FINAL REPORT
ON A
UTEM SURVEY
FOR
DAVE MFUNIER
IN
NIGHTHAWK LAKE AREA
BY
LAMONTAGNE GEOPHYSICS

RECEIVED
MAR 27 1985
MINING LANDS SECTION
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...
INTRODUCTION

THE UTEM SYSTEM MEASURES MAGNETIC AND ELECTRIC FIELD COMPONENTS USING A FIXED LOOP SOURCE. IN THIS CASE THE LOOP USED WAS RECTANGULAR IN SHAPE AND 1400m X 1000m IN SIZE. THE VERTICAL COMPONENT OF THE MAGNETIC FIELD WAS MEASURED ALONG FIVE LINES OF THE THIRTEEN LINE GRID. THE RESULTS ARE PLOTTED ON FIGS 1 THRU 5.

THE GENERAL PLOTTING FORMAT IS AS FOLLOWS:

1) LOWER PLOT: CHANNEL 1 ONLY; IN THIS MODE IT IS USED TO DETECT CHAINAGE ERROR.

2) MIDDLE PLOT: CHANNELS 2 THRU 5; SECONDARY FIELD, CHANNEL 1 REDUCED.

3) UPPER PLOT: CHANNELS 5 THRU 9; SECONDARY FIELD, CHANNEL 1 REDUCED.

THE PLOTTING SYMBOLS AS WELL AS SOME EXAMPLES OF FIELD DATA ARE PRESENTED IN APPENDIX 1 IN ORDER TO ILLUSTRATE THE SYSTEMS' BEHAVIOR IN SPECIFIC CIRCUMSTANCES.
PRODUCTION DIARY

THE SURVEY CONSISTED OF TWO TRIPS TO THE AREA, THE INITIAL ATTEMPT WAS CANCELLED DUE TO SEASONAL BREAKUP CONDITIONS. THE FIRST ATTEMPT RESULTED IN LINES 500E AND 600E BEING READ WITH THE VERTICAL COMPONENT. THE SECOND TRIP CONCLUDED THE SURVEY WITH LINES 900E, 1000E, 1100E BEING READ WITH THE VERTICAL COMPONENT. THE FOLLOWING IS A DAY BY DAY ACCOUNT:

<table>
<thead>
<tr>
<th>DATE</th>
<th>ACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>APRIL 13</td>
<td>MOB</td>
</tr>
<tr>
<td>&quot; 14,15</td>
<td>LOOP LAYOUT</td>
</tr>
<tr>
<td>&quot; 16</td>
<td>STANDBY</td>
</tr>
<tr>
<td>&quot; 17</td>
<td>READ LINES 500E, 600E</td>
</tr>
<tr>
<td>&quot; 18</td>
<td>DEMOB</td>
</tr>
<tr>
<td>AUGUST 7</td>
<td>MOB</td>
</tr>
<tr>
<td>&quot; 8</td>
<td>LOOP REPAIR</td>
</tr>
<tr>
<td>&quot; 9</td>
<td>LOOP REPAIR (1/2 PRODUCTION DAY)</td>
</tr>
<tr>
<td>&quot; 10</td>
<td>DOWN DAY</td>
</tr>
<tr>
<td>&quot; 11</td>
<td>READ LINES 900E, 1000E, 1100E</td>
</tr>
<tr>
<td>&quot; 12</td>
<td>DEMOB</td>
</tr>
</tbody>
</table>
IN GENERAL THE AREA IS FAIRLY RESISTIVE AS INDICATED BY NO RESPONSE ON CHANNELS 2 THRU 5. THE RESPONSE OF THIS LINE IS INTERPRETED AS AN OVERBURDEN RESPONSE WITH AN EFFECT, NEAR THE END OF THE LINE, OF A LOW CONDUCTIVITY ZONE SUPERIMPOSED. THE OVERBURDEN RESPONSE CAN BE APPROXIMATED BY A HORIZONTAL SHEET OF LOW CONDUCTIVITY AND SHALLOW DEPTH. DUE TO THE SIZE OF THE RESPONSE NEAR THE LOOP, AND HAVING ASSUMED THE HORIZONTAL SHEET MODEL, IT IS APPARENT THAT THE EDGE OF THE SHEET IS NEAR; THIS AGREES WITH THE KNOWN FAULT IN THE VICINITY.

THE EFFECTS OF THE LOW CONDUCTIVITY ZONE ARE MOST NOTABLE ON THE EARLY TIMF CHANNELS, 9-7; NOTICE THE UPWARD PULL OF THESE CHANNELS FROM THE GENERAL NEGATIVE TREND FROM STATION 650S TO THE END OF THE LINE. IN A TYPICAL OVERBURDEN ANOMALY THE CHANNELS WOULD HAVE CONTINUED THEIR NEGATIVE TREND, IN THE CASE OF CHANNEL 7 THE RESPONSE IS FORCED TO BE ENTIRELY POSITIVE. COMPARE THIS WITH LINE 1100E WHICH IS MORE REPRESENTATIVE OF A SIMPLE OVERBURDEN RESPONSE.

IN AN EFFORT TO SEE THE EFFECTS ON THE LATE TIME CHANNELS FIG 1 WAS PLOTTED USING AN EXPANDED SCALE, FIG 1.2. FIG 1.2 SHOWS A VERY SMALL BUT REAL RESPONSE. THIS RESPONSE CANNOT BE EASILY INTERPRETED FOR TWO REASONS: a) THE SIZE OF THE ANOMALY IS COMPAREABLE TO THE INSTRUMENTS' READING REPEATABILITY. b) ONLY PART OF THE ANOMALY HAS BEEN MEASURED. THE CONDUCTOR CAUSING THIS ANOMALY COULD BE VERY SMALL AND LYING AT A DEPTH OF VERY ROUGHLY 100m. IF THIS IS CAUSED BY A BEDROCK CONDUCTOR THE BODY WOULD PROBABLY HAVE A STRIKE LENGTH NO GREATER THAN 50m.
LINE 600E DISPLAYS MUCH OF THE SAME CHARACTER AS LINE 500E BUT WITH A SLIGHTLY LARGER RESPONSE IN THE OVERBURDEN INDICATING A CLOSER VACINITY TO THE EDGE OF THE OVERBURDEN. THE SECONDARY EFFECTS OF THE ZONE NEAR THE END OF THE LINE ARE ALSO PRESENT ON THIS LINE BUT NO FURTHER INFORMATION CAN BE EXTRACTED.

LINES 900E, 1000E, 1100E

LINES 900E, 1000E, 1100E SHOW NO SIGNS OF ANY SIGNIFICANT CONDUCTORS AND THE RESPONSE CAN ALMOST ENTIRELY BE APPROXIMATED BY A HORIZONTAL SHEET OVERBURDEN MODEL. NOTICE THAT THERE IS NO EFFECTS NEAR THE END OF THE LINES ON THE EARLY CHANNELS, 9-6, AND THE NOISE LEVEL MAKES IT IMPOSSIBLE TO INFER ANY SMALL SCALE EFFECTS ON THE LATER TIME CHANNELS, 5-2.
CONCLUSIONS

IN GENERAL THE SURVEY SITE IS FAIRLY RESISTIVE WITH NO MAJOR CONDUCTORS DETECTED ALONG THE LINES SURVEYED. THE MEASURED RESPONSES ARE TYPICAL OF OVERPURDEN ANOMALIES WITH THE EXCEPTION OF A MINOR ANOMALY WHICH WAS NOT DETAILED. IT IS NOT POSSIBLE TO DESCRIBE THIS CONDUCTOR WITHOUT FURTHER COVERAGE, BUT DUE TO THE APPARENT SMALL SIZE OF THE CONDUCTOR THIS IS NOT RECOMMENDED.
FIG-1

UTHEH SURVEY conducted by LGL Job 1234
Project Area SOUTH PORCUPINE Survey for DAVE MEUNIER (freqs) 30.974
Loopno 1001 Line 500E component HZ secondary Ch 1
FIG-2

UTEM SURVEY conducted by LGL Job 1234
Project Area SOUTH PORCUPINE Survey for DAVE MEUNIER freq (Hz) 30.974
Loop 1001Line 600E component Hz secondary Ch 1
FIG-3

UTEM SURVEY conducted by Lamontagne Geophysics
Project Area SOUTH PORCUPINESurvey for DAVE MEUNIER freq (Hz) 30.974
Loop no 0001 Line 900E component Hz secondary Ch 1
UTEM SURVEY conducted by Lamontagne Geophysical Job 01
Project Area SOUTH PORCUPINE Survey for DAVE MEUNIER freq (Hz) 30.974
Loop #0001 Line 10000 component Hz secondary Ch 1
EXAMPLES OF UTEM DATA

These examples show UTEM field and model data for the most standard component measured, the vertical magnetic field (Hz). The sampling used in these plots is the standard 10 channel binary sampling and the base frequency was either 15.5 Hz or 31 Hz; two of the more common frequencies used.

Examples of UTEM 2 and UTEM 3 data are presented. The UTEM 2 and UTEM 3 data are geophysically identical but the UTEM 3 system produces data with a precision 3 to 5 times better than the former UTEM 2 data in the same circumstances. The various examples presented are briefly explained on each plot.

In support of the high quality instrumentation, Lamontagne Geophysics offers an extensive interpretation package involving scale model data, interpretation manual and type curves, forward model fitting of layers and plates, and such state of the art interpretation as Lamontagne Geophysics exclusive 'Depth Image Processing' and soon to be available interactive graphic field/scale model fitting techniques. For sounding applications, a fast first look method of processing the data can transform the continuous profile sounding data ('spider plot') to an apparent resistivity section.

Two examples of the extensive type curve library (255 models X 2 components X 2 methods of normalization) are supplied for illustration purposes but all or portions specifically requested are available for sale from Lamontagne Geophysics.

The main advantages of UTEM over conventional transient FM systems are that its waveform is optimized to penetrate deeper in a conductive earth, and the whole waveform is sampled so that all the response excited by the transmitter is measured, rather than one quarter or less as is the case with pulse FM waveforms. The advantage of UTEM grows rapidly for longer decays where only a minute fraction of the response power is within the off-time window sampled by a pulse system.
## UTEM PLOTTING SYMBOLS

<table>
<thead>
<tr>
<th>CHANNEL</th>
<th>SYMBOL</th>
<th>MEAN DELAY (msec)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>30Hz</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>12.8</td>
</tr>
<tr>
<td>2</td>
<td>\ /</td>
<td>6.4</td>
</tr>
<tr>
<td>3</td>
<td>\ /</td>
<td>3.2</td>
</tr>
<tr>
<td>4</td>
<td>□</td>
<td>1.6</td>
</tr>
<tr>
<td>5</td>
<td>△</td>
<td>0.8</td>
</tr>
<tr>
<td>6</td>
<td>≈</td>
<td>0.4</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>0.2</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>0.1</td>
</tr>
<tr>
<td>9</td>
<td>△</td>
<td>0.05</td>
</tr>
<tr>
<td>10</td>
<td>◇</td>
<td>0.025</td>
</tr>
</tbody>
</table>
CONDUCTOR UNDER 3.0 S
WEATHERED LAYER

$\sigma t = 7S \quad d = 75m$
UTEM 3
MULTIPLE CONDUCTOR: Loop to the West

A) DEPTF: 60m CONDUCTANCE: 200S SHAPE: Wedge
SIZE: 700m x 150m x 10m

P) DEPTH: 140m CONDUCTANCE: 120S SHAPE: Tabular
SIZE: 500m x 250m x 5m
UTEM 3 "SPIDER PLOT" Example

Continuous Line Through Loop, computed response

Thin Layer Response:  DEPTH: 50m
CONDUCTANCE:  20S
ITEM 3  "SPIDER PLOT" Example

Continuous line through loop, computed response

THIN LAYER RESPONSE:  DEPTH: 50m
CONDUCTANCE: 10S
Example of a two kilometer borehole.
GRAPHITE UNDER 0.4 S OVERBURDEN

\[ \sigma t = 50S \quad d = 85m \]
GRAPHITIC METASEDIMENTS

\[ \sigma t = 30 S \quad d = 300m \]

Channel 9 (earliest)

Channel 1

UTEM 2
SULPHIDE ZONE

$\sigma t = 50 S \quad d = 90m$
CONDUCTOR NOT DRILLED
PROBABLY SULPHIDES

$\sigma t = 40S \quad d = 300m$
GRAPHITIC METASEDIMENTS

\[ \sigma_t = 25 S \quad d = 500m \]
DEPTH IMAGE PROCESSING
The computed integrated apparent resistivity at depth for a model consisting of a thick layer of resistivity 200m over a very resistive half space.
ANALOG MODEL TYPE CURVES

A) ANTICLINE @ 100m DEPTH

B) SLAP @ 250m DEPTH
MODEL: ANTI/SYNCLINE
COMPONENT: Hz/Hp
CONTINUOUSLY NORMALIZED

UTEM SYSTEM
500/5 MARCH 28, 1987

LOOP: L=1000 ft x 1000 ft
LOOP EDGE AT LINE (1500.0 ft) TO (1500.0 ft)

HORIZONTAL ANTICLINE
CONDUCTOR: THIN SHEET
FOLD STRIKE: Y
FOLD PLANE: E
CROSS-SECTIONAL SHAPE: PARABOLIC
OVERALL LENGTH: Y=1500 ft
DEPTH EXTENT (VERTICAL): Z=500 ft
WIDTH ACROSS BOTTOM: X=200 ft
DEPTH TO CONDUCTOR: 100 ft
REFERENCE POINT AT: 1500.0 ft
CONDUCTANCE: 7.2 s-emu

MODEL: ANTI/SYNCLINE
COMPONENT: Hz/Hp
POINT NORMALIZED AT (500.0 ft)

UTEM SYSTEM
500/5 MARCH 28, 1987

LOOP: L=1000 ft x 1000 ft
LOOP EDGE AT LINE (1500.0 ft) TO (1500.0 ft)

HORIZONTAL ANTICLINE
CONDUCTOR: THIN SHEET
FOLD STRIKE: Y
FOLD PLANE: E
CROSS-SECTIONAL SHAPE: PARABOLIC
OVERALL LENGTH: Y=1500 ft
DEPTH EXTENT (VERTICAL): Z=500 ft
WIDTH ACROSS BOTTOM: X=200 ft
DEPTH TO CONDUCTOR: 100 ft
REFERENCE POINT AT: 1500.0 ft
CONDUCTANCE: 7.2 s-emu
<table>
<thead>
<tr>
<th>Type of Survey(s)</th>
<th>Township or Ares</th>
<th>Claim Holders' Name</th>
<th>Prospector's Licence No.</th>
<th>Address</th>
<th>Survey Company</th>
<th>Date of Survey (from &amp; to)</th>
<th>Total Miles of line Cut</th>
</tr>
</thead>
<tbody>
<tr>
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**Geophysical, Geological, Geochemical and Expenditures**

<table>
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<th>Township or Ares</th>
<th>Claim Holders' Name</th>
<th>Prospector's Licence No.</th>
<th>Address</th>
<th>Survey Company</th>
<th>Date of Survey (from &amp; to)</th>
<th>Total Miles of line Cut</th>
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<td></td>
</tr>
</tbody>
</table>

**Credits Requested per Each Claim in Columns at right**

<table>
<thead>
<tr>
<th>Special Provisions</th>
<th>Days per Claim</th>
<th>Mining Claim</th>
<th>Exp. Days Cr.</th>
<th>Mining Claim</th>
<th>Exp. Days Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For first survey:</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Enter 40 days. (This includes line cutting)</td>
<td>40</td>
<td>P</td>
<td>792534</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>For each additional survey: using the same grid: Enter 20 days (for each)</td>
<td></td>
<td></td>
<td>792539</td>
<td>40</td>
<td></td>
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**Man Days**

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<tr>
<th>Geophysical</th>
<th>Days per Claim</th>
<th>Mining Claim</th>
<th>Exp. Days Cr.</th>
<th>Mining Claim</th>
<th>Exp. Days Cr.</th>
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</thead>
<tbody>
<tr>
<td>Electromagnetic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnetometer</td>
<td>10</td>
<td>F</td>
<td>792534</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Radiometric</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
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<td></td>
</tr>
<tr>
<td>Geological</td>
<td></td>
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<tr>
<td>Geochemical</td>
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</table>

**Airborne Credits**

<table>
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<tr>
<th>Airborne Credits</th>
<th>Days per Claim</th>
<th>Mining Claim</th>
<th>Exp. Days Cr.</th>
<th>Mining Claim</th>
<th>Exp. Days Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electromagnetic</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Magnetometer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radiometric</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Expenditures (excludes power stripping)**

**Type of Work Performed**

**Performed on Claim(s)**

**Calculation of Expenditure Days Credits**

<table>
<thead>
<tr>
<th>Total Expenditures</th>
<th>Total Days Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td>15</td>
</tr>
</tbody>
</table>

**Instructions**

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

**Certification Verifying Report of Work**

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

Name and Postal Address of Person Certifying
**Ministry of Natural Resources**

**Ontario**

**Report of Work**

(geophysical, geological, geochemical and expenditures)

---

**The Mining Act**

**Type of Survey(s)**

UTEM Geophysical Survey

---

**Claim Holder(s)**

David J. Meunier

---

**Survey Company**

Len LaMontagne Geophysics

---

**Township or Area**

Fallon

---

**Prospector's Licence No.**

M-17157

---

**Survey Dates (line cutting to office)**

13 04 84 18 04 84

---

**Total Miles of line Cut**

10

---

**Note:** Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

---

**Special Provisions Credits Requested**

Instructions: Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Do not use shaded areas below.

---

**Man Days**

Complete reverse side and enter totals here

---

**Expenditures (excludes power stripping)**

Type of Work Performed

---

**Expenditure Days Credits**

Total Expenditures

Total Days Credits

---

**Report Completed**

Date of Report

March 15/85

---

**Certification Verifying Report of Work**

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

Name and Postal Address of Person Certifying

Brian H. Madder, P.O. Box 833, Kirkland Lake, Ontario, P On 3K4

Date Certified

March 15/85
Mining Lands Section

TYPE OF SURVEY

GEOPHYSICAL

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

- no qualifications
- no traverse plan at scale
- orientation of loop in report contradicts indication on claim map
- no readings at stations
- no signature on report -- wired this because of time delays
- need more days breakdown

only lines 5, 6, 9, 10, 11 in report

Signature of Assessor

Date
Dear Sir:

RE: Notice of Intent dated October 25, 1985
Geophysical (Electromagnetic) Survey on Mining Claims P 792534, et al, in Fallon Township

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

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1N3
Phone:(416)965-4888

DK/mc

cc: David J. Meunier
403 Dome Street
South Porcupine, Ontario
PON 1HO

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

Encl.
## Technical Assessment Work Credits

**Recorded Holder**: DAVID J. MEUNIER  
**Township or Area**: FALLON TOWNSHIP

<table>
<thead>
<tr>
<th>Type of survey and number of Assessment days credit per claim</th>
<th>Mining Claims Assessed</th>
</tr>
</thead>
</table>
| Geophysical | P 792534-35  
| Electromagnetic | 19 days | 792539  
| Magnetometer | days | 783572 to 74 inclusive |
| Radiometric |  
| Induced polarization |  
| Other |  

Section 77 (19) See "Mining Claims Assessed" column  
Geological |  
Geochemical |  

### Credits have been reduced because of partial coverage of claims.  
### Credits have been reduced because of corrections to work dates and figures of applicant.

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

### No credits have been allowed for the following mining claims

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

P 792536  
792533

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

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

\[Signature\]

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

Encls.

cc: David J. Meunier
403 Dome Street
South Porcupine, Ontario
PON 1H0

Brian H. Madill
P.O. Box 833
Kirkland Lake, Ontario
P2N 3K4

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario
An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the “Special Provision-Performance and Coverage” method and you are of the opinion that a re-appraisal under the “Man-days” method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.
Hi Ray:

Plants and enclosed a sketch of the plans showing the road line and location relative to claim boundaries and of the sample similar to the probes on the report. Hoping this is full and sufficient.

[Signature]

Dave Menzies
P.O. Box 1624
403 Dorm Street
Smithboro, Ont.

P.O. Box 170
June 26, 1985

Brian Madill
P.O. Box 833
Kirkland Lake, Ontario
P2N 3K4

Dear Sir:

RE: Electromagnetic Survey submitted on Mining Claims P 792533, et al, in the Township of Fallon

Enclosed is a copy of our letter dated May 6, 1985 requesting additional information for the above-mentioned survey.

Unless you can provide the required data by July 5, 1985, I will have no other alternative but to instruct the mining recorder to cancel the work credits recorded on March 18, 1985.

For further information, please contact Mr. Ray Pichette at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch
Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

cc: David J. Meunier
403 Dade Street
Timmins, Ontario
P4N 7H7

South Porcupine, Ontario
Encl. for

cc: Mining Recorder
Timmins, Ontario
85-09-13

[Handwritten notes]

- to submit any report of work on the claims
- to provide plan map at proper scale

(allow 2-3 weeks).
May 6, 1985

David J. Meunier
P.O. Box 1624
403 Dome Street
Timmins, Ontario
P4N 7M7

Dear Sir:

RE: Geophysical (Electromagnetic) Survey submitted on Mining Claims P 792533, et al, in the Township of Fallon

In order to complete your submission for assessment the following items are required:

1. A plan map signed by the author of the report, at a scale between 1:1000 and 1:6000, indicating claim lines and claim numbers, the traverse lines, and the location of the loop.

2. The signature of the author of the report on the final page, copies enclosed.

3. A Man-days breakdown for this survey, forms enclosed.

Please forward the above information, in duplicate, to this office quoting file 2.7936.

For further information, please contact, Doug Isherwood at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1N3
Phone:(416)965-4888

D. Isherwood:mc
cc: Mining Recorder
Timmins, Ontario

cc: Brian Madill
P.O. Box 833
Kirkland Lake, Ontario P2N 3K4

Encl.
**To: Geophysics**  
R. BARLOW

---

**To: Geophysics**  
Wish to see again with corrections

---

**To: Geology - Expenditures**

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**To: Geochemistry**

---

**RECEIVED**

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**To: Mining Lands Section**

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**To: Mining Lands Section, Room 6610, Whitney Block.** (Tel: 5-1380)
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We received reports and maps on March 27, 1985 for a Geophysical (Electromagnetic) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 792533, et al., in the Township of Fallon.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

A. Barr:mc

cc: David J. Meunier
P. P.O. Box 1624
403 Dome Street
Timmins, Ontario
P4N 7W7

cc: Brian Hadill
P.O. Box 833
Kirkland Lake, Ontario
P2N 3K4
March 22nd, 1985

Dear Arthur:

Please find enclosed two (2) copies of a UTEM geophysical report done for David Meunier on some of his claims in Fallon Township. The Report of Work for these claims was submitted to you previously and a photocopy is included to better I.D. these.

Linecutting on this group was performed by Gabriel Sutherland.

For David J. Meunier

Yours truly

Brian Madill
P.O. Box 833
KIRKLAND LAKE, Ontario.

PLEASE NOTIFY UPON RECEIPT
\[ \frac{(40 \times 6)}{(6 + \frac{1}{2})} = 18.46 \]
## Report of Work

### (Geophysical, Geological, Geochemical and Expenditures)

**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.

### Type of Survey(s)

<table>
<thead>
<tr>
<th>Claim Holders</th>
<th>Address</th>
<th>Survey Company</th>
<th>Date of Survey</th>
<th>Total Miles of line Cut</th>
</tr>
</thead>
<tbody>
<tr>
<td>David J. Maurice</td>
<td>403 Donn St, S. Raymond, Ontario</td>
<td>Len Lamontagne Geophysics</td>
<td>13-49-10-07</td>
<td>10</td>
</tr>
</tbody>
</table>

### Mining Claims Traversed (List in numerical sequence)

<table>
<thead>
<tr>
<th>Mining Claim</th>
<th>Expended Days Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P 792534</td>
<td>40</td>
</tr>
<tr>
<td>792539</td>
<td>40</td>
</tr>
</tbody>
</table>

### Special Provisions

**For first survey:**
- Enter 40 days. (This includes line cutting)

**For each additional survey:**
- using the same grid:
  - Enter 20 days (for each)

### Man Days

<table>
<thead>
<tr>
<th>Geophysical</th>
<th>Days per Claim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electromagnetic</td>
<td></td>
</tr>
<tr>
<td>Magnetometer</td>
<td></td>
</tr>
<tr>
<td>Radiometric</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Geological</td>
<td></td>
</tr>
<tr>
<td>Geochemical</td>
<td></td>
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</tr>
<tr>
<td>Geological</td>
<td></td>
</tr>
<tr>
<td>Geochemical</td>
<td></td>
</tr>
</tbody>
</table>

**Airborne Credits**

<table>
<thead>
<tr>
<th>Electromagnetic</th>
<th>Days per Claim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnetometer</td>
<td></td>
</tr>
<tr>
<td>Radiometric</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Special provisions credits do not apply to Airborne Surveys.

### Credits Requested per Each Claim in Columns at right

### Expenditures (excludes power stripping)

<table>
<thead>
<tr>
<th>Type of Work Performed</th>
<th>Expenditures (excludes power stripping)</th>
</tr>
</thead>
</table>

### Total

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

### Certification Verifying Report of Work

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

**Name and Postal Address of Person Certifying:**

**Date Certified:**

**Certified by (Signature):**