

11015SW9084 2.12844 DENYES

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REPORT ON AN

2.12044

AIRBORNE MAGNETIC
& VLF-EM SURVEY
DENYES, HALCROW AND
GREENLAW TOWNSHIPS
PORCUPINE
MINING DIVISION
ONTARIO

for

PATRIE EXPLORATION SERVICES

bу

TERRAQUEST LTD. Toronto, Canada

October 19, 1989

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No. A-848-2, Vertical Magnetic Gradient

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INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Patrie Exploration Services of P.O. Box. 105, Algoma Mills, Ontario, POR 1AO, Attn: Mr. J. Patrie by Terraquest Ltd., 240 Adelaide Street West, Toronto, Canada. The field work was completed between August 23rd and September 7th 1989 and the data processing, interpretation and reporting between September 8th and October 19th, 1989.

The purpose of a survey of this type is two-fold. First 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 favorable 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

The property is located in the southwestern third of Denyes township, and small areas of Halcrow and Greenlaw townships in the Porcupine Mining Division of Ontario approximately 35 kilometres east of the town of Chapleau. The properties can be accessed by helicopter or float plane using Sylvanite Lake for landing.

The latitude and longitude are 47 degrees 46 minutes, and 82 degrees 50 minutes respectively, and the N.T.S. reference is 410/15.

The survey area is shown in figure 2.

3. GEOLOGY

Map References

- 1. Map 43B: Swayze Gold Area, Scale 1:63,360 ODM 1934
- 2. Map 2120: Halcrow and Denyes Townships. Scale 1:31,680 ODM 1966
- 3. Map 2121: Tooms and Greenlaw Townships. Scale 1:31,680 ODM 1966
- 4. Map 2352: Chapleau. Scale 1:250,000 ODM 1976

The survey area is underlain by Precambrian mafic to intermediate metavolcanics trending to the eastwest with minor associated felsic metavolcanics and clastic metasediments. Much of the area is covered with the drift; consequently the mapping is not very detailed.

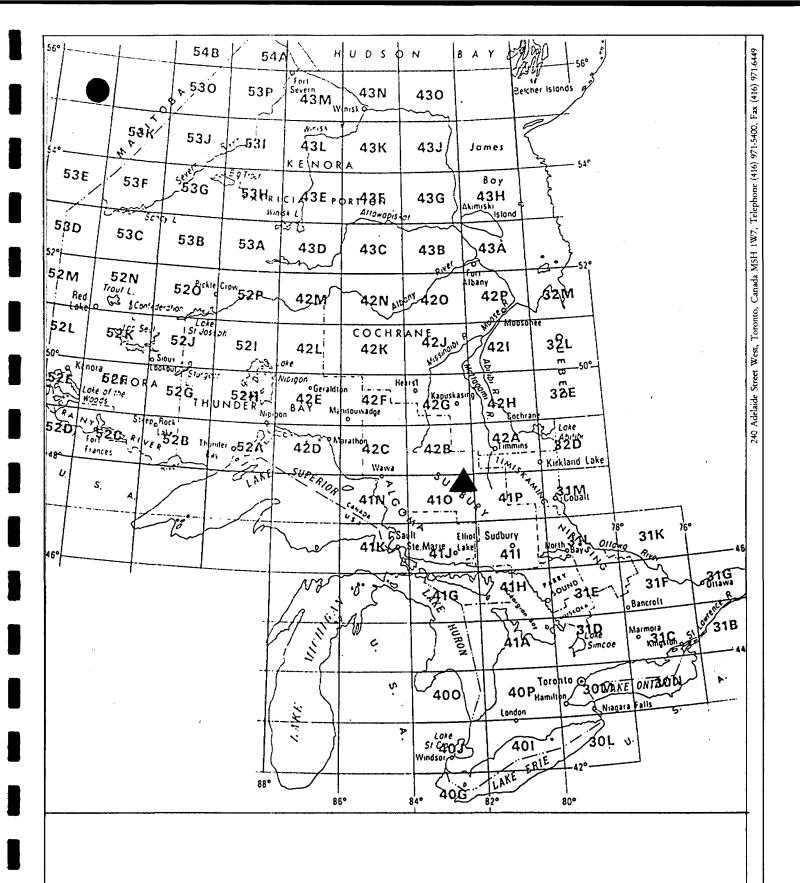


FIGURE 1. Location Map

Beyond the survey area numerous diabase dykes have been mapped trending variably from the northeast through to the northwest. The northeast-southwest trending Rundall Break cuts across the northern part of the survey area just north of Sylvanite Lake. Other faults and lineaments trend to the northwest, north and east.

The geological map shows several quartz veins throughout the metavolcanics and a gold, sulphide and carbonate showing in the northeast corner of Greenlaw Township at the west end of Lee Lake.

4. SURVEY SPECIFICATIONS

4.1 Aircraft and Instruments

The survey was carried out using a Cessna 206 aircraft, registration C-GUCE, which carries a high sensitivity magnetometer and a VLF electromagnetic detector.

The magnetometer is a high sensitivity, optically pumped cesium vapour magnetometer mounted in a wing tip extension, approximately 5 feet beyond the wing tip. The specifications of the magnetometer are as follows:

Working range:

20,000-100,000 gammas

Sensitivity: Sampling rate:

0.001 gammas 0.02 seconds BIW 2321H8

Manufacturer:

Model:

Scintrex, Concord Ontario.

The magnetometer processor is a PMAG 3000 and the data acquisition system is a PDAS 1000, both manufactured by Picodas Group Inc.

The signal to noise ratio of the magnetic response can be improved by a compensation technique provided by Picodas Group Inc. The sources of noise are permanent, induced and eddy current effects of the airframe, and the heading effects. The system uses three orthogonal fluxgate magnetometers to measure the aircraft attitude with respect to the earth's magnetic field vector. A mathematical model is used to solve this interference effect.

The VLF-EM unit uses three orthogonal detector coils to measure (a) the total field strength of the time-varying EM field and (b) the phase 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%

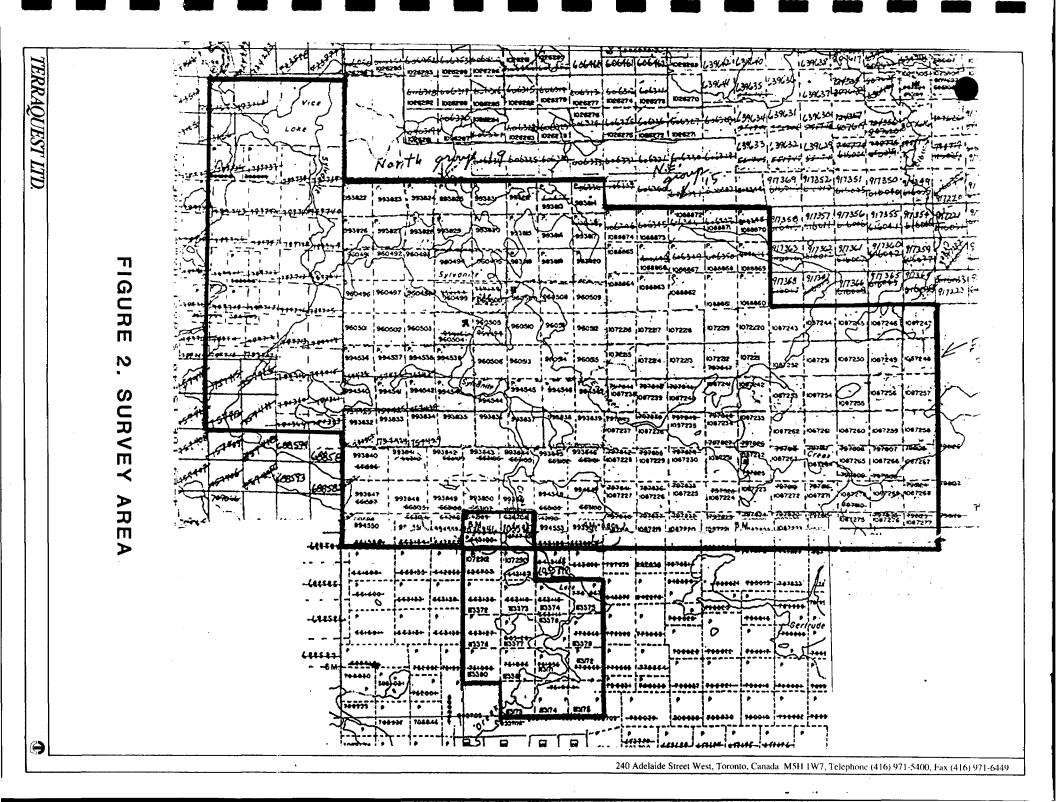
Reading Interval: Model:

0.2 second TOTEM 2A

Manufacturer:

Herz Industries, Toronto, Canada

The VLF sensor is mounted in a plastic tube projected forward from the



idsection of the starboard wing.

Other instruments are:

- * King KRA-10A radar altimeter
- * PDAS-1000 data processor with 40 mByte cassette tape and 3 1/2" disk recorder manufactured by Picodas Group Inc.
- # GPS satellite and Loran-C navigation where possible
- * Video tape flight path confirmation, 1/10th second fiducial intervals and with electronic attitude compensation

4.2 Lines and Data

Line spacing: 100 metres Line direction: 060 degrees

Terrain clearance: 100 m Average ground speed: 193 km/hr

Data point interval:

Magnetic: 11 metres VLF-EM: 11 metres

Tie Line interval: 2 km

Channel 1 (LINE): NAA Cutler, 24.0 kHz
Channel 2 (ORTHO): NSS Annapolis, 21.4 kHz
Line km over total survey area: 507 line km

4.3 Tolerances

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.

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 ten gammas deviation from a smooth background over a period of two minutes or less as seen on the base station analogue record.

Manoeuvre noise: nil

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 photograph forming the mosaic was 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.

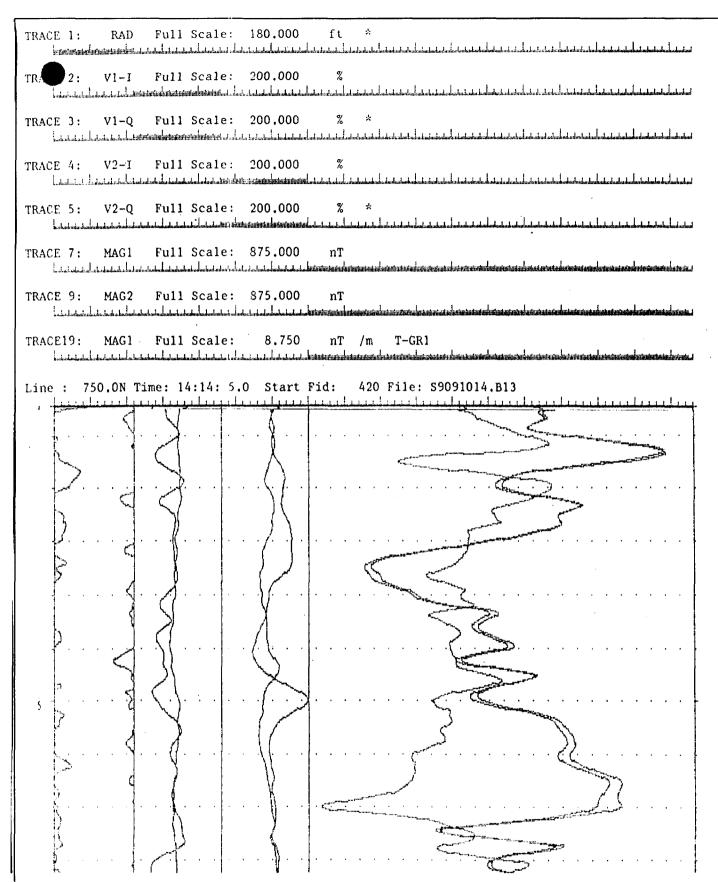


FIGURE 3. SAMPLE OF ANALOG DATA

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 gridded and contoured 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.

6. 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.

LF 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. In some cases, a change in the orientation of the conductor appears to affect the sense of the phase response.

Areas showing a smooth VLF-EM 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 at a scale of 1:10,000 in the back pocket. An interpretation map is also provided. The following notes are intended to supplement these maps.

The total magnetic field has a relief of approximately 800 gammas across the entire survey area and shows two dominant trends, one set to the northeast and one set to the northwest. Both sets contain narrow to broad, linear anomalies. Several large ovoid shaped areas characterized by weak and uniform magnetic responses occur across the southern part of the survey area.

The calculated vertical magnetic gradient improves the resolution of the dominant magnetic trends, particulary the higher intensity anomalies. The vertical magnetic gradient also enhances subtle magnetic anomalies that trend to the west northwest.

The schistocities and the general trend of the lithological unit as shown on the geological maps generally trend from 270 to 290 degrees and rarely to 310 degrees azimuth. Therefore magnetic anomalies that trend from 310 degrees through to the north and northeast have been interpreted to be derived from diabased dykes (Unit 7). Of the northeast trending set the dyke with the highest intensity occurs just north of Sylvanite Lake and coincides with the Rundall Break. This dyke set is parallel to the flight lines and consequently may not be as accurately delineated had the flight lines crossed at an angle. It is suggested that ground magnetic surveys be orientated at approximately 025 degrees azimuth.

The majority of the magnetic anomalies trend to the northwest and are interpreted to be related to diabase dykes (Unit 7). Despite the fact that only one exposure of diabase has been mapped within the property several

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

prominent northwest trending dykes have been mapped in the northern parts of Denyes and Halcrow Townships, several of which occur along strike from the magnetically defined dykes in the survey area. It is cautioned that the interpreted widths may be somewhat exaggerated due to the overwhelming effect commonly associated with strong magnetic susceptibilities.

While the magnetic data provides considerable detail in the delineation of the diabase dykes and post intrusive structures, these responses overwhelm and dominate those from the stratigraphic lithologies. It may be possible to resolve this problem by either trend de-enhancement procedures such as those provided be Geosoft Inc. or by shadow maps with sun rays parallel to the dyke trends.

Most of the exposures of the intermediate to mafic metavolcanics (Unit 1), the felsic metavolcanics (Unit 2) and the metasediments (Unit 3) correlate with weak to moderate magnetic responses. As mentioned above, many of these responses may be derived from the adjacent diabase dykes. The moderate to subtle anomalies trending to the west northwest identified on the interpretation map as Unit 1m may be derived from either an increase in concentration of magnetic minerals such as magnetite or pyrrohotite within the metavolcanics, or a change in composition generally to more mafic proportions, possibly including hypabyssal metavolcanics. It is difficult to discriminate between the northwest trending diabase dykes and the 1m Unit where the orientations are similar.

The southern part of the area containing the large, ovoid, low-magnetic zones has not been mapped in detail due to extensive drift cover. It is suggested that clastic metasediments occur throughout these areas. Alternatively these magnetic lows may be related to alteration zones characterized by a loss in magnetic character such as hematization, silicification, sericitization or carbonatization.

Numerous northeast trending faults have been interpreted from the magnetic data, some of which coincide with topographic lineaments. There appear to be two dominant sets: one at 080 degrees and one at 050 degrees. The latter set may be related to the Rundall Break event. Several poorly defined faults or shear zones trend to the northwest. It is suspected that more structures of similar orientation exists but are difficult to identify as they would be parallel to the dominant magnetic fabric.

The VLF-EM data has identified numerous weak to moderate strength conductor axes trending relatively uniformly to the southeast. This uniformity and orientation indicates that only those conductor axes that couple well with the VLF-EM transmitter (100 degrees azimuth) have been identified. The strongest conductor axes coincide with the edges of lakes or swampy areas and are probably derived from conductive overburden. The quadature responses are consistently low across the entire survey area, possibly indicating that thin conductive overburden may mask or reduce the measured responses from bedrock sources.

A few conductor axes either coincide with or are parallel to magnetic stratigraphy and therefore may possess stratabound bedrock origins. These

May be caused by graphite, disseminated to massive sulphides, or porous flow tops. These should be investigated on the ground using EM or IP techniques.

Numerous northwest trending conductor axes have been interpreted to be caused by structures such as faults or shear zones. This interpretation is suggested by the coincidence with either magnetically defined faults or topographic lineaments and by the long sweeping nature of the conductor axes. This type of conductivity may be related to a) minerals such as sulphides, gouge, or graphite along the structure, or b) an ionic effect created by water or porosity within the structure or along the upper weathered and leached edge. Many such features are recessive and commonly associated with conductive overburden. Structures identified by either VLF-EM or magnetic methods possess potential for epithermal type mineralization.

7. SUMMARY

An airborne combined magnetic and VLF-EM survey has been carried out at 100 metre line intervals with data reading stations at 11 metres along the flight lines. All data is produced on maps at a scale of 1:10,000.

The magnetic data has been used to identify and delineate numerous diabase dykes across the survey area. The responses from these dykes overwhelm those from the surrounding lithologies. Several west-northwest trending magnetically active horizons within the intermediate to mafic metavolcanics have been mapped across the central and southern parts of the survey area. It is suggested that the low responses across the southern part of the survey area may be related clastic metasediments.

Magnetically interpreted faults sets have orientations of 080, 050 and approximately 330 azimuth. Most of the VLF-EM conductor axes appear to be associated with conductive overburden and some with structural sources trending to the northwest. A few appear to be related to stratigraphy and have been recommended for ground follow-up.

Charles Q. Barrie, N.S. CHARLES Q. BARRIE Q. CHARLES Q. BARRIE Q. CHARLES Q.

Patrie Exploration Services P.O. Box 105 · Ph. (705) 849-2391 848 - 83 PE ALGOMA MILLS ONTARIO POR 1A0

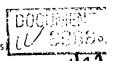
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Report of Work

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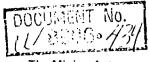
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| Name and Address of Author (c | (Geo-Technical report) | | | 27,98.1 | 07. BB | χρ ₁ γ89 | | |
| Terraquest Ltd., | | treet W | est. Toro | onto, ON M | 15H 1W7 | | | |
| Credits Requested per Each (| | | | aims Traversed | | erical segu | ence) | |
| Special Provisions | Geophysical | Days per | Mi | ning Claim | Expend. | | Mining Claim | Expend, |
| For first survey: | 51 | Claim | Prefix | Number | Days Cr. | Prefix | Number | Days Cr. |
| Enter 40 days. (This | - Electromagnetic | | Y | | - | | | |
| includes line cutting) | - Magnetometer | | | 1087527 | | | 1087549 | |
| For each additional survey: using the same grid: | - Radiometric | | | 1087528 | | | 1087550 | |
| Enter 20 days (for each) | - Other | | | 1087529 | | | 1087551 | |
| | Geological | | | 1087530 | | , | 1087552 | |
| | Geochemical | | | 1087531 | | | 1087553 | |
| Man Days | Geophysical | Days per Claim | | 1087532 | | | 1087554 | |
| Complete reverse side | - Electromagnetic | | | 1087533 | | | 1087555 | |
| and enter total(s) here | Magnetometer | | - | 1087534 | | | 1087556 | |
| 一层的原理 | Radiometric | | | 1087535 | _ | | | _ |
| | | | - | | | | 1087557 | |
| SEP 181989 | - Other | | | 1087536 | | | 1087558 | |
| , b | Geological | | | 1087537 | | | 1087559 | |
| | Geochemical | | | 1087538 | | | 1087560 | |
| Airborne Credits | | Days per Claim | | 1087539 | | | 1087561 | |
| Note: Special provisions | Electromagnetic | 40 | | 1087540 | | | 1087562 | |
| credits do not apply to Airborne Surveys. | Magnetometer | 40 | | 1087541 | | | 1087563 | |
| ROUGR | Ad Formed ic | | | 1087542 | | | 1087564 | |
| xpenditures (excludes powe | er stripping) | · | | 1087543 | | | 1087565 | |
| Type of Work Performed | 1080 | ľ | | 1087544 | | | 1087566 | |
| 1 1 1 | HADO I | - 1 | | | 1 1 | ı | 1 | |

Calculation of Expenditure Days Credits Total Days Credits Total Expenditures \$ 15

Instructions

Performed on Claim(s)

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 Halfer or Ment (Signature) |
|---------------------------|-------------------------------------|
| Sept. 8/89 | 1. Water |
| Certification Verifying F | Report of Work |

Total number of miningclaims covered by this report of work.

40

| Fo | r Office Use (| Only | |
|-------------|----------------|------|-----|
| al Days Cr. | Date Recorded | _ | 1-0 |
| | SEPT. | 18 | 161 |

1087545 1087546 1087547

1087548

| المراجع المتا | • | C | 10 | <i>!</i> |
|---------------|-------|------|--------|----------|
| Date Appl | roved | as F | Tecord | ød |
| | | _ | _ 4 | 7~4 |

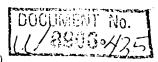
Thereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true



Certification Verifying Report of Work

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)



November:
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.

The Mining Act

| | | | i ne iviining | Act | • | Do not u | ise shaded areas belo | ow. |
|--|--|--------------------|-----------------|-----------------------|----------------------|------------------------------|---|------------------|
| Type of Survey(s) Airborne Magnetic | - VIE Survey | | | | | o or Area)enves | Township | |
| Claim Holder(s) | , VEI SUIVEY | (3) | 7 9 | | | - | tor's Licence No. | |
| Jean P. Patrie | | يه السائد | A Fuel | | | C- | 29877 | |
| Address P.O. Box 105, Alg | noma Mills ON | POR 1A | 70 | | | | | |
| Survey Company | | | - - | Date of Survey | (from & to) | | Total Miles of line | e Cut |
| Terraquest Ltd. | | | | 21 08 Day Mo. | | | 9 | |
| Name and Address of Author (c Terraquest Ltd., | of Geo-Technical report) 240 Adelaide S | treet k | West, Tor | | | | | |
| redits Requested per Each (| Claim in Columns at r | ight | | aims Traversed (| (List in nun | nerical seq | | |
| Special Provisions | Geophysical | Days per Claim | Prefix | ining Claim Number | Expend. Days Cr. | Prefix | Mining Claim Number | Expend. Days Cr. |
| For first survey: | - Electromagnetic | | P | | | | | |
| Enter 40 days. (This includes line cutting) | - Magnetometer | | | 1087251 | | | 1087273 | |
| For each additional survey: | - Radiometric | | | 1087252 | | į | 1087274 | |
| using the same grid: Enter 20 days (for each) | - Other | | | 1087253 | | | 1087275 | |
| | Geological | | | 1087254 | | | 1087276 | |
| | Geochemical | | | 1087255 | | | 1087277 | |
| Vian Days | Geophysical | Days per Claim | | 1087256 | | | | |
| Complete reverse side | - Electromagnetic | 0.0 | | 1087257 | | | | |
| and enter total(s) here | · Magnetometer | | | 1087258 | | | | |
| | Radiometric | | | 1087259 | | REC | ORDED |) |
| 000 1 2000 | - Other | | | 1087260 | 1 | | | |
| SEP 181989 | Geological | | | 1087261 | 1 | SEF | 1 8 1989 | _ |
| | Geochemical | | | 1087262 | | OLI | . 0 1000 | |
| Airborne Credits | | Days per | | | | | | |
| | | Claim | | 1087263 | - | [| | |
| Note: Special provisions credits do not apply | Electromagnetic | 40 | | 1087264 | | A Real Property | | _ |
| to Airborne Surveys. | Magnetometer | 40 | | 1087265 | | | | |
| | Radiometric | | | 1087266 | | | 1989 | |
| xpenditures (excludes power type of Work Performed | er stripping) | | | 1087267 | | | | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | 1087268 | 1 | | · • • • · · · · · · · · · · · · · · · · | |
| Performed on Claim(s) | | | | 1087269 | | | | |
| | | | | 1087270 | | | | |
| Calculation of Expenditure Days | Cardin | | | 1087271 | | | | |
| Total Expenditures | • | Total s Credits | | 1087272 | | Ì | | |
| \$ | ÷ [15] = [| | | | | | umber of mining covered by this | 27 |
| nstructions | | | | | | | of work. | |
| Total Days Credits may be ap choice. Enter number of days | | | | For Office Use (| | Mining | Récorder) // | |
| in columns at right. | | | Recorded | | | | ごとうだれ | |
| Date Rec | corged Holder or Agent (| Signature) | 1/1/2 | Date pproved | 1818 d as Records | Br heh | 100 | |
| Sept. 8/89 | (1 1 1 stis | | 1 600 | A M | 25/ | 9500 | | |

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.



Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

November 7Instructions: - 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.

The Mining Act

7 9 5

| Type of Survey(s) | | 6) | | 1 18 A. A. | Township | | | |
|---|------------------------|---------------------|---|------------------------|---------------------|----------------------|---------------------|--|
| Airborne Magnet | ic - VLF Surve | y stat | . | | Deng | yes Tow | | |
| Claim Holder(s) Jean P. Patrie | | | \$ 12 : | , and for a | | ľ | or's Licence No. | |
| Address | | | | 3033 | | | 23077 | |
| P.O. Box 105, A | lgoma Mills, O | N POR | 1A0 | * | | | | |
| Survey Company | | • | | Date of Survey | | | Total Miles of line | Cut |
| Terraquest Ltd. Name and Address of Author (o | | | 1 & | 2 ₁ , 08. 1 | 35 88 1 | 22. ₁ 89. | | ······································ |
| Terraquest Ltd., | | | West, To | oronto, ON 1 | M5H 1W7 | | | |
| Credits Requested per Each (| · | | | Claims Traversed (1 | | rical segu | ence) | |
| Special Provisions | Geophysical | Days per Claim | | Mining Claim Number | Expend. Days Cr. | | Mining Claim Number | Expend. Days Cr. |
| For first survey: | - Electromagnetic | Ciairii | Premx | Number | Days Cr. | Frenx | Number | Cays Cr. |
| Enter 40 days. (This includes line cutting) | _ | | - | 1020011 | | | 3007000 | _ |
| , | - Magnetometer | | 200 | 1072211 | | | 1087229 | |
| For each additional survey: using the same grid: | - Radiometric | | | 1072212 | | | 1087230 | |
| Enter 20 days (for each) | - Other | | | 1072213 | | | 1087231 | |
| | Geological | | | 1072214 | | , | 1087232 | |
| | Geochemical | | | 1072215 | | | 1087233 | |
| Man Days | Geophysical | Days per Claim | | 1072216 | | | 1087234 | |
| Complete reverse side | <u>Electromagnetic</u> | | | 1072217 | | | 1087235 | |
| | Magnetometer | | | 1072218 | | | 1087236 | |
| - (ii.) · | Rapiometric | | 10 13 13 13 13 13 13 13 13 13 13 13 13 13 | 1072219 | | | 1087237 | |
| SEP 181989 | Other | | | 1072220 | | | 1087238 | |
| | Geological | | | 10,2220 | | | 1087239 | |
| 1 | Geochemical | | | 1087218 | | | 1087240 | |
| Airborne Credits | | Days per Claim | 1 | 1087219 | | | 1087241 | |
| Note: Special provisions | Electromagnetic | 40 | | 1087220 | | | 1087242 | |
| credits do not apply to Ailborne Surveys. | Magnetometer | 40 | 1 1 | 1087221 | | | 1087243 | |
| to All point Strates. | Radiometric | | | 1087222 | | | 1087244 | |
| Expenditures (excludes power | er stripping) | | | 1087223 | | | 1087245 | |
| Expenditures (excludes power type of Work Ferformed SEP | 1 8 1989 | | | 1087224 | | | 1087246 | |
| Performed on Glaim(s) | | | | 1087225 | | | 1087247 | |
| | | | | 1087226 | | | 1087248 | |
| | | | | 1087227 | | | 1087249 | |
| Calculation of Expenditure Days Total Expenditures | | Total rs Credits | | 1087228 | | | 1087250 | |
| \$ | ÷ [15] = [| | <u> </u> | | i | Total nu | mber of mining | |
| Instructions | | | - | | | | vered by this | 43 |
| Total Days Credits may be ap choice. Enter number of days | | | | For Office Use O | nly |] | $D = \overline{D}$ | |
| in columns at right, | | | Total Day Recorded | SEAT | 12/00 | Mining Ro | etorder | 4. |
| Date Rec | orded Holder of Agent | Signature) | 1 July | Date A roved | as Recorded | Branch | rector - | 1 4. |
| Sont, 8/89 | 4 P. Pal | س | [3,1] | Man: | 25/9 | D | | > |
| Certification Verifying Repo | rt of Work | | | | | ON | | |

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

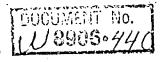
or witnessed same during and/or after its completion and the annexed report is true.

| Ministry of Northern Devictor | SE NOTE: 2 | | | W 8906 | - 436 Instructions - Please typ | (0) | IMENT NO. 8905•478 |
|---|---------------------------------------|---------------------------------------|---------------------|---|------------------------------------|--|--|
| Outario and Mines | ment parts subvini | Had by | J. Vatr | ie - | - Refer to Sc | • | t for assessment work requirements er survey type. |
| Mining Act | Report of Wo (Geophysical, Geo | rk [©]), | | | attach a l e - Technical | it Reports and maps in | used exceeds space on this form, duplicate should be submitted to Development and Lands Branch |
| Recorded Holder(s) | Magnetic - VLF | _ | ; | Poscopine | 1 | Prospecto | J Town Ship |
| Michael | Alexander | Irem | bla y | | ···· | LU | -21667 |
| P. C. Box | 183 | Timm | ins, | Ontario | | | -264-9052 |
| Terrac | vest Ltd | | | | | Date of C | American de to |
| Touraquest Ltd | 240 Adelan | le Stre | et Wis | +, Toront | o, Ori | t. Zi C | urvey (from & to) |
| Credits Requested per E | | | Mining Cl | aims Traversed (| | imerical sequenc | e) |
| Special Provisions | Gellonysical | Days per Claim | Profix | ning Claim Number | t, Prefix | lining Claim Number | Mining Claim Prefix Number |
| For first survey: | - Eractromagnetic | | | 1072912 | P | 1113174 | |
| Enter 40 days, (This include line cutting) | s + Magnetorneter | | * 0 | 1072913 | P | 1113175 | |
| For each additional survey: | - Other | | | 1113372 | | | |
| using the same grid | Geological | • • • • • • • • • • • • • • • • • • • | 0 | 1113373 | | RECE | IVED |
| Enter 20 days (for each) | Geschemical | | P | 1113374 | | OCT 2 | S 1080 |
| Man Days | Gerphysical | Days per | D . | 1113375 | | | 0 1900 |
| Complete reverse side and | - Electromagnetic | Claim | | 1113376 | | MINING LAN | DS SECTION |
| enter total(s) here | - Magnetometer | | 12 | 1113377 | | MILLIAN MILL | |
| | Other | | 7 | 1113378 | | DESC | POED |
| | Geological | ! | | 1113379 | | | |
| | : Geochemical | | P | | | | |
| Airborne Credits | | Days per | 0 | 1113380 | | | 1 1989 |
| Note: Special provisions | E'ectromagnetic | Claim | D | 11133 81 | | | |
| credits do not apply to Airborne | Magnetometer | 40 | P . | 1113171 | | _ | |
| Suneys | Other | 40 | P | 1113172 | | | |
| 7 | | | | 1113173 | | ************************************** | |
| Total miles flown over c | claim(s). lecarded Holder of Agent | (Signature) | | Mariania de Carlos Mariania de la calencia de Mariania (C. 17, 1773). I | | Total number of | |
| Cet. 10/89 | Vinle Cent | | *29/20 | | | mining claims of by this report of | |
| Certification Verifying Re | | | <u></u> | hax reache | D | · | |
| I hereby certify that I have a prafter its completion and annex | ed report is true | edge of the fac | its set forth in th | is Report of Work, h | aving pertor | med the work or with | essed same during and/or |
| Name and Address of Person IV. A. Tremb | , | | | | | | |
| | • | Trott \$ *** | motis -264- 9 | 3 D (de | , | Certified | By (Şignayım) / () |
| P.O. Box 18 | 3 Timmin | 15 1705 | -264-9 | 052 OC | | 891 Nh | ile Cembry |
| For Office Use Only | / | | | , need to | | | WATER |
| Tetal Days Date Recorded | Flavor F | Daniel Company | <u> </u> | | | Million | |
| OCT. 1 | 1/89 | vectorial / | A. J. | | | OCT 11 | |
| 1230 Date Applied and | as Here wheel Process | Com | n mit Lands T | | 10 | 104 (6.10) | |
| | | | | | | | |



Report of Work

(Geophysical, Geological, Geochemical and Expenditures)



NOVEMBER O (Instructions: - Please type or print.

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

The Mining Act

| - | | | | | _ | Do not ase | snaded areas below | ', |
|--|--------------------------|--------------------|------------|---------------------------------------|---------------------|--------------|------------------------------|---------------------|
| Type of Survey(s) | - VIE Sussess | | | | Township | | nchin | |
| Airborne Magnetic | - VLF Survey | | | | uen | yes Tow | NSN1D r's Licence No. | |
| Jean P. Patrie | | 6) | 7 9 | | | riospecto | C-29877 | |
| Address | | | | | | <u> </u> | | |
| P.O. Box 105, Algo | oma Mills, ON | POR 1AO | | | | | | |
| Survey Company Toppsource 1 td | | | | Date of Surve | | | Total Miles of line (| Cut |
| Terraquest Ltd. Name and Address of Author (o | f Geo-Technical report) | | | [8], M8 | 489 · 008 | WAS ABA | | |
| Terraquest Ltd., 2 | | reet He | st, Toro | nto, ON M5 | 5H 1W7 | | | |
| redits Requested per Each (| Claim in Columns at r | ight | Mining Cla | aims Traversed | (List in num | erical seque | ence) | |
| Special Provisions | Geophysical | Days per Claim | Prefix Mi | ning Claim Number | Expend. Days Cr. | Prefix | lining Claim Number | Expend. Days Cr. |
| For first survey: | - Electromagnetic | | | | | | | |
| Enter 40 days. (This includes line cutting) | - Magnetometer | | | 960491 | 17/17 | | 960513 | 17/17 |
| For each additional survey: | - Radiometric | | | 960492 | 11 | | 960514 | 1, |
| using the same grid: Enter 20 days (for each) | - Other | | | 960493 | 14 | | 960515 | |
| 2 20 00,7 (101 00011) | Geological | | | 960494 | 1/ | | | |
| | Geochemical | | | 960495 | и | | | |
| Man Days | Geophysical | Days per Claim | | 960496 | 11 | SECO | RDED | |
| Complete reverse side and enter total(s) here | - Electromagnetic | | | 960497 | 11 | | 7-11-13-14-13- | |
| 1 | - Magnetometer | | | 960498 | ./ | | 1 0 4000 | |
| | - Radiometric | | | 960499 | " | SEP | 1 8 1989 | |
| SEP 1 5 1989 | - Other | | | 960500 | ′′ | | | |
| | Geological | | | 960501 | <i>"</i> L | | | |
| LT. | Geochemical | | | 960502 | 4 | 973 | | |
| Airborne Credits | | Days per Claim | | 960503 | '/ | 71 | and the sale of the | |
| Note: Special provisions credits do not apply | Electromagnetic | 40 17 | | 960504 | . 1 | | 1959 | |
| to Airborne Surveys. | Magnetometer | 40 11 | | 960505 | :/ | | | |
| | Radiometric | | | 960506 | 11 | | وماعم مديوري وبواليو | |
| xpenditures (excludes power ype of Work Performed | er stripping) | | | 960507 | " | | | |
| | | | | 960508 | 40/40 | | | |
| erformed on Claim(s) | | | | 960509 | 17/17 | | | |
| | | | | 960510 | 11 | | | |
| alculation of Expenditure Days | Credits | | | 960511 | ,, | | | |
| Total Expenditures | 7 | fotal s Credits | | 960512 | 11 | | | |
| \$ | ÷ [15] = [| | | | | | nber of mining vered by this | 25 |
| nstructions Total Days Credits may be ap | portioned at the claim b | older's | | | | report of | | |
| choice. Enter number of days in columns at right. | | | Total Days | For Office Use Cr. Date Recorded | | Mining Pla | Aorder , | |
| | | | Recorded | SEPT | 10/27 | |) White | |
| Son / e/pa | orgod Holder or Agent (S | Signaturel | 1896 | Date Approved | d as Recorded | Will | Pector | - 11 |
| 771 0/47 | T VI VI A MAN | | | | | 7- 7- | 1 | . |

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.

Ministry of Natural Resources

Certification Verifying Report of Work

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

| ٠. | Instruc | tions: | - |
|----|---------------|--------|---|
| | DOCUMENT No. | 1 | - |
| | LL/331150 441 | Vote: | - |

November 07

Please type or print.

If number of mining claims traversed

If number of mining claims traversed exceeds space on this form, attach a list. Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

| | The Mining Act | Do not use shaded areas below. |
|--|--------------------------|--|
| ype of Survey(s) Airborne Magnetic - VLF Survey | | Denyes Township |
| Daniel F. Patrie | 2.12044 | Prospector's Licence No. C-32612 |
| P.O. Box 45, Massey, ON POP 1PO | 2 | |
| Terraquest Ltd. | Date of Survey (f | rom & to) Total Miles of line Cut |
| Jame and Address of Author (of Geo-Technical report) Terranuest 1td 240 Adelaide Str | reet West Toronto ON MSH | 4 1W7 |

| P.O. Box 45, Mass | sey, ON POP 1P | 0.0 | | | | | | | *** ****** | | |
|--|---------------------------|-------------------|--------|----------|----------------|--------------|----------------|-------|--------------------|-------------------------------|----------|
| Survey Company Terraquest Ltd. | | • | | | Date of Survey | | | | ρ9 _, 89 | Total Miles of line | Cut |
| Name and Address of Author (c Terraquest Ltd., | | traat | Mo | st Toxor | | . 122 ISH | | 1. '. | .0. [. 1., . | t | |
| Credits Requested per Each (| | | we. | | ns Traversed (| | | mei | ical secur | encel | |
| Special Provisions | Geophysical | Days per | 7 | | ng Claim | | pend. | 11161 | | Mining Claim | Expend. |
| For first survey: | | Claim | - | Prefix (| Number | Da | ys Cr. | | Prefix | Number | Days Cr. |
| Enter 40 days, (This | - Electromagnetic | | | | | | | | | 1 | |
| includes line cutting) | - Magnetometer | 1 | | _ | 994536 | | | | * 24 | A# 1 | |
| For each additional survey: | - Radiometric | <u> </u> | | | 994537 | | | | | 1989 | |
| using the same grid: Enter 20 days (for each) | · Other | | | | 994538 | | | | | | |
| | Geological | | | 1 | 994539 | | | | | | |
| | Geochemical | | | : | 994540 | | | | | | |
| Man Days | Geophysical | Days per Claim | | | 994541 | | | | | | |
| Complete reverse side and enter total(s) here | : • Electromagnetic | | | | 994542 | 1 | R | E | CO | RDED | |
| and antor totally, here | - Magnetometer | | | , | 994543 | | | | | | |
| DEFINITION | Radiometric | | | | 994544 | | | Ç | FP 1 | 3_1989 | |
| | Other | | 1 | | 994545 | | | | <u></u> | 0-1003 | |
| 1989 | Geological | | | | 994546 | | | | | | |
| | Geochemical | | | | 994547 | | | | | | |
| Airborne Credits | Part to the A | Days per Claim | | | | | | | | | |
| Note: Special provisions credits do not apply | Electromagnetic | 40 | 15 | | 993832 | | | | | | |
| to Airborne Surveys. | Magnetometer | 40 | 15 | | 993833 | | | | | | |
| | Radiometric | | | | 993834 | | | | | | |
| Expenditures (excludes power Type of Work Performed | er stripping) | | - ר | | 993835 | | | | | | |
| Type of Work Ferrormed | | | | | 993836 | | | | | | |
| Performed on Claim(s) | | | | | 993837 | | | | | | |
| | | | - | | 993838 | | | | | | |
| | | | _ | | 993839 | | | | | | |
| Calculation of Expenditure Days Total Expenditures | 7 | Fotal Credits | | | | 1 | | | | | |
| \$ | ÷ [15] = [| | | <u> </u> | | | | , , | | mber of mining byered by this | 20 |
| Instructions Total Days Credits may be ap | pportioned at the claim h | older's | | | - C.(| | | | report of | work. | ۷.0 |
| choice. Enter number of days in columns at right. | | | | | Office Use C | | | | Mining [] | regarder , []]. | |
| Date (1/9/89) | rorded Holder or Agent of | ingrature) |] | 600 | Date Approved | • • | (12) reordé | : 1 | WA | 2000 | <u> </u> |

I hereby certify that I have a personal and intimate showledge 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 appeared report is true.

OF Raney Twp. - M.1069 DENYES DISTRICT OF SUDBURY PORCUPINE 894532 894536 894540 894889 666410 1.66984 100 1.6984 625624 1025623 1025622 1025621 1025620 1025619 917392 MINING DIVISION 1025553 1025547 1025548 1025549 1025550 1025551 1025552 6547 60636 606446 606497 606498 606477 606 500 SCALE: 1-INCH == 40 CHAINS MAGHETIC DECLINATION 9' WEST **LEGEND** 1028288 102528 1026245 1026244 1026243 1026248 1026241 1926319 1926399 11926398 1926397 453950 463964 453961 45396 1025562 1025561 1025560 1025559 025567 025568 025569 1026306 1 1026305 1026304 1026303 1 PATENTED LAND 1026250 1026249 1026248 1026247 1026246 1025563 1025564 1025565 1025566 CROWN LAND SALE LEASES LOCATED LAND 1025576 1025575 1025574 1025573 1025572 102557] OF OCCUPATION MINING RIGHTS ONLY 1025318 1025319 1025289 SURFACE RIGHTS ONLY 1639638 267617 201112 1025293 1025294 8 305070 3 56902 **ROADS** 0 1026281 1026289 606460 606461 606461 1026269 639640 1639640. IMPROVED ROADS 1025294 1025295 1025296 1025297 1025298 M. II 5 KING'S HIGHWAYS RAIL WAYS 1026292 1026288 1026285 1026282 1026279 1026277 1026274 1026275 1026270 POWER LINES 151/391,34/639631 (39630) 724357 734350 807616 807626 917241 1907655 917237 1 MARSH OR MUSKEG 1026276 Twp MINES 1026283 1026278 1026275 1026272 1026271 CANCELLED (39633 1, 39632 1639629 747774 740775 19877 1744777 616021 807632 917236 PATENTED FOR S.R.O. 26 Way **NOTES** 17.32 Bo 145 9/7358 9/7357 9/7356 9/7355 9/7354 9/7221 9/7226 9/7229 9/7234 200071 1088870 176017 1716017 1716017 171736 400 surface rights reservation along 993817) 1088874 1088873 the shores of all lakes and rivers ₩ L. U. P. 197364 John 1 917224 917231 V 1088963 1088861 1088860 960518 960512 107226 107227 107228 107220 107220 1097293 1007244 1072214 1072218 M. + 11cha. + 801ka IM. 4 chi 1994540 994641 999542 999648 994545 994546 994546 994546 1097239 1087246 1087239 1087246 757453 159425 15142A 798135 79CH36 PLAN NO. M. 758 Greenlaw Twp. - M.895 ONTARIO

200

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Twp.

Halcrow

MINISTRY OF NATURAL RESOURCES

THE TOWNSHIP

C.S.

Loc.

L.Q.

M.R.O.

***7

WHI Carrow

SURVEYS AND MAPPING BRANCH

THE TOWNSHIP OF

HALCROW

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

| PATENTED LAND | P |
|-----------------------|---------------|
| CROWN LAND SALE | C.S. , |
| LEASES | Q |
| LOCATED LAND | Loc. |
| LICENSE OF OCCUPATION | L.O. |
| MINING RIGHTS ONLY | M.R.O. |
| SURFACE RIGHTS ONLY | S.R.O. |
| ROADS | |
| IMPROVED ROADS | |
| KING'S HIGHWAYS | |
| RAILWAYS | |
| POWER LINES | - |
| MARSH OR MUSKEG | مرم م |
| MINES | · 🛠 |
| CANCELLED | . C . |
| | |

NOTES

400' Surface Rights Reservation around all lakes and rivers.



Received May 8/80

PLAN NO.

M 906

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

Twp. - M.975

TITEMENTES

M.B.O. - MINING HIGHTS ONLY

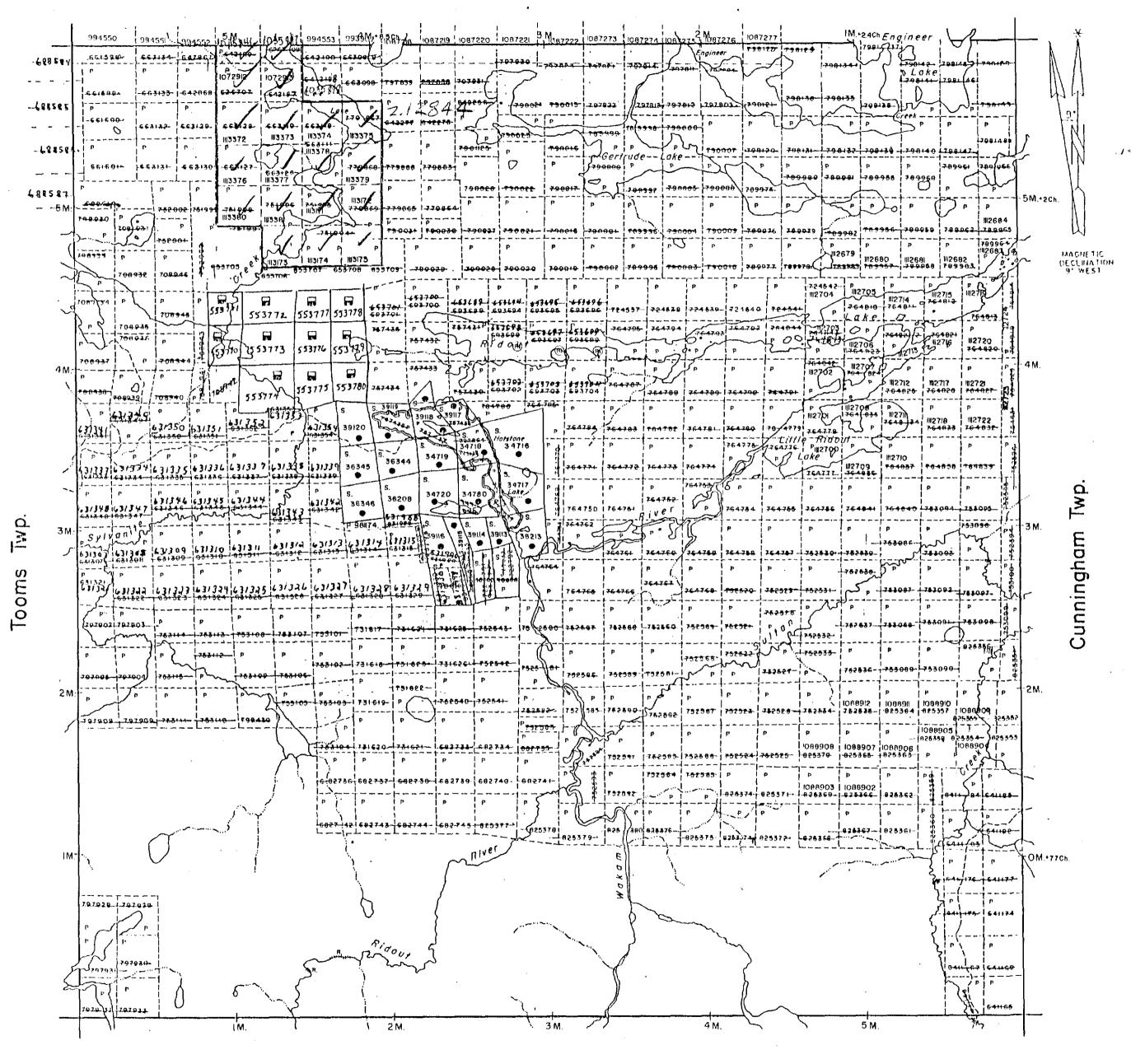
S.R.O. - SURFACE RIGHTS ONLY

M.+ S. - MINING AND SURFACE RIGHTS

AREAS WITHDRAWN FROM DISPOSITION

CLAIMS REPPERED BY BEOPENING ORDER

Denyes Twp.



Kaplan Twp.

LEGEND

| HIGHWAY AND ROUTE No. | -() |
|----------------------------------|---|
| OTHER ROADS | |
| TRAILS | |
| SURVEYED LINES: | |
| TOWNSHIPS, BASE LINES, ETC. | |
| LOTS, MINING CLAIMS, PARCELS, ET | C. ——— |
| 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 | v |
| ORDER-IN-COUNCIL | oc |
| RESERVATION | ® |
| CANCELLED | _ |
| \$AND & GRAVEL | |
| NOTE: MINING RIGHTS IN PARCELS PATENTED PRIC 1913, VESTED IN ORIGINAL PATENTEE BY LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 6 | THE PUBLIC |

| SCALE: | 1 INC | CH = 40 | CHAINS | | |
|--------|-------|---------|--------|-------------|---|
| 0 | 1000 | 2000 | 4000 | 6000 | 8000 |
| C | | | | | |
| | 200 | | 000 | THE KILDOON | With the state of |
| METRES | | [1 | KM | WHITE | 15111 |
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| | | | 1 1957 | | 40 |
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| 1 | | | 1 | MAY 28 190 | N |
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| | | | 1 _ | | |
| OWNS | HIP | | - | | |

M.N.R. ADMINISTRATIVE DISTRICT

CHAPLEAU

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DÍVISION **SUDBURY**



z. 7.

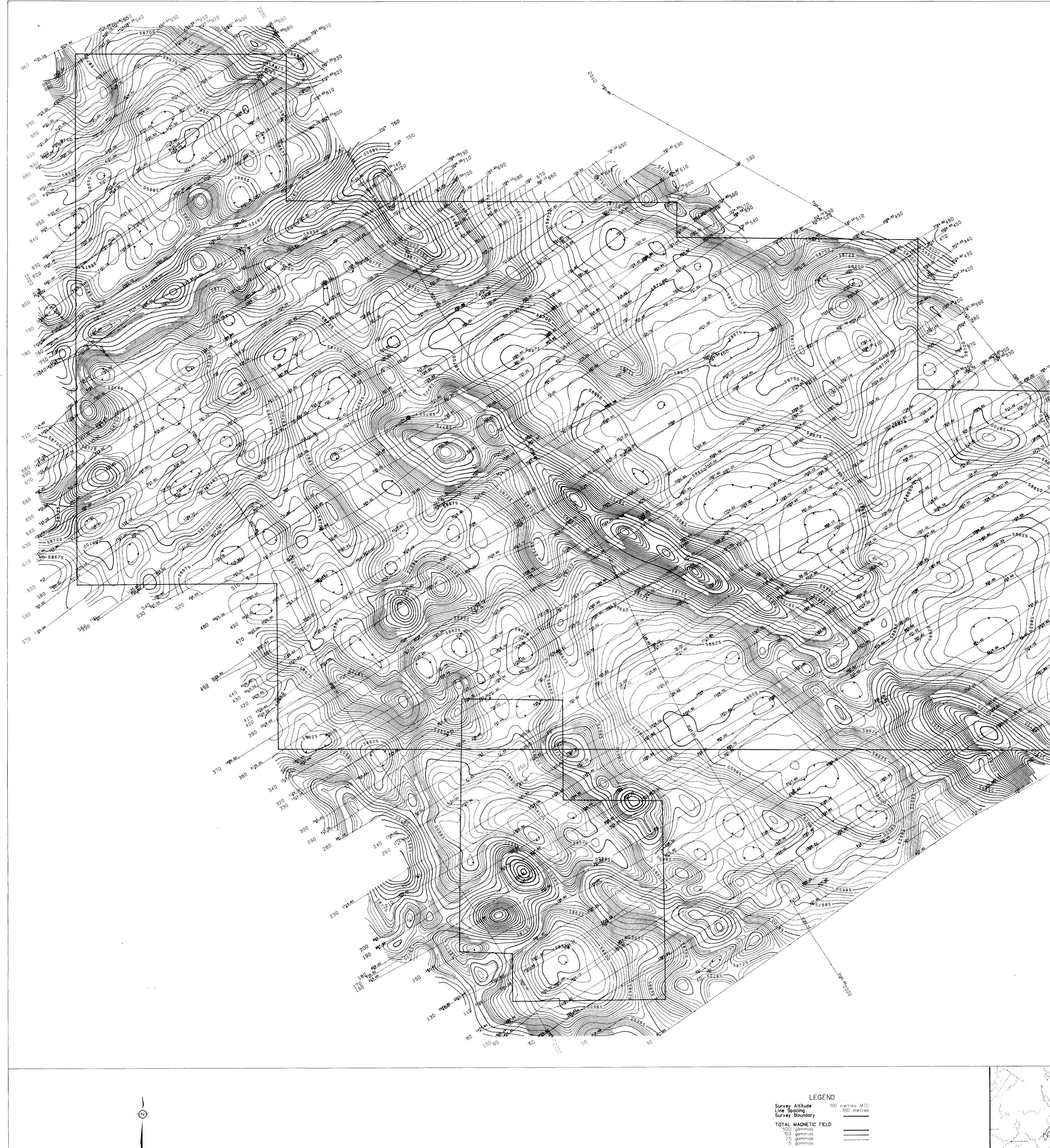
Ministry of Land

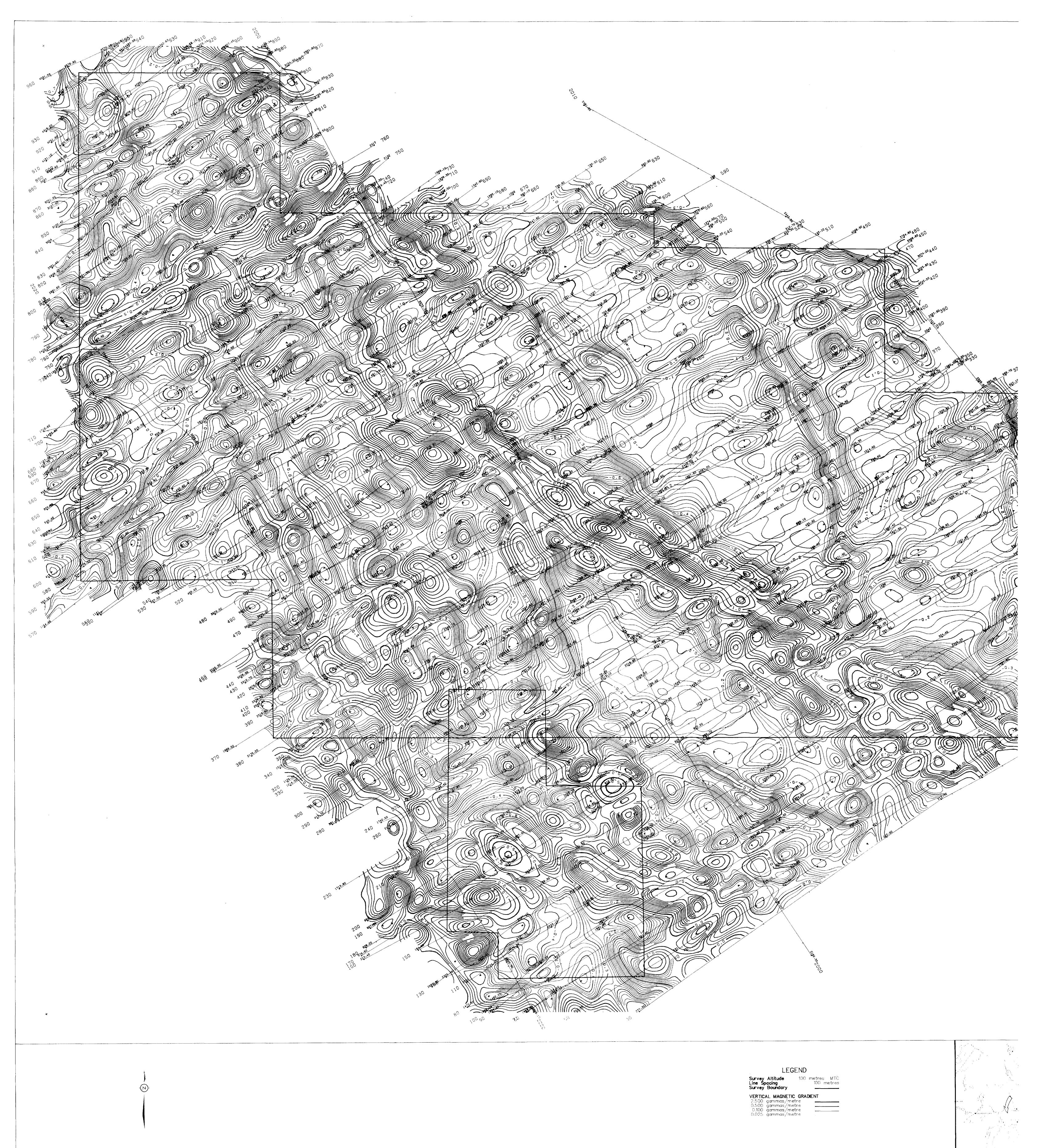
Management

Resources Branch

Bate MARCH, 1985

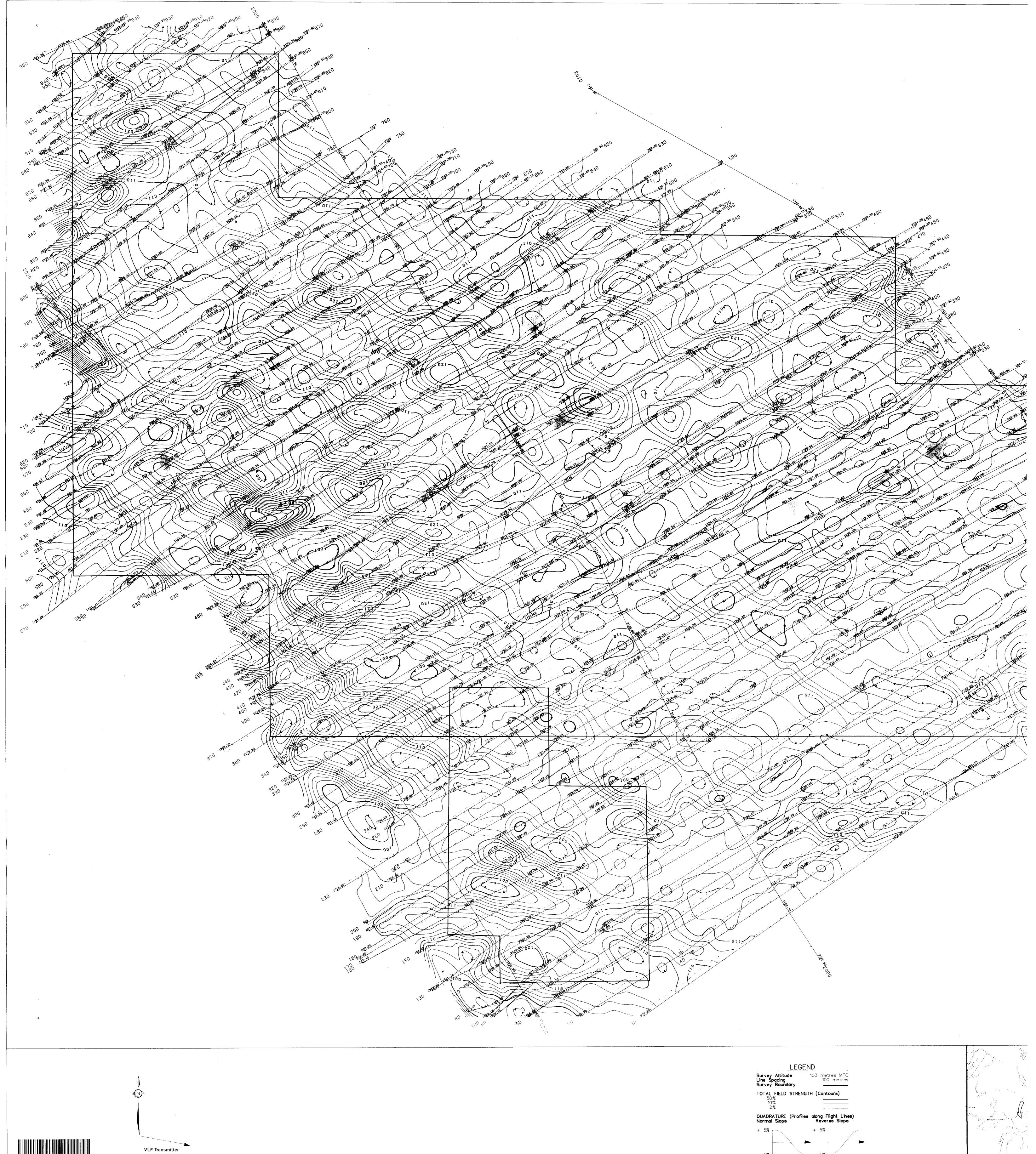
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TOWNS A 2 12844 DENYES

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NAA Cutler, 24.0 kHz Azimuth 100

