HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

on

SPOONER MINES AND OILS LIMITED PROPERTY

STURGEON LAKE AREA, ONTARIO

To Accompany Map No. 8

(WEST GRID)
INTRODUCTION:

An electromagnetic horizontal loop survey was carried out between August 7, 1971 and February 12, 1972 by Searchor Ltd., P.O. Box 69, Flin Flon, Manitoba; Contractor Antoni Wasyluk, Box 641, Flin Flon, Manitoba; and by Geosearch Consultants Limited, St. 1114, 100 University Avenue, Toronto 116, Ontario; on behalf of Granges Exploration Aktiebolag, Vancouver, B.C.

The Searchor Ltd. linecutting was supervised by Mr. Gordon Percival of Flin Flon, Manitoba; Geosearch Consultants portion of the survey was supervised by Mr. R. Lee; and Antoni Wasyluk's survey was supervised by George Lawson of Flin Flon, Manitoba. The overall program was supervised by George Zbitnoff, Geologist, on behalf of Granges Exploration Aktiebolag.

LOCATION AND ACCESS:

These mineral claims are located approximately 45 miles north of Ignace in northwestern Ontario as shown on the attached map.

Access is by road from the town of Ignace, approximately 40 miles north on Highway 599, then by skidoo via bush trail west about one mile to the claims.
GEOLOGY OF THE AREA:

The survey work was carried out on the property during the winter months, thus no geological observations were made on the property. The geology of the area is described as being mafic meta volcanics on Map 2169 as published by the Ontario Department of Mines.

SUMMARY OF EXPLORATION WORK DONE TO DATE ON THE PROPERTY:

To the knowledge of the writer, no previous ground surveys were performed on the property prior to these surveys carried out on behalf of Granges Exploration Aktiebolag. There was, however, an airborne electromagnetic and magnetic survey performed by Scintrex Ltd. for Spooner Mines & Oils Limited which was submitted as assessment work.

NAME AND ADDRESS OF OWNER OF THE CLAIMS:

Sponer Mines and Oils Limited,
Suite 607 - 00 Richmond Street West,
Toronto 110, Ontario.

Optioned to:

Granges Exploration Aktiebolag,
1060 - 1055 West Hastings Street,
Vancouver 1, B.C.

NAME AND ADDRESS OF PARTY SUBMITTING WORK:

The name and address of the party submitting the work for assessment purposes is: Granges Exploration Aktiebolag,
1060 - 1055 West Hastings Street,
Vancouver 1, B.C.
NUMBER OF CLAIMS COVERED BY THE SURVEY:

The numbers of the claims actually covered by the surveys on which the work is shown on attached map No. 8 and are specified in the Report of Work form. A total of 13 claims were covered by this survey.

INSTRUMENTS USED TO PERFORM THE SURVEY:

The surveys were completed using an ABEM Electromagnetic Gun horizontal loop survey unit; manufactured by A.B. Electrisk Malmletning, Stockholm, Sweden, operating at 3520 cycles per second, and using a transmitter-receiver coil spacing of 300 feet.

Readings were recorded along the section lines of a 400-foot grid and isolated locations of 200-foot grid at 100-foot intervals and in anomalous zones at 50-foot intervals.

The ABEM Gun operates on the same principle as all other horizontal loop instruments, with typical results for all being as in the following description. When the survey crew are tranversing a section line and approaching a conductor, positive results are obtained. These are followed by negative readings when the conductor lies between the coils, and a second positive section when both coils have passed beyond the conductor.

Both In-Phase and Quadrature components show the same general response; however, the ratio of In-Phase to Quadrature is directly proportional to the conductivity of the zone. A
ratio of In-Phase to Quadrature greater than two indicates a high conductivity. Ratios of one to two indicate medium conductivity, while a ratio of less than one indicates poor conductivity. Generally, ratios of less than 0.5 indicates a response due to ionic conduction in muskeg or lake bottom material.

The accompanying map shows the grid system, plotted readings and electromagnetic conductors. The locations of readings are indicated by dots along the section lines. Each location is the position of the mid-point between the transmitter and receiver coils when the reading was taken. The In-Phase readings are plotted to the left of the dots and the Quadrature readings are plotted to the right.

TOTAL STATIONS AND READINGS TAKEN ON THE GRID:

The initial number of stations established on the claims being submitted was 874 stations with 1,748 readings taken. Total number of line miles cut on the grids on the claims submitted is 18.1 including base lines and section lines. Total number of miles of electromagnetic surveying carried out was 16.97 miles.

EXPENDITURES INCURRED ON THE SURVEY:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line cutting</td>
<td>$ 1,267.00</td>
</tr>
<tr>
<td>Electromagnetic surveying</td>
<td>1,041.05</td>
</tr>
</tbody>
</table>

(continued)
RESULTS:

The results of the surveys performed are shown on enclosed map No. 8.

Seven separate conductors with fair to high conductivity and In-Phase amplitude were located, all indicating the presence of definite conductive mineralization. Three other very weak anomalies were also noted, these being attributed to conductive overburden and a fault zone. All are shown as solid or broken lines on the map.

CONCLUSIONS AND RECOMMENDATIONS:

The conclusion reached is that the anomalies showing the highest and best ratios are caused by conductors which may or may not be economic material.

It is recommended that these conductors be further tested by diamond drilling to establish if they are of any economic importance.

George W. Zbitnoff,
Geologist,
Gränges Exploration Aktiebolag
SCHEDULE "A"

PA-230260  PA-245965
  230261    245966
  230262    245967
  230263    245968
  230264    245969
  230265    245970
  230266    245971
  230267    245972

PA-222692
  222693
  222694
  222695
  222696
  222697

PA-245986
  245987

PA-245986
  245987

TOTAL = 33 Claims
REPORT

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

on

SPOONER MINES AND OILS LIMITED PROPERTY

FOURBAY LAKE AREA, ONTARIO

To Accompany Map No. 9

(THUNDER GRID)
INTRODUCTION:

An electromagnetic horizontal loop survey was carried out between November 15, 1971 and January 23, 1972 by Contractor Antoni Wasyliuk, Box 641, Flin Flon, Manitoba on behalf of Gränges Exploration Aktiebolag, Vancouver, B.C.

The linecutting and E.M. survey was supervised by Mr. George Lawson of Flin Flon, Manitoba. The overall program was supervised by George Zbitnoff, Geologist, on behalf of Gränges Exploration Aktiebolag.

LOCATION AND ACCESS:

The mineral claims as listed in Schedule "A" are located approximately 45 miles north of Ignace in northwestern Ontario. The area covered by these claims is half water and half land.

Access is by: a) ski or float equipped aircraft from Ignace, or b) by motoring approximately 50 miles north on Highway 599 to Jessie Lake, then by canoe or skidoo southeast via bush trail for about 2 miles to the claims.

GEOLOGY OF THE AREA:

The survey work was carried out on the property during the winter months, thus no geological observations were made on the property. The geology of the area is described as being mafic meta volcanics on Map 2169, published by the Ontario Department of Mines.
SUMMARY OF EXPLORATION WORK
DONE TO DATE ON THE PROPERTY:

To the knowledge of the writer, no previous ground surveys were performed on the property prior to these surveys carried out on behalf of Gränges Exploration Aktiebolag. There was, however, an airborne electromagnetic and magnetic survey performed by Scintrex Ltd. for Spooner Mines & Oils Limited which was submitted as assessment work.

NAME AND ADDRESS OF OWNER OF THE CLAIMS:

Spooner Mines and Oils Limited,
Suite 607 - 80 Richmond Street West,
Toronto 110, Ontario.

Optioned to:

Gränges Exploration Aktiebolag,
1060 - 1055 West Hastings Street,
Vancouver 1, B.C.

NAME AND ADDRESS OF PARTY SUBMITTING WORK:

The name and address of the party submitting the work for assessment purposes is: Gränges Exploration Aktiebolag,
1060 - 1055 West Hastings Street,
Vancouver 1, B.C.

NUMBER OF CLAIMS COVERED BY THE SURVEY:

The numbers of the claims actually covered by the surveys on which the work is shown on attached map No. 9 and are specified on Schedule "A". A total of 33 claims were covered by this survey.
INSTRUMENTS USED TO PERFORM THE SURVEY:

The survey was completed using an ABEM electromagnetic Gun horizontal loop survey unit; manufactured by A.B. Electrisk Malmletning, Stockholm, Sweden, operating at 880 cycles per second, and using a transmitter-receiver coil spacing of 300 feet. Readings were recorded along the section lines of a 400-foot grid and isolated locations of 200-foot grid at 100-foot intervals and in anomalous zones at 50-foot intervals.

The ABEM gun operates on the same principle as all other horizontal loop instruments, with typical results being as in the following description. When the survey crew are traversing a section line and approaching a conductor, positive results are obtained. These are followed by negative readings when the conductor lies between the coils, and a second positive section when both coils have passed beyond the conductor.

Both In-Phase and Quadrature components show the same general response; however, the ratio of In-Phase to Quadrature is directly proportional to the conductivity of the zone. A ratio of In-Phase to Quadrature greater than two indicates a high conductivity. Ratios of one to two indicate medium conductivity, while a ratio of less than one indicates poor conductivity. Generally, ratios of less than 0.5 indicates a response due to ionic conduction in muskeg or lake bottom material.

The accompanying map shows the grid system, plotted
readings and electromagnetic conductors. The locations of readings are indicated by dots along the section lines. Each location is the position of the mid-point between the transmitter and receiver coils when the reading was taken. The In-Phase readings are plotted to the left of the dots and the Quadrature readings are plotted to the right.

TOTAL STATIONS AND READINGS TAKEN ON THE GRID:

The number of stations established on the claims was 1,460 stations with 2,920 readings taken.

Total number of line miles cut on the grid on the claims submitted is 30.2 including base lines and section lines. Total number of miles of electromagnetic surveying carried out was 27.0 miles.

EXPENDITURES INCURRED ON THE SURVEY:

Line cutting $2,062.50
Electromagnetic survey 1,080.00
Drafting, layouts, maps, 316.34 etc
Office overhead, (management, secretarial, rent, etc.) 320.40

TOTAL EXPENDITURES $3,779.24
RESULTS:

The results of the survey are shown on enclosed map No. 9, drawn at a scale of 1" = 400 feet. Two bands of conductors were located on the eastern portion of the claims, on each side of and parallel to the 0+00 Baseline. Indicated conductivity and In-Phase response is strong at three locations, which would indicate shallow overburden at these points. All are shown on the map as solid or broken lines.

It is recommended that these conductors be further tested by diamond drilling to establish if they are of any economic importance.

George W. Zbitnoff, Geologist, Gränges Exploration Aktiebolag.
CERTIFICATE OF QUALIFICATION

I, George W. Zbitnoff, do hereby certify the following:

1) I am a graduate of the University of Saskatchewan in 1963 with a Bachelor of Arts degree in geology and chemistry.

2) I have been continuously employed in mineral exploration since May 1, 1962 in Ontario, Manitoba, Saskatchewan, and British Columbia.

3) I am a Professional Engineer in the Province of Manitoba, and have a Professional Engineer application pending in British Columbia.

George W. Zbitnoff

GZ/1k
# Statement

**Anton Wasylyk**

Flin Flon, Manitoba

Date: Dec 23, 1971

Yaanga Exploration Canada

<table>
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<th>DETAILS</th>
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<tr>
<td></td>
<td>CABB No: 1 7.2 mi Section</td>
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<td>CABB No: 2 1.5 Bk.</td>
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<td>24.6 mi Sce Liné</td>
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Paid: 1700.50

Form 80750061

Filed: 09/03/71

Form E-301-03

Date: Dec 23, 1971
**STATEMENT**

ANTONI WASYLUK
ORK COL.
FUN FLOK, MINSK

CASE N 135

DATE: DEC 26 1971

A. A. S. C. I. L. C. A.

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<th>BALANCE</th>
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<td></td>
<td>Cab 2 27 m.</td>
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<td></td>
<td>Cab 3 28 m.</td>
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<td></td>
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<td>Total 63 m.</td>
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**RECEIVED**

GRANTIS EXPLORATION CANADA

DEC 29 1971

Record No. C-301-03

$760

Paid Dec. 29/7

$1,305.00

(Completed in ink)
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<td>Eastern Thistlefield</td>
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<td>62.75</td>
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(Date: Jan 23rd, 1972)
GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

Type of Survey: Horizontal Loop Electromagnetic
Township or Area: Sturgeon Lake Area (Map # M-2266)
Claim holder(s): Spooner Mines and Oils Limited
Author of Report: George Zbitnoff
Address: 1060 - 1055 West Hastings Street, Vancouver, B.C.
Covering Dates of Survey: August 7, 1971 to Feb. 12, 1972
Total Miles of Line cut: 18.10

MINING CLAIMS TRAVERSED
List numerically

| PA | 230250 |
| PA | 230252 |
| PA | 230253 |
| PA | 230254 |
| PA | 230270 |
| PA | 230274 |
| PA | 230275 |
| PA | 230277 |
| PA | 230278 |
| PA | 230279 |
| PA | 230281 |
| PA | 230282 |
| PA | 230288 |

TOTAL CLAIMS: 13

PROJECTS SECTION
Res. Geol.: Kenora Qualifications: 1952
Previous Surveys: 2.58: Airborne

DATE: August 2, 1972
SIGNATURE: Author of Report

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer — Electromagnetic — Radiometric
(Enter days per claim)

DATE: August 2, 1972
SIGNATURE: Author of Report
## GEOPHYSICAL TECHNICAL DATA

### GROUND SURVEYS

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Number of Stations</td>
<td>874</td>
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<tr>
<td>Number of Readings</td>
<td>1,748</td>
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<tr>
<td>Station interval</td>
<td>100 feet and 50 feet</td>
</tr>
<tr>
<td>Line spacing</td>
<td>400 feet</td>
</tr>
<tr>
<td>Profile scale or Contour intervals</td>
<td>(specify for each type of survey)</td>
</tr>
</tbody>
</table>

### MAGNETIC

- **Instrument**
- **Accuracy - Scale constant**
- **Diurnal correction method**
- **Base station location**

### ELECTROMAGNETIC

- **Instrument**: ABEN EM Gun
- **Coil configuration**: Horizontal
- **Coil separation**: 300 feet
- **Accuracy**: ± 1%
- **Method**: In line
- **Frequency**: 3520 Hz
- **Parameters measured**: In-Phase and Quadrature

### 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**
**GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT**

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:** Horizontal Loop Electromagnetic

**Township or Area:** Fourbay Lake Area (Map # M-2879)

**Claim holder(s):** Spooner Mines and Oils Limited

**Author of Report:** George Zbitnoff

**Address:** 1060 - 1055 West Hastings Street, Vanc., B.

**Covering Dates of Survey:** Nov. 15/71 to Jan. 23/72

**Total Miles of Line cut:** 30.2

---

### SPECIAL PROVISIONS

**CREDITS REQUESTED**

<table>
<thead>
<tr>
<th>Geophysical</th>
<th>Emagnetometer</th>
<th>Radiometric</th>
<th>Other</th>
<th>Geological</th>
<th>Geochemical</th>
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<tbody>
<tr>
<td>ENTER 40 days (includes line cutting) for first survey.</td>
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<tr>
<td>ENTER 20 days for each additional survey using same grid.</td>
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</tbody>
</table>

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

- Magnetometer
- Electromagnetic
- Radiometric

**DATE:** August 2, 1978

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### MINING CLAIMS TRAVERSED

See Attached List

- Prefix
- Number

**TOTAL CLAIMS:** 33

---

**PROJECTS SECTION**

Res. Geol. Qualifications

Previous Surveys

Checked by date

---

**GEOLOGICAL BRANCH**

Approved by date

---

**GEOLOGICAL BRANCH**

Approved by date

---
GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations __________ 1,460 __________ Number of Readings __________ 2,920 __________
Station interval __________ 100 feet and 50 feet __________
Line spacing __________ 400 feet __________
Profile scale or Contour intervals. __________
(specify for each type of survey)

MAGNETIC

Instrument __________
Accuracy - Scale constant __________
Diurnal correction method __________
Base station location __________

ELECTROMAGNETIC

Instrument __________ ABEM EM Gun __________
Coil configuration __________ Horizontal __________
Coil separation __________ 300 feet __________
Accuracy __________ ± 1% __________
Method: □ Fixed transmitter □ Shoot back ☒ In line □ Parallel line __________
Frequency __________ 880 Hz __________
(specify V.L.F. station)
Parameters measured __________ In-Phase and Quadrature __________

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 __________
TECHNICAL ASSESSMENT WORK CREDITS

Recorder Holder: Spooner Mines & Oils Ltd.
Township or Area: S. W. part of Sturgeon Lake

<table>
<thead>
<tr>
<th>Type of Survey and number of Assessment Days Credits per claim</th>
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<tbody>
<tr>
<td>GEOPHYSICAL</td>
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<tr>
<td>Electromagnetic ...........................................40 days</td>
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<tr>
<td>Magnetometer ....................................................................days</td>
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<tr>
<td>Radiometric .....................................................................days</td>
</tr>
<tr>
<td>Induced Polarization ..................................................days</td>
</tr>
<tr>
<td>GEOLOGICAL ...................................................................days</td>
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<tr>
<td>GEOCHEMICAL ...................................................................days</td>
</tr>
<tr>
<td>Man days ☐ Airborne ☐ Special Provision ☐ Ground ☑</td>
</tr>
</tbody>
</table>

NOTICE OF INTENT TO BE ISSUED

☐ Credits have been reduced because of partial coverage of claims.

☐ Credits have been reduced because of corrections to work dates and figures of applicant.

☐ NO CREDITS have been allowed for the following mining claims as they were not sufficiently covered by the survey:

- Pa. 230250
  - 230252 to 54 inclusive
  - 230270
  - 230274 - 75
  - 230277 to 79 inclusive
  - 230281 - 82
  - 230288

NOTE - 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.
### TECHNICAL ASSESSMENT WORK CREDITS

**Recorder Holder**
Spooner Mines & Oils Ltd.

**Township or Area**
Fourbay Lake

<table>
<thead>
<tr>
<th>Type of Survey and number of Assessment Days</th>
<th>Credits per claim</th>
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<td><strong>GEOPHYSICAL</strong></td>
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<tr>
<td>Electromagnetic</td>
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<tr>
<td>Magnetometer</td>
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<td>Radiometric</td>
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<tr>
<td>Induced Polarization</td>
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<td><strong>GEOLOGICAL</strong></td>
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<tr>
<td><strong>GEOCHEMICAL</strong></td>
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<tr>
<td>Man days</td>
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<tr>
<td>Airborne</td>
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<tr>
<td>Special Provision</td>
<td></td>
</tr>
<tr>
<td>Ground</td>
<td></td>
</tr>
</tbody>
</table>

**NOTICE OF INTENT TO BE ISSUED**

- [ ] Credits have been reduced because of partial coverage of claims.
- [ ] Credits have been reduced because of corrections to work dates and figures of applicant.
- [ ] NO CREDITS have been allowed for the following mining claims as they were not sufficiently covered by the survey:

<table>
<thead>
<tr>
<th>Mining Claims</th>
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<tbody>
<tr>
<td>Pa, 222692 to 97 inclusive</td>
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<tr>
<td>230260 to 66</td>
</tr>
<tr>
<td>245965 to 82</td>
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<tr>
<td>245986 - 87</td>
</tr>
</tbody>
</table>

**NOTE** - 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;
<table>
<thead>
<tr>
<th>PA-230260</th>
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TOTAL = 33 Claims
File: 2.976
W1617, Whitney Block,
Parliament Buildings,
Queens Park, Toronto.

September 26, 1972.

Mr. W. A. Buchan,
Mining Recorder,
Court House,
Sioux Lookout, Ontario.

Dear Sir:

Re: Mining claims no. Pa. 222692 et al,
Fourbay Lake Area. File 2.976

The Geophysical (Electromagnetic) assessment work credits as
shown on the attached list have been approved as of the date
above. Please inform the recorded holder and so indicate on
your records.

Yours very truly,

Fred W. Matthews,
Supervisor,
Projects Section.

c.c. Spooner Mines & Oils Ltd.
607 - 80 Richmond St., W.,
Toronto 1, Ont.

/
c.c. Resident Geologist,
Kenora, Ont.

C.C. Granges Exploration AB,
Canadian Division,
1060 Guinness Tower,
1055 West Hastings St.,
Vancouver 1, B. C.
SEE ACCOMPANYING MAP(S) IDENTIFIED AS

52J/02 SW-0064# 1-2

LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE

(X)