A-731

32D04SE0014 2.10719 MCVITTIE

010

REPORT ON AN AIRBORNE MAGNETIC AND VLF-EM SURVEY LARDER LAKE AREA HEARST, McELROY, GAUTHIER AND McVITTIE TOWNSHIPS LARDER LAKE MINING DIVISION, ONTARIO

for

SUDBURY CONTACT MINES LTD.

by

TERRAQUEST LTD.
Toronto, Canada

December 21, 1987

240 Adelaide Street West, Toronto, Canada M5H 1W7, Telephone (416) 971-5400, Fax (416) 971-6449

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LIST OF FIGURES

LIST OF MAPS IN JACKET

Note: There are three survey areas, therefore there are three of each of the above listed maps.

* Please Note: original assessment submittal consisted of Larder Lake South maps only. Larder LK West and East maps (8) added to this file Oct/89 from OMEP submittal # OM87-6-C-200.

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1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Sudbury Contact Mines Ltd. of 2302-401 Bay Street, Toronto, Ontario, M5H 2Y4 by Terraquest Ltd., 240 Adelaide Street West, Toronto, Canada. The field work was completed on October 26, 1987 and the data processing, interpretation and reporting from October 27 to December 21, 1987.

The purpose of a survey of this type is two-fold. One is to prospect directly for anomalously conductive and magnetic areas in the earth's crust which may be caused by, or at least related to, mineral deposits. A second is to use the magnetic and conductivity patterns derived from the survey results to assist in mapping geology, and to indicate the presence of faults, shear zones, folding, alteration zones and other structures potentially favourable to the presence of gold and base-metal concentration. To achieve this purpose the survey area was systematically traversed by an aircraft carrying geophysical instruments along parallel flight lines spaced at even intervals, 100 metres above the terrain surface, and aligned so as to intersect the regional geology in a way to provide the optimum contour patterns of geophysical data.

2. THE PROPERTY

LARDER LAKE WEST (A-731.1)

The Larder Lake West property is located in Hearst, McElroy, Gauthier and McVittie townships, in the Larder Lake Mining Division of Ontario and extends northwest from the town of Larder Lake. The property is crossed by Highways 66 and 624 and by the Nipissing Central Railway.

The latitude and longitude are 48 degrees 05 minutes, and 79 degrees 45 minutes respectively, and the N.T.S. reference is 32D/4.

The survey area is shown in figure 2.

LARDER LAKE EAST (A-731.2)

The Larder Lake East survey area is located primarily in Hearst and McVittie townships, in the Larder Lake Mining Division of Ontario and is centred about the town of Larder Lake and overlaps approximately half of the Larder Lake West survey area.

The latitude and longitude are 48 degrees 06 minutes, and 79 degrees 43 minutes respectively, and the N.T.S. reference is 32D/4. The survey area is shown in figure 2.

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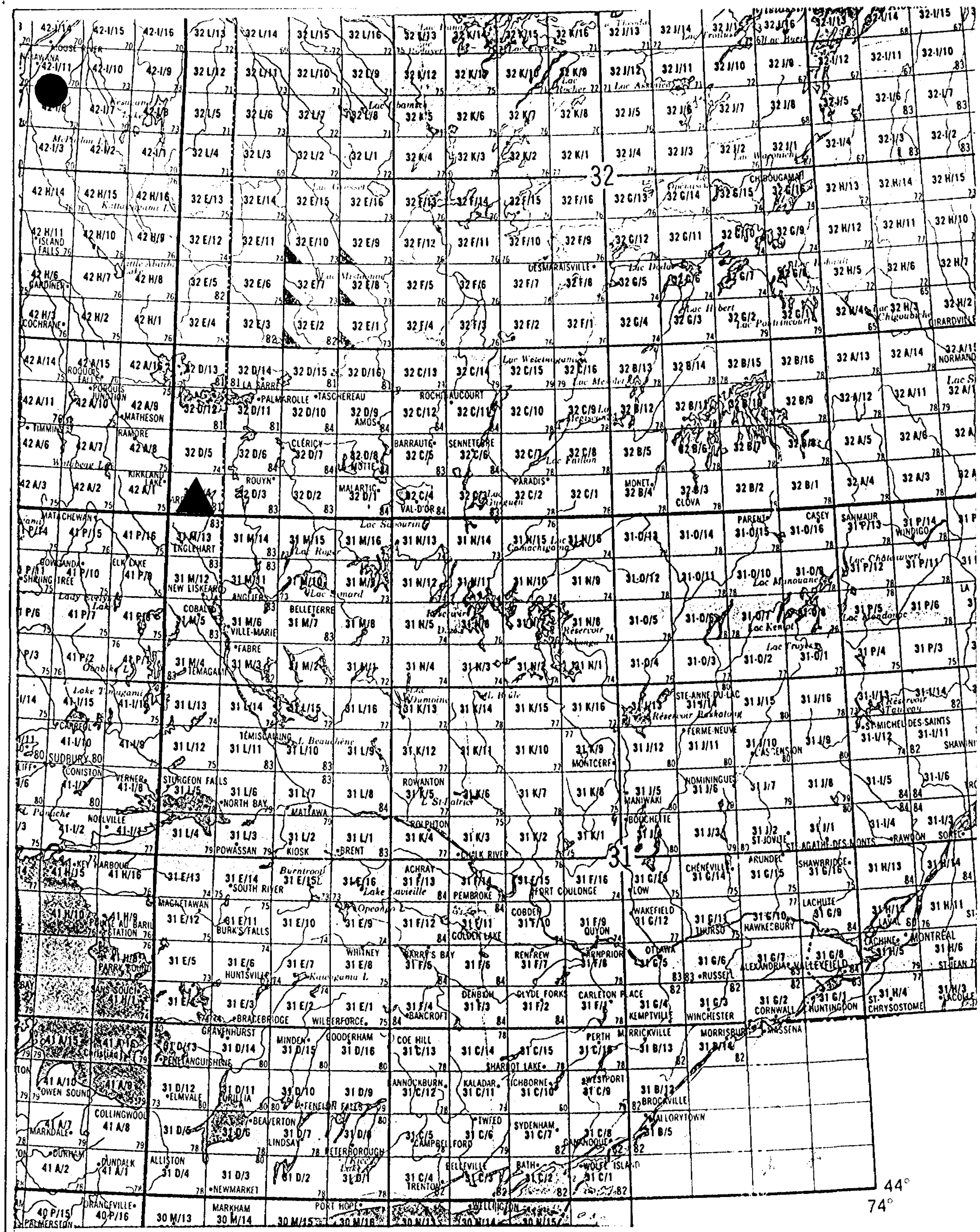

FIGURE 1. General Location

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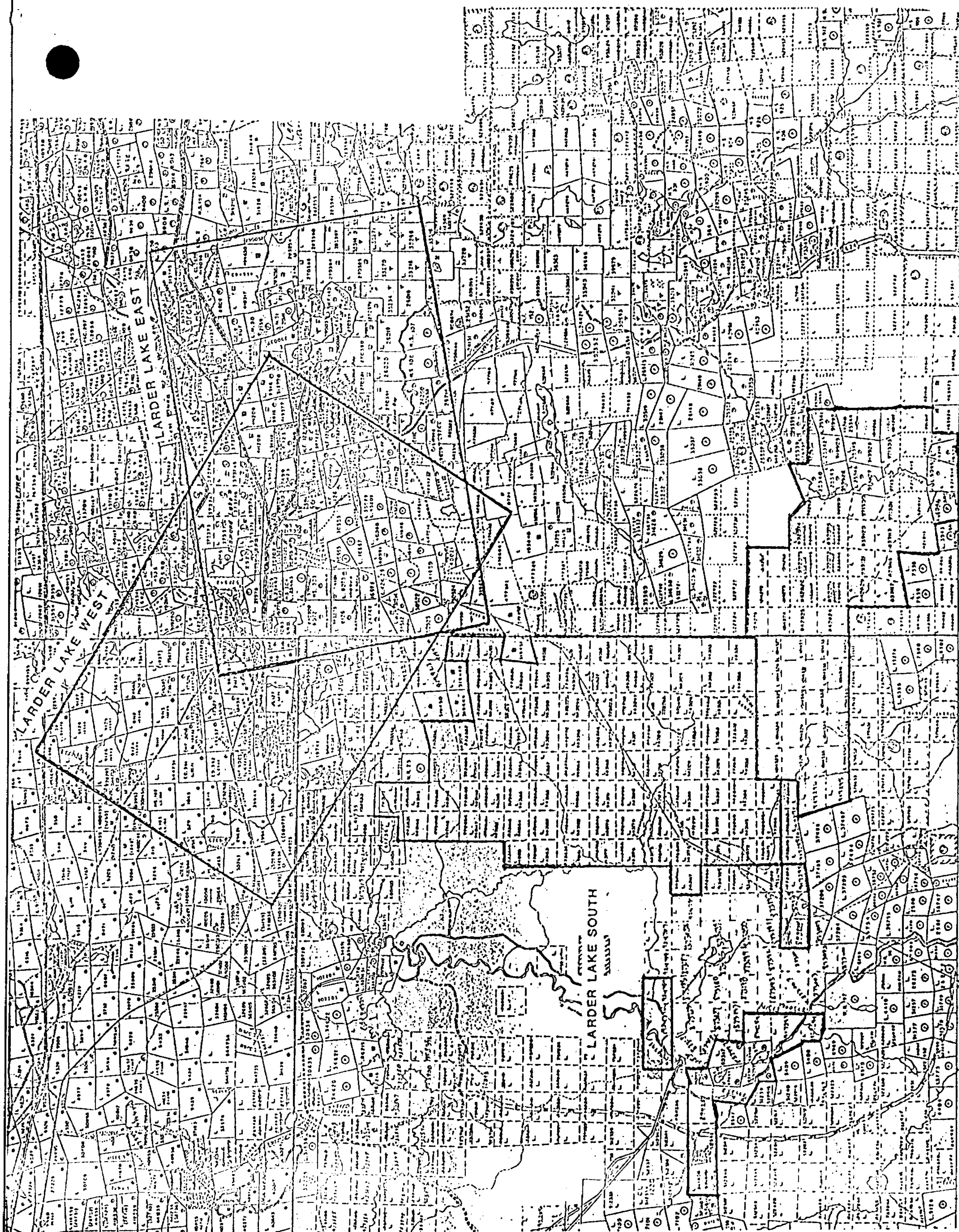

FIGURE 2 Claim Location Map
(exact locations not certified)

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LARDER LAKE SOUTH (A-731.3)

The Larder Lake South property is located in Hearst and McElroy townships, in the Larder Lake Mining Division of Ontario approximately 4 kilometres southwest of the town of Larder Lake. The property is crossed by numerous bush roads.

The latitude and longitude are 48 degrees 03 minutes, and 79 degrees 46 minutes respectively, and the N.T.S. reference is 32D/4.

The survey area is shown in figure 2 and the claims are listed below:

L	740036-740037	(2)
	980091-980114	(24)
	980117-980138	(22)
	980142-980165	(24)
	980167	(1)
	980171-980191	(21)
	✓924789-924791	(3)
	✓917299	(1)
	✓893024	(1)
	889138	(1)
	512342	(1)
	✓894250-894252	(3)
	✓894254	(1)
	✓857996-857999	(4)
	✓857993-857994	(2)
	341405	(1)
	✓917293-917294	(2)
	✓917295-917296	(2)
	✓1014324-1014342	(19)
	✓1014266-1014269	(4)
	✓1044272-1044275	(4)
	842824-842826	(2)
	✓842829	(1)
	✓858117-858121	(5)
	✓892071-892075	(5)
	✓9711300-9711303	(4)
	921911-921917	(7)
	✓982901-982902	(2)
	✓982904-982905	(2)
	25340-25346	(7)
	(919924-919928)	(repeat) ... Total 178 claims

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3. GEOLOGY

Map References

1. Map 32E: Kirkland Lake Area. scale 1:31,680. O.D.M. 1923.
2. Map 33B: Larder Lake Area. scale 1:47,520. O.D.M. 1924.
3. Map 1947-1: Township of Hearst. scale 1:12,000. O.D.M. 1947.
4. Map 1950-3: Township of McElroy. scale 1:12,000. O.D.M. 1950.
5. Map 2205: Timmins-Kirkland Lake, Geological Compilation Series. scale 1:253,440. O.D.M. 1973.

All three survey areas are underlain predominantly by clastic metasediments and mafic to intermediate metavolcanics trending to the east. The clastic metasediments (formerly known as the Timiskaming Sediments) are isoclinally folded and are represented by conglomerate, greywacke, siltstone, slate and argillite. These are host to iron formation toward the north. Minor alkalic metavolcanics trend east-west along the northern edge of the survey area.

These rocks have been intruded by felsic intrusives represented by syenite, monzonite and feldspar-porphyry and by mafic intrusives represented by gabbro, diorite and lamprophyre. A narrow unit of ultramafic intrusives trends to the northwest along the southern edge of the survey area.

The dominant structural features trend to the northeast, northwest and east-west. The Larder Lake Fault system trends irregularly across the survey area just north of the town of Larder Lake.

The survey area hosts numerous gold showings and three past producing mines, the Raven River Mine, Canadian Associated Gold Fields Mine and the Crown Reserve Mine all immediately north of the town of Larder Lake. Most of the gold mineralization appears to be structurally controlled along or close to the Larder Lake Fault in carbonate veins without significant sulphides. Copper, nickel, zinc, lead and asbestos mineralization occurs to the south and are associated with the intrusive rocks.

4. SURVEY SPECIFICATIONS

4.1 Instruments

The survey was carried out using a Cessna 182 aircraft, registration C-FAKK, which carries a magnetometer and a VLF electromagnetic detector.

The magnetometer is a proton precession type based on the Overhauser effect. The Overhauser effect allows for polarization of a

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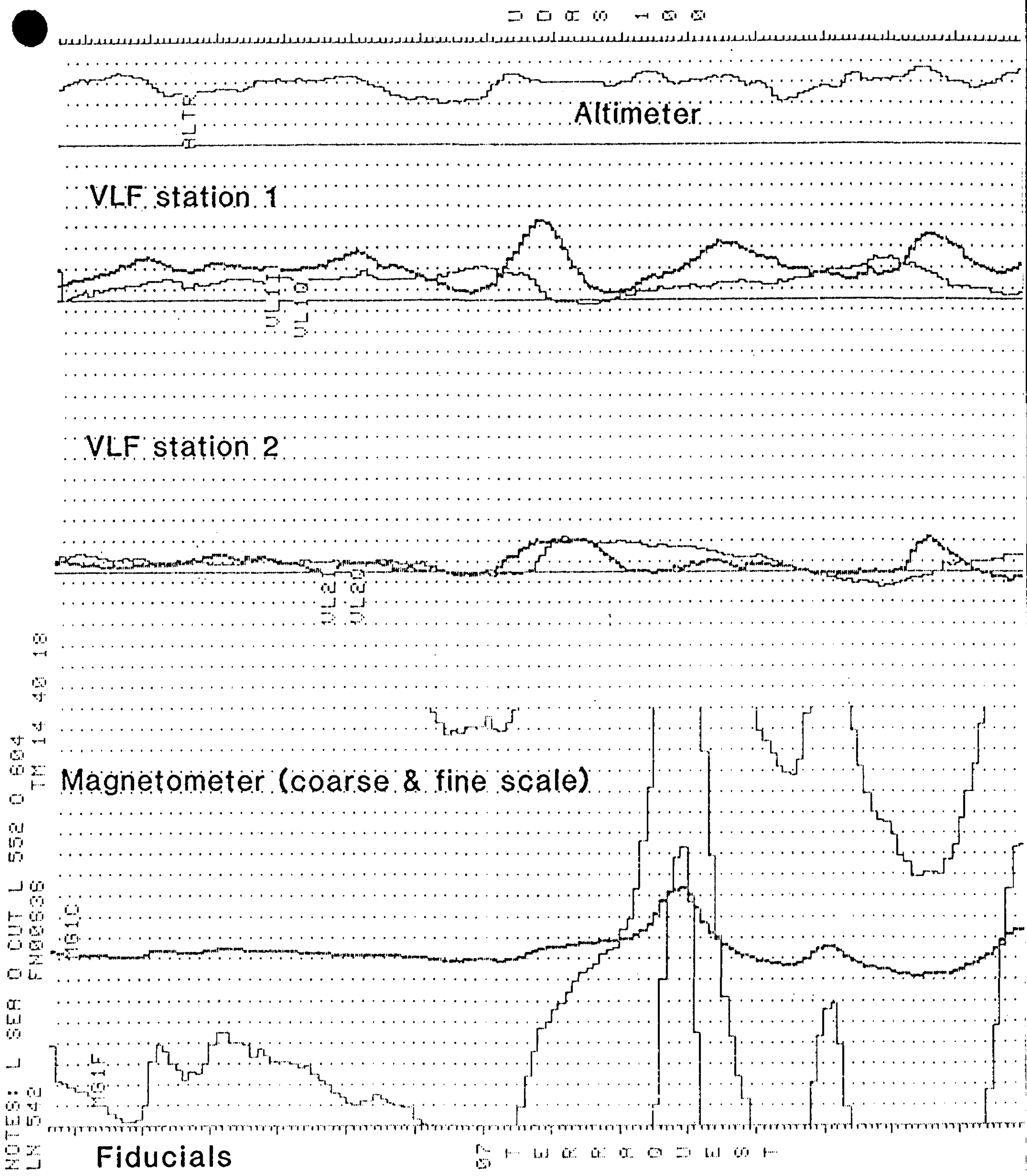

FIGURE 3. Sample of analogue data

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proton rich liquid of the sensor by adding a "free radical" to it and irradiating it by RF magnetic field. Strong precession signals are generated with modest RF power. The sensor element is mounted in an extension of the right wing tip. It's specifications are as follows:

Resolution:	0.5 gamma
Accuracy:	0.5 gamma
Cycle time:	0.5 second
Range:	20,000 - 100,000 gammas in 23 overlapping steps
Gradient tolerance:	Up to 5000 gammas per metre
Model:	GSM-9BA
Manufacturer:	GEM Systems Inc., 105 Scarsdale Rd., Don Mills, Ontario, M3B 2R5

The VLF-EM unit uses three orthoganol detector coils to measure (a) the total field strength of the time-varying EM field and (b) the phase relationship between the vertical coil and both the "along line" coil (LINE) and the "cross-line" coil (ORTHO). The LINE coil is tuned to a transmitter station that is ideally positioned at right angles to the flight lines, while the ORTHO coil transmitter should be in line with the flight lines. It's specifications are:

Accuracy:	1%
Reading interval:	1/2 second
Model:	TOTEM 2A
Manufacturer:	Herz Industries, Toronto

The VLF sensor is mounted in the left wing tip extension.

Other instruments are:

- King KRA-10A Radar altimeter
- UDAS-100 data processor with Digidata nine track tape recorder, manufactured by Urtec Ltd., Markham, Ontario.
- Geocam video camera and recorder for flight path recovery, manufactured by Geotech Ltd., Markham, Ontario.

4.2 Lines and Data

LARDER LAKE WEST (A-731.1)

a) Line spacing:	100 metres
b) Line direction:	030 degrees
c) Terrain clearance:	100 metres
d) Average ground speed:	156 km/hr.
e) Data point interval:	
Magnetic:	27 metres
VLF-EM:	27 metres
f) Tie Line interval:	2 kilometres
g) Channel 1 (LINE):	NAA Cutler, 24.0 kHz

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h) Channel 2 (ORTHO): NAA Cutler, 24.0 kHz
i) Line km over survey area: 306 line km

LARDER LAKE EAST (A-731.2)

a) Line spacing: 200 metres
b) Line direction: 350 degrees
c) Terrain clearance: 100 metres
d) Average ground speed: 156 km/hr.
e) Data point interval:
Magnetic: 27 metres
VLF-EM: 27 metres
f) Tie Line interval: 2 kilometres
g) Channel 1 (LINE): NLK Seattle, 24.8 kHz
h) Channel 2 (ORTHO): NSS Annapolis, 21.4 kHz
i) Line km over survey area: 155 line km

LARDER LAKE SOUTH (A-731.3)

a) Line spacing: 100 metres
b) Line direction: 315 degrees
c) Terrain clearance: 100 metres
d) Average ground speed: 193 km/hr.
e) Data point interval:
Magnetic: 11 metres
VLF-EM: 11 metres
f) Tie Line interval: 2 kilometres
g) Channel 1 (LINE): NAA Cutler, 24.0 kHz
h) Channel 2 (ORTHO): NLK Seattle, 24.8 kHz
i) Line km over survey area: 580 line km
j) Line km over claim groups: 362 km

4.3 Tolerances

a) Line spacing: Any gaps wider than twice the line spacing and longer than 10 times the line spacing were filled in by a new line.
b) Terrain clearance: Portions of line which were flown above 125 metres for more than one km were reflown if safety considerations were acceptable.
c) Diurnal magnetic variation: Less than twenty gammas deviation from a smooth background over a period of two minutes or less as seen on the base station analogue record.
d) Manoeuvre noise: Approximately +/-5 gammas.

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4.4 Photomosaics

For navigating the aircraft and recovering the flight path, semi-controlled mosaics of aerial photographs were made from existing air photos. Each individual photograph was photographically adjusted to conform to the NTS map system before the mosaic was assembled.

5. DATA PROCESSING

Flight path recovery was carried out in the field using a video tape viewer to observe the flight path as recorded by the Geocam video camera system. The flight path recovery was completed daily to enable reflights to be selected where needed for the following day.

The magnetic data was levelled in the standard manner by tying survey lines to the tie lines. The IGRF has not been removed. The total field was contoured by computer using a program provided by Dataplotting Services Inc. To do this the final levelled data set is gridded at a grid cell spacing of 1/10th of an inch at map scale.

The vertical magnetic gradient is computed from the total field data using a method of transforming the data set into the frequency domain, applying a transfer function to calculate the gradient, and then transforming back into the spatial domain. The method is described by a number of authors including Grant, 1972 and Spector, 1968. The computer program for this purpose is provided by Paterson, Grant and Watson Ltd. of Toronto

The VLF data was treated automatically so as to normalize the non conductive background areas to 100 (total field strength) and zero (quadrature). The algorithms to do this were developed by Terraquest and will be provided to anyone interested by application to the company.

All of these dataprocessing calculations and map contouring were carried out by Dataplotting Services Inc. of Toronto.

Grant, F.S. and Spector A., 1970: Statistical Models for Interpreting Aeromagnetic Data; Geophysics, Vol 35

Grant, F.S., 1972: Review of Data Processing and Interpretation Methods in Gravity and Magnetics; Geophysics Vol 37-4

Spector, A., 1968: Spectral Analysis of Aeromagnetic maps; unpublished thesis; University of Toronto

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INTERPRETATION

6.1 General Approach

To satisfy the purpose of the survey as stated in the introduction, the interpretation procedure was carried out on both the magnetic and VLF data. On a local scale the magnetic gradient contour patterns were used to outline geological units which have different magnetic intensity and patterns or "signatures". Where possible these are related to existing geology to provide a geological identity to the units. On a regional scale the total field contour patterns were used in the same way.

Faults and shear zones are interpreted mainly from lateral displacements of otherwise linear magnetic anomalies but also from long narrow "lows". The direction of regional faulting in the general area is taken into account when selecting faults. Folding is usually seen as curved regional patterns. Alteration zones can show up as anomalously quiet areas, often adjacent to strong, circular anomalies that represent intrusives. Magnetic anomalies that are caused by iron deposits of ore quality are usually obvious owing to their high amplitude, often in tens of thousands of gammas.

VLF anomalies are categorized according to whether the phase response is normal, reverse, or no phase at all. The significance of the differing phase responses is not completely understood although in general reverse phase indicates either overburden as the source or a conductor with considerable depth extent, or both. Normal phase response is theoretically caused by surface conductors with limited depth extent.

Areas showing a smooth response somewhat above background (ie. 110 or so) are likely caused by overburden which is thick enough and conductive enough to saturate at these frequencies. In this case no response from bedrock is seen.

The VLF-EM conductor axes have been identified and evaluated according to the Terraquest classification system (Figure 4). This system correlates the nature and orientation of the conductor axes with stratigraphic, structural and topographic features to obtain an association from which one or more origins may be selected. Alternate associations are indicated in parentheses.

6.2 Interpretation

The magnetic and VLF-EM data are shown in contoured format on maps in the back pocket. An interpretation map is also provided. The following notes are intended to supplement these maps.

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FIGURE 4

TERRAQUEST CLASSIFICATION OF VLF-EM CONDUCTOR AXES

SYMBOL	CORRELATION	ASSOCIATION: Possible Origins
a , A	Coincident with magnetic stratigraphy	Bedrock magnetic horizons: stratabound mineralogic origin or shear zone
b , B	Parallel to magnetic stratigraphy	Bedrock non-magnetic horizons: stratabound mineralogic origin or shear zone
c , C	No correlation with magnetic stratigraphy	Association not known: possible small scale stratabound mineralogic origin, fault or shear zone, overburden
d , D	Coincident with magnetic dyke	Dyke or possible fault: mineralogic or electrolytic
f , F	Coincident with topographic lineament or parallel to fault system	Fault zone: mineralogic or electrolytic
ob , OB	Contours of total field response conform to topographic depression	Most likely overburden: clayey sediments, swampy mud
cul , CUL	Coincident with cultural sources	Electrical, pipe or railway lines

NOTES

1 - Upper case symbols denote a relatively strong total field strength

2 - Underlined symbols denote a relatively strong quadrature response

3 - Mineralogic origins include sulphides, graphite, and in fault zones, gouge

4 - Electrolytic origins imply conductivity related to porosity or high moisture content

LARDER LAKE WEST AND EAST SURVEY AREAS (A-731.1 AND A-731.2)

The Larder Lake East and West survey areas were flown at approximately 40 degrees to each other. Contouring programs used to show the data in map format are based on x-y coordinates orthogonal to the flight line direction. In order to merge the data from the two areas the chosen x-y coordinates of the final plot would be orthogonal to either one of the grids or to some average of the two grids. In either case, it would be difficult to identify any orientation bias within the merged presentation. Instead, the two areas have been individually contoured and interpreted according to their own flight path directions. For the most part the trends are similar, minor variations occur where the magnetic trends are parallel to the flight line. In these cases, the preferred interpretation should be taken from the data set that crosses the magnetic trends at the highest angle. The following text encompasses the east and west survey areas.

The total magnetic field has a relief of approximately 1,500 gammas and shows the general trend of the lithologies. The vertical magnetic gradient data improves the resolution of the magnetic anomalies and has been used to delineate the stratigraphy and structure.

The mafic to intermediate metavolcanics (Unit 1) correlate with a complex, arcuate band of moderate to strong magnetic responses. Magnetic horizons (Unit 1m) within this unit are probably related to increased concentrations of iron bearing minerals such as pyrrhotite or magnetite or possibly to more mafic compositions including minor intrusives.

Exposures of mafic intrusives (Unit 8) to the west and east correlate with strong magnetic responses and in part appear to be stratigraphically continuous with the magnetic members of the mafic to intermediate metavolcanics.

The Banded Iron Formation north of Larder Lake correlates well with strong magnetic responses. The interpreted width is probably exaggerated due to the overwhelming effect often associated with bodies of high magnetic susceptibilities. The interpretation of this horizon is not consistent on the overlap area between the east and west survey blocks. The interpretation over the eastern block is preferred as the flight lines cross the body at a much steeper angle. Enhancement of this horizon by the calculated vertical magnetic gradient map suggests that the iron formation extends to the west across the western survey block.

The felsic intrusives (Unit 9) correlate with moderate magnetic

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responses. Both interpretation maps suggest that the felsic intrusive beneath the town of Larder Lake is semi-conformable and extends westward as several discrete parallel horizons. The north-south trending anomaly near Diamond Lake is interpreted to be a felsic dyke extending soyhwards from the plug to the north.

Exposures of the alkalic metavolcanics (Unit 4) correlate with moderate to weak magnetic responses. It would probably be difficult to discriminate this lithology by magnetic mapping where they occur next to magnetically active lithologies.

The clastic metasediments (Unit 6) correlate with weak magnetic responses which are generally overwhelmed by responses from the adjacent lithologies. Any magnetic responses within this unit are interpreted to be derived from intercalated metavolcanics.

Magnetically interpreted faults trend to the northeast and northwest and a few to the east. The Larder Lake Fault can be detected readily to the west as it follows the metasedimentary - metavolcanic contact. In the overlap area and toward the east the fault can best be identified by a weak magnetic trough. Both these interpretation maps suggest that the Larder Lake Fault may be a reactivation along the combined system of an east-west fault and a northeast fault system. Together these impart an en echelon form to the Larder Lake Fault at a detailed scale and a sinusoidal form at larger scales on regional maps.

The VLF-EM data shows numerous weak to moderate strength conductor axes and several strong conductive zones. Cultural sources such as power lines, roads and built up areas show moderate to strong responses. Conductor axes related to conductive overburden appear to be restricted to river valleys, swamps, small lakes and the edges of the Southwest Arm of Larder Lake.

Most of the conductor axes that cross magnetic stratigraphy are interpreted to be related to structure, either faults or shear zones. These suggest that there are considerably more east and southeast trending faults than shown on the magnetic interpretation map. Note that any faults trending to the northeast possess poor coupling with both the Cutler and Seattle transmitters. Conductivity associated with structural sources may be related to: a) minerals such as gouge, sulphides or graphite along the structure, or b) an ionic effect created by water or porosity along the structure or to clay in an overlying topographic depression. Those parallel to known quartz carbonate veins should be investigated for their gold potential.

Those conductor axes that coincide with or are parallel to the magnetic stratrigraphy possess potential for bedrock stratabound

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sources. These sources include sulphides and graphite and should be followed up on the ground using EM or IP methods. Of particular interest are the iron formations with good VLF-EM responses and several of the magnetically active mafic to intermediate metavolcanics to the south.

LARDER LAKE SOUTH (A-731.3)

The total magnetic field has a very large relief of over 7,000 gammas and shows two major anomalies trending to the northwest, one at the north and one at the south end of the survey area and one extremely large anomaly trending to the northeast across the centre of the survey area. The vertical magnetic gradient improves the resolution of these anomalies and enhances subtle magnetic trends in the magnetically quiet areas.

The strong northeast trending anomaly has a maximum relief of approximately 6,000 gammas and correlates with outcrops of gabbro, diorite and lamprophyre (Unit 8). Outcrops of this rock suite also occur to the southwest and southeast and correlate with moderately strong magnetic responses. The exposures of serpentinite (Unit 7) to the southwest, correlate with very strong responses with a relief of approximately 2,000 gammas. Exposures of serpentinite in the south central portion of the survey area also correlate with strong magnetic responses. The magnetically interpreted widths of all these rock types with high magnetic responses are prone to exaggeration, a feature commonly associated with high magnetic susceptibilities.

The felsic intrusives correlate with weak to moderate strength magnetic responses, shown as Unit 9 and 9m respectively on the interpretation map. These different magnetic levels are probably related to compositional differences. The 9m unit in the southeast corner of the survey area correlates with exposures of syenite porphyry and are interpreted to possess increased concentrations of magnetite or pyrrhotite. The large felsic intrusive complex in the vicinity of Misema River is characterized by concentric rings of alternating high and low magnetic responses. It is speculated that these rings are caused by either magmatic variations or periodic physio-chemical cycles during crystallization.

The mafic to intermediate metavolcanics (Unit 1) correlate with moderate magnetic responses throughout most of the survey area. The stronger responses to the northeast, designated as Unit 1m on the interpretation map, may be derived from increased concentrations of magnetite or pyrrhotite or possibly more mafic compositions including semi-conformable mafic intrusives.

All the clastic metasediments within the survey area (Unit 6)

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correlate with weak magnetic responses, and are interpreted to impart an insignificant magnetic response. Any responses that do correlate with the clastic metasediments are interpreted to be derived from either underlying or intercalated metavolcanics or intrusives.

Magnetically interpreted faults trend to the northwest, northeast and east-west, many correlating with topographic features. The interpretation over the northern part of the survey suggests that there are at least two generations of northeast trending faults. The major west-northwest trending fault along the northern edge of the serpentinite along the southern part of the survey area does not show well on the magnetic map as it is parallel to the magnetic stratigraphy.

The VLF-EM data shows numerous weak to moderate and several strong conductor axes. Most of these show a preferred orientation to the east-southeast, biased by the Cutler transmitter direction. Most of the broad poorly defined conductive zones coincide with swampy areas, lakes or recessive lithology and are probably related to conductive, clayey overburden. The quadrature responses of conductor axes that are parallel to the flight lines become meaningless and therefore are shown as conductors with insignificant quadrature response.

Those conductor axes that are oblique to the magnetic stratigraphy and are characterized by sharp outlines are interpreted to possess structural origins, either as fault or shear zones. North and northeast trending structures do not couple well with the Cutler transmitter therefore their relative intensity may be greater than indicated by this set of data.

A few conductor axes are coincident with magnetic stratigraphy and therefore possess potential for stratabound bedrock sources such as graphite or sulphides. These warrant further investigation and should be followed up on the ground using EM or IP methods. Of particular interest are the conductor axes that coincide with the mafic intrusives to the southwest and to the mafic metavolcanics to the northeast.

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7. SUMMARY

An airborne combined magnetic and VLF-EM survey has been done on three survey areas at line intervals of 100 metres on two areas and 200 metres on the East block. The total field and vertical gradient magnetic data, VLF-EM data and interpretation maps are produced at a scale of 1:10,000.

The magnetic data has been used to modify and update the existing geology and has shown a number of new contacts and faults. A number of VLF-EM conductor axes were found of which most are associated with structural origins and a few are believed to have potential sulphide origins and have been recommended for additional investigation.

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GEOLOGICAL ASSOCIATION OF CANADA
CHARLES Q. BARRIE
FELLOW

Charles Q. Barrie, M.Sc.
Geologist

Dual
2.8305

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Land Management

Ministry of Northern Development and Mines
Ontario

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

W8708-436 2.10719 Mi

32D04SE0014 2.10719 MCVITTIE 900

Type of Survey(s): Airborne Magnetometer & EM	Township or Area: Gauthier, McVittie
Claim Holder(s): R.A. MacGregor; Skead Holdings Ltd.	Prospector's Licence No.: K-15070; T-1956
Address: c/o P.O. Box 1110, Sault Ste. Marie, Ontario P6A 5N7	
Survey Company: Terraquest Ltd.	Date of Survey (from & to): 24 10 87 – 30 10 87
Total Miles of line Cut:	
Name and Address of Author (of Geo-Technical report): C.O. Bar?y, 121 Richmond St. West, Toronto, Ontario	

Credits Requested per Each Claim in Columns at right

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

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

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

RECEIVED DEC 1 1988 MINING LANDS SECTION

LARDER LAKE MINING DIVISION RECEIVED NOV 4 1987 10.00am

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Number	Expend. Days Cr.	Mining Claim Prefix	Number	Expend. Days Cr.
	SEE ATTACHED LIST				

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES RESEARCH OFFICE FEB 1 1988 RECEIVED

Total number of mining claims covered by this report of work: 86

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
6400 / 6320	Nov 4/87	for J. B...
	Date Approved as Recorded: 28 Jan 88	Branch Director

Date: Oct. 30/87 — 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/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: R.A. MacGregor, c/o P.O. Box 1110, Sault Ste. Marie, Ont. P6A 5N7

Date Certified: Oct. 30/87 — Certified by (Signature): [signature]

1362 (85/12) copies sent Nov. 12/87 BIKC

AIRBORNE MAGNETOMETER & EM SURVEY

LIST OF CLAIMS

* Now at Maximum of 80 days Geophysical

GEOPHYSICAL AIRBORNE

* L667832 ✓ 25 EM 25 MAG	L979566 ✓	L1014271 ✓
* 667833 ✓ 15 EM 15 MAG	980319 ✓	1014272 ✓
* 736729 10 EM 10 MAG	980385 ✓	1014273 ✓
* 736730 ✓ 10 EM 10 MAG	980386 ✓	1014274 ✓
* 736731 ✓ 10 EM 10 MAG	980387 ✓	1014275 ✓
* 736732 ✓ 10 [illegible] 10 MAG	980388 ✓	1014323 ✓
* 760496 10 [illegible] 10 MAG	980395 ✓	1014324 ✓
* 800064 ✓ 10 [illegible] 10 [illegible]	980396 ✓	1014325 ✓
* 821910 ✓ 10 EM 10 MAG	980400 ✓	1014326 ✓
* 821928 10 [illegible] 10 [illegible]	981875 ✓	1014327 ✓
859823 ✓	981993 ✓	1014328 ✓
892019 ✓	981994 ✓	1014329 ✓
892020 ✓	981995 ✓	1014330 ✓
892246 ✓	981998 ✓	1014331 ✓
893730 ✓	981996 ✓	1014332 ✓
893731 ✓	982373 ✓	1014333 ✓
917318 ✓	983351 ✓	1014334 ✓
919850 ✓	983352 ✓	1014335 ✓
919851 ✓	983353 ✓	1014336 ✓
919852 ✓	983354 ✓	1014337 ✓
919853 ✓	983355 ✓	1014338 ✓
919854 ✓	983356 ✓	1014339 ✓
919855 ✓	983357 ✓	1014340 ✓
919919 ✓	983358 ✓	1014341 ✓
919920 ✓	1014268 ✓	1014342 ✓
919921 ✓	1014269 ✓	1014686 ✓
919922 ✓	1014270 ✓	1014687 ✓
919923 ✓	982757 ✓	1014688 ✓
		1014689 ✓
		1014694 ✓
		1014695 ✓

LARDER LAKE MINING DIVISION
RECEIVED
NOV 4 1987
10.00am

Land Management

Ministry of Northern Development and Mines — Ontario

ADDITION TO Report of Work #436/87
(Geophysical, Geological, Geochemical and Expenditures)

W8708-436

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): Airborne Magnetometer & EM

Township or Area: ~~Gauthier, McVittie~~ Hearst, McElroy

Claim Holder(s): R.A. MacGregor, Skead Holdings Ltd.

Prospector's Licence No.: K-15070, T-1956

Address: c/o P.O. Box 1110, Sault Ste. Marie, Ontario P6A 5N7

Survey Company: Terraquest Ltd.

Date of Survey (from & to): 24 10 87 (Day Mo. Yr.) – 30 10 87 (Day Mo. Yr.)

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): C. Barry, 121 Richmond St. West Toronto, Ontario M5H 2K1

RECEIVED JAN 19 1988 MINING LANDS SECTION

RECEIVED JAN 11 1988 9.50am

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	

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
L 821918 received -30 -EM -30 MAG. W AT MAXIMUM OF 80 DAYS. Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Number	Expend. Days Cr.
*L	821918 30 30	
	924787	
	924788	
	1014690	
	1014691	

Total number of mining claims covered by this report of work: 5

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: 380	Date Recorded: Jan. 11/88	Mining Recorder: [signature]
	Date Approved as Recorded: 18 March 88	Branch Director: [signature]

Date: Jan. 6/88 — 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/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: R.A. MacGregor, c/o P.O. Box 1110, Sault ste. Marie, Ontario P6A 5N7

Date Certified: Jan. 6/88 — Certified by (Signature): [signature]

Ministry of Northern Development and Mines
Ontario

Land Management

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

437/87

W8708-437

Mining Act 2.10719

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.

Dec. 24

Type of Survey(s): Airborne Magnetometer & EM

Township or Area: Hearst & McElroy

Claim Holder(s): R.A. MacGregor / L. Lacasse, R. Kosy, G. Kosy

Prospector's Licence No.: K-15070 K18234, K19754, & K1994

Address: c/o P.O. Box 1110, Sault Ste. Marie, Ontario P6A 5N7

Survey Company: Terraquest Ltd.

Date of Survey (from & to): 24 10 87 30 10 87

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): C.Q. Barry, 121 Richmond St. West, TORONTO, Ontario

Credits Requested per Each Claim in Columns at right

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

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

RECEIVED NOV 4 1987 10.00am

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

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.

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.
	SEE ATTACHED SHEET				

RECEIVED NOV 09 1987 MINING LANDS SECTION

Total number of mining claims covered by this report of work: 66

Date	Recorded Holder or Agent (Signature)
Oct. 30/87	[signature]

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
5140	Nov. 4/87	[signature] for
	Date Approved as Recorded: 18 March 88	Branch Director: [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: R.A. MacGregor, c/o P.O. Box 1110, Sault Ste. Marie, Ont. P6A 5N7

Date Certified	Certified by (Signature)
Oct. 30/87	[signature]

AIRBORNE MAGNETOMETER & EM SURVEY

* MAXIMUM OF 80 DAYS GEOPHYSICAL NOW RECORDED.

LIST OF CLAIMS

* L821911 30 Airborne EM, 30 Airborne MAG
* 821912 " "
* 821913 " "
* 821914 " "
* 821915 " "
* 821916 " "
* 821917 " "
842829
857993
857994
857996
857997
857998
857999
859117
859118
859119
859120
859121
859138
892071
892072
892073
892074
892075

L893824
894250
894251
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894254
917293
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917296
917297
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917299
919924
919925
919926
919927
919928
924783
924784
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924786
924789
924790
924791
971300

L971301
971302
971303
982901
982902
982903 ?
982904
982905
982906
982907
982908
982909 ? — Filed Only Oct. 1/87
982910
1014266
1014267
990392

RECEIVED
NOV 4 1987
10.00am

Ministry of Northern Development and Mines

Ontario

Land Management

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. W8808 · 112

2.10119

April 26

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
Airborne Magnetometer / VLF	McElroy Township

Claim Holder(s)	Prospector's Licence No.
Legacy Explorations Ltd.	T4601

Address: 27 Queen St. East, Suite 402, Toronto, Ont. M5C 2M6

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Terraquest Ltd.	20 (Day) 10 (Mo.) 87 (Yr.) – 26 (Day) 10 (Mo.) 87 (Yr.)	

Name and Address of Author (of Geo-Technical report): Charles Barrie

Credits Requested per Each Claim in Columns at right

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

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

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

RECEIVED MAR 7 1988 10:45 am

RECEIVED APR 5 1988 MINING LANDS SECTION

GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE MAY 6 1988 RECEIVED

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures				Total Days Credits
$	÷	15	=	

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.

Date	Recorded Holder or Agent (Signature)
March 4/88	Peter C. Hubacheck

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	980091		L	980114	
	980092			980117	
	980093			980118	
	980094			980119	
	980095			980120	
	980096			980121	
	980097			980122	
	980098			980123	
	980099			980124	
	980100			980125	
	980101			980126	
	980102			980127	
	980103			980128	
	980104			980129	
	980105			980130	
	980106			980131	
	980107			980132	
	980108			980133	
	980109			980134	
	980110			980135	
	980111			980136	
	980112			980137	
	980113			980138	

Total number of mining claims covered by this report of work: 92

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
7360	March 7/88	M. A. Weirmeir
	Date Approved as Recorded	Branch Director
	5 May 88	[illegible 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

L980142
980143
980144
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980148
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980191

W. A. HUBACHECK CONSULTANTS LTD.
141 ADELAIDE ST. WEST
SUITE 603
TORONTO, ONTARIO
M5H 3L5
(416) 364-2895
FAX (416) 364-5384

W. A. HUBACHECK, B.SC., P.ENG.
RESIDENCE
(416) 845-2954

P. C. HUBACHECK, P.GEOL.
RESIDENCE
(416) 822-6150

July 25, 1989

Mr. A. Barr,
Mineral Development and Lands Branch,
880 Bay St., Third Floor
Toronto, Ont.
M5S 1Z8

Dear Mr. Barr:

Legacy Exploration Ltd. recorded an Airborne Magnetometer/VLF Survey January 13, 1988 (File No. 2.10719) on a group of 92 claims in McElroy Township. This survey covered a large area outside this claim group. Since the survey was flown, Sudbury Contact Mines Ltd. has optioned the 92 claim group from Legacy Exploration and staked a new group of contiguous claims (21 claims) numbered as follows:

L1041466 - L1041486 inclusive, also in McElroy Township.

As discussed over the phone with you on July 25th, we would like to apply the Airborne Geophysical Survey to the new claim group if at all possible, to receive assessment credits.

Yours truly,

David Christie

DAVID W. CHRISTIE
Project Geologist
for Sudbury Contact Mines Ltd.

DWC/ber

W. A. HUBACHECK CONSULTANTS LTD.

199 BAY STREET
SUITE 1110
TORONTO, ONTARIO
M5J 1L4

RESIDENCE
(416) 845-2954

BUSINESS
(416) 364-2895

RECEIVED

APR 5 1988

MINING LANDS SECTION

March 4, 1988

Mining Recorder,
Ministry of Northern Development and Mines
4 Government Road, East,
Kirkland Lake, Ont.
P2N 1A2

Dear Sirs:

Please find enclosed a report of work for Legacy Explorations Ltd., concerning airborne magnetic and VLF surveys in the Larder Lake area. The assessment report coded as A-731 submitted by Terraquest Ltd. has already been forwarded to Queen's Park. In communications with Frances, I informed her that the work credits will be assigned to three separate parties namely R.A. MacGregor, Skead Holdings and Legacy Explorations.

Mr. R. MacGregor has already submitted a report of work. However, we have delayed Legacy's report of work until the transfer of mining claims was completed.

Thank you.

Sincerely,

Peter C. Hubacheck

PETER C. HUBACHECK

PCH/ber

MAR 7 1988
10:45 am

Mining Lands Section
3rd Floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

August 15, 1989

File: 2.10719

REGISTERED

Sudbury Contact Mines Ltd.
603-141 Adelaide Street W.
Toronto, Ontario
M5H 3L5

Dear Sir:

RE: Airborne Geophysical Certificate on Mining Claims:
L 1041466 to 486 inclusive in McElroy Township.

Enclosed is an Airborne Geophysical Certificate issued under Section 78 of the Mining Act R.S.O. 1980.

It is your responsibility to file this certificate with the mining recorder no later than sixty (60) days from the date of issue of the certificate.

Upon recording of this certificate the time for performing the first and all subsequent periods of work for claims listed shall fall due one year later than the times prescribed in subsection 1 of Section 76.

Yours sincerely

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

LS:eb
Enclosure

cc: Mining Recorder
Kirkland Lake, Ontario

Ministry of Northern Development and Mines
Ontario

Airborne Geophysical Certificate

Mining Act

This is to certify that Sudbury Contact Mines Ltd. has met the requirements of Section 78 of the Mining Act, with respect to the following mining claims in the Township (or XXXXX) of McElroy.

Mining Claims (Please list)

L 1041466 to 486 incl.

Date	Provincial Mining Lands Mgr.
August 16, 1989	[signature]

1332 (85/12)

R. A. MACGREGOR, P.ENG.
MINING ENGINEER
SAULT STE. MARIE, ONTARIO

P.O. BOX 1110
SAULT STE. MARIE
ONTARIO P6A 5N7

OFFICE:
705-949-5928
HOME:
705-949-4250

Dec. 30, 1987

Mining Recorder

Ministry of Northern Development & Mines
4 Government Rd. East
KIRKLAND Lake, Ontario
P2N 1A2

Dear Sir:

In checking Report of Work for Airborne Survey 436/87 it was noted that claim L919921 was inadvertently omitted from the list of claims.

Would you please have this claim added to the claim list of this work report.

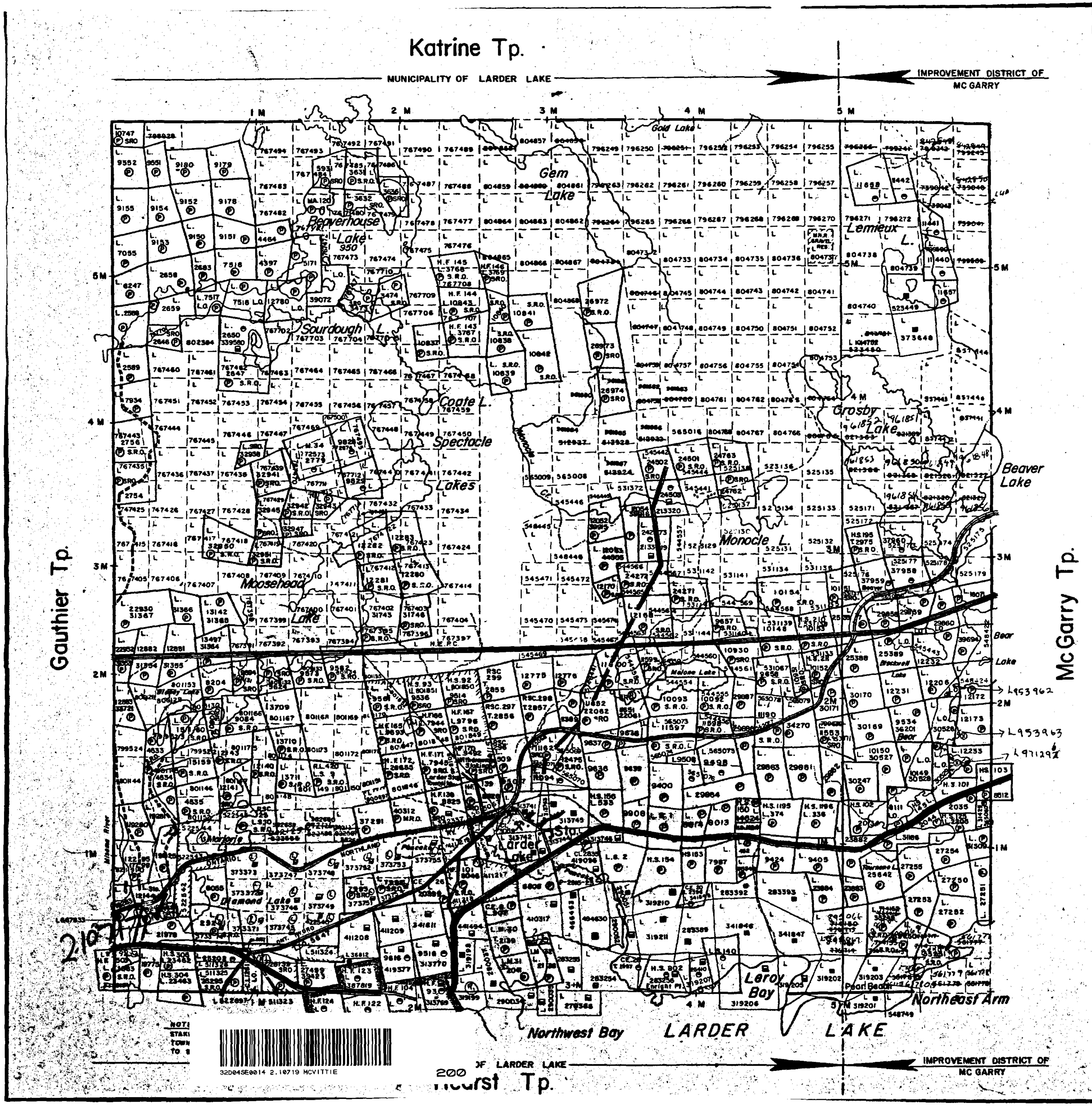
Yours truly

R.A. MacGregor, P. Eng.

RAM/jh

Encl.

RE[illegible]
JAN 7 1988
9:45am



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	Ⓟ or ●
" , SURFACE RIGHTS ONLY	Ⓟ S.R.O. or ◒
" , MINING RIGHTS ONLY	◓
LEASE, SURFACE & MINING RIGHTS	Ⓛ or ■
" , SURFACE RIGHTS ONLY	▤
" , MINING RIGHTS ONLY	▣
LICENCE OF OCCUPATION	L.O. or ▼
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.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

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

R1 Sec 36/80 NRW 64/84 01/03/84 MR+SR
R2 Sec 36/80 NRW 23/85 11/27/85 MR+SR
R3 Sec 36/80 W.9/86 ~~errorfile~~ ~~MRS~~
R4 W-22/86 6/3/86 Sec 36/80 MRS

TOWNSHIP

McVITTIE

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING

Ontario Ministry of Natural Resources — Land Management Branch

Date SEPTEMBER 1984 — Number G-3163

32D04SE0014 2.10719 MCVITTIE 200

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

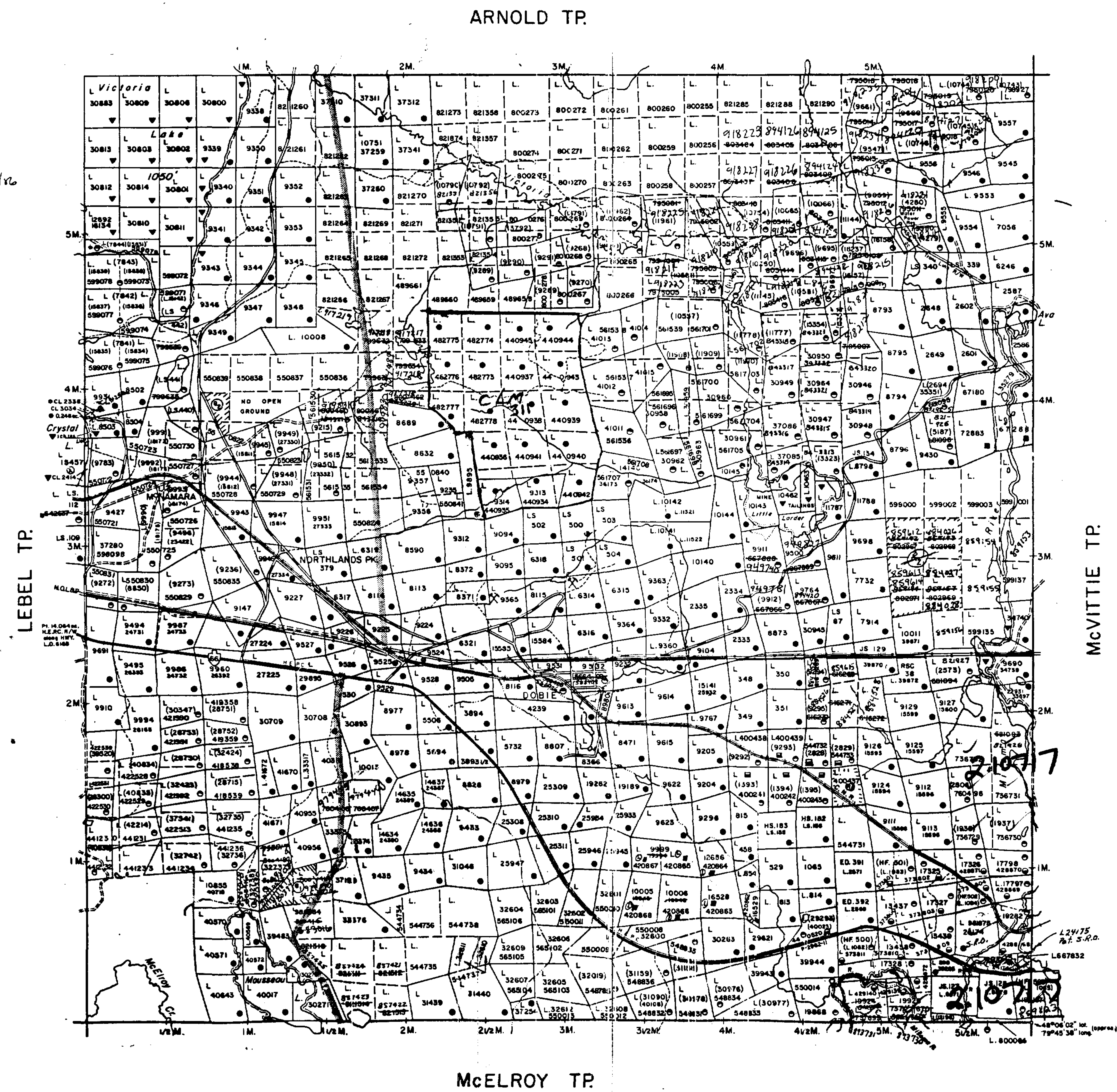
M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
A1	~~Sec 36/80~~	~~W36/85~~	~~24/12/85~~	~~M+S~~	
	Sec. 36/80	O22/85	30/12/85	M+S	
R1	Sec. 36/80	W38/85	30/12/85	M+S	
R2	~~Sec 36/80~~	~~W14/86~~	~~31/01/86~~	~~M+S~~	
	Sec 36/80	O5/86	31/01/86	M+S effec. 9:00 a.m. Feb 19/86	

SAND and GRAVEL

ⓢ	M.T.C.	PIT No. 1666	FILE 101421
ⓢ	M.T.C.	PIT 3F-27	

DATE OF ISSUE
JUN 15 1987
LARDER LAKE
MINING RECORDER'S OFFICE



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
Baccach Power Line (Application Pending under Public Lands Act)

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.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

TOWNSHIP

GAUTHIER

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
MINING DIVISION
LARDER LAKE
LAND TITLES / REGISTRY DIVISION
TIMISKAMING

Ontario Ministry of Natural Resources — Land Management Branch

#4

Date JANUARY, 1985

Number G-3211

32D04SE0014 2.10719 MCVITTIE

210

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

(R1) SURFACE RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W 14/80

(R2) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 65/84

(R3) MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36 / 80 ORDER NO. W 9 85

(R4) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 17/85

O 32 / 85 OPENS W 17 / 85.

(R5) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 36/85

O 22 / 85 OPENS W 36 / 85

(R5) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 38/85

O 24 / 86 OPENS PART OF W 38 / 85.
O 25 / 85 OPENS PART OF W 38 / 85.
O 26 / 85 OPENS PART OF W 38 / 85
O 63 / 87 OPENS PART OF W 38 / 85.

(R6) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 7/86

O 74 / 86 OPENS PART OF W 7 / 86.

(R7) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 8/86

O 64 / 87 OPENS PART OF W 8 / 86.

(R8) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 9/86

(R9) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 61/86

O 75 / 86 OPENS W 61 / 86.

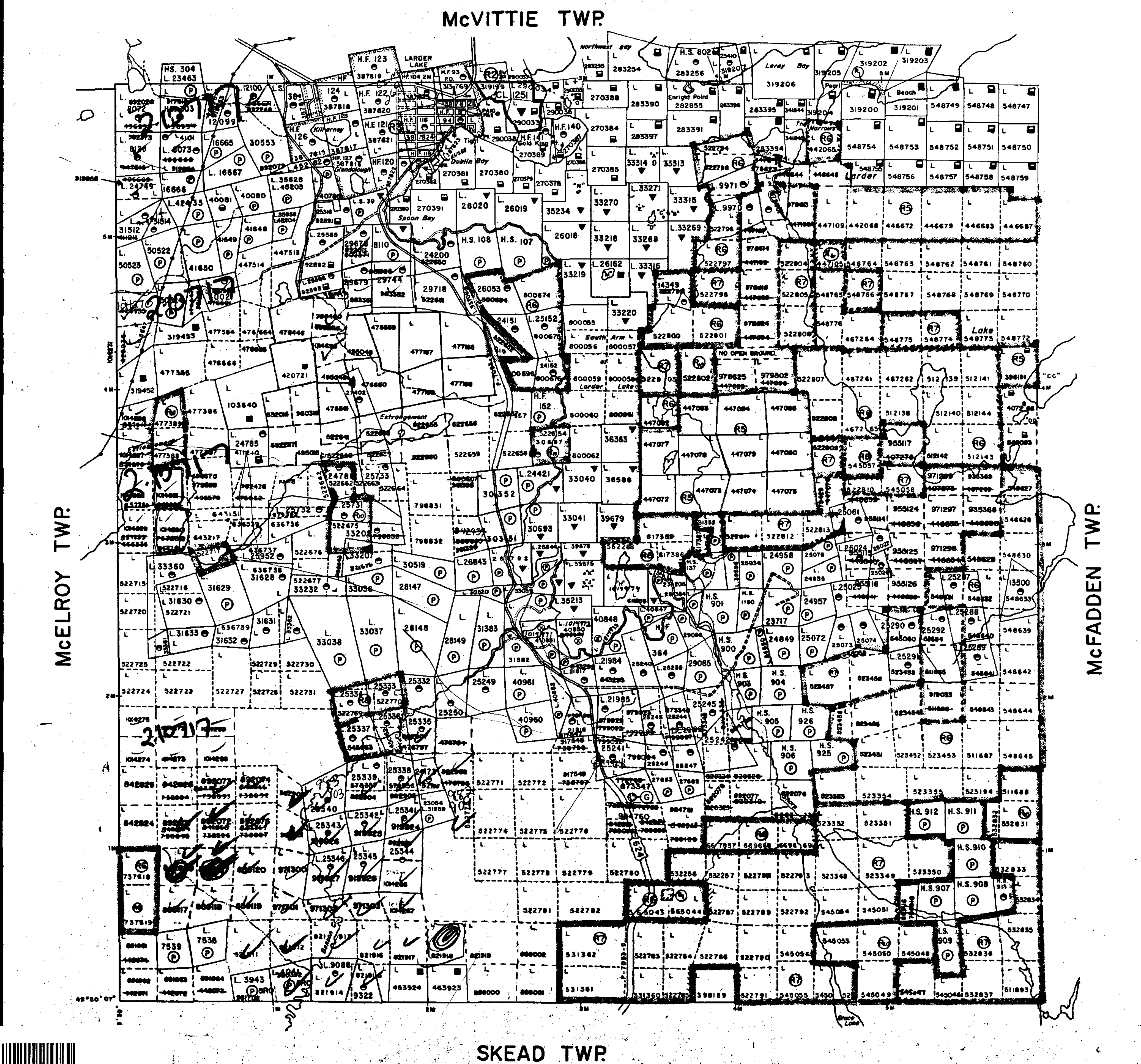
(R10) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 50/86

O 60 / 87 OPENS PART OF W 50 / 86.

NOTES

Township of Hearst lies entirely within the CORPORATION of the TOWNSHIP of LARDER LAKE. File 29282

Staking of mining claims within the Town of Larder Lake shown thus ______ subject to Sec. 37(b) of the Mining Act (R.S.O.1970)



32D04SE0014 2.10719 MCVITTIE

220

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	Ⓟ or ●
" , SURFACE RIGHTS ONLY	ⓅSRO or ◒
" , 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.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

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

Replaced on Aug 19, 1987

TOWNSHIP

HEARST

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING

Ministry of Natural Resources — Land Management Branch

Ontario

Date FEBRUARY, 1985

Number G-3213

DATE OF ISSUE

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

(R1) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W.13/86

(R2) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W 18/86

PART (R2) REOPENED BY ORDER NO. 0-12/89L

PART (R2) REOPENED BY ORDER NO. 0-13/89L

SAND AND GRAVEL

(1)	M.N.R. Gravel	File 179165
(2)	Gravel Pit	File 113703
(3)	M.N.R. Gravel	File 160982

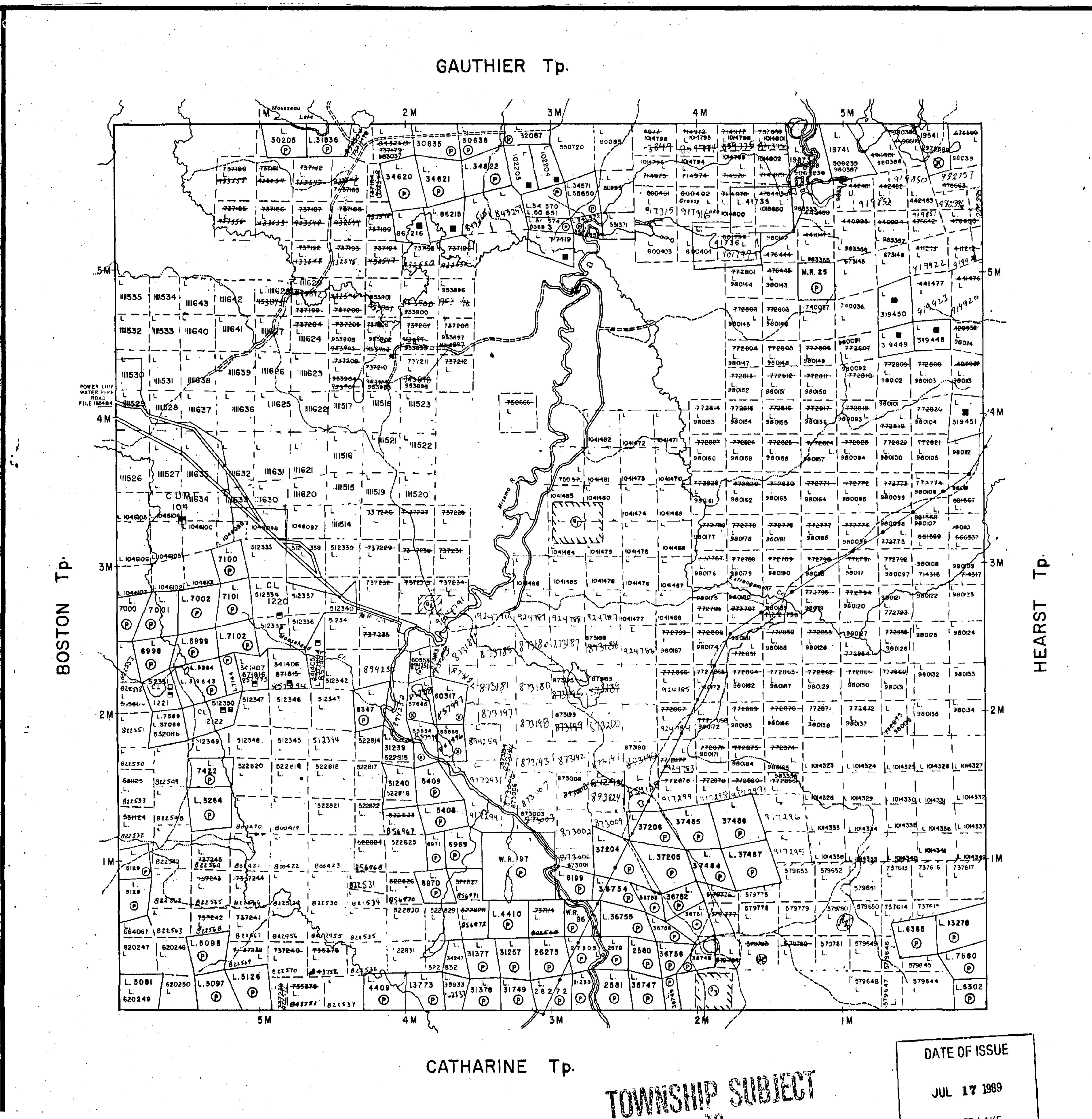
*Application for Surface Rights Parts Under Public Lands Act.

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE TIMISKAMING MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129 SWASTIKA, ONT. P0K 1T0 705-642-3222

32D04SE0014 2.10719 MCVITTIE

230



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	L.O.
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.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

TOWNSHIP

McELROY

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING

Ministry of Natural Resources — Land Management Branch

Ontario

Date JANUARY, 1985

Number G-3214

DATE OF ISSUE
JUL 17 1989
LARDER LAKE
MINING RECORDER'S OFFICE

TOWNSHIP SUBJECT TO FORESTRY OPERATIONS

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

(W1) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W.13/86

(W2) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W.18/86

SAND AND GRAVEL

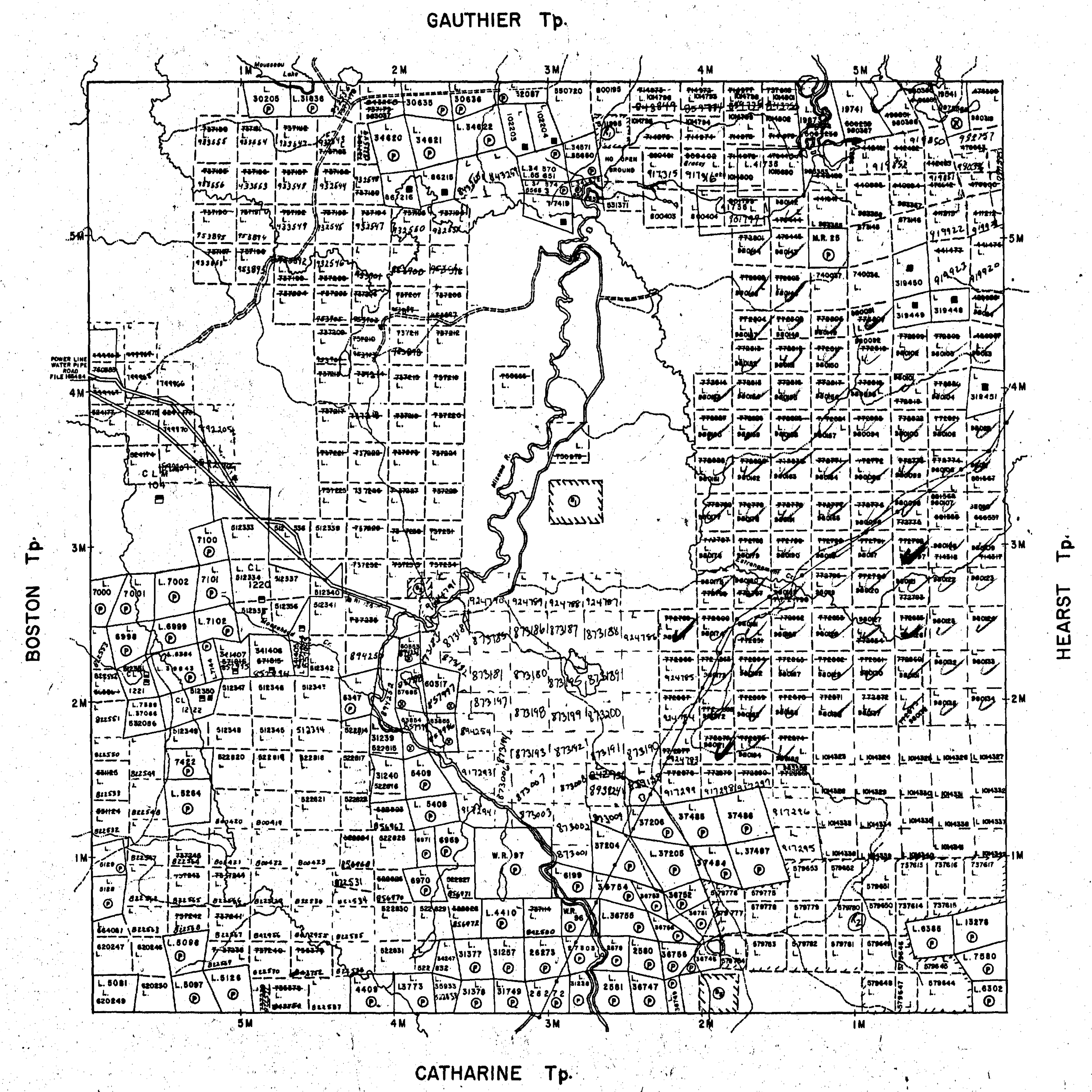
M.N.R. Gravel	File 179165
Gravel Pit	File 113703
M.N.R. Gravel	File 160982

*Application for Surface Rights Parts Under Public Lands Act.

NOTICE OF FORESTRY ACTIVITY
THIS TOWNSHIP / AREA FALLS WITHIN THE TIMISKAMING MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS.
THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129
SWASTIKA, ONT.
P0K 1T0
705-642-3222

32D04SE0014 2.10719 MCVITTIE

240



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	Ⓟ or ●
" , SURFACE RIGHTS ONLY	◒
" , MINING RIGHTS ONLY	◓
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	L.O. or ▼
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.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000

DATE OF ISSUE
APR 14 1988
LARDER LAKE MINING RECORDER'S OFFICE

TOWNSHIP
McELROY

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE

MINING DIVISION
LARDER LAKE

LAND TITLES / REGISTRY DIVISION
TIMISKAMING

Ministry of Natural Resources — Land Management Branch
Ontario

Date JANUARY, 1985

Number
G-3214

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

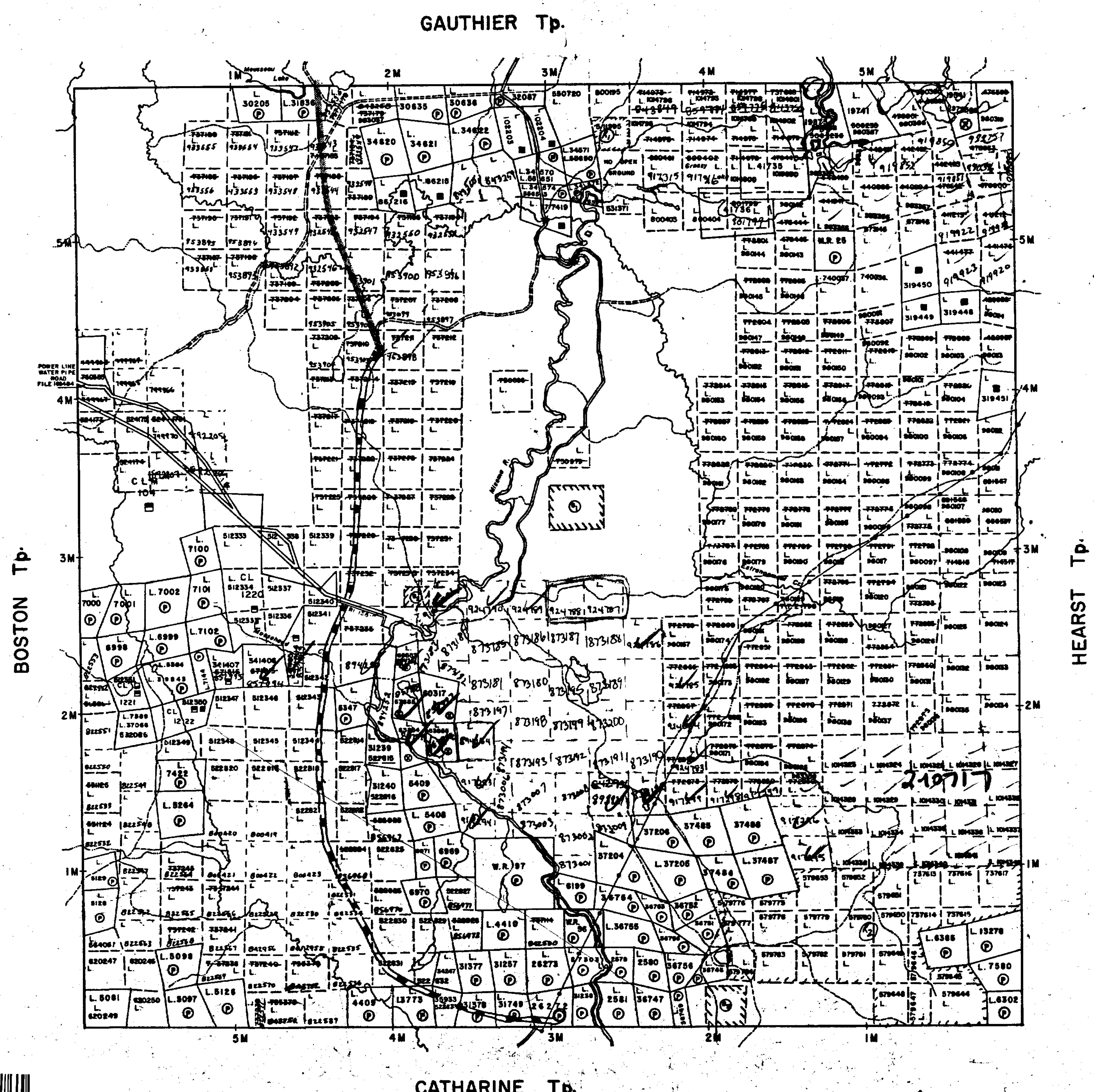
(W1) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W.13/86

(W2) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W.18/86

SAND AND GRAVEL

①	M.N.R. Gravel	File 179165
②	Gravel Pit	File 113703
③	M.N.R. Gravel	File 160982

* Application for Surface Rights Parts Under Public Lands Act.



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	L.O. or
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.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 2000

DATE OF ISSUE
DEC 11 1987
LARDER LAKE MINING RECORDER'S OFFICE

TOWNSHIP
McELROY
M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
MINING DIVISION
LARDER LAKE
LAND TITLES / REGISTRY DIVISION
TIMISKAMING

Ministry of Natural Resources — Land Management Branch
Ontario

#10

Date JANUARY, 1985 — Number G-3214

32D04SE0014 2.10719 MCVITTIE

250

2.10719

VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 107

LITHOLOGY

9	Felsic Intrusives
8	Mafic Intrusives
6	Clastic Metasediments
4	Alkalic Metavolcanics
1m	Magnetic Unit Within 1
1	Mafic to Intermediate Metavolcanics
IF	Iron Formation

LEGEND

Terrain Clearance .... 100 meters
Line Spacing .... 100 meters

INTERPRETATION

- Contact
- Fault
- Property Boundary

VLF-EM Conductor Axes

- normal quadrature
- reverse quadrature
- total field only

See text for classification of VLF-EM conductor axes

SUDBURY CONTACT MINES LTD.

INTERPRETATION

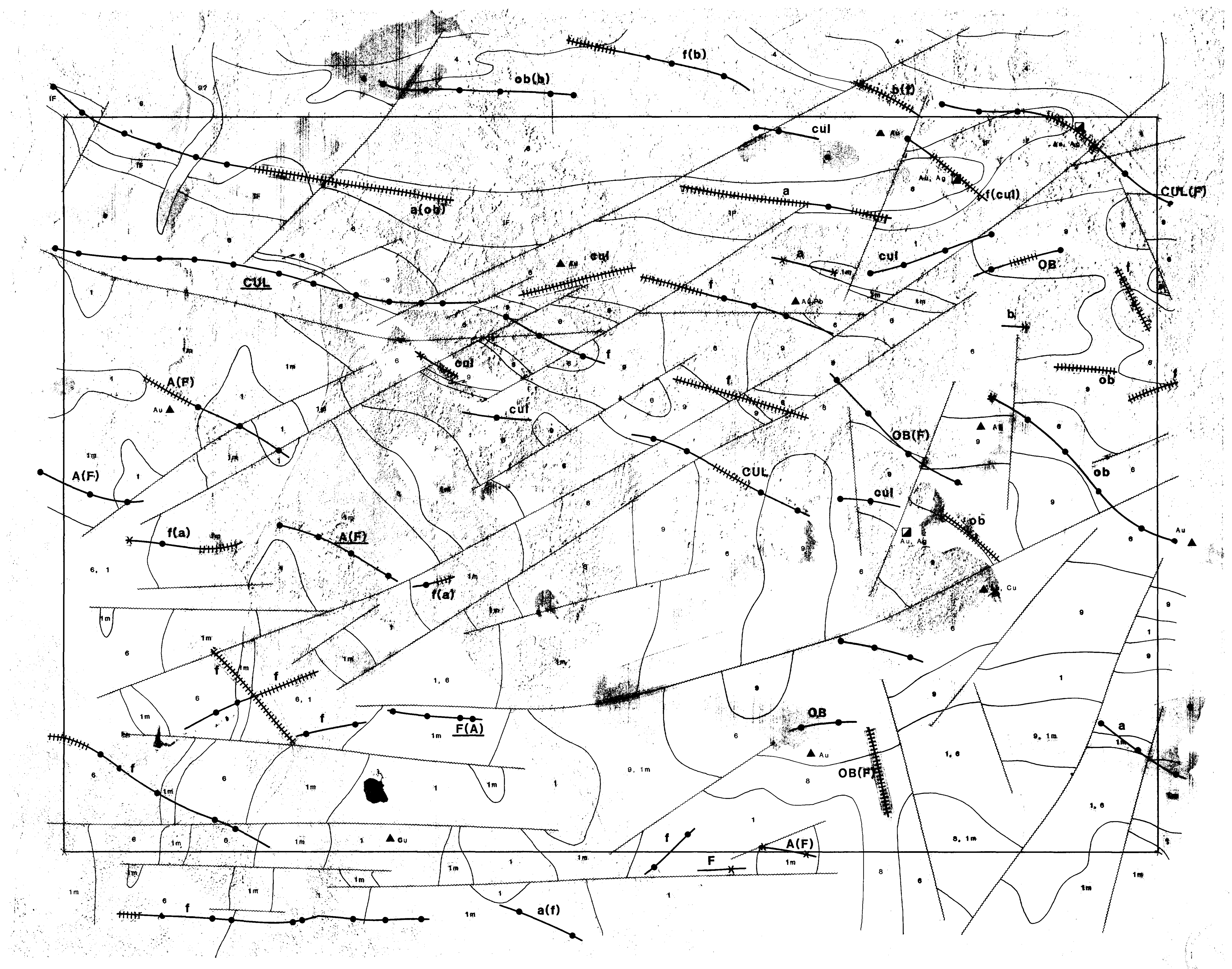
LARDER LAKE WEST
ONTARIO

N.T.S. NO. 32D/4	DRAWING NO. A-731.1-4
SCALE: 1:10,000	DATE December 1987

TERRAQUEST LTD.
TORONTO, CANADA

260

0187-6-C-200



2. 10719

32D04SE0014 2.10719 MCVITTIE

270

VLF Transmitter
NLK Seattle, 24.8 kHz
Azimuth 286

LITHOLOGY

9	Felsic Intrusives
8	Mafic Intrusives
6	Clastic Metasediments
4	Alkalic Metavolcanics
1m	Magnetic Unit Within 1
1	Mafic to Intermediate Metavolcanics
IF	Iron Formation

LEGEND

Terrain Clearance .... 100 meters
Line Spacing .... 200 meters

INTERPRETATION

- Contact
- Fault
- Property Boundary

VLF-EM Conductor Axes

- normal quadrature
- reverse quadrature
- total field only

See text for classification of VLF-EM conductor axes

SUDBURY CONTACT MINES LTD.

INTERPRETATION

LARDER LAKE EAST
ONTARIO

N.T.S. NO. 32D/4	DRAWING NO. A-731.2-4
SCALE: 1:10,000	DATE: December 1987

TERRAQUEST LTD.
TORONTO, CANADA

OM87-6-C-200

VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 107

LITHOLOGY

9m	Magnetic Unit Within 9
9	Felsic Intrusives
8	Gabbro, Diorite Lamprophyre
7	Serpentinite
6	Clastic Metasediments
1m	Magnetic Unit Within 1
1	Mafic to Intermediate Metavolcanics

LEGEND

Terrain Clearance .... 100 meters
Line Spacing .... 100 meters

INTERPRETATION

Contact
Fault
Property Boundary

VLF-EM Conductor Axes

normal quadrature
reverse quadrature
total field only

See text for classification of VLF-EM conductor axes

SUDBURY CONTACT MINES LTD.

2.10719

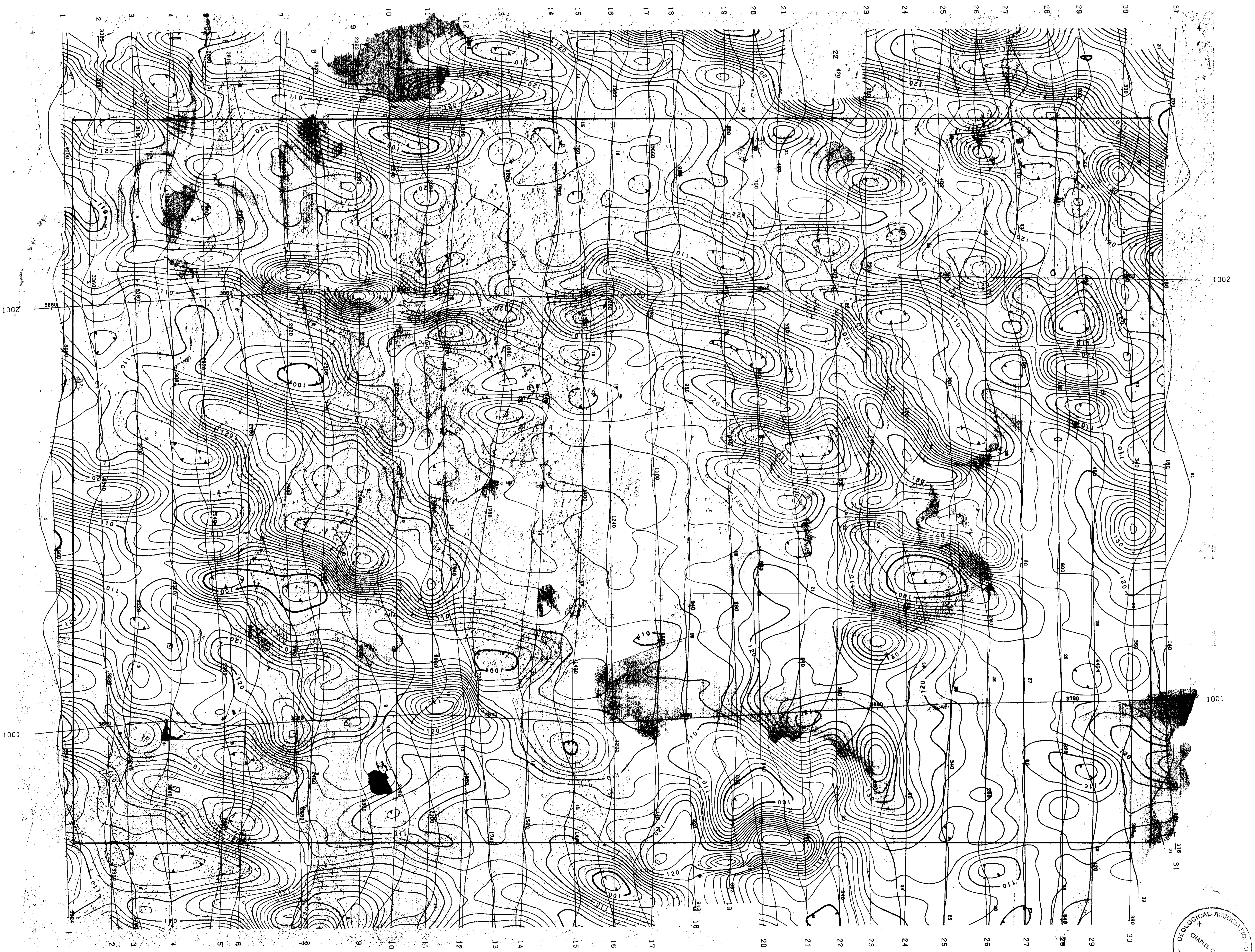
INTERPRETATION

LARDER LAKE SOUTH
ONTARIO

N.T.S. NO.	32D/4	DRAWING NO.	A-731.3-4
SCALE	1:10,000	DATE	December 1987

TERRAQUEST LTD.
TORONTO CANADA

280



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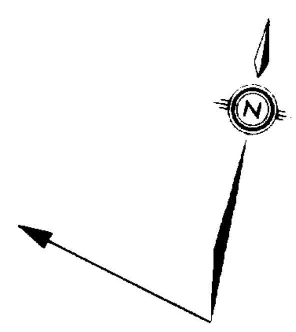


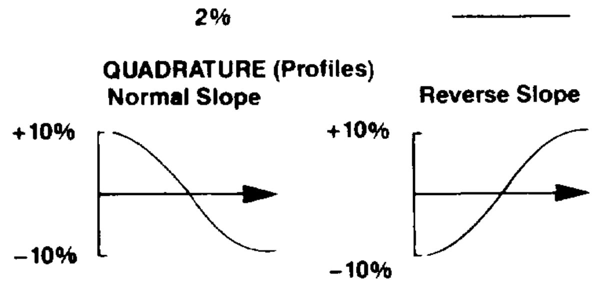
VLF Transmitter
NLK Seattle, 24.8 kHz
Azimuth 286

LEGEND

Terrain Clearance .... 100 meters
Line Spacing .... 200 meters

TOTAL FIELD STRENGTH (Contours)
50%
10%
2%

QUADRATURE (Profiles)
Normal Slope
Reverse Slope



SUDBURY CONTACT MINES LTD.

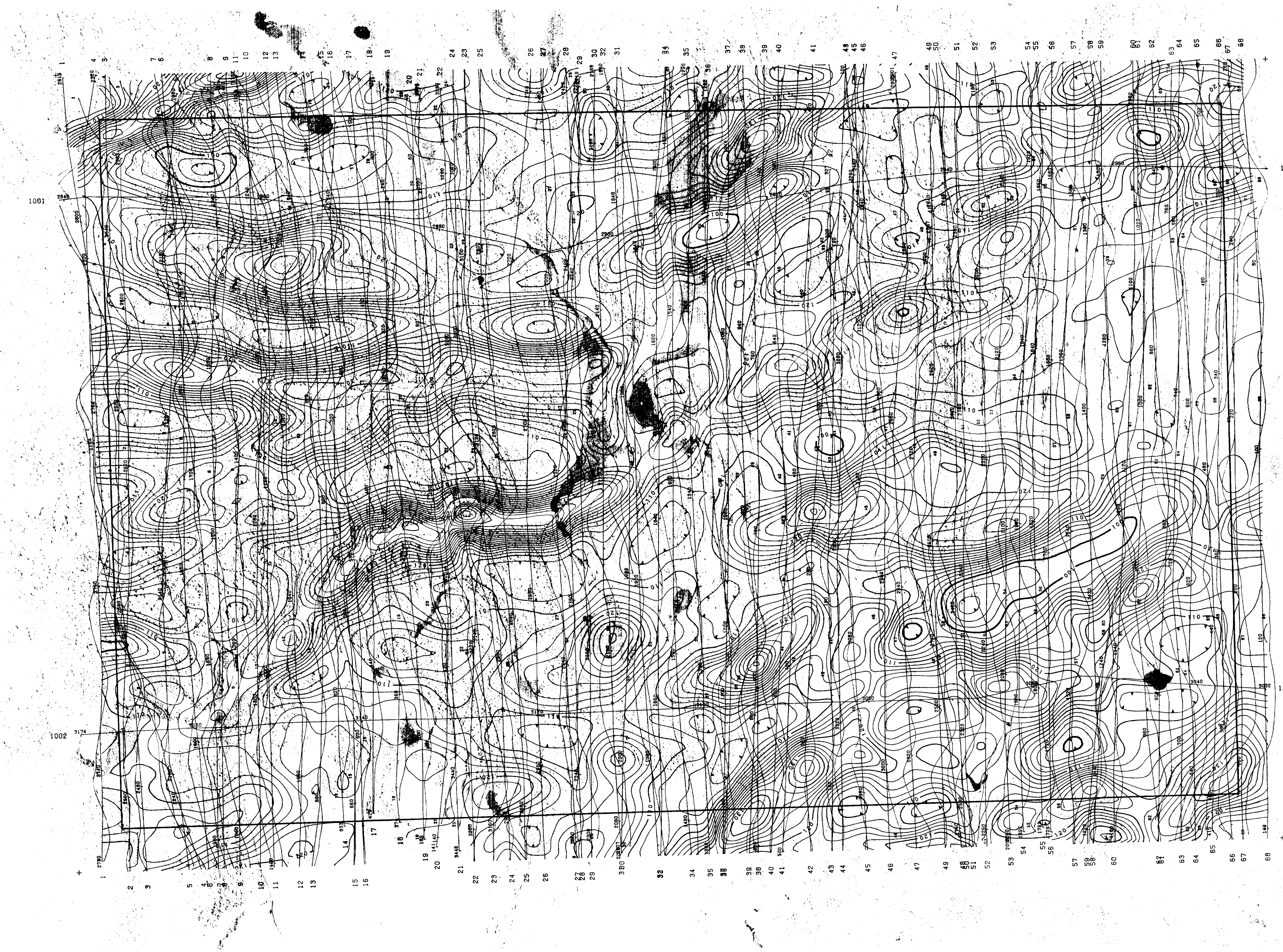
AIRBORNE VLF-EM SURVEY
CONTOURS OF TOTAL FIELD STRENGTH
PROFILES OF QUADRATURE

LARDER LAKE EAST
ONTARIO

N.T.S. NO. 32D/4	DRAWING NO. A-731.2-3
SCALE 1:10,000	DATE December 1987

TERRAQUEST LTD.
TORONTO, CANADA

OM87-6-C-200



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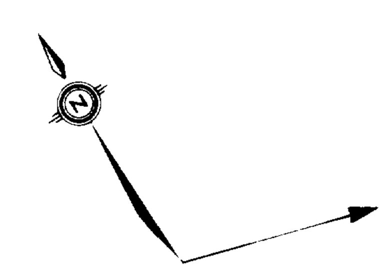


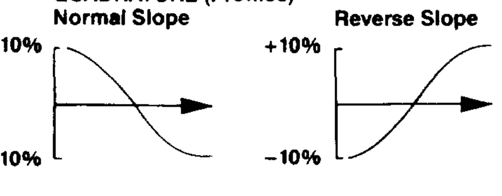
VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 107

LEGEND

Terrain Clearance .... 100 meters
Line Spacing .... 100 meters

TOTAL FIELD STRENGTH (Contours)
50%
10%
2%

QUADRATURE (Profiles)
Normal Slope
Reverse Slope



SUDBURY CONTACT MINES LTD.

AIRBORNE VLF-EM SURVEY
CONTOURS OF TOTAL FIELD STRENGTH
PROFILES OF QUADRATURE

LARDER LAKE WEST
ONTARIO

N.T.S. NO. 32D/4 | DRAWING NO. A-731.1-3
SCALE: 1:10,000 | DATE: December 1987

TERRAQUEST LTD.
TORONTO, CANADA

300

OM87-6-C-200

VLF Transmitter
NAA Cutler, 24.0 kHz
Azimuth 107

310

LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

TOTAL FIELD STRENGTH (Contours)
50%
10%
2%

QUADRATURE (Profiles)
Normal Slope — Reverse Slope
+10% / −10%

SUDBURY CONTACT MINES LTD.

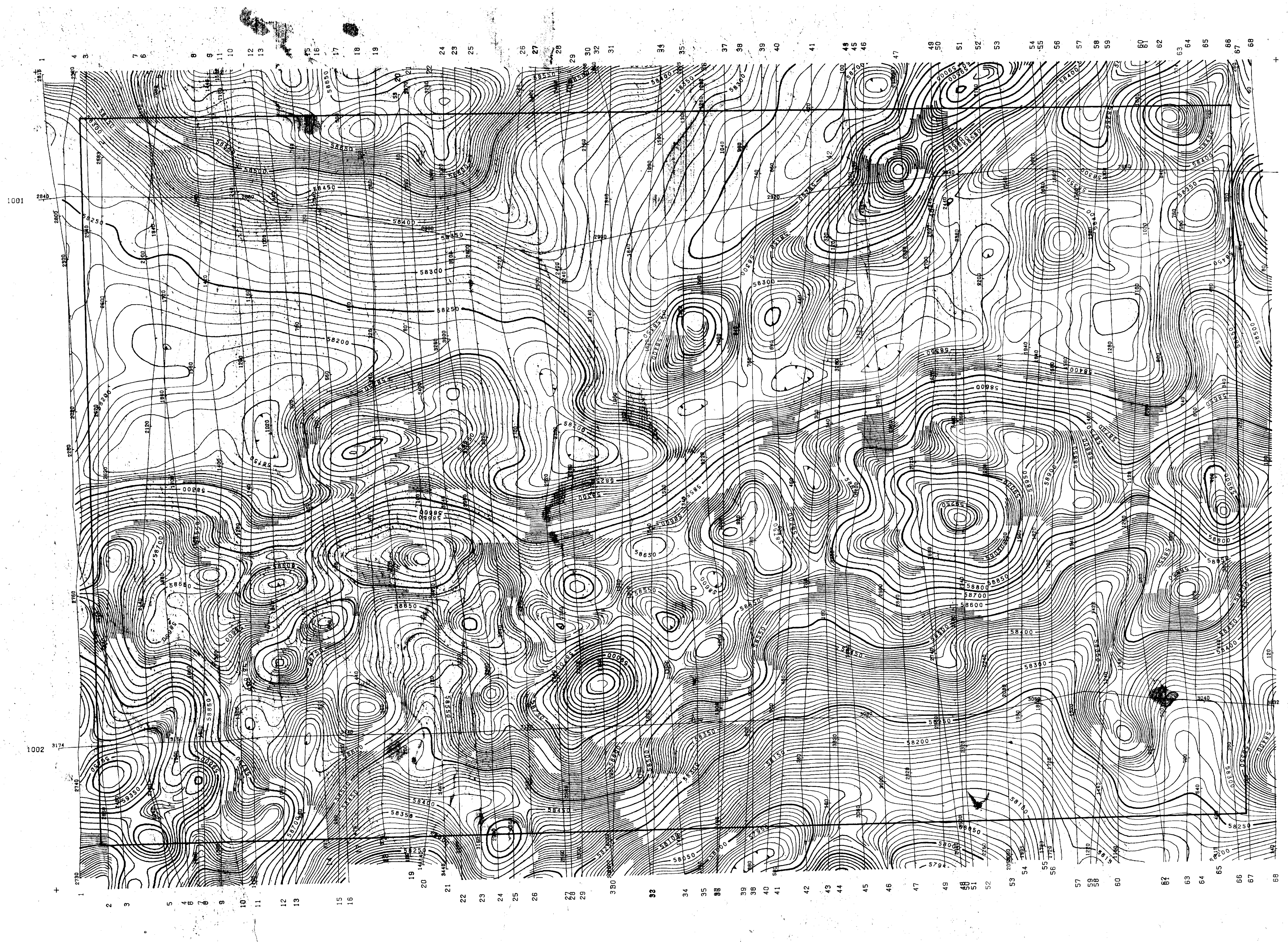
AIRBORNE VLF-EM SURVEY
CONTOURS OF TOTAL FIELD STRENGTH
PROFILES OF QUADRATURE

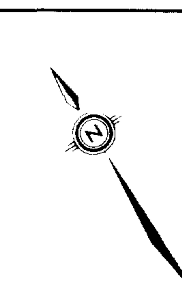
2.10719

LARDER LAKE SOUTH
ONTARIO

N.T.S. NO. 32D/4	DRAWING NO. A-731.3-3
SCALE: 1:10,000	DATE: December 1987

TERRAQUEST LTD.
TORONTO, CANADA





LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

TOTAL MAGNETIC FIELD

1000 gammas	
250 gammas	
50 gammas	
10 gammas	

SUDBURY CONTACT MINES LTD.

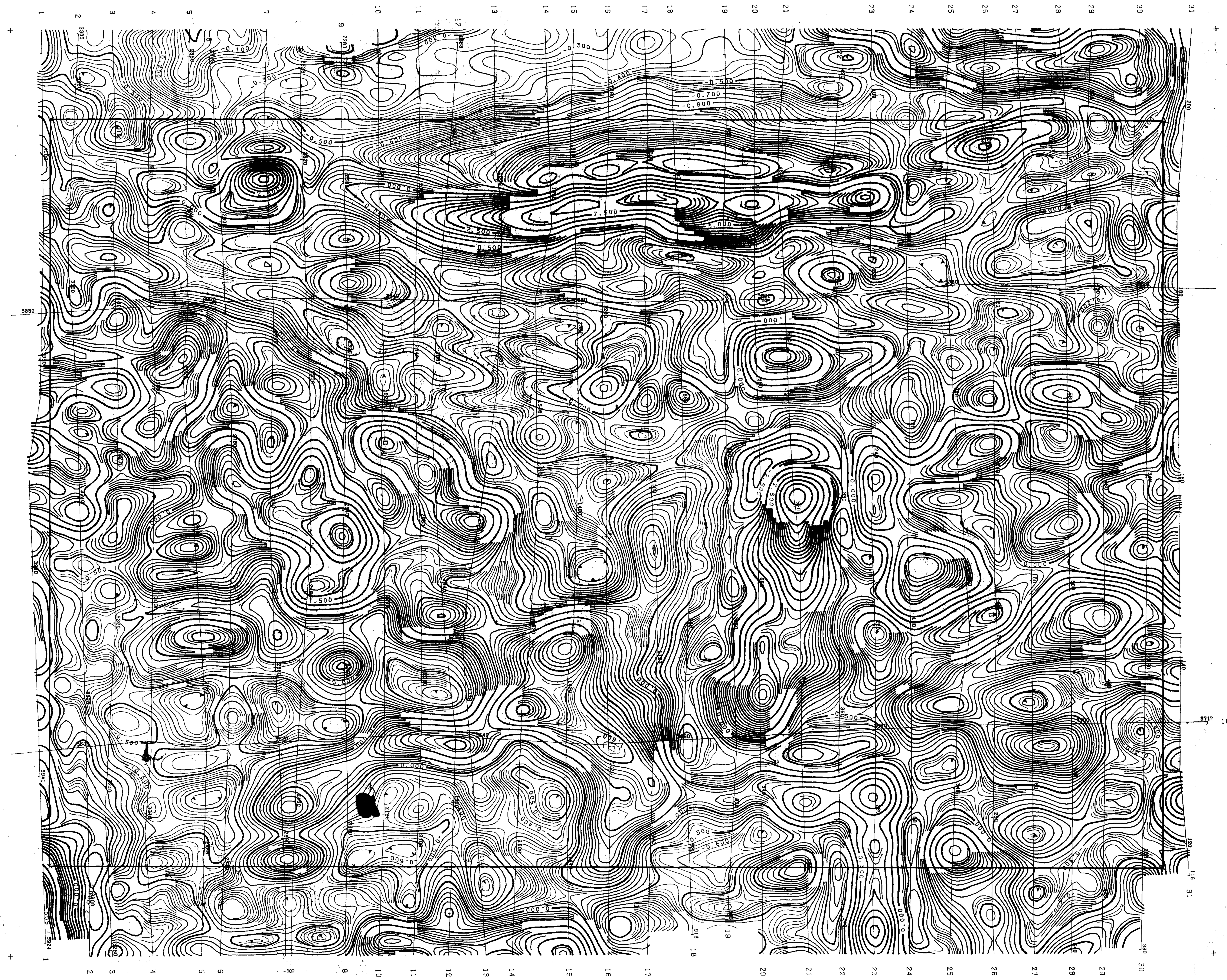
AIRBORNE MAGNETIC SURVEY
TOTAL MAGNETIC FIELD

LARDER LAKE WEST
ONTARIO

N.T.S. NO 32D/4	DRAWING NO A-731.1-1
SCALE 1:10,000	DATE December 1987

TERRAQUEST LTD.
TORONTO CANADA

320



LEGEND

Terrain Clearance .... 100 meters
Line Spacing .... 200 meters

VERTICAL MAGNETIC GRADIENT
2.500 gammas/meter
.500 gammas/meter
.100 gammas/meter
.025 gammas/meter

340

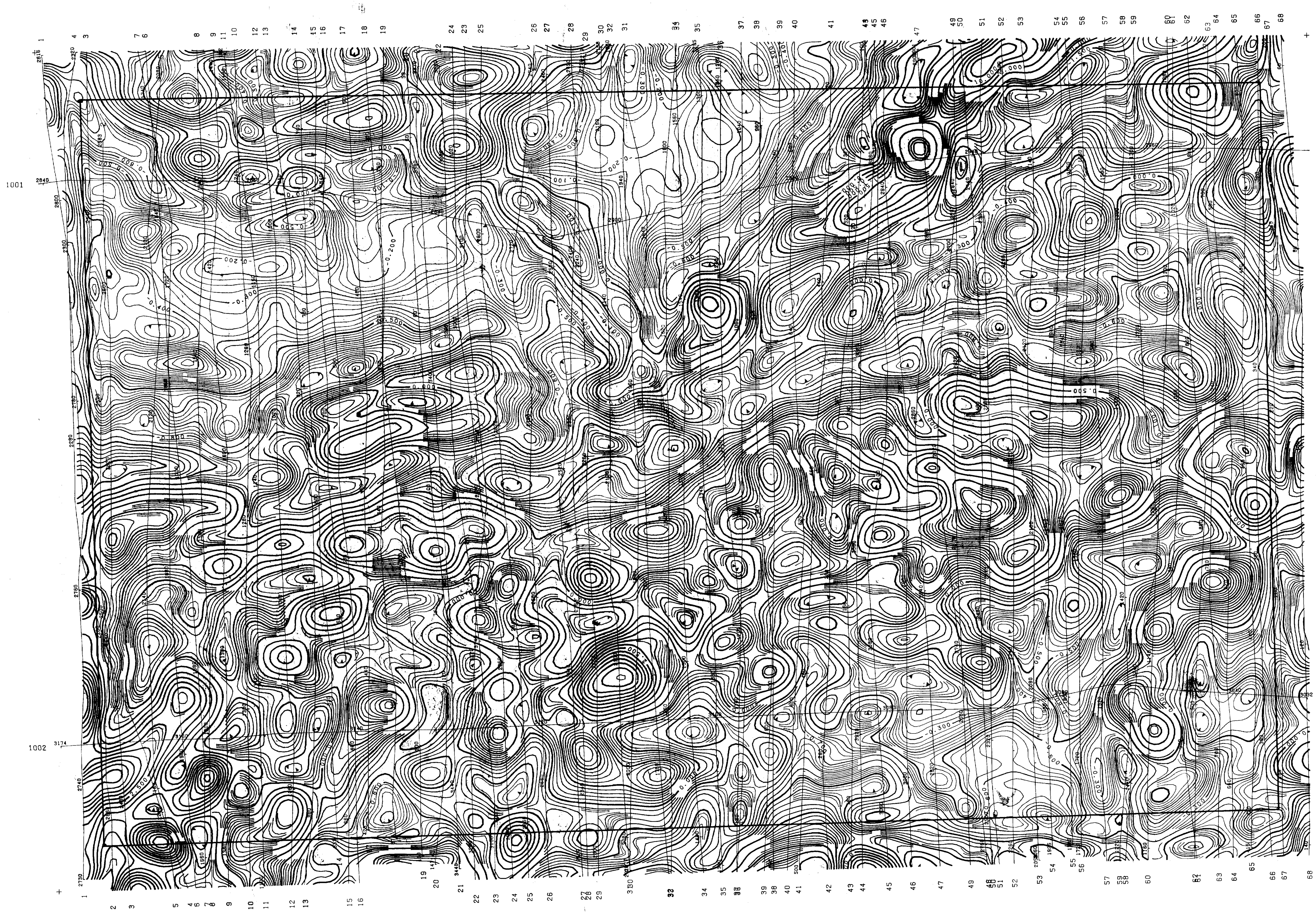
SUDBURY CONTACT MINES LTD.

AIRBORNE MAGNETIC SURVEY
VERTICAL MAGNETIC GRADIENT
Calculated From Total Field

LARDER LAKE EAST
ONTARIO

N.T.S. NO.	32D/4	DRAWING NO.	A-731.2-2
SCALE	1:10,000	DATE	December 1987

TERRAQUEST LTD.
TORONTO CANADA



LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

VERTICAL MAGNETIC GRADIENT

- 2.500 gammas/meter
- .500 gammas/meter
- .100 gammas/meter
- .025 gammas/meter

SUDBURY CONTACT MINES LTD

AIRBORNE MAGNETIC SURVEY

VERTICAL MAGNETIC GRADIENT
Calculated From Total Field

LARDER LAKE WEST
ONTARIO

N.T.S. NO. 32D/4	DRAWING NO. A-731.1-2
SCALE 1:10,000	DATE December 1987

TERRAQUEST LTD.
TORONTO CANADA

360

ob
f(ob)
OB
ob(f)
a(f)
a(ob)

LEGEND

Terrain Clearance .... 100 meters
Line Spacing .... 100 meters

TOTAL MAGNETIC FIELD
1000 gammas
250 gammas
50 gammas
10 gammas

330

SUDBURY CONTACT MINES LTD.

AIRBORNE MAGNETIC SURVEY
TOTAL MAGNETIC FIELD

LARDER LAKE SOUTH
ONTARIO

N.T.S. NO. 32D/4 DRAWING NO. A-721.3-1
SCALE 1:10,000 DATE December 1987

210119

TERRAQUEST LTD.

LEGEND

Terrain Clearance	100 meters
Line Spacing	100 meters

VERTICAL MAGNETIC GRADIENT

- 5.00 gammas/meter
- 1.00 gammas/meter
- 0.25 gammas/meter
- 0.05 gammas/meter

SUDBURY CONTACT MINES LTD.

AIRBORNE MAGNETIC SURVEY

VERTICAL MAGNETIC GRADIENT
Calculated From Total Field

2.10719

LARDER LAKE SOUTH
ONTARIO

N.T.S. NO	32D/4	DRAWING NO	A-731.3-2
SCALE	1:10,000	DATE	December 1987

TERRAQUEST LTD.
TORONTO CANADA

350