



42A05NE0020 2.782 GODFREY

2-782

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REPORT  
ON  
GEOPHYSICAL SURVEY  
ON PROPERTY OF  
TEX-SOL EXPLORATIONS LIMITED  
GODFREY TOWNSHIP  
PORCUPINE MINING DIVISION  
ONTARIO

INTRODUCTION

Ground geophysical work, consisting of an electromagnetic survey, was completed over a 15 claim property optioned to Tex-Sol Explorations Limited in Godfrey township in the Porcupine Mining Division, Ontario. The program was carried out in November 1971.

The following report and accompanying map describes the survey and gives a geological interpretation of the results.

CONCLUSIONS AND RECOMMENDATIONS

The electromagnetic survey shows 15 weak conductors possessing characteristics similar to the type of conductors caused by shear zones and conductive overburden.

The strongest conductors include conductors "A", "B", "C", "D", "F" and "G". It is recommended that these six conductors be checked by a conventional Horizontal Loop Electromagnetic survey since this method should be useful in separating out the conductors caused by shear zones and conductive overburden.

PROPERTY AND LOCATION

The property consists of 15 contiguous unpatented claims in Godfrey township, Porcupine Mining Division, Ontario, covering approximately 600 acres. They are registered with the Ontario Department of Mines as follows and are shown on the accompanying map.

| <u>CLAIM NO.</u> | <u>STATUS</u> | <u>ACRES</u> |
|------------------|---------------|--------------|
| P. 307034        | Unpatented    | 40           |
| P. 307035        | "             | "            |
| P. 307036        | "             | "            |
| P. 307037        | "             | "            |
| P. 307013        | "             | "            |
| P. 307014        | "             | "            |
| P. 327262        | "             | "            |
| P. 327263        | "             | "            |
| P. 327264        | "             | "            |
| P. 327267        | "             | "            |
| P. 327268        | "             | "            |
| P. 327269        | "             | "            |
| P. 327491        | "             | "            |
| P. 327492        | "             | "            |
| P. 327493        | "             | "            |

The claim group is situated in the southwest quarter of Godfrey township, approximately eleven miles west of the town of Timmins. A bush road extends to the old "Genex" property from highway 576 and from the end of this road it is approximately 1½ miles to the property.

GEOLOGY

The claims lie within a tightly folded rhyolite andesite volcanic belt close to the eastern margin of a large gabbro-diorite complex. The volcanics have been intruded by granitic and porphyritic stocks in the area around the claim group. The general strike of the rocks in this area has been obscured by superimposed shearing

but would appear to be in a northwest-southeast direction.

#### SURVEY METHOD AND PRESENTATION OF RESULTS

The electromagnetic survey employed the Crone-Radem-V.L.F.-E.M. instrument set to receive ~~the V.L.F. signal from the~~ U. S. Navy Station at Cutler, Maine (17.8 KHZ). Readings of the dip angle of the resultant field (in degrees) and the horizontal component of the field strength (percent of the normal field strength) were recorded at station intervals of 100 feet. The picket line spacing was 400 feet.

The field strength readings as plotted on the accompanying map are corrected for variations due to drift and are contoured at appropriate intervals. In the case of an ideal conductor the dip angle reading indicates the direction towards the conductor. Directly over the conductor the reading would be zero degrees, thus producing what is commonly termed a "cross-over" at the conductor axis. The field strength readings do not detect the conductor until they are almost above it. In the presence of a good conductor the field strength readings would be several times background.

#### INTERPRETATION OF RESULTS

The Electromagnetic survey, as plotted on the accompanying map shows 15 weak conductors. There is little or no increase in field strength response over the conductors and it is probable that most of these conductors are due to shear zones and conductive overburden.

The strongest conductors include conductors "A", "B",  
"C", "D", "F" and "G".

Respectfully Submitted,



E. W. Bazinet, P. Eng.

Timmins, Ontario.  
November 21, 1971.





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900

File 2.782

RECEIVED

MAR 13 1972

PROJECTS SECTION

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

Type of Survey Cone Radem V.L.F. - EM  
Township or Area Godfrey Township  
Claim holder(s) Rolland J. Pairier

Author of Report EW Bayinet Ping.  
Address 456 Broussau Ave Timmins Ont  
Covering Dates of Survey May 1971 to Nov 21 1971  
(linecutting to office)  
Total Miles of Line cut 5.91 Miles

MINING CLAIMS TRAVERSED  
List numerically

| (prefix) | (number) |
|----------|----------|
| P        | 307013   |
| P        | 307014   |
| P        | 307034   |
| P        | 307035   |
| P        | 307036   |
| P        | 307037   |

SPECIAL PROVISIONS  
CREDITS REQUESTED

DAYS  
per claim

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

ENTER 20 days for each  
additional survey using  
same grid.

- Geophysical
  - Electromagnetic 40
  - Magnetometer \_\_\_\_\_
  - Radiometric \_\_\_\_\_
  - Other \_\_\_\_\_
- Geological \_\_\_\_\_
- Geochemical \_\_\_\_\_

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: March 9/72 SIGNATURE: EW Bayinet  
Author of Report

PROJECTS SECTION

Res. Geol. \_\_\_\_\_ Qualifications 63.2086

Previous Surveys L. d.

Checked by \_\_\_\_\_ date \_\_\_\_\_

GEOLOGICAL BRANCH \_\_\_\_\_

Approved by \_\_\_\_\_ date \_\_\_\_\_

GEOLOGICAL BRANCH \_\_\_\_\_

Approved by \_\_\_\_\_ date \_\_\_\_\_

TOTAL CLAIMS 6

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 266 Number of Readings 266  
Station interval 100 feet  
Line spacing 400 feet  
Profile scale or Contour intervals Dip angle in Degrees - Field Strength  
(specify for each type of survey) contoured at 100 unit intervals

MAGNETIC

Instrument \_\_\_\_\_  
Accuracy - Scale constant \_\_\_\_\_  
Diurnal correction method \_\_\_\_\_  
Base station location \_\_\_\_\_

ELECTROMAGNETIC

Instrument Crone Radson V.L.F. - E.M.  
Coil configuration Not applicable  
Coil separation Not applicable  
Accuracy Plus or Minus one Degree Dip, Plus or Minus 5° Field Strength  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency Cutter, Maine 17.8 K.H.Z.

Parameters measured Dip angle and Horizontal component of Field Strength  
(specify V.L.F. station)

GRAVITY

Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_  
Base station value and location \_\_\_\_\_

INDUCED POLARIZATION -- RESISTIVITY

Instrument \_\_\_\_\_  
Time domain \_\_\_\_\_ Frequency domain \_\_\_\_\_  
Frequency \_\_\_\_\_ Range \_\_\_\_\_  
Power \_\_\_\_\_  
Electrode array \_\_\_\_\_  
Electrode spacing \_\_\_\_\_  
Type of electrode \_\_\_\_\_

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

RECEIVED

MAR 13 1972

PROJECTS  
SECTION

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

Type of Survey Proton - Radem VLF - E.M  
Township or Area Ladbury Township  
Claim holder(s) Tex - Sol Explorations Ltd.  
Author of Report E.W. Bayne P. Eng.  
Address 456 Brouseau Ave Timmins Ontario  
Covering Dates of Survey May 19-71 to Nov-21 1971  
(linecutting to office)  
Total Miles of Line cut 8.73 Miles

| MINING CLAIMS TRAVERSED |        |
|-------------------------|--------|
| List numerically        |        |
| P                       | 327362 |
| P                       | 327363 |
| P                       | 327364 |
| P                       | 327367 |
| P                       | 327368 |
| P                       | 327369 |
| P                       | 327491 |
| P                       | 327492 |
| P                       | 327493 |
| TOTAL CLAIMS <u>9</u>   |        |

| SPECIAL PROVISIONS<br>CREDITS REQUESTED                   | DAYS<br>per claim |
|---|-------------------|
| ENTER 40 days (includes line cutting) for first survey.   | 40                |
| ENTER 20 days for each additional survey using same grid. |                   |
| Geophysical   |                   |
| -Electromagnetic  |                   |
| -Magnetometer   |                   |
| -Radiometric  |                   |
| -Other  |                   |
| Geological  |                   |
| Geochemical   |                   |

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)  
Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)  
DATE: March 9/72 SIGNATURE: E.W. Bayne  
Author of Report

PROJECTS SECTION  
Res. Geol. \_\_\_\_\_ Qualifications 63.2086  
Previous Surveys L.S.D.  
Checked by \_\_\_\_\_ date \_\_\_\_\_  
GEOLOGICAL BRANCH \_\_\_\_\_  
Approved by \_\_\_\_\_ date \_\_\_\_\_  
GEOLOGICAL BRANCH \_\_\_\_\_  
Approved by \_\_\_\_\_ date \_\_\_\_\_

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 407 Number of Readings 407

Station interval 100 feet

Line spacing 400 feet

Profile scale or Contour intervals Dip angle in Degrees, Field strength contoured  
(specify for each type of survey) at 100 unit intervals

MAGNETIC

Instrument \_\_\_\_\_

Accuracy - Scale constant \_\_\_\_\_

Diurnal correction method \_\_\_\_\_

Base station location \_\_\_\_\_

ELECTROMAGNETIC

Instrument Crone Radem V.L.F. - E.M.

Coil configuration Not applicable

Coil separation Not applicable

Accuracy Plus or Minus one degree Dip, Plus or Minus 5° Field Strength

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency cutler Maine 17.8 KHZ

Parameters measured Dip angle and Horizontal Component of Field Strength.  
(specify V.L.F. station)

GRAVITY

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

INDUCED POLARIZATION - RESISTIVITY

Instrument \_\_\_\_\_

Time domain \_\_\_\_\_ Frequency domain \_\_\_\_\_

Frequency \_\_\_\_\_ Range \_\_\_\_\_

Power \_\_\_\_\_

Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_



Jamieson Twp. (M.288)

Dep. Roads: 516  
 Dept. of National Defence  
 Withdrawn from Staking  
 Sec. 34(D) of Mining Act File 16905

THE TOWNSHIP  
 OF

GODFREY

DISTRICT OF  
 COCHRANE

PORCUPINE  
 MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

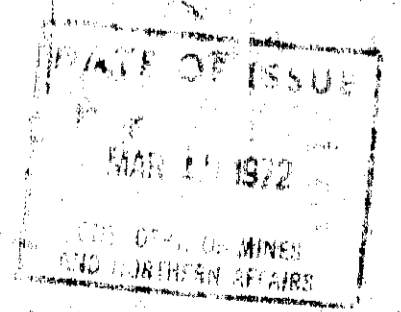
|                       |        |
|-----------------------|--------|
| PATENTED LAND         | Ⓟ      |
| CROWN LAND SALE       | C.S.   |
| LEASES                | Ⓛ      |
| LOCATED LAND          | Loc.   |
| LICENSE OF OCCUPATION | L.O.   |
| MINING RIGHTS ONLY    | M.R.O. |
| SURFACE RIGHTS ONLY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

NOTES

400' surface rights reservation around all lakes and rivers.

Flooding rights on either side of the Mattagami to H.E.P.C.

2.782

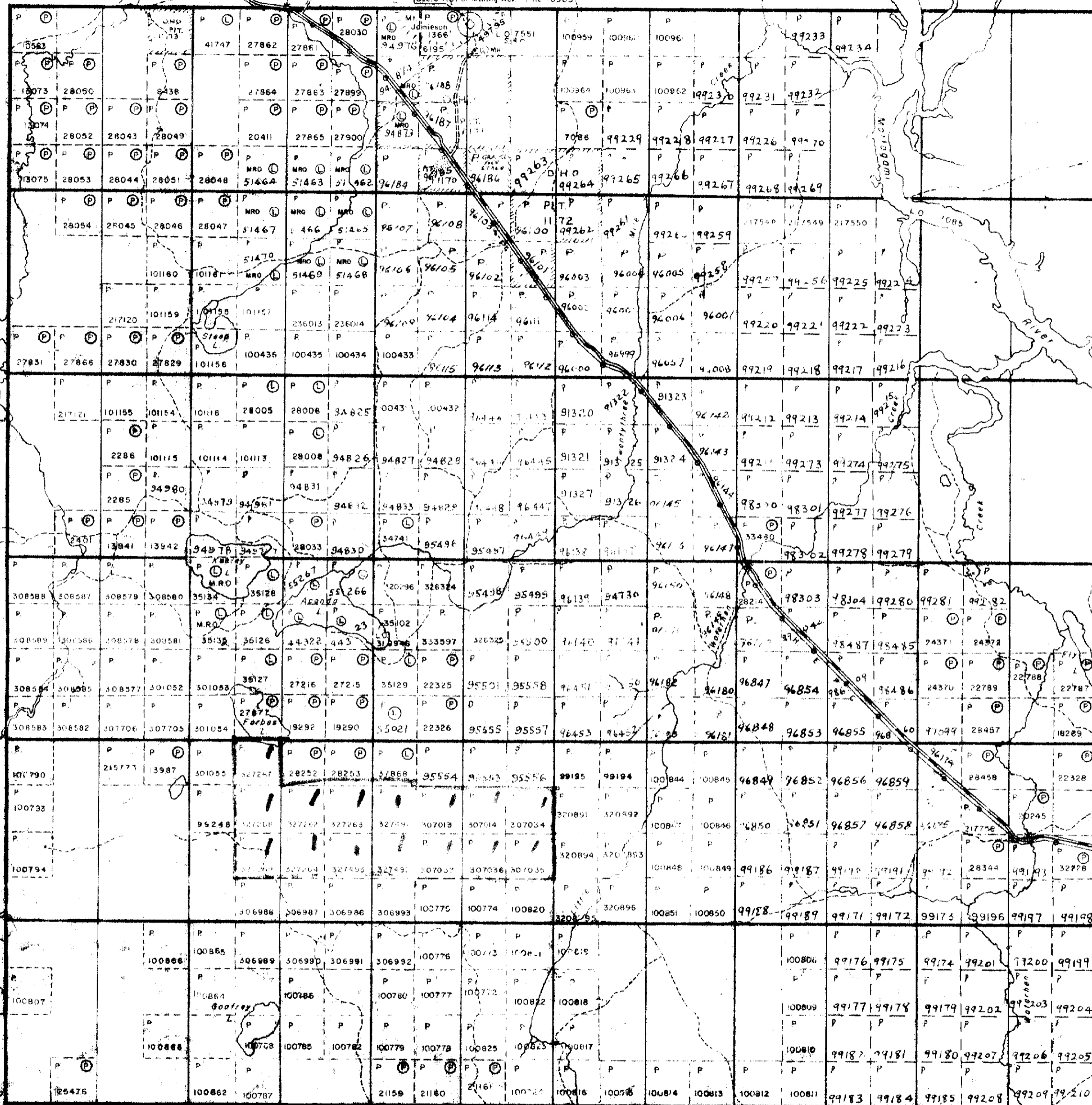


PLAN NO. M.284

ONTARIO  
 DEPARTMENT OF MINES  
 AND NORTHERN AFFAIRS

Turnbull Twp. (M.316)

Mountjoy Twp. (M.302)

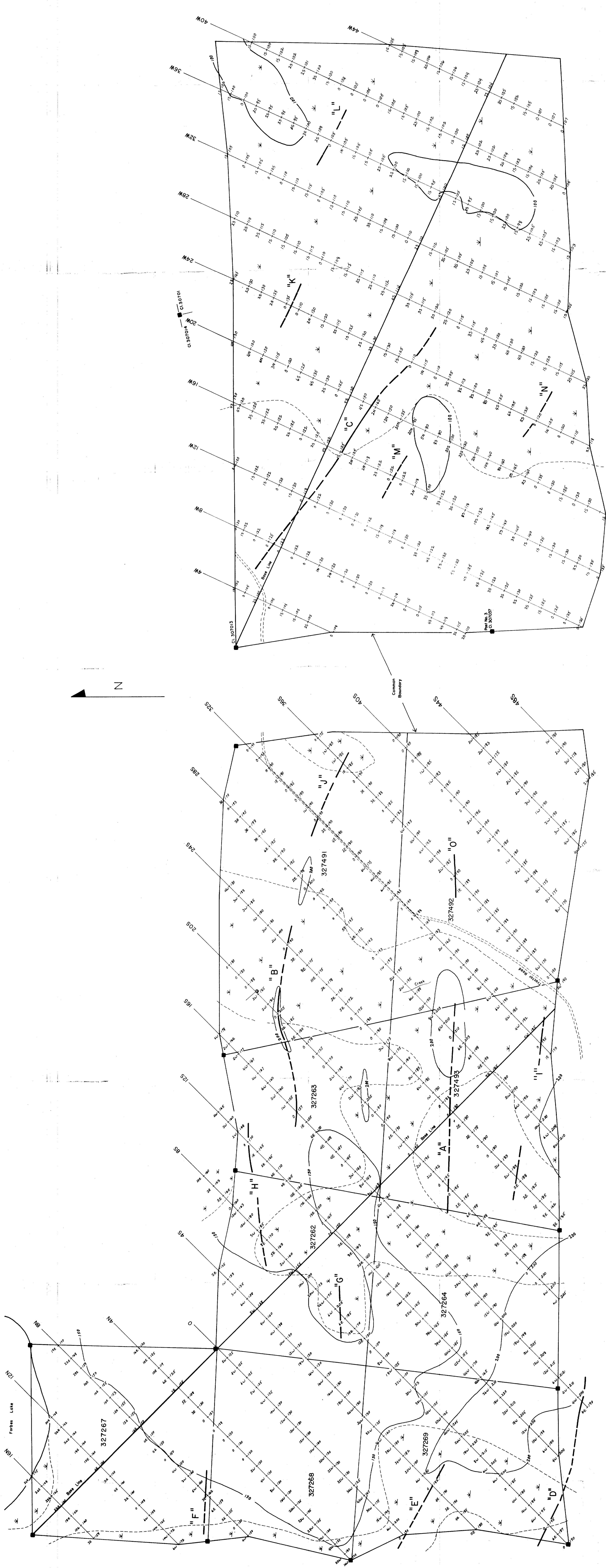


12 11 10 9 8 7 6 5 4 3 2 1

Bristol Twp. (M.264)



47485-NI 001W 2.782 GODFREY



**TEX-SOL EXPLORATIONS LTD.**  
**GODFREY TOWNSHIP**  
 Porcupine Mining Division, Ont.  
 MAP SCALE: 1"=200'  
 by  
 E.W. Burnett, P. Eng.  
**CRONE - RADEM - VLF - E.M. SURVEY**  
 - Dip Angle of Resultant Field in Degrees - 18E  
 - Horizontal Component of Field Strength (%) - 100  
 - Station - Culler Mine, 17.8 KHZ  
 - Conductor -  
 - Possible Conductor -