



42A14SW0030 2.4668 CRAWFORD

010

MAR 3 1 1982

MINING LANDS SECTION

REPORT
ON
MAXMIN 11 ELECTROMAGNETIC AND MAGNETOMETER SURVEYS
GROUP 9
CRAWFORD TOWNSHIP
PORCUPINE MINING DIVISION
NORTHEASTERN ONTARIO

FOR
HOME OIL COMPANY LIMITED

Timmins, Ontario
June, 1981


John C. Grant
Exsics Exploration Ltd.



42A14SW0030 2.4668 CRAWFORD

010C

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INTRODUCTION

This report deals with the results of a MaxMin 11 electromagnetic survey on Group 9 in Crawford Township conducted by Exsics Exploration Limited for Home Oil Company Limited.

Complete Coverage was done on the claims, as listed below, in Crawford Township

P568749
P568750

P568751
P568752

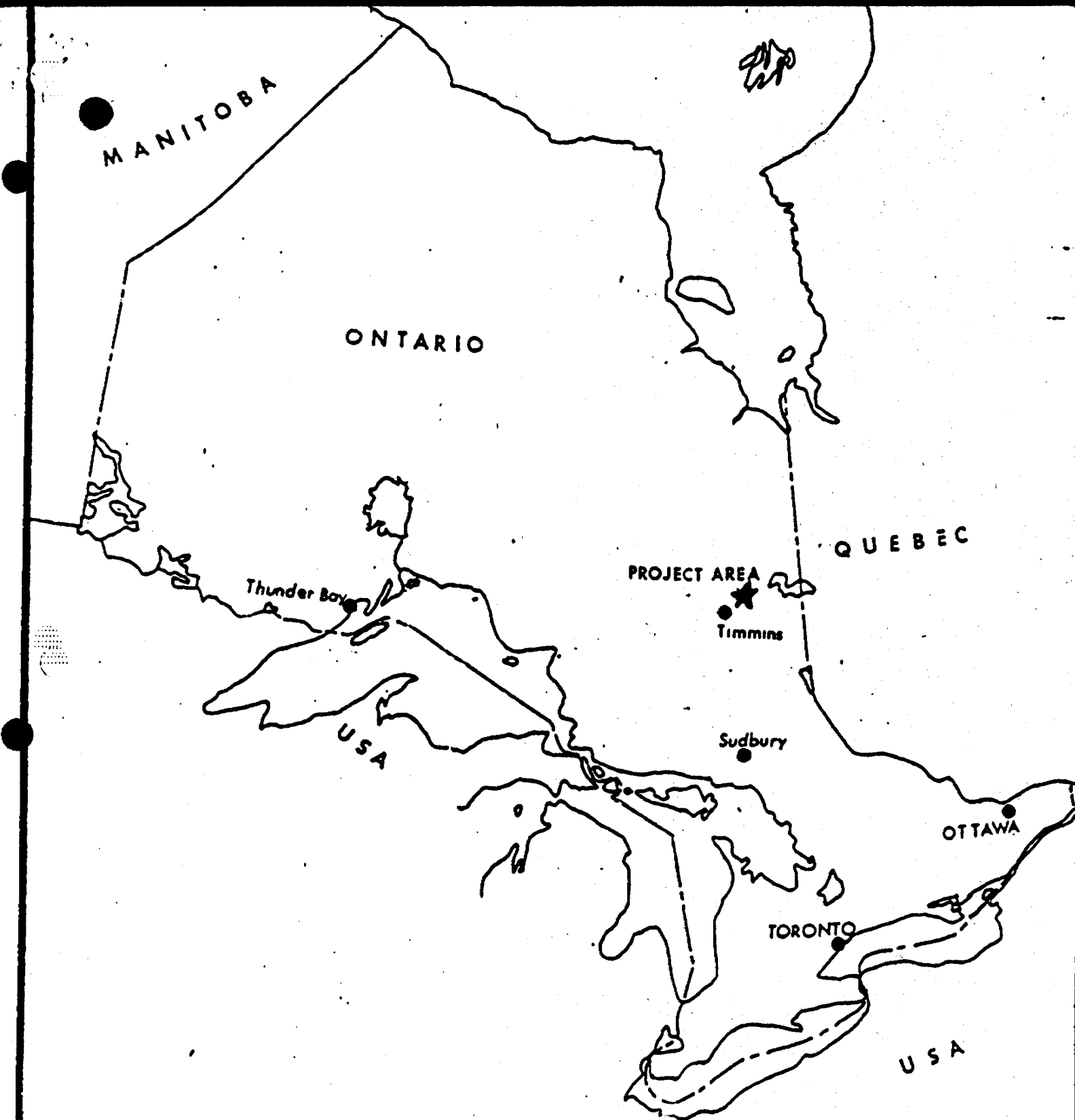
The grid plans show 1777(high) frequency, 444(low) frequency and the contoured magnetometer results. These are presented with this report, as maps, in the back pocket.

LOCATION AND ACCESS

Group 9 is located in Lot 6, Concession 6 of Crawford Township. Access to the property was by truck from Timmins along highway 655 towards Smooth Rock Falls; until Abitibi's camp 40 road and then along camp 40 road to the grid location. An argo, traveling east, was used to reach the baseline from Camp 40 road.

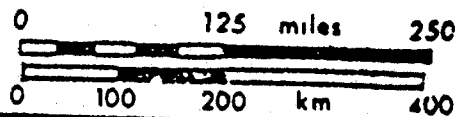
LINECUTTING

A total of 8.0 kilometers of grid and baselines were cut. The baseline runs at an azimuth of 090 degrees with lines cut at 100 meter intervals in a north - south direction. The cross lines were chained with stations at 25 meter intervals.



Home Oil

FIGURE 1
LOCATION MAP



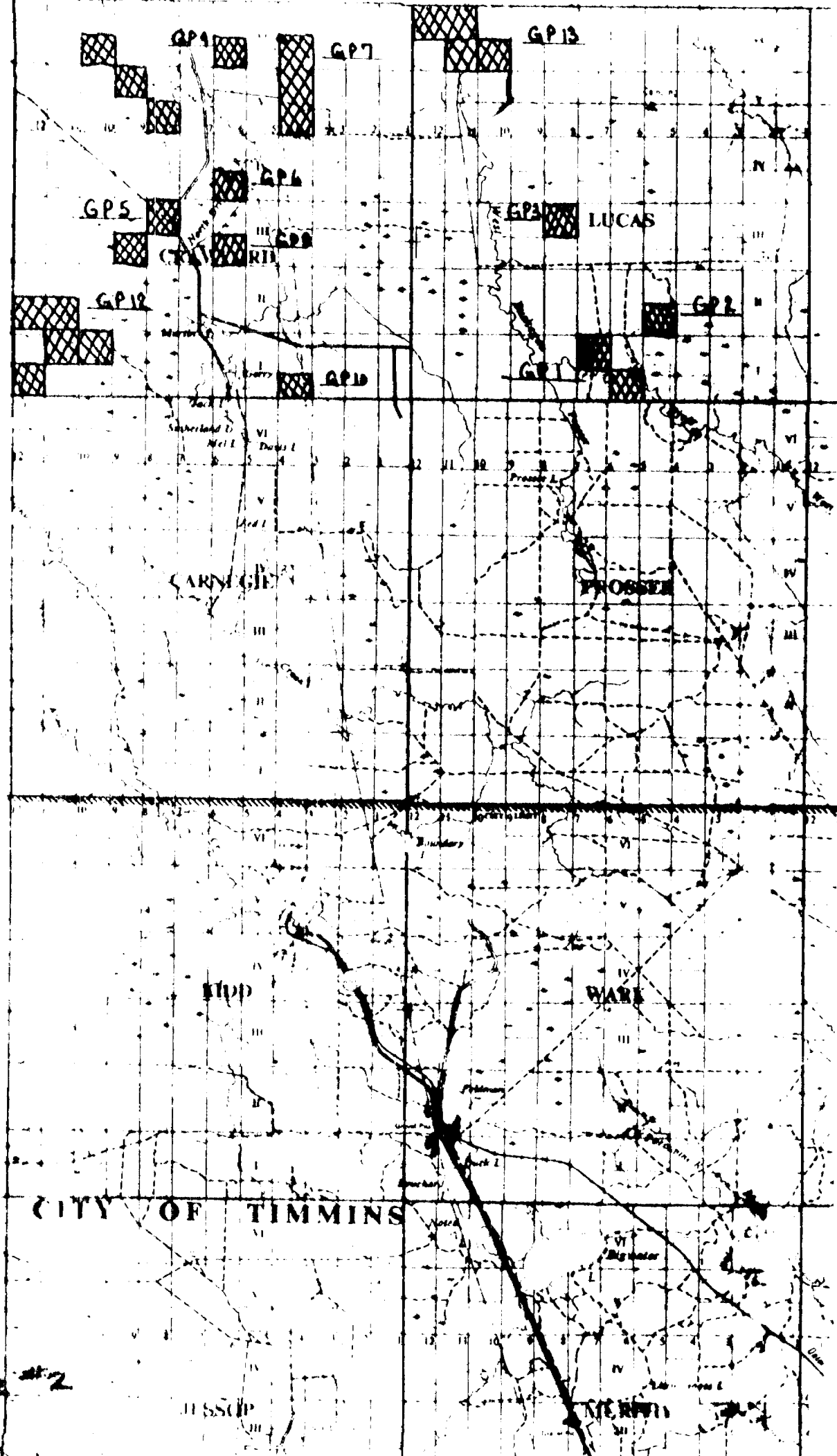


Figure #2

GEOPHYSICAL SURVEYS

1. Electromagnetic Survey

This survey was completed using an Apex Parametrics Ltd. MaxMin 11 unit. A 100 meter reference cable was used, with operating frequencies of 1777 and 444hz throughout the survey. Technical and operating specifications of the MaxMin 11 unit are included in Appendix A of this report.

The results of the EM survey are presented as Map 1 (showing the 1777hz) Map 2 (showing the 444hz) in the back pocket of this report. The results are summarized.

2. Magnetometer Survey

A geometrics G-816 proton precession mag was used throughout the survey. Corrections for diurnal variations was by reference to a Recording Base Station Magnetometer G-826A manufactured by Exploranium Geometrics Ltd.

3. Survey Results

The MaxMin noted and detailed one major zone A and three minor zones called A',B'. These are discussed separately below.

4. Conductor Characteristics

Zone A

L 200ME to L 400ME

General Characteristics:

- strike length
225m @ 100 degrees
- depth to source ranges
from 20m to 55m
- conductivity values
of 10 MHOS west to
east
- dipping near vertical

L 200ME
1777hz

- depth to source of
31m
- conductivity value
8MHOS

444hz

- depth to source of
32m
- conductivity value
of 18MHOS

L 300ME
1777hz

- depth to source of
20m
- conductivity value
of 8MHOS

444hz

- depth to source of
27m
- conductivity value
of 35MHOS

L 400ME	1777hz	-depth to source of 36m -conductivity value of 9MHOS
	444hz	-depth to source of 52m -conductivity value of 40MHOS

Zone B

L 200ME to L 400ME
General Characteristics:

- Weak strike length of 200m on 1777hz diminishing to 100m on 444hz @ 110 degrees
- depth to source of 10m to 60m
- dipping north to near vertical

L 200ME -Very questionable response

L 300ME	1777hz	-depth to source of 10 meters -conductivity value of 1MHOS
---------	--------	---

	444hz	-Very weak response
--	-------	---------------------

L 400ME	1777hz	-depth to source of 25 meters -conductivity value of 2.5MHOS
---------	--------	---

	444hz	-depth to source of 55 to 60 meters -conductivity value of 24MHOS
--	-------	--

Zone A'

L 0+00 (225 mn) -Very weak, high frequency, response and weaker 444hz

	1777hz	-depth to source of 23m -conductivity value of 1.5MHOS
--	--------	---

Zone B'

L 0+00 to L 100ME		-strike length of 100m+ @ 110 degrees possibly part of zone B faulted
L 0+00	1777hz	-depth to source of 23 m -conductivity value of 2.5MHOS
	444hz	-very weak out of phase response
L 100ME	1777hz	-depth to source of 33 m -conductivity value of 7.5MHOS
	444hz	-depth to source of 53 m -conductivity value of 38MHOS

Magnetics

The general magnetics of the grid show spotted highs of 150 to 250 gammas above background with strike lengths of 200 meters.

Conductor A is a spot high on the west dip of the axis, one spot high in the north side and one spot high of 200 meters off the east dip, on strike with A's axis.

All other conductor zones show no Mag correlations.

PREVIOUS WORK

(1965) Keevil Mining Group did Vertical Loop (SE-200) and Fluxgate Mag survey.

(1965) - 1 Diamond Drill Hole Log

They also drilled one 400' hole @ 50 degrees. Hole is located 200' west and 100' south of # 2 post in SW 1/4, LOT 6, Concession 6 of Crawford Township.

(1973) McIntyre Porcupine Mines

SE 200 survey: -noted one large conductive zone striking 2400' @ 120 degrees

-also noted 2 weaker zones paralleling the main zone striking 400 & 800'

Mag Survey: The survey showed 3 moderately strong zones not continuous, along strike of the 2400' zone.

1 Diamond Drill Hole of 351' drilled on south 1/2, Lot 6, Concession 6 of Crawford Township (Home Oil claim 568750) '

Photocopy of the drill log is attached.

CERTIFICATE

I, John Grant, hereby certify that:

- 1) I am a 1975 graduate of the three year program in Geological Technology at the Cambrian College of Applied Arts and Technology and I have worked subsequently as Chief Geophysicist for Teck Exploration (5 years) and Exsics Exploration Ltd.
- 2) The field work described in the attached report was carried out under my supervision and the interpretation and conclusions contained therein are based on my training and professional experience.

John Grant
John Grant,
Exsics Exploration Ltd.

24668
Duplicate

DIVISION OF MINES
SOUTHERN REGION
SEP 11 1981
RECEIVED

REPORT
ON
MAXMIN 11 ELECTROMAGNETIC AND MAGNETOMETER SURVEYS
GROUP 9
CRAWFORD TOWNSHIP
PORCUPINE MINING DIVISION
NORTHEASTERN ONTARIO

FOR
HOME OIL COMPANY LIMITED

RECEIVED
MAR 31 1982
MINING LANDS SECTION

Timmins, Ontario
June, 1981

J. Grant
John C. Grant
Exsics Exploration Ltd.

ASST. REGISTRAR WORK
1.21

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electromagnetic survey on Group 9 in Crawford Township
conducted by Exsics Exploration Limited for Home Oil
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Complete Coverage was done on the claims, as listed below,
in Crawford Township

P568749
P568750

P568751
P568752

The grid plans show 1777(high) frequency, 444(low) frequency
and the contoured magnetometer results. These are presented
with this report, as maps, in the back pocket.

AND
T. J. H. H.

LOCATION AND ACCESS

Group 9 is located in Lot 6, Concession 6 of Crawford Township. Access to the property was by truck from Timmins along highway 655 towards Smooth Rock Falls; until Abitibi's camp 40 road and then along camp 40 road to the grid location. An argo, traveling east, was used to reach the baseline from Camp 40 road.

LINECUTTING

A total of 8.0 kilometers of grid and baselines were cut. The baseline runs at an azimuth of 090 degrees with lines cut at 100 meter intervals in a north - south direction. The cross lines were chained with stations at 25 meter intervals.

GEOPHYSICAL SURVEYS

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2. Magnetometer Survey

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ABSTRACT

3. Survey Results

The MaxMin noted and detailed one major zone A and three minor zones called A', B'. These are discussed separately below.

4. Conductor Characteristics

Zone A

L 200ME to L 400ME

General Characteristics:

- strike length
225m @ 100 degrees
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of 10 MHOS west to
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L 200ME
1777hz

- depth to source of
31m
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8MHOS

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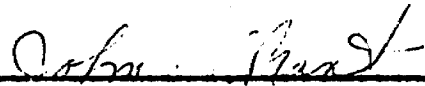
Photocopy of the drill log is attached.

7.00

CERTIFICATE

I, John Grant, hereby certify that:

- 1) I am a 1975 graduate of the three year program in Geological Technology at the Cambrian College of Applied Arts and Technology and I have worked subsequently as Chief Geophysicist for Teck Exploration (5 years) and Exsics Exploration Ltd.
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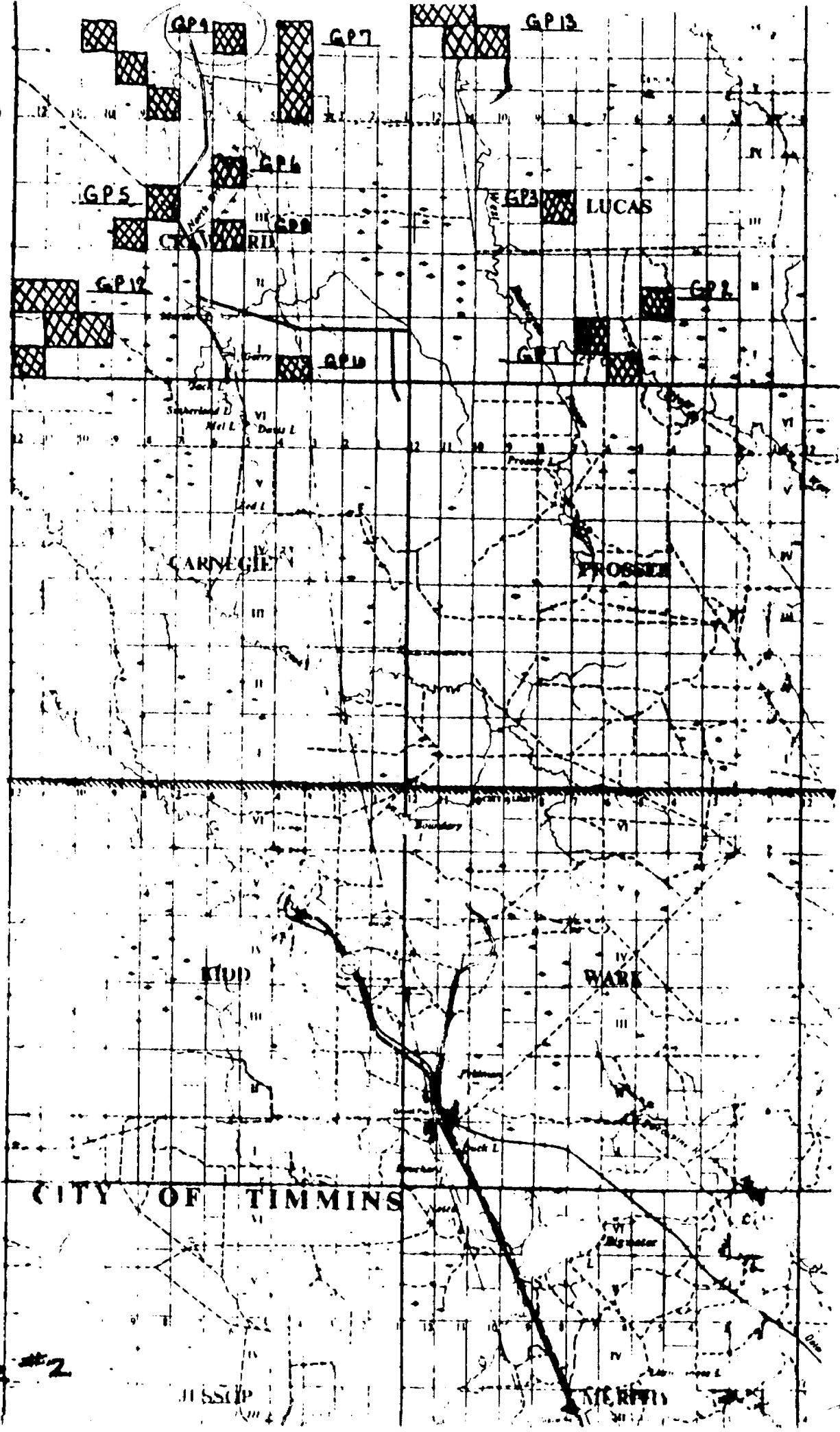


John Grant,

Exsics Exploration Ltd.

1981

7-2-110



(9)

Lot 6
C VI

Figure #2

USSCP

STEVENS



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

24668

11.7



42A14SW0030 2.4668 CRAWFORD

900

CRAWFORD Twp. #122 **The Miner**

Type of Survey(s): **ELECTROMAGNETIC & Radiometric MAG.** Township or Area: **Crawford Twp.**

Claim Holder(s): **Home Oil Company Ltd.** Prospector's Licence No.: **T 1014**

Address: **2300 Home Oil Tower, 301-8th Ave S.W. Calgary Alberta**

Survey Company: **Excels Exp. Ltd.** Date of Survey (from & to): **15 Oct 81 - 20 Dec 81** Total Miles of line Cut: **8.0 km.**

Name and Address of Author (of Geo-Technical report): **John C. Grant, Box 1880, Timmins, Ont. P4N-7X1**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	40
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
	Geophysical	
	Days per Claim	
Man Days Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological	
	Geochemical	
	Electromagnetic	
	Days per Claim	
Airborne Credits	Magnetometer	
	Radiometric	
	Days per Claim	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	568749				
	568750				
	568751				
	568752				

Expenditures (excludes power stripping)

Type of Work Performed: **PORCUPINE MINING DIVISION**

Performed on Claim(s): **RECEIVED**

Calculation of Expenditures: **MAR 30 1982**

Total Expenditures: **78910112123456** + **15** = **93910112123456**

RECORDED

MAR 31 1982

Receipt No.

Total number of mining claims covered by this report of work. **4**

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.

For Office Use Only

Total Days Cr. Recorded: **240** Date Recorded: **March 31 1982** Mining Recorder: *[Signature]*

Date Approved as Recorded: **240** Regional Mining Recorder: *[Signature]*

Date: *[Signature]* Recorded Holder or Agent (Signature): *[Signature]*

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: **John C. Grant, Box 1880, Timmins, Ont. P4N-7X1**

Date Certified: *[Signature]* Certified by (Signature): *[Signature]*



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(s) Electromagnetic, Magnetometer
Township or Area Crawford Twp.
Claim Holder(s) Home Oil Company Limited
2300 Home Oil Tower, 324-8th Ave. S.W. Calgary, Alberta
Survey Company Exsics Exploration Limited
Author of Report John Grant
Address of Author P.O. Box 1880 Timmins Ont. P4N-7X1
Covering Dates of Survey June/81 Line cutting done
(linecutting to office) IN March-
April/81
Total Miles of Line Cut 8.0 Km

MINING CLAIMS TRAVERSED
List numerically

P 568 749
(prefix) (number)
P 568 750
P 568 751
P 568 752

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

Geophysical
--Electromagnetic 20
--Magnetometer 40
--Radiometric _____
--Other _____
Geological _____
Geochemical _____

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

ENTER 20 days for each
additional survey using
same grid.

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: July 30/81 SIGNATURE: John Grant
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 4

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations Mag. 288 Max Min 252 Number of Readings Mag 288 Max Min 5
Station interval 25 M Line spacing 100 M
Profile scale Max Min 1 CM = ± 10%
Contour interval Mag 50 gamma.

MAGNETIC

Instrument GEOMETRICS G-816 PROTON PRECESSION magnetometer + G826A
Accuracy - Scale constant ± 1 GAMMA
Diurnal correction method RECORDING BASE STATION
Base Station check-in interval (hours) CONTINUOUS MONITOR DURING SURVEY
Base Station location and value Lot 11, Con. 2 Mount Joy Twp.
59,000 gammas.

ELECTROMAGNETIC

Instrument Apex Parametrics Max Min II.
Coil configuration Horizontal.
Coil separation 100 M.
Accuracy ± 1%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 444 Hz and 1777 Hz
(specify V.L.F. station)
Parameters measured Horizontal in phase and Quadrature
Components of the secondary field.

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

24 IP
FOR
TOTAL



SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD



Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____



2.4668

Your file: 7561.1v2

1983 09 09

Our file: 2.4670, 2.4669,
2.4667, 2.4668,
2.4662, 2.4664,
2.4663.

Mr. William L. Good
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Home Oil Company Limited recorded 20 days Electromagnetic and 40 days Magnetometer assessment work credits on each of the mining claims:

- P 486560 to 571 inclusive
- 567645 to 655 "
- 568734 to 741 "
- 567114 to 117 "
- 568681 to 688 "
- 568749 to 756 "
- 567053 to 062 "
- 567434-435

Additional information has been requested from the claim holder and has not been submitted.

You are hereby authorized to delete the work credits recorded on March 31, 1982 from each of the claim record sheets. Please inform the recorded holder accordingly.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

with S. Hurst:sc

ccHome Oil Co Limited
2300 Home Oil Tower
Suite 324
8th Avenue South West
Calgary, Alberta.



Ministry of
Natural
Resources

1983 09 12

Resident Geologist
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 3W2

Your file:

Our file: 2.4662
2.4663
2.4664
2.4667
✓2.4668
2.4669
2.4670

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer)
Surveys on Mining Claims P 486560 et al in
the Townships of Crawford and Lucas.

Additional information was requested from the claim holder
on the above mentioned surveys and not submitted. This data
has therefore, not been assessed.

Enclosed are copies of the reports for your information.

Yours very truly,

E.P. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

file
S. Hurst:sc

cc: Mining Recorder
Timmins, Ontario

Encls:

MNR CC TOR

HOME OIL CGY

NR 00003 830721 1426
C6174 NV6164

RECEIVED	
Land Management Branch	
CIRCULATE	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
JUL 22 1983	
E. L. ANDERSON	
W. R. MORTON	
B. C. SMITH	
G. SHERMAN	
D. M. SMALL	
RETURN TO R. 6450	

RECEIVED

JUL 27 1983

MINING LANDS SECTION

TO: ARTHUR BAR

ONTARIO MINISTRY OF NATURAL RESOURCES
WHITNEY BLOCK, ROOM 6450
QUEEN'S PARK
TORONTO, ONTARIO
M7A-1W3

FURTHER TO OUR TELEPHONE DISCUSSION OF JULY 20, THIS IS OUR
FORMAL REQUEST FOR AN EXTENSION UNTIL AUGUST 22, 1983 TO FILE
HOME OIL'S ADDITIONAL INFORMATION FOR WORK CREDITS.

YOUR FILE NO'S 2.4666, 2.4462, 2.9664, 2.4627, 2.4663, 2.4670,
2.4669, 2.4629, 2.4628, 2.4667, 2.4668

S. J. STEFANOWSKI

MNR CC TOR

HOME OIL CGY

2.4668

July 11, 1983

REGISTERED

Home Oil Company Limited
2300 Home Oil Tower
324 - 8th Avenue South West
Calgary, Alberta
T2P 2Z5

Dear Sirs:

RE: Geophysical (Electromagnetic & Magnetometer)
Survey submitted on Mining Claims P 568749 et
al in the Township of Crawford.

Enclosed is a copy of our letter dated January 18, 1983
requesting additional information for the above mentioned
survey.

Unless you can provide the required data by July 22, 1983
the mining recorder will be directed to cancel the work
credits recorded on March 31, 1982.

For further information, please contact Mr. F.W. Matthews
at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

S. Hurst:sc

Encls:

cc: Mr. John Grant
P.O. Box 1880
Timmins, Ontario
P4N 7X1

cc: Mining Recorder
Timmins, Ontario

1983 01 18

2.4668

Home Oil Company Limited
2300 Home Oil Tower
324-8th Avenue South West
Calgary, Alberta
T2P 2Z5

Dear Sirs:

RE: Geophysical (Electromagnetic & Magnetometer) Survey
on Mining Claims P 568749 et al in the Township of
Crawford

Enclosed are the plans in duplicate for the above mentioned
survey. Please show all claim lines and numbers and return
them to this office.

For further information, please contact Mr. F.W. Matthews at
416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr:sc

Encls:

cc: Mining Recorder
Timmins, Ontario

Mining Lands Comments

more need alarm lines and numbers

To: Geophysics *Mr. Barber*

Comments

Approved Wish to see again with corrections

Date *Oct 27/82*

Signature *Ryan Bell*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

11

Approved Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1360)

1982 04 05

2.4668

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electro-magnetic and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 568749 et al in the Township of Crawford.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

J. Skura/amc

cc Home Oil Company Limited
Calgary, Alberta

724225

cc John Grant
Timmins, Ontario