2.4628



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REPORT

ON

MAXMIN 11 ELECTROMAGNETIC AND MAGNETOMETER SURVEYS

GROUP 13

CRAWFORD TOWNSHIP

PORCUPINE MINING DIVISION

NORTHEASTERN ONTARIO

RECEIVED

MAR 1 7 1982

MINING LANDS SECTION

FOR

HOME OIL COMPANY LIMITED

Timmins, Ontario June, 1981

John C. Grant Exsics Exploration Ltd.



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LOCATION AND ACCESS

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INTRODUCTION

This report deals with the results of a MaxMin ll electromagnetic survey on Group 13 in Lucas Township conducted by Exsics Exploration Limited for Home Oil Company Limited.

Complete survey coverage was done of the claims, as listed below, in Lucas Township.

P609767	P609771	P611251	P611255
P609768	P609774 -	P611252	P611256
P609769	P609775	P611253	P611257
P609770	P609776	P611254	P611258

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.

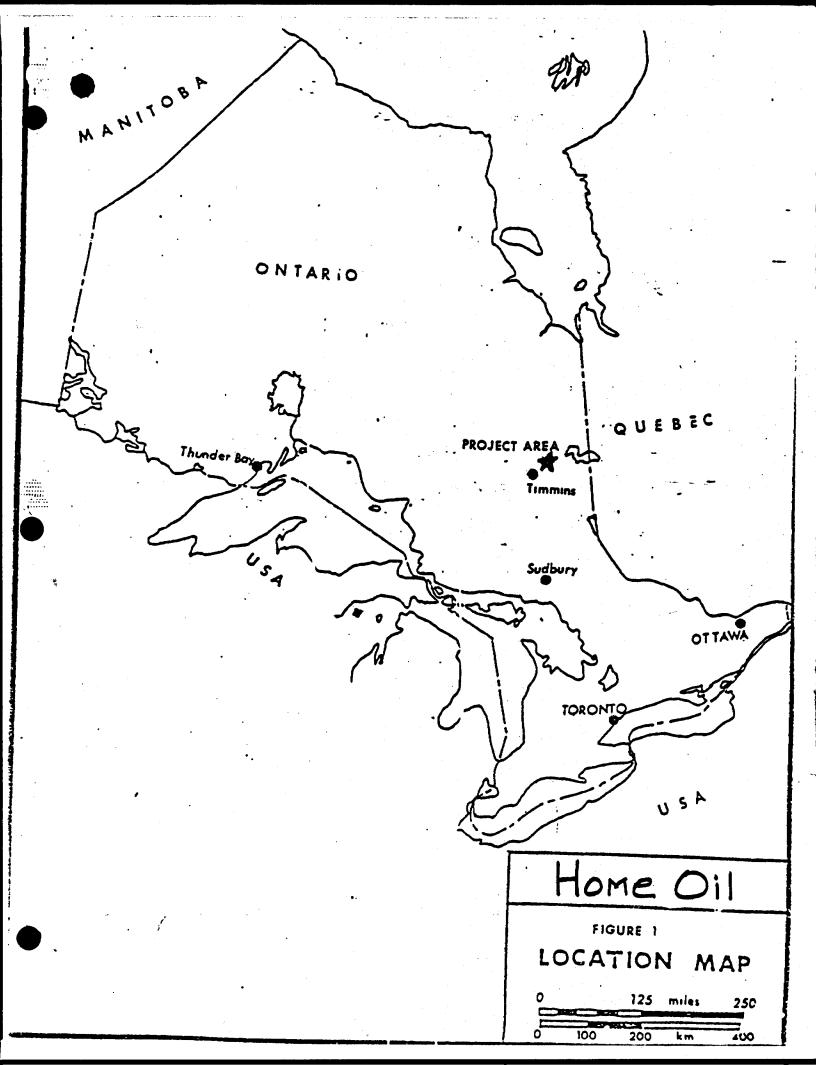
LOCATION AND ACCESS

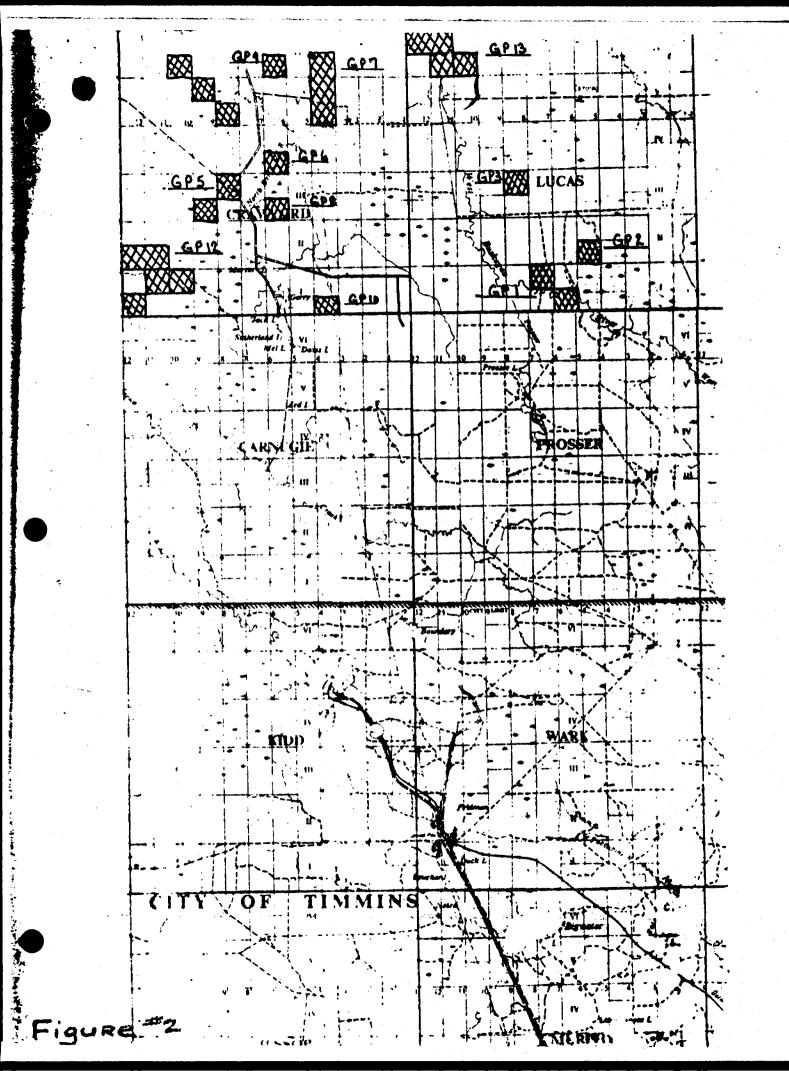
Group 13 is located in Lot 6, Concessions 10, 11 and 12 of Lucas Township. The West Buskegou River flows through the centre of the grid as it leaves Lucas Township.

Access to the property was by truck along Highway 655 to a dirt road, at the south-west corner of Wark Township, that followed an old power line which parallels Hwy. 655 1/2 to 3/4 of a mile to the east. Camps were established on the power line as it crosses the group. (see figure 1 and 2)

LINECUTTING

A total of 29.0 km of grid lines and baselines were cut. Baseline (1) was cut at azimuth 090 degrees from L 0+00 to L 1200 ME with cross lines cut at 100 m intervals in a north - south direction from 500 MS to 300 MN for lines 0+00 to 700 ME and 300 MN to 825 MS for lines 8-12E. Baseline (2) was cut from L 1300 ME to L 2300 ME at azimuth 090 degrees with cross lines cut at 100 m intervals in a north - south direction from 800 MS to 750 MN. All cross lines were chained at 25 m intervals.





GEOPHYSICAL SURVEYS

1. Electromagnetic Survey

This survey was completed using an Apex Parametrics Ltd. MaxMin 11 unit. A 150 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 below.

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 survey noted 3 major zones called A, B and B. The survey also showed 2 weaker zones called A, and C. These zones will be discussed separately below.

4. Conductor Characteristics .

Zone A General Characteristics:

The zone strikes at azimuth 1250 for 1500 M+ accross line 800ME to Line 2300ME. It is located under highly conductive overburden which makes interpretation on the 1777hz very difficult. The dip of the zone is slightly south to near vertical. The depth to source ranges from 55 to 35 m east to west and 25 to 80 MHOS east to west.

L 1000ME

444hz

-Depth to source of 55m
-Conductivity value of
22MHOS

L 1100 ME	444hz	-depth of source of 61m -conductivity value of 52MHOS (?)
L 1300 ME	444hz	-depth to source of 57m -conductivity value of 60 MHOS
L 1500 ME	444hz	-depth to source of 46m -conductivity value of 90 MHOS (?)
L 1600 ME	444hz	-depth to source of 34m -conductivity value of 100 MHOS (?)
L 2000 ME	444hz	-depth to source of 34m -conductivity value of 48 MHOS
L 2100 ME	444hz	-depth to source of 33m -conductivity value of 58 MHOS
· •	1777hz	-depth to source of 20m -conductivity value of 7 MHOS
L 2200 ME	444hz	-depth to source of 34m -conductivity value of 61 MHOS
L 2300 ME	1777hz	-depth to source of 20m -conductivity value of 10 MHOS
	444hz	-depth to source of 34m -conductivity value of
/		62 MHOS

•

Zone B

General Characteristics:

This zone strikes at AZ 120° across lines 1300 ME to L 2300 ME. The survey shows some minor shifting of the conductor axis which may be due to different thicknesses of the source. The depth to source ranges from 37m on the west end to 14m at the centre and 25m on the east end. The MHO value also varies from 30 MHOS to 60 MHOS to 40 MHOS, west to east. The general dip of the zone is also slightly south.

L 1400 ME	1777hz	-depth to source of 12m
		-conductivity value of
•		20 MHOS
	444hz	-depth to source 22m
		-conductivity value of 55 MHOS
L 1500 ME	444hz	-depth to source of 23m
		-conductivity value of 30 MHOS
L 1600 ME	444hz	-depth to source of 37m
		-conductivity value of
		21 MHOS
L 1800 ME	444hz	-depth to source 23m
		-conductivity value of
		60 MHOS
L 1900 ME	444hz	-depth to source of 23m
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

		•
L 2000 ME	1777hz	-depth to source of 12m
		-conductivity value of 21 MHOS
	444hz	-depth to source of 14m
•		-conductivity value of 40 MHOS
L 2100 ME	444hz	-depth to source of 18m
		-conductivity value of 42 MHOS
L 2200 ME	444hz	-depth to source of 25m
		-conductivity value of 42 MHOS

Zone B

General Characteristics:

This zone strikes at AZ 115° across lines 900 ME to 1500 ME. It may be part of zone B which has been faulted north. It ranges in depths of 50m on the west end to 20m in the middle and 40m on the east end. The conductivity value also varies from 25 MHOS to 50 MHOS to 25 MHOS west to east. The dip of the zone is near vertical to south.

L 900 1	Æ	444hz	<pre>-depth to source of -conductivity value</pre>	* ·
L 1000	ME	1777hz	-depth to source of -conductivity value	
		444hz	-depth to source of -conductivity value	
L 1100	ME	444hz	-depth to source of -conductivity value	
L 1500	ME	444hz	-depth to source of -conductivity value	and Artistance and A

Zone A

General Characteristics:

This zone strikes at AZ 115° across lines 1400 ME to 1600 ME with a depth range of 35 to 40m and a conductivity value range of 50-16 MHOS. The dip of the zone is south to vertical.

L 1500ME	444hz	-depth to source of 40m
		-conductivity value of 50 MHOS
L 1600ME	ևևևիշ	-depth to source of 33m

-conductivity value of 16 MHOS

Zone · C

General Characteristics:

This zone strikes AZ 095° across lines 0+00 to 400ME showing depths of 20-25 meters and 1 to 1.5 MHOS. The zone is slightly dipping.

L 0+00	1777hz	-depth to source of 24m
	· ·	-conductivity value of 1 MHOS
I 300ME	1777hz	-depth to source of 24m
	•	-conductivity value of 1 MHOS
L 400ME	1777hz	-depth to source of 18m
		-conductivity value of 1.5 MHOS

Magnetics

There is no distinct Mag trends throughout the grid. There is however several Mag highs paralleling and following zones B and B. These highs consist of bullseye type responses with strike lengths of 220 to 250 meters. Conductive zone B has three of these Mag highs associated with it and the positions of these highs and the highs of zone B suggest that they may be the same zone. All other zones have no definite Mag correlation.

CONCLUSIONS

Two to three lines of MaxMin or Pulse should be done to intersect the zones at a better angle for interpretation. There does not appear to be any Diamond Drill Hole on these zones. The absence of Mag may suggest a grouphitic zone.

PREVIOUS WORK

INCO (1965)

One Diamond Drill Hole of 424' in length. The hole is located on their claim, which is located in the NE I/4, N 1/2, Lot 10, Concession 6 of Lucas Township. (See attached photocopy of drill log.)

SHELL OIL (1977)

Geoex did a proton Mag survey on the area. They located a strong east west trending Mag striking for 200m. Also, a second mag high on strike, 300m to the east.

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,

Exsics Exploration Ltd.

Resources

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)



	5 4045		ine Mining A	u			9
Type of Survey(s)	<i>n</i>				Township	or Area	
LIECTROMA,	NETK PR	27 cal	MAG.			IProspector's Licence No.	0 .
Jaim Holder(s)						Prospector's Licence No.	
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For each additional survey: using the same grid:	, 1		6	09 76.9			
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lan Days	Geochemical	-		09774			
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	- Radiometric			112-3		MAR 1 7 198	2
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	Geochemical			110			
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		Claim	4 C	11256			
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Ontario

OFFICE USE ONLY

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

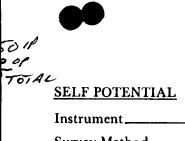
TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Electromagnetic, Magnetometer	GROUP 13
Township or Area Lucas Twp.	MINING CLAIMS TRAVERSED
Claim Holder(s) Home Oil Company Limited	List numerically
2300 Home Oil Tower, 324-8+17 Auc. S.W. Calgary,	
Survey Company £xsics £xploration Ltd.	P 609 767 (prefix) (number)
Author of Report Dohn Grant	(prefix) (number) P 609 768
Address of Author P.O. BOX 1880 Timmins Ont Covering Dates of Survey Accept Sept Line Cutting	P 609769
(linecutting to office) done / v	***************************************
Total Miles of Line Cut 29.0 Km. April/May	
	P 609 771
SPECIAL PROVISIONS CREDITS REQUESTED Combusical per claim	P 609772
Geophysical —Electromagnetic ZO	P 609 713
ENTER 40 days (includes line cutting) for first —Magnetometer 40	P 609774
survey. —Radiometric	P 609775
ENTER 20 days for each —Other	P 609 776
additional survey using Geologicalsame grid.	***************************************
Geochemical	P 611251
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	252 الها
Magnetometer Electromagnetic Radiometric	P 611 253
DATE: SISTED SIGNATURE: And Chart	P 611254
Muthor of Report or Agent	P 611255
	P 611256
Res. Geol. Qualification FCF11/ED	P 611257
File No. Type Date McClaim Holder	P 611258
MINING LANDS SECTION	
MAR 1.7.1982	
MINING LANGU SECTION	
MINING LANDS STORE	TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

9	GROUND SURVEYS - If more than one survey, specify data for each type of survey
	Number of Stations Mag. 1338 MMin 935 Number of Readings Number of Rea
	Profile scale Magklin /CM = ± 10 %.
	Contour interval Mag 50 Gammas.
MAGNETIC	Instrument <u>Geometrics G-816 Proton Precession Magnetometer and G-826A recording Base</u> Accuracy - Scale constant <u>I gamma</u> G-826A recording Base Diurnal correction method <u>Recording Base STATION</u> Base Station check-in interval (hours) <u>Continuous Monitor During Survey</u> Base Station location and value <u>Lot 11, Con 2. Mountjoy Twp.</u> 59,000 gammas.
ELECTROMAGNETIC	Instrument Apex larametrica Man Man Man II. Coil configuration Horizant al Coil separation 50M Accuracy
	Instrument
	Scale constant
ΙΧ	Corrections made
VI	
GRAVI	Base station value and location
	Elevation accuracy
	Instrument
	Method
	Parameters – On time Frequency
IX	- Off time Range
RESISTIVITY	- Delay time
ISI	— Integration time
KES	Power
""	Electrode array
	Electrode spacing
	Type of electrode

INDUCED POLARIZATION



Instrument	
•	
•	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Overburden	
	(type, depth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOG	GING ETC.)
Type of survey	
Instrument	
Accuracy	
Parameters measured	·
Additional information (for understanding	ng 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	
	od
Aircraft altitude	Line Spacing
Miles flown over total area	Over claims only

GEOCHEMICAL SURVEY - PROCEDURE RECORD



	1
•	
	•
Total Number of Samples	
Type of Sample(Nature of Material)	Values expressed in: per cent
Average Sample Weight	p. p. m. 🗀
Method of Collection	
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled	Others
Horizon Development	
Sample Depth	Extraction Method
Terrain	
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	
	Extraction Method
	Analytical Method
	Reagents Used
CAMBLE BREDAD ATION	
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests
Mesh size of fraction used for analysis	Name of Laboratory
	Extraction Method
	Analytical Method
	Reagents Used
General	General —
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1983 09 06

2.4628

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

Dear Sir:

RE: Geophysical (Magnetometer and Electromagnetic) Survey on Mining Claims P 609767 et al in Lucas Township

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

Enclosed is a copy of report for your information.

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:mc

cc: Mining Recorder Timmins, Ontario

1983 09 06

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

Dear Sir:

Home 011 Company Limited recorded 20 days Electromagnetic and 40 days Magnetometer assessment work credits on each of Mining Claims P 611251 to 258 inclusive; P 609767 to 771 inclusive; P 609774 to 776 inclusive on March 17, 1982.

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 17, 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

S. Hurst:mc

cc: Home Oil Company Limited 2300 Home Oil Tower 324-8th Avenue South West Calgary, Alberta T2P 2Z5 MNR CC TOR

HOMEOIL CGY

NR 00003 830721 1426 C6174 NV6164

RECEIVED

JUL 2 3 1983

MINING LANDS SECTION

RECEIVE Land Management Bra CIRCULATE COMMENTS PLEASE BY	D inch				
JUL 22 1983					
E. E. ANDERSON					
E R. MORTON					
U. C. SMITH					
G. SHERMAN					
7					
D. M. SMALL	1				
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RETURN TO R. 64					

TO: ARTHUR BAR

ONTARIO MINISTRY OF NATURAL RESOURCES
WHITNEY BLOCK, ROOM 6450
QUEEN'S PARK
TORONTO, ONTARIO
M78-1W3

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, 2.4665

S.J. STEFANOWSKI

MHR CC TOR

HOMFOIL CGY

REGISTERED July 11, 1983 2.4628 Home 011 Company Limited 2300 Home 011 Tower 324-8th Avenue South West Calgary, Alberta T2P 2Z5 Dear Sir: RE: Geophysical (Electromagnetic and Magnetometer) Survey submitted on Mining Claims 2609767 et al in the Township of Lucas Enclosed is a copy of our letter dated January 11, 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 17, 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:mc Encl. Mining Recorder cc: Timmins, Ontario John Grant cc: Timmins, Ontario

Home 011 Company Limited 2300 Home 011 Tower 324 - 8th Avenue S.W. Calgary, Alberta T2P 1C8

Dear Sirs:

RE:

Geophysical (Electromagnetic & Magnetometer) Survey submitted on Mining Claims P 609767 et al in the Township of Lucas.

Enclosed are the plans, in duplicate, for the above mentioned survey. Please show all claim lines and numbers on these 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



Geotechnical Report Approval

File	110	5	a
d.	46	2	<u>D</u>

Mining Lands Cor	nmen ts			•	S. N. G.	<u> </u>			
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To: Mining Lands	Section, Room	6462, Whitney B	lock.	(Tel: 5-13	(80)				

1982 03 19 2.4628

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 287

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.609767 et al in the Township of Lucas.

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

cc: Mr. John Grant Timmins, Ontario

Beck Twp. 609767 609770 609771 609774 609768 609769 609775 609778 P P P P **P** P P P) S. R.O. Buskedan **P P** P P **P** P P P P **(P) P P** P P P P **P** P West 568761 568762 568757,568758 **P P P P** P P **P** 5 R | 0 5 6 8 7 6 0 | 5 6 8 7 6 3 5671221568759 Rive 568742 568745 5687461567FF 567121 567120 P P **P** P P **(P)** 568743|568744|568747|568748 567118 (567119 A P Twp. 595014 595013 595012 595011 583052 583055 583056 583059 O P P P **(P) P P** P 5 95 015 | 5 95 016 | 5 95 017 | 5 95 018 583053|583054**|**583057|583058 597027 597026 597025 597024 595020 595019 567114 567115 P P Buskegou P P 597028 | 697029 | 597030 | 597031 | 597032 | 597033 567117 | 567116 597067 597066 597065 597064 P P P P ~ **P** P ® P P 697068 597069 597070 597071 536506[536605 Ø P P **P** P P P P **P** 536507 536508 567:11 |567112 **(P)** P P P P P P **(P)** 567110 567113 River 569696 569693 P P P P P **(9**) **P P** P 569695 569694 . P P P P **P** P **(P)** 69698 56969 2 3 4 7 6 8 10 9 12 11 Twp. Prosser

THE TOWNSHIP OF

LUCAS

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: I-INCH=40 CHAINS

LEGEND

PATENTED LAND
CROWN LAND SALE
LEASES
LOCATED LAND
LICENSE OF OCCUPATION
ROADS
IMPROVED ROADS
RAILWAYS
POWER LINES
MARSH OR MUSKEG



NOTES

400' Surface Rights Reservation around all Lakes and Rivers.

reas withdrawn from staking under Section
of the Mining Act
File Date Disposition

DEC 1 0 1982.

Ministry of Natural Resources
TORONTO

PLAN NO. - M-537

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH



Twp.

Crawford