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

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.

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JAN 11 1988

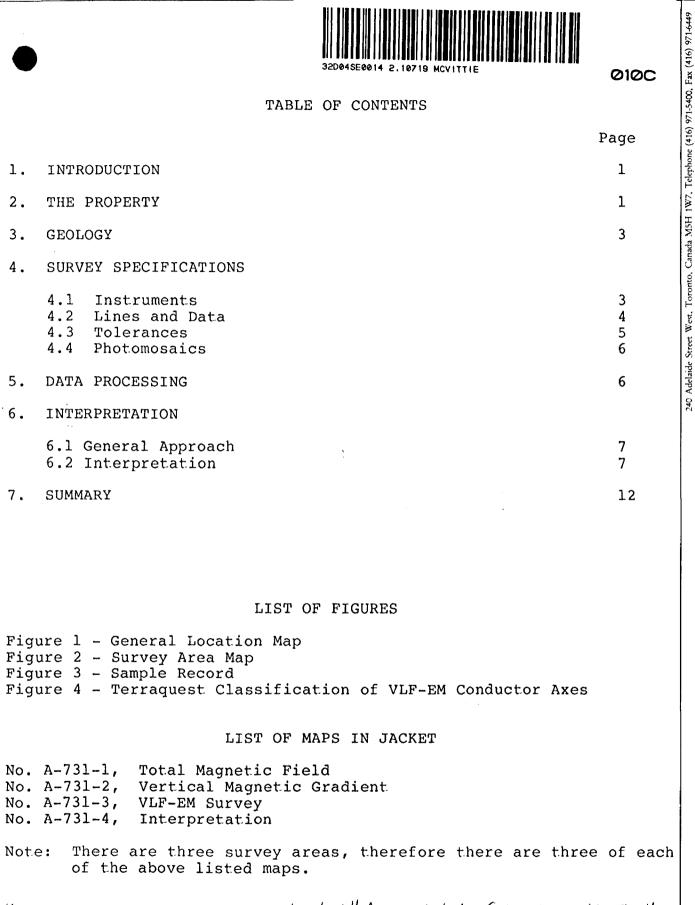
by

MILLING LANDO SLUTION

TERRAQUEST LTD. Toronto, Canada

December 21, 1987

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* <u>Please Note</u>: 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 # 07187-6-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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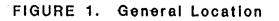
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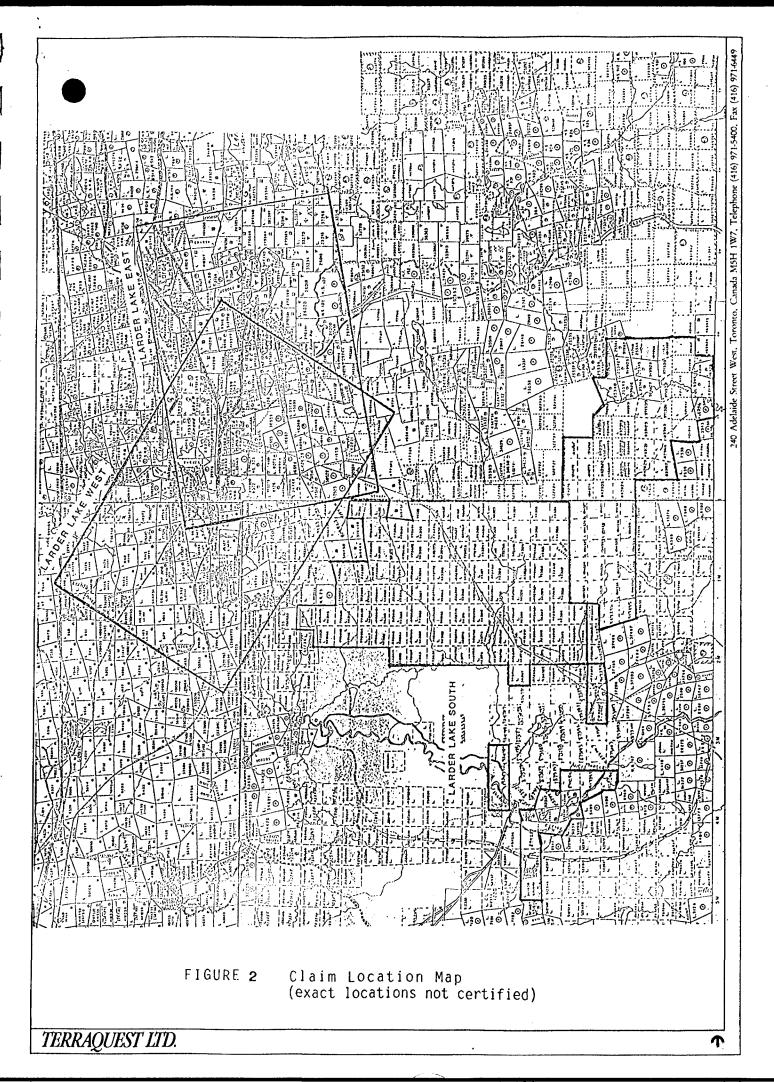
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LARDER LAKE SOUTH (A-731.3)

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:

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|--------------------------------------|---------|-----------|-----|--------|--------------------------|
| 740036-740037 | (2) | | | | 240 Adelaide Street West |
| 980091-980114 | (24) | | | | J. |
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| 341405 | (1) | | | | |
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| √1044272-1044275 | (4) | | | | ļ |
| 842824-842826 | (2) | | | | |
| √842829 <i>Q</i> | (1) | | | | |
| √85 8117-858121 | (5) | | | | |
| 892071-892075 | (5) | | | | |
| √971 <u>1</u> 300-971 <u>1</u> 303 | (4) | | | | |
| 921911-921917 | (7) | | | | |
| V982901-982902 | (2) | | | | |
| 982904-982905 | (2) | | | | |
| 25340-25346 | (7) | | | | |
| | repeat) | Total | 178 | claims | |
| | • | | | | 1 |

3. GEOLOGY

Map References

 Map 32E: Kirkland Lake Area. scale 1:31,680. O.D.M. 1923.
 Map 33B: Larder Lake Area. scale 1:47,520. O.D.M. 1924.
 Map 1947-1: Township of Hearst. scale 1:12,000. O.D.M. 1947.
 Map 1950-3: Township of McElroy. scale 1:12,000. O.D.M. 1950.
 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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Suite 905, $\square \square \square \square \square$ 1.21 Richmond Street West, وبينا والانتيان والتنا والمتعالية والمتعار والمتعار والمتعار والمتعار يرا يرب بريا برين بريا بري Altimeter LF station Toronto, Canada, M5H 2K1, Telephone (416) 869-0010 . . VLF station 2 លល័ 00 +---ي ب ٠t 7 4 0 1 0 1 Magnetometer (coarse & fine scale) $^{\circ}$ ល ហេ ហ цŵ N88636 . · Co οū . а: Ш ()) 100 •• (U 0) \\ . . . 25 Fiducials & - waaao > wor FIGURE 3. Sample of analogue data TERRAQUEST LTD. C

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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

1W7, Telephone (416) 971-5400, Fax (416) 971-6449 extension of the right wing tip. It's specifications are as follows: Resolution: 0.5 gamma 0.5 gamma Accuracy: 0.5 second Cycle time: 20,000 - 100,000 gammas in 23 overlapping steps Range: Canada Gradient tolerance: Up to 5000 gammas per metre Model: GSM-9BA Manufacturer: GEM Systems Inc., 105 Scarsdale Rd., West, Toronto, Don Mills, Ontario, M3B 2R5 The VLF-EM unit uses three orthoganol detector coils to measure Street (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" Adelaide : 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 240 the flight lines, while the ORTHO coil transmitter should be in line with the flight lines. It's specifications are: Accuracy: 18 1/2 second 1 Reading interval: 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 030 degrees b) Line direction: c) Terrain clearance: 100 metres d) Average ground speed: 156 km/hr. e) Data point interval: 27 metres Magnetic: VLF-EM: 27 metres f) Tie Line interval: 2 kilometres g) Channel 1 (LINE): NAA Cutler, 24.0 kHz TERRAQUEST LTD.

-5h) 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 kHzh) 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:
b) Line direction:
c) Terrain clearance:
d) Average ground speed:
100 metres
193 km/hr. e) Data point interval: Magnetic: 11 metres VLF-EM: ll metres 2 kilometres f) Tie Line interval: g) Channel 1 (LINE): h) Channel 2 (ORTHO): NAA Cutler, 24.0 kHz 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. Diurnal magnetic variation: Less than twenty gammas deviation from c) a smooth background over a period of two minutes or less as seen on the base station analogue record. Manoeuvre noise: Approximately +/-5 gammas. d)

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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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| IAL | | FIGURE 4 | |
|--------------|---------------------|--|---|
| TERRANI JECT | | TERRAQUEST CLASSIFICATION OF | VLF-EM CONDUCTOR AXES |
| | SYMBOL | CORRELATION | ASSOCIATION: Possible Origins |
| ITT | 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

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- 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)

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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 The following text encompasses the east and west survey areas. angle.

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 guartz 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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-127. 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 agnetic 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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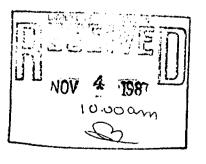
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| report of work. |
| Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected |
| in Polymins at right. |
| Date Approved as Recorded Branch pirector |
| Oct. 30/87 //// |
| Certification Verifying Réport 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 annexes report is true. |
| R.A. MacGragor, c/o P.O. Eox 1110, Sault Ste. Marie, Ont. P6A 5N7 |
| Date Certified [Certified ov (Signature) |
| Oct. 30/87 |
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| A T RBORNE | MAGNETOMETER | £ | ЕМ | SURVEY |
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| Ministry of Northern Developme Orftario | d ())(())(() Report of W (Geophysical, Geochemical a | Geological | | MENT NO. 08. 112 | Note: - | If number exceeds sp Only day "Expendit in the "I Do not use | 2 G e or print. r of mining glain secon this form, se credits calcula ures" section mai Expend. Days Cr e shaded areas belo | attach a list. Ited in the be entered "columns." |
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| | Exploration | s Lta. | ···· | | | | T4601 | |
| 27 Queen St. | East, Suite | 402, | Toronto | , Ont. | MSC 2 | 116 | | |
| Survey Company | uest Ltd. | | | Date of Surve | y (from & to) | 10,87 | Total Miles of line | Cut |
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| For first survey: Enter 40 days. (This | Electromagnetic | | L | 980091 | | L | 980114 | |
| includes line cutting) | - Magnetometer | | | 980092 | | | 980117 | |
| For each additional survey: | - Radiometric | | | 980093 | | | 980118 | |
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| Performed on Claim(s) | | <u></u> | · · | 980110 | 1 | | 980134 | |
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| Total Days Credits may be ap | | | | For Office Use | Only | ר ר | · • | |
| choice. Enter number of day: in columns at right. | s credits per claim selecti | :0 | Total Days Recorded | Cr. Date Recorded | | Mining Re | | • |
| Date Bee | corded Holder or Agent (| Signatural | | Pale | 17/88 | TH. G | . Ween | en |
| March 4/88 | - Ter C. H. La | chech | 7360 | 0 5 Ma | 88 1 | 12 4 | Nova |) |
| Certification Verifying Repo | ort of Work | | () | | | Kor | /~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| I hereby certify that I have a or witnessed same during and | | | | | of Work anne | xed hereto, l | having performed | the work |
| Name and Postal Address of Pers | | | | | <u></u> | <u></u> | | |

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MINING LANDS SECTION

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| 980165 APR 5 1988 | • |

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(W. A. HUBACHECK, B.Sc., P.Eng. Residence (416) 845-2954 W. A. HUBACHECK CONSULTANTS LTD.

141 Adelaide St. West Suite 603 Toronto, Ontario M5H 3L5 (416) 364-2895 Fax (416) 364-5384

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 128

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 W. CHRISTIE Project Geologist for Sudbury Contact Mines Ltd.

DWC/ber

RECEIVED

page = 2 **1989**

MINING LANDS SECTION

RESIDENCE (416) \$45-2954 W. A. HUBACHECK CONSULTANTS LTD.

199 BAY STREET SUITE 1110 TORONTO, ONTARIO MEJ 114 RECEIVED

APR 5 1988

March 4, 1988

MINING LANDS SECTION

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 CHilack

PETER C. HUBACHECK

Mage

PCH/ber

ã

BUSINESS {416} 364-2895

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 Hines and Minerals Division

LS:eb Enclosure

cc: Mining Recorder Kirkland Lake, Ontario



Airborne Geophysical Certificate

Mining Act

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| This is to certify that Sudbury Contact Mines Ltd has met th | he requirements of Section 78 of the Mining Act |
|--|---|
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Mining Claims (Please list)

L 1041466 to 486 incl.

| | Dale August 16, 1989 | Provincial Mining Lands Mgr. |
|--------------|-------------------------|------------------------------|
| 1332 (85/12) | JAugust 10, 1909 | allowan |

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

R. A. MACGREGOR, P.ENG.

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.

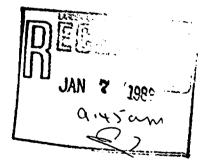
Would you please have this claim added to the claim list of this work report.

Yours truly

R.A. MacGregor, P. Eng.

RAM/jh

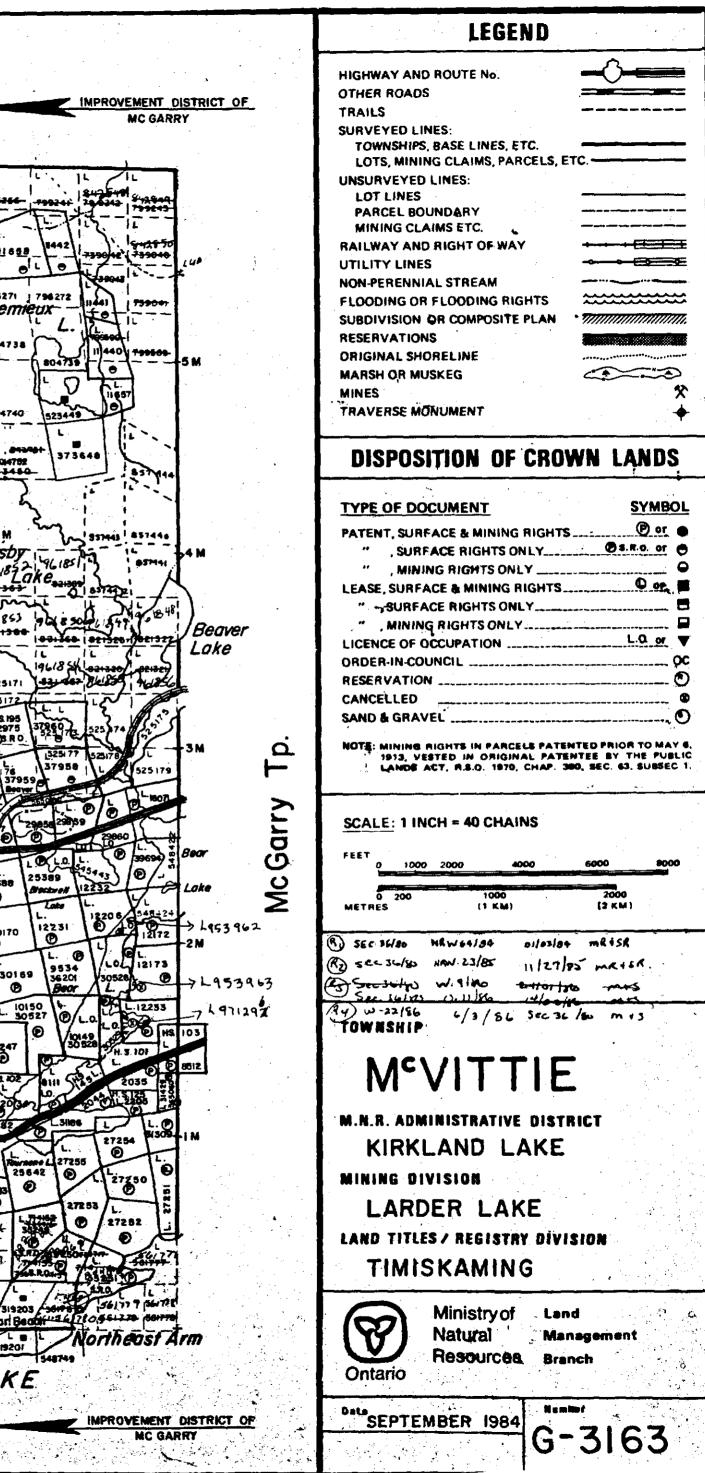
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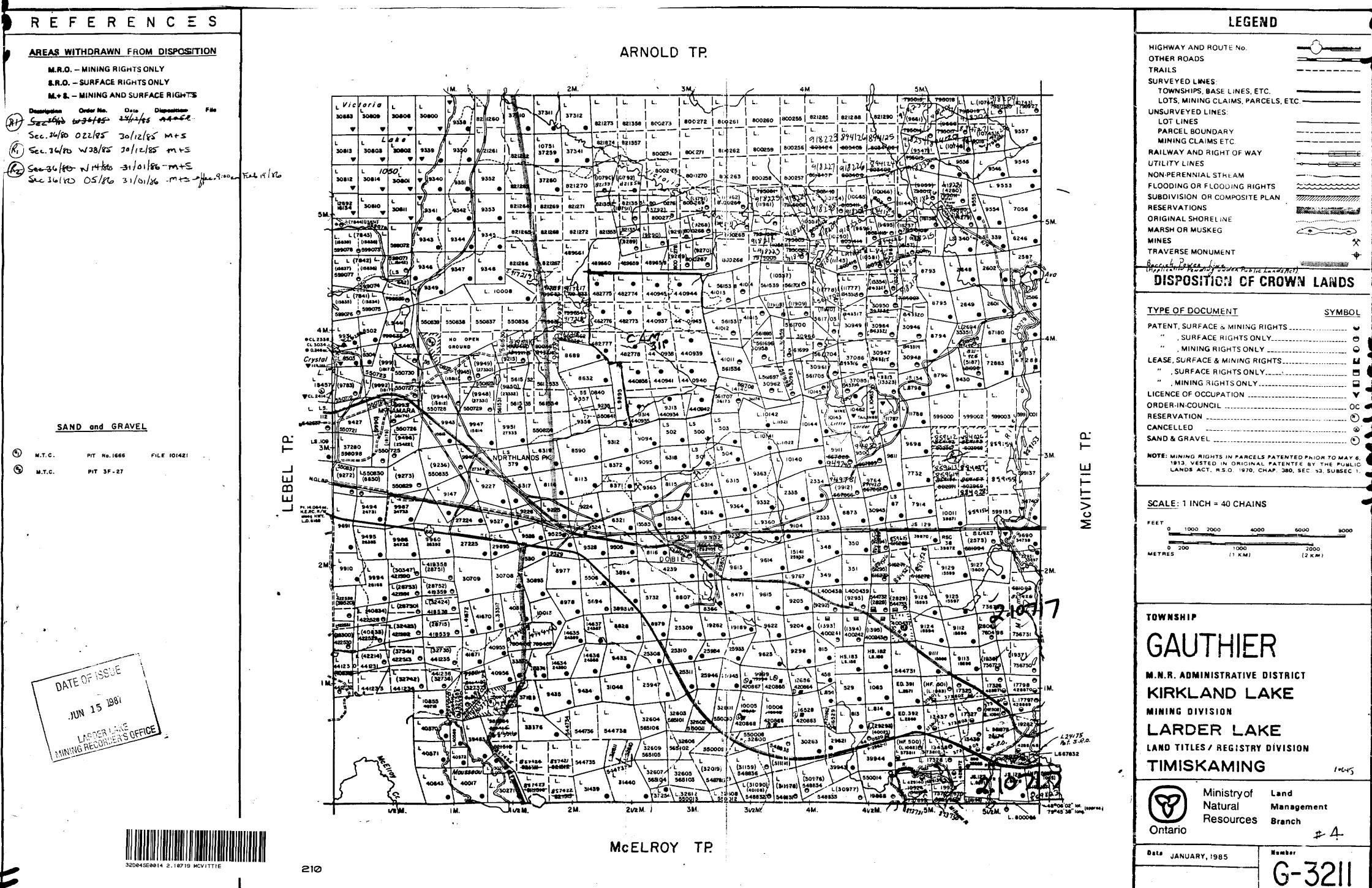


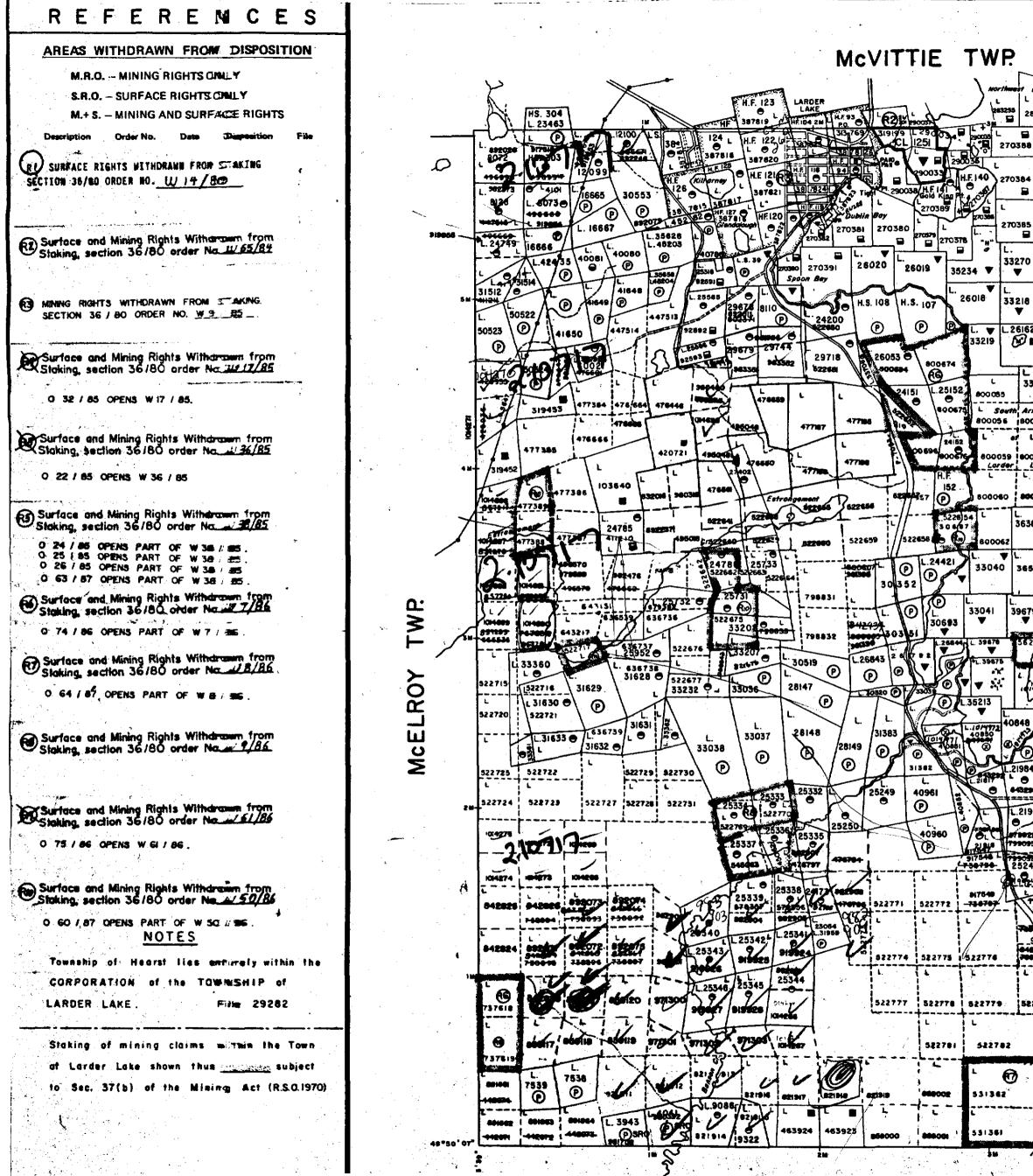
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MUNICIPALITY OF LARDER LAKE

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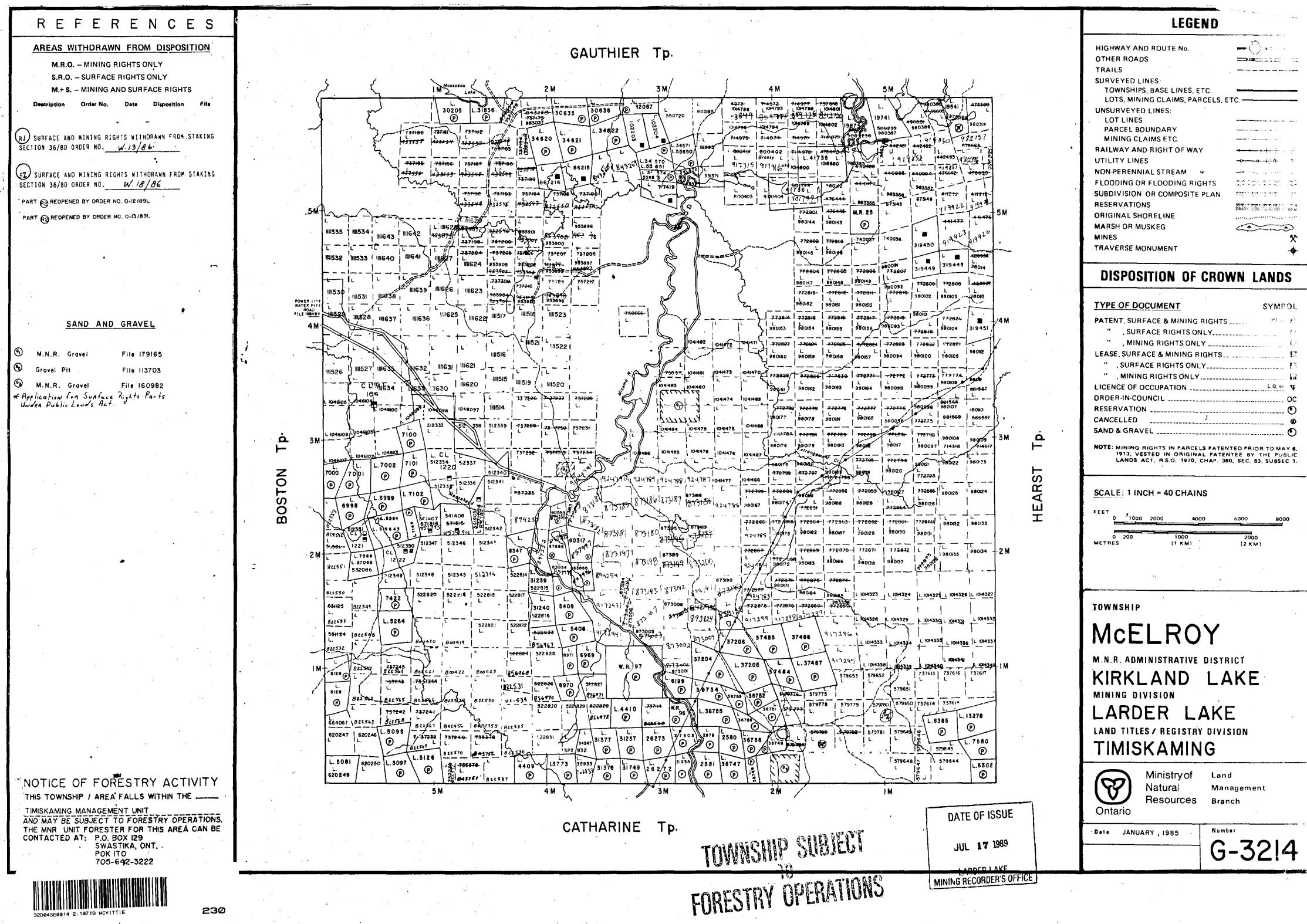
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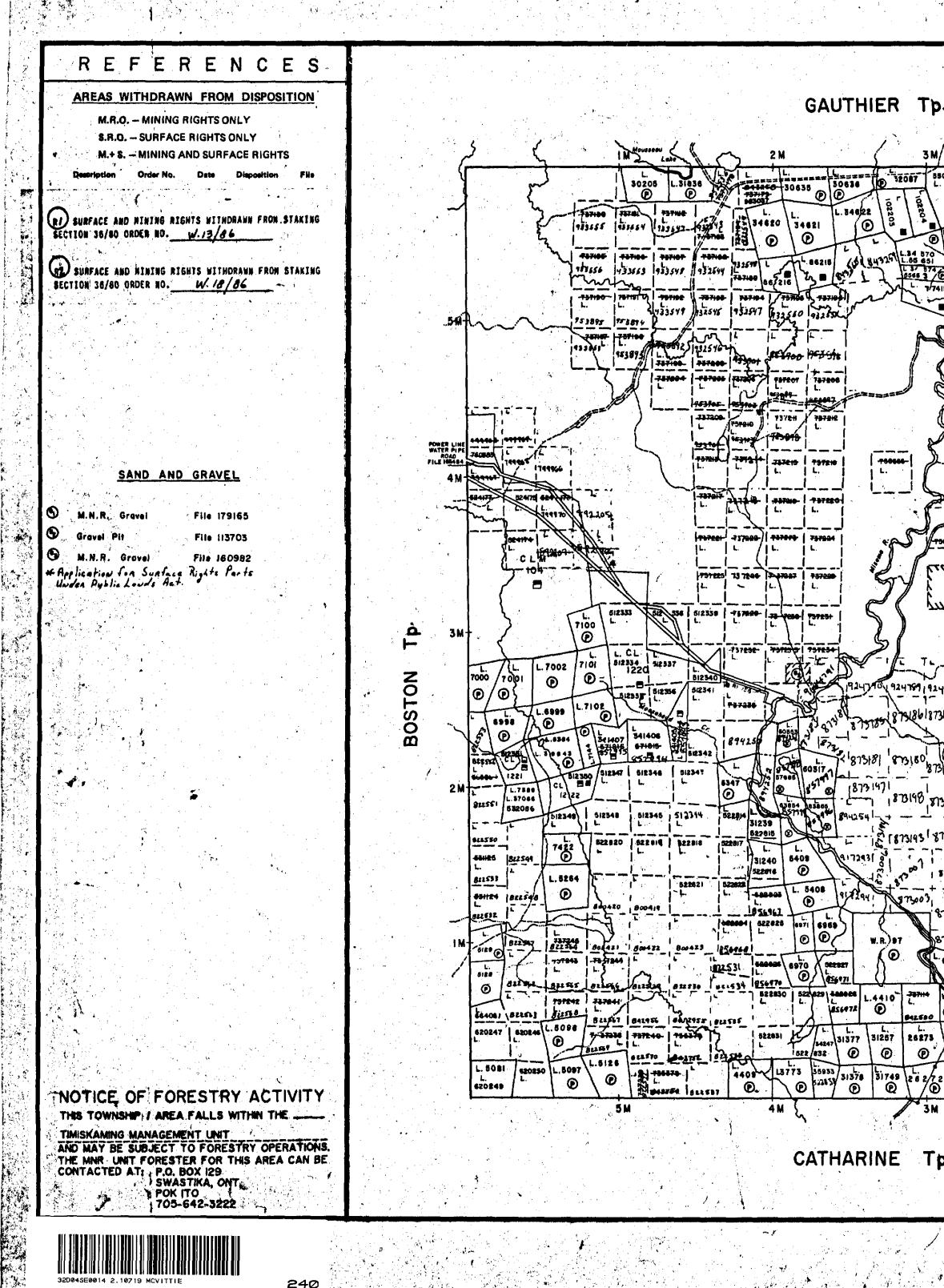
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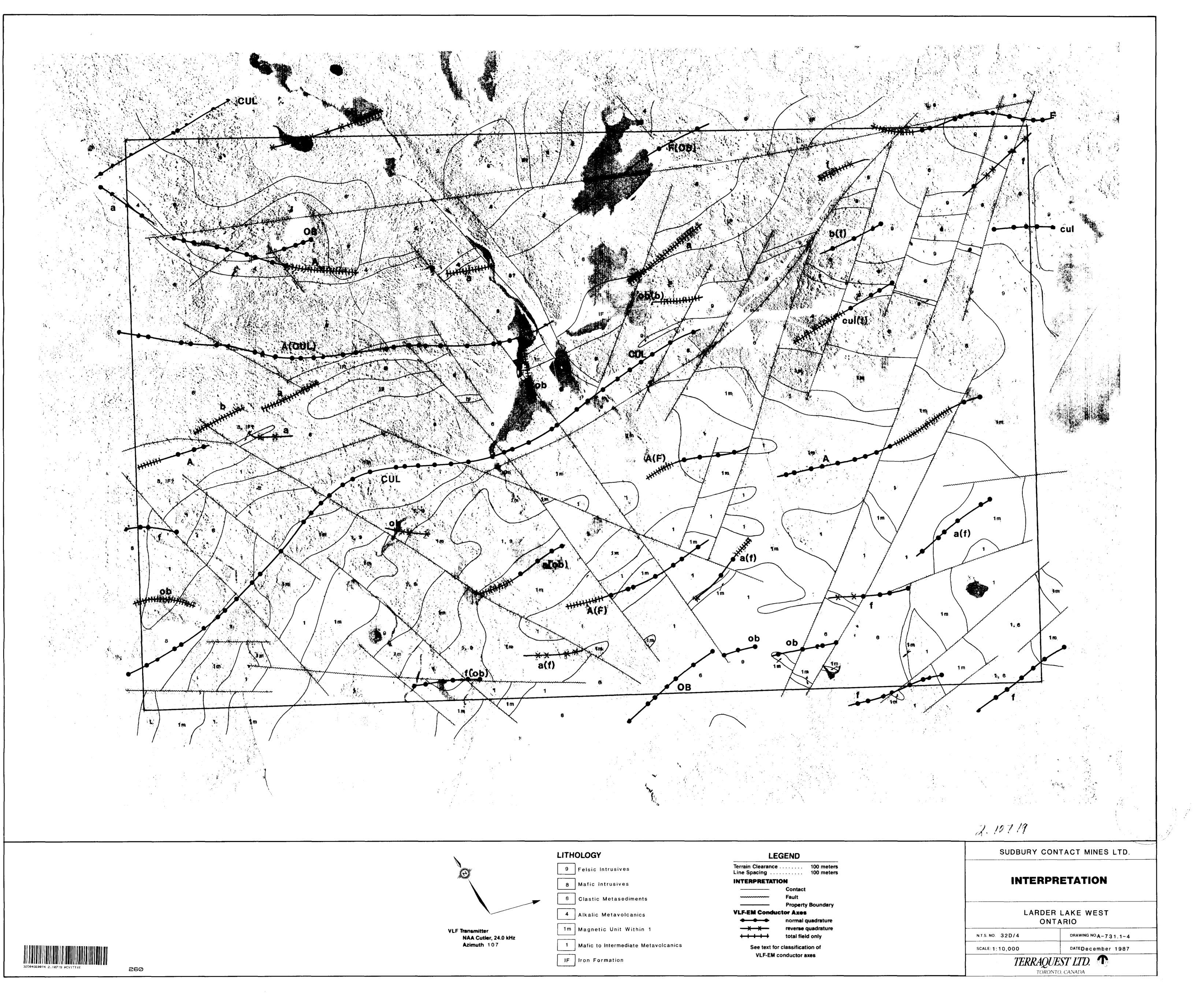
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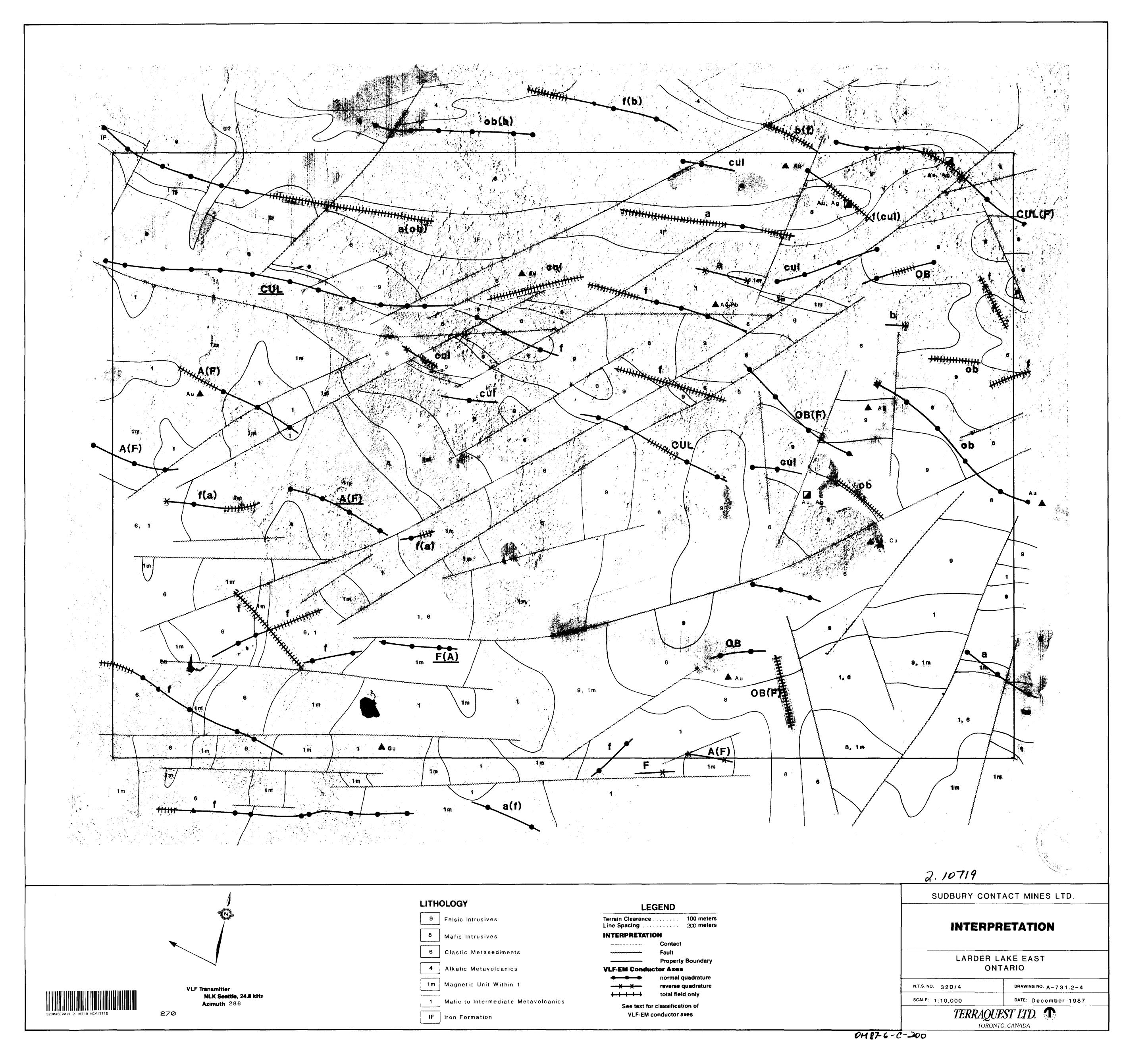
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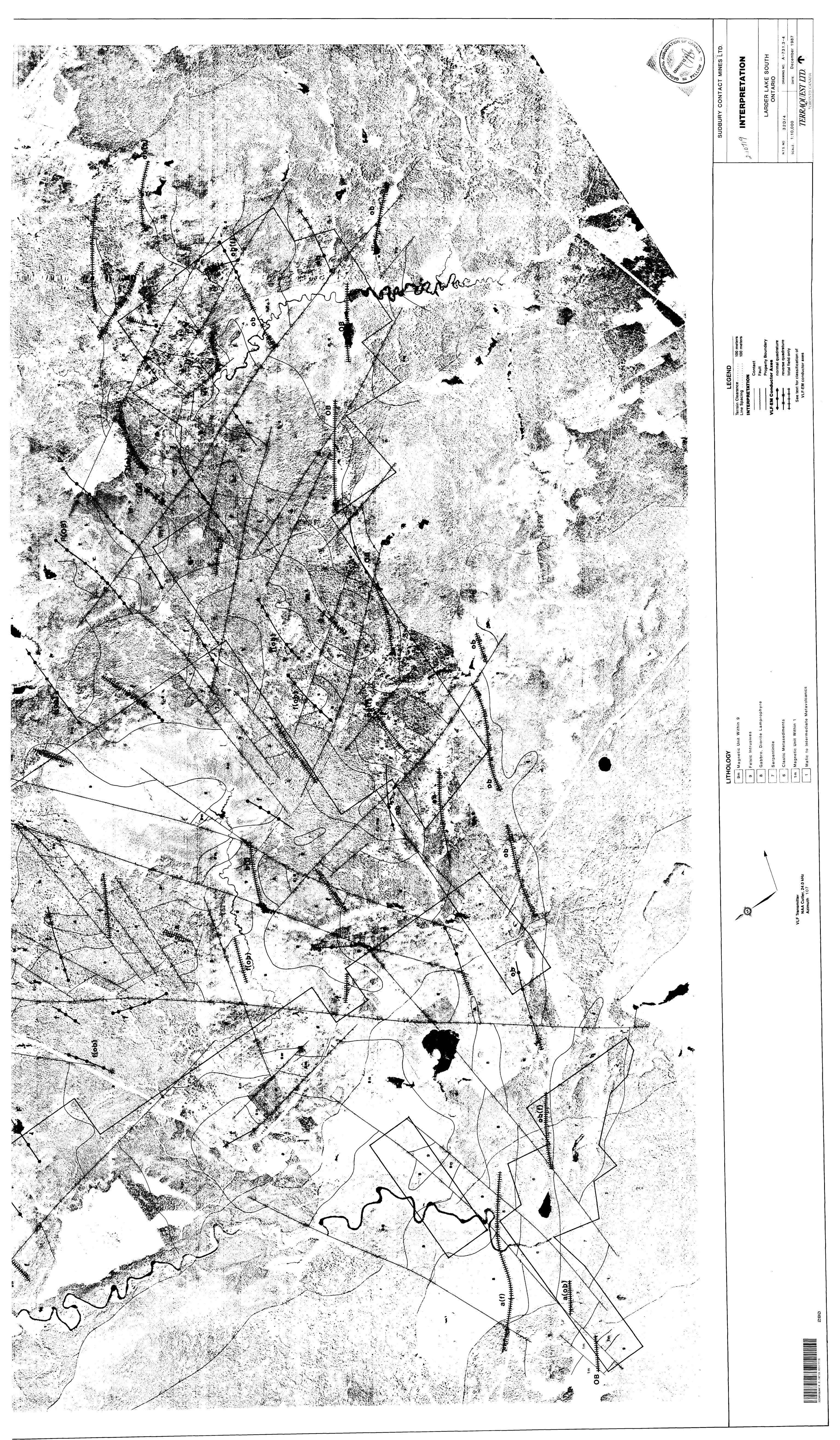
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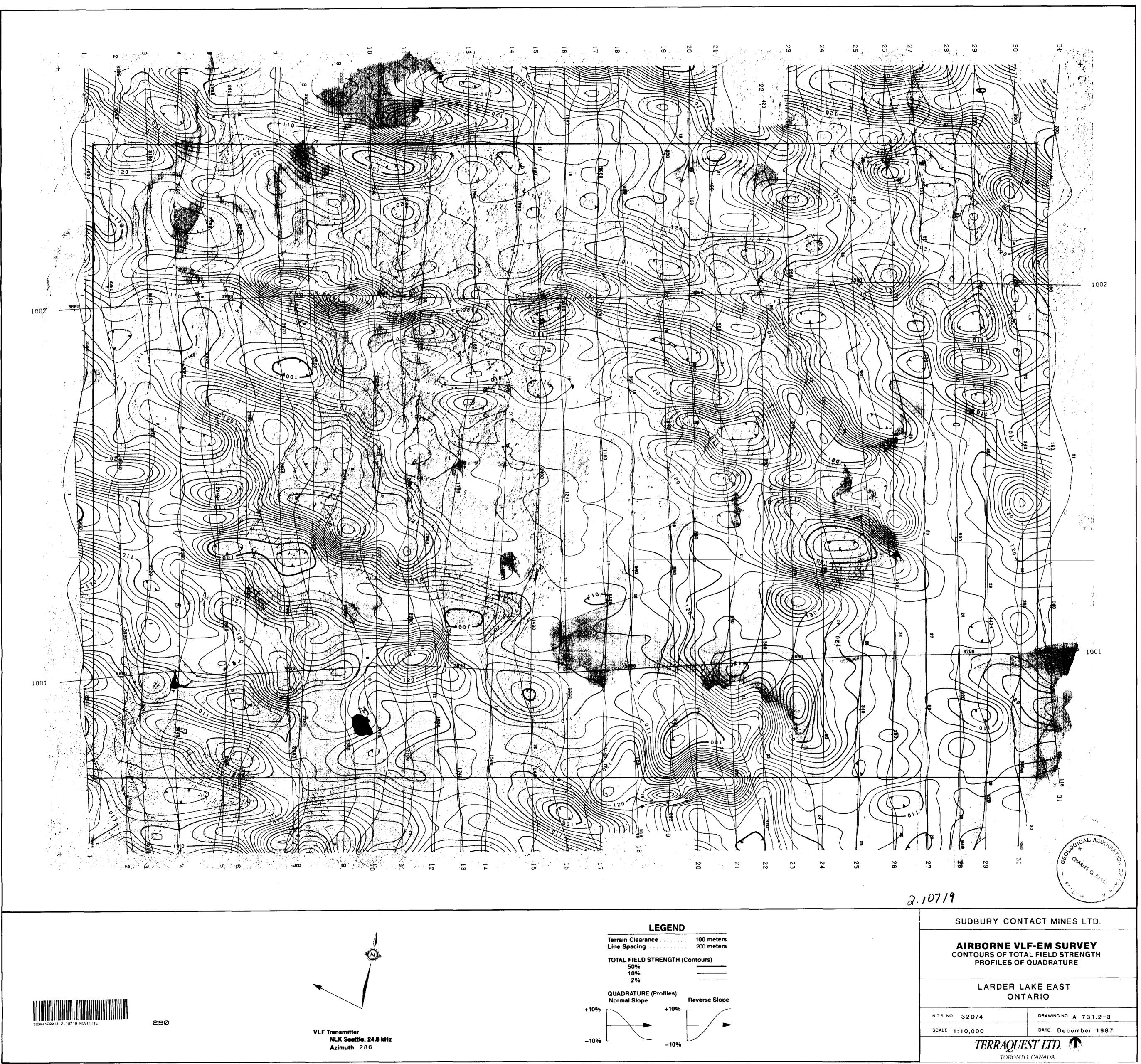
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| | UNSURVEYED LINES: |
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| | RAILWAY AND RIGHT OF WAY |
| | NON-PERENNIAL STREAM |
| | FLOODING OR FLOODING RIGHTS |
| | RESERVATIONS |
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| • | MARSH OR MUSKEG |
| | |
| · · | DISPOSITION OF CROWN LANDS |
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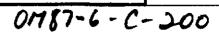


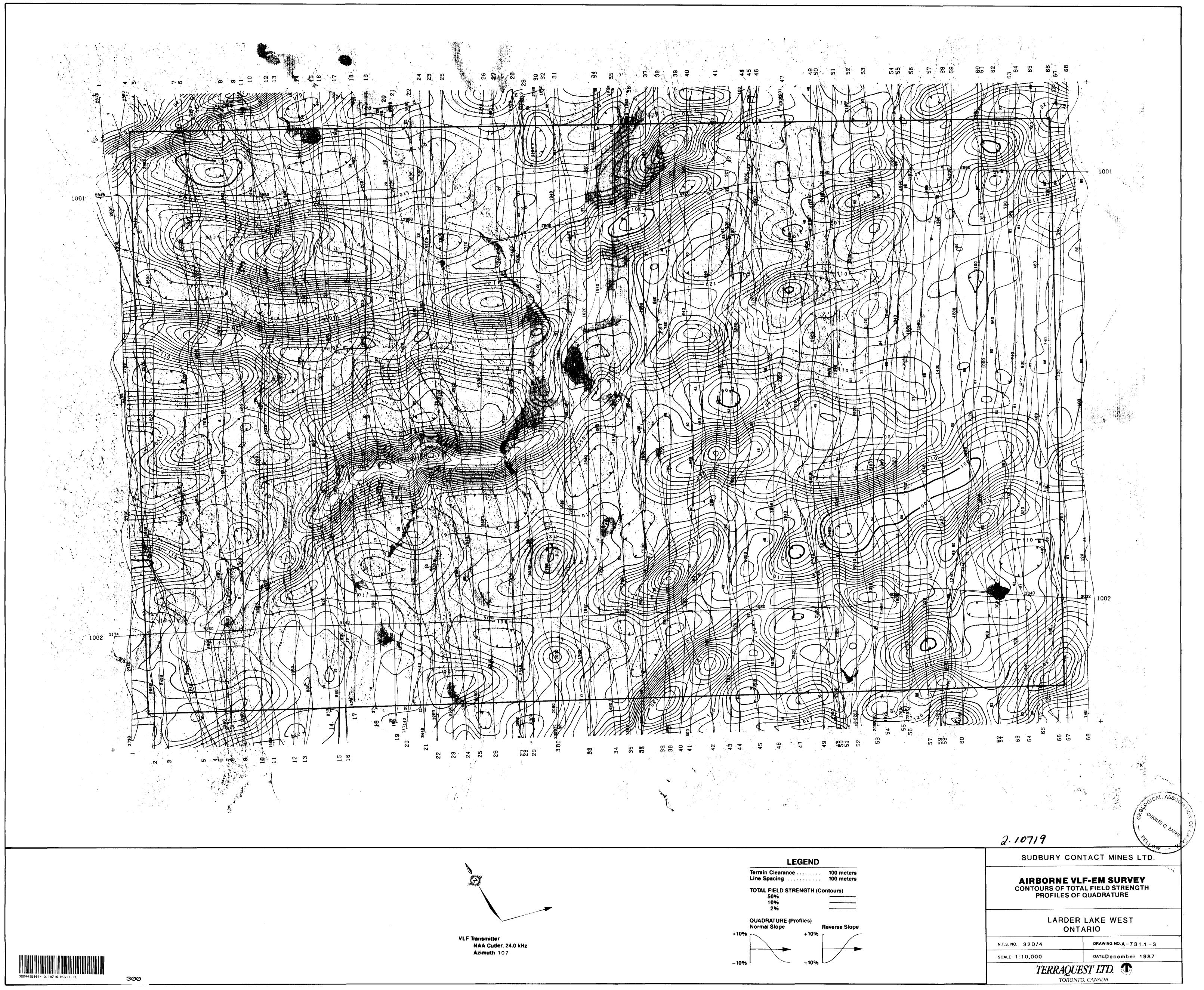
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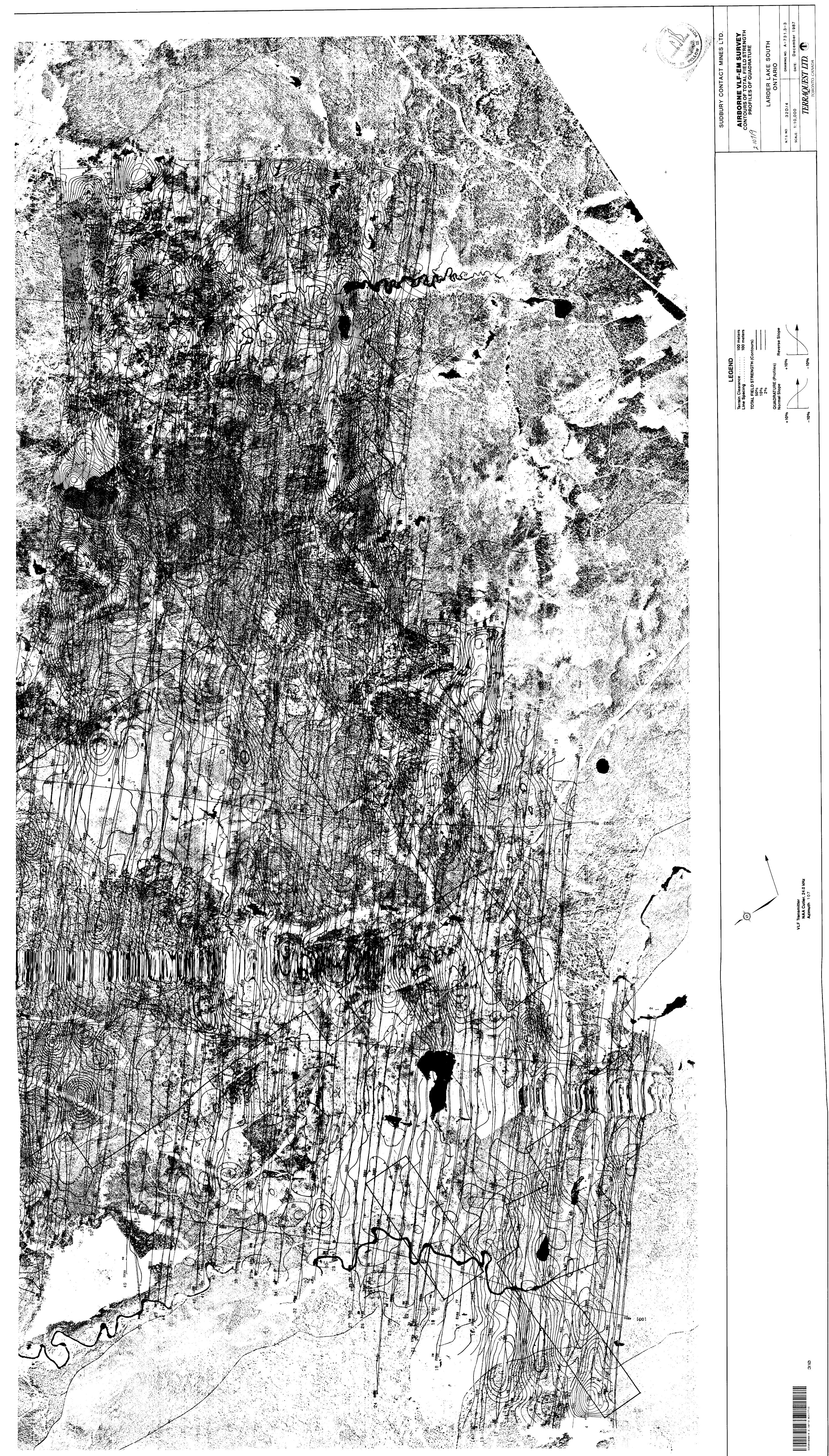


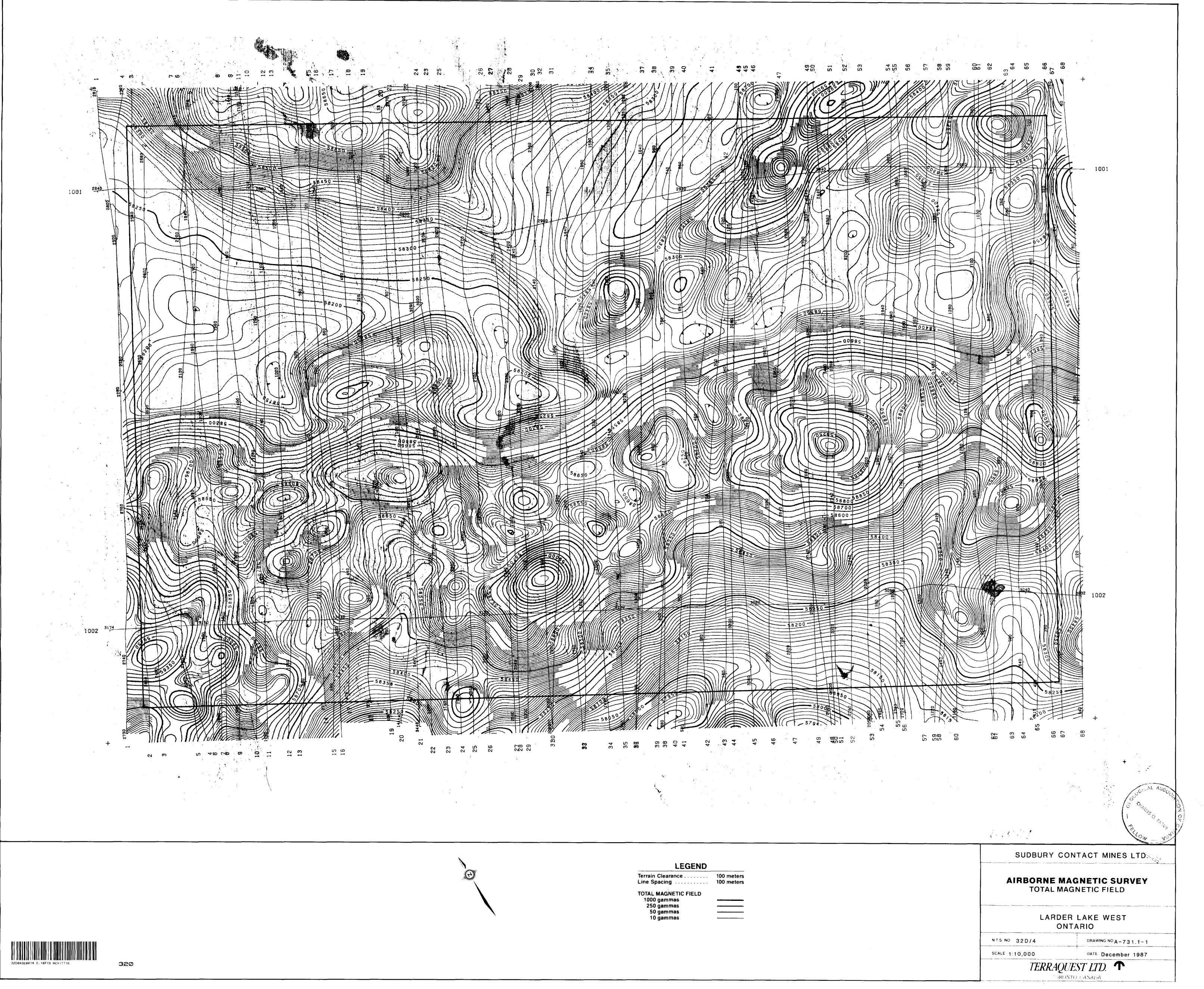






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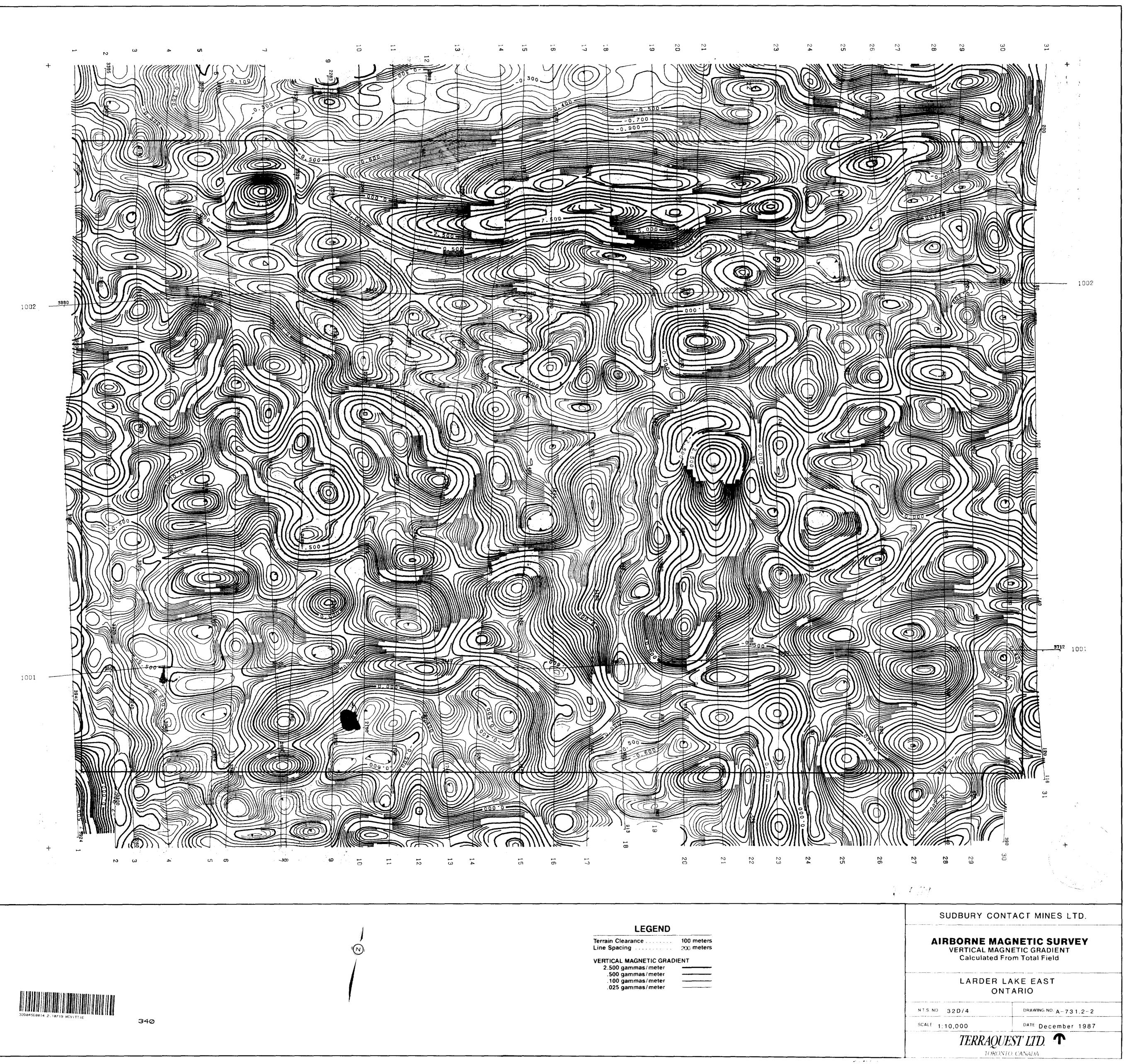




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| Line Spacing | 200 meters |
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| VERTICAL MAGNETIC GRADIENT | |
| 2.500 gammas/meter | |
| .500 gammas/meter | |
| .100 gammas/meter | |
| .025 gammas/meter | |
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