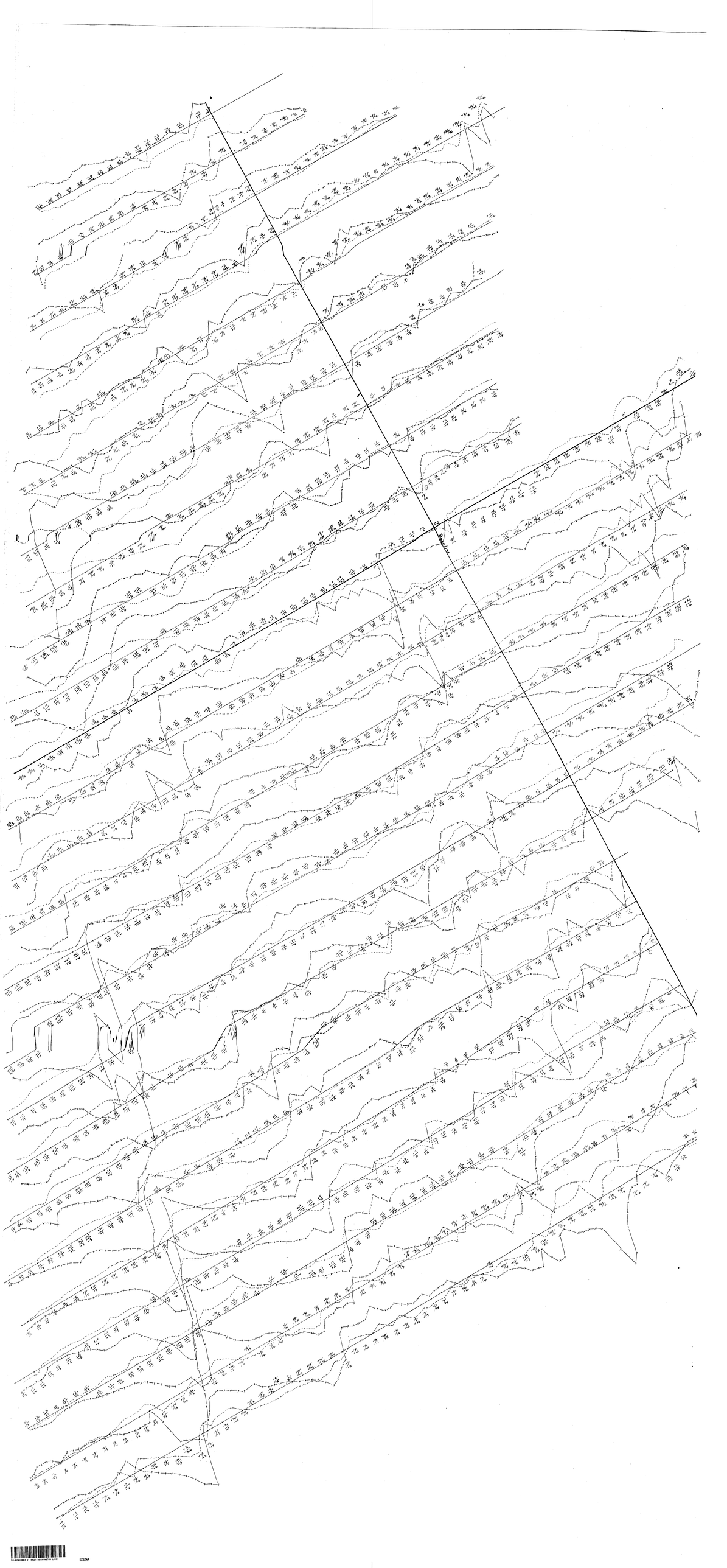
Contact Shaft

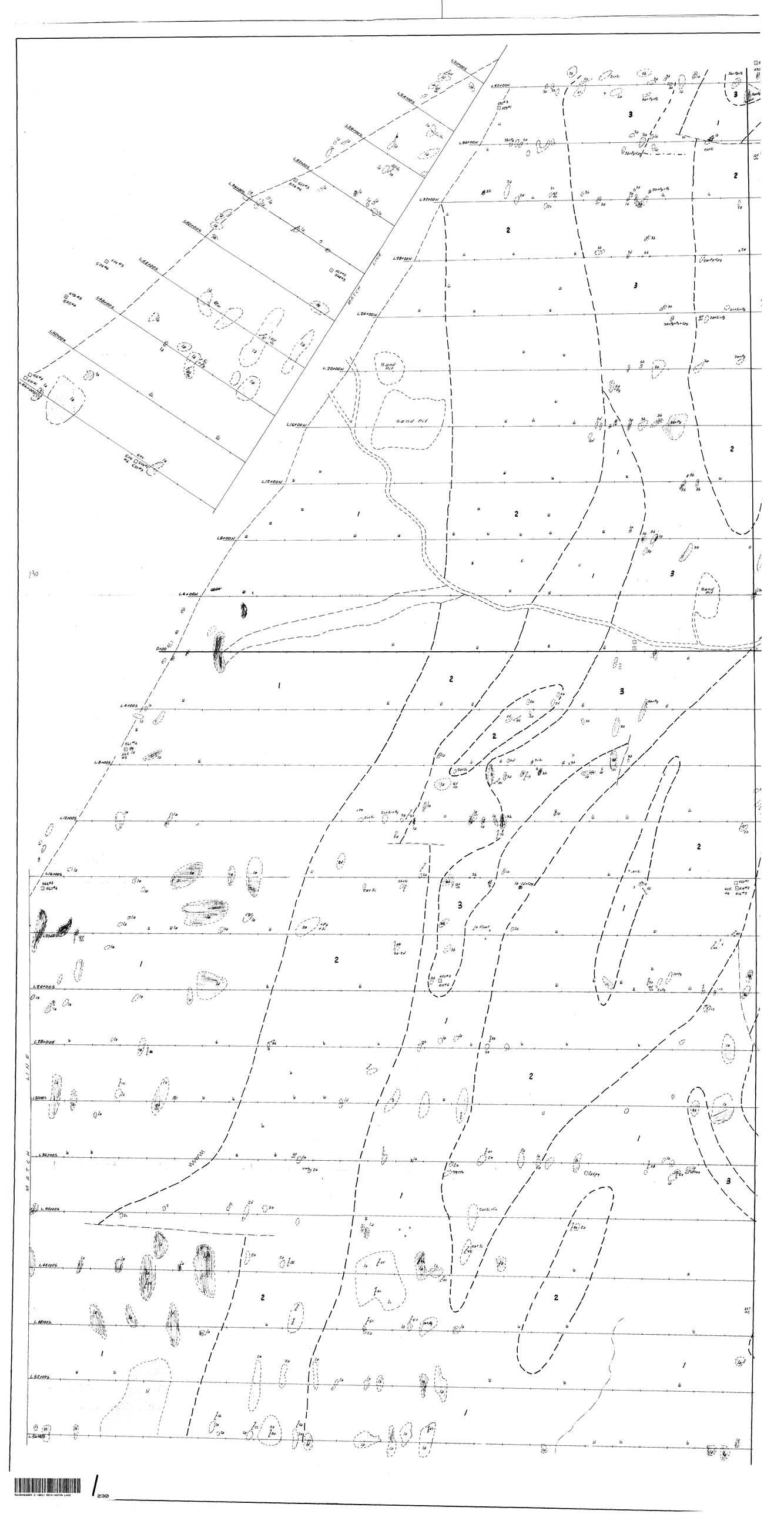
Stewart

WASTE

Main Shaft

Wine Lake




MATCH LINE
MATCH LINE
sand pit
Sand Pit
Sand Pit

MINE LAKE MINERALS INC.
GEOPHYSICAL SURVEY
VLF

STA. MARYLAND NAA

Scale

1" = 200'

1' = 20°

Q I.P.

S. Elliott 12/28/87.