



42A10NW0554 2.13541 DUNDONALD

010

**2.13541**

REPORT ON  
GEOPHYSICAL WORK  
ON  
DUNDONALD PROPERTY  
DUNDONALD TOWNSHIP  
FOR  
FALCONBRIDGE LIMITED

NTS: 42-A/10    PROJ #: 8186

**RECEIVED**

SEP 20 1990

**MINING LANDS SECTION**

SEPTEMBER 1990

S. TAYLOR  
TIMMINS GEOPHYSICS LTD.

## SUMMARY AND RECOMMENDATIONS

HLEM and magnetic surveys were carried out in July 1990 over two small grids in Dundonald Township.

The HLEM results on Grid # 1 show variation over the entire property. This area is hilly, and the anomalous readings are probably changes in background caused by surface and bedrock topography.

Two HLEM anomalies are outlined on Grid #2. The northern anomaly, 'Y', indicates a very good conductor. The southern anomaly is located at the edge of an outcrop and does not warrant further work.

The magnetic results map ultramafic and intermediate acidic volcanic units. Two interesting U-shaped magnetic highs on Grid #2 indicate tight folding. Anomaly Y' is located near the nose of one of these features.

It is recommended that Anomaly 'Y' be tested by diamond drilling.



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GRID #1

1. HLEM RESULTS, 444 Hz (BACK POCKET)
2. HLEM RESULTS, 1777 Hz (BACK POCKET)
3. MAGNETIC RESULTS (BACK POCKET)

GRID #2

4. HLEM RESULTS, 444 Hz (BACK POCKET)
5. HLEM RESULTS, 1777 Hz (BACK POCKET)
6. MAGNETIC RESULTS (BACK POCKET)

## INTRODUCTION

During July 1990, magnetic and horizontal loop electromagnetic (HLEM) surveys were carried out for Falconbridge Limited over two small grids in Dundonald Township.

The survey areas are located approximately 55 kilometres northeast of the city of Timmins in the Porcupine Mining Division. Grid #1 covers two unpatented claims in the S1/2 Concession II, NE and SE1/4 Lot 5. Grid #2 covers four unpatented claims in the N1/2 Concession I, Lot 1 (Figure 1). The six claims are numbered as follow:

P 1127895 - P 1127896 inclusive

P 1128060 - P 1128061 inclusive

P 1128064 - P 1128065 inclusive

The property was accessed via gravel roads which branch eastward from Highway 67, approximately 15 kilometres past its junction with Highway 101.

The field data were collected by J. DerWeduwen and L. Varin.

## GENERAL GEOLOGY

The geology of the area is shown on Preliminary Geological Map No. P 307, Ontario Department of Mines.

The property is underlain by steeply dipping Archaean intermediate volcanics

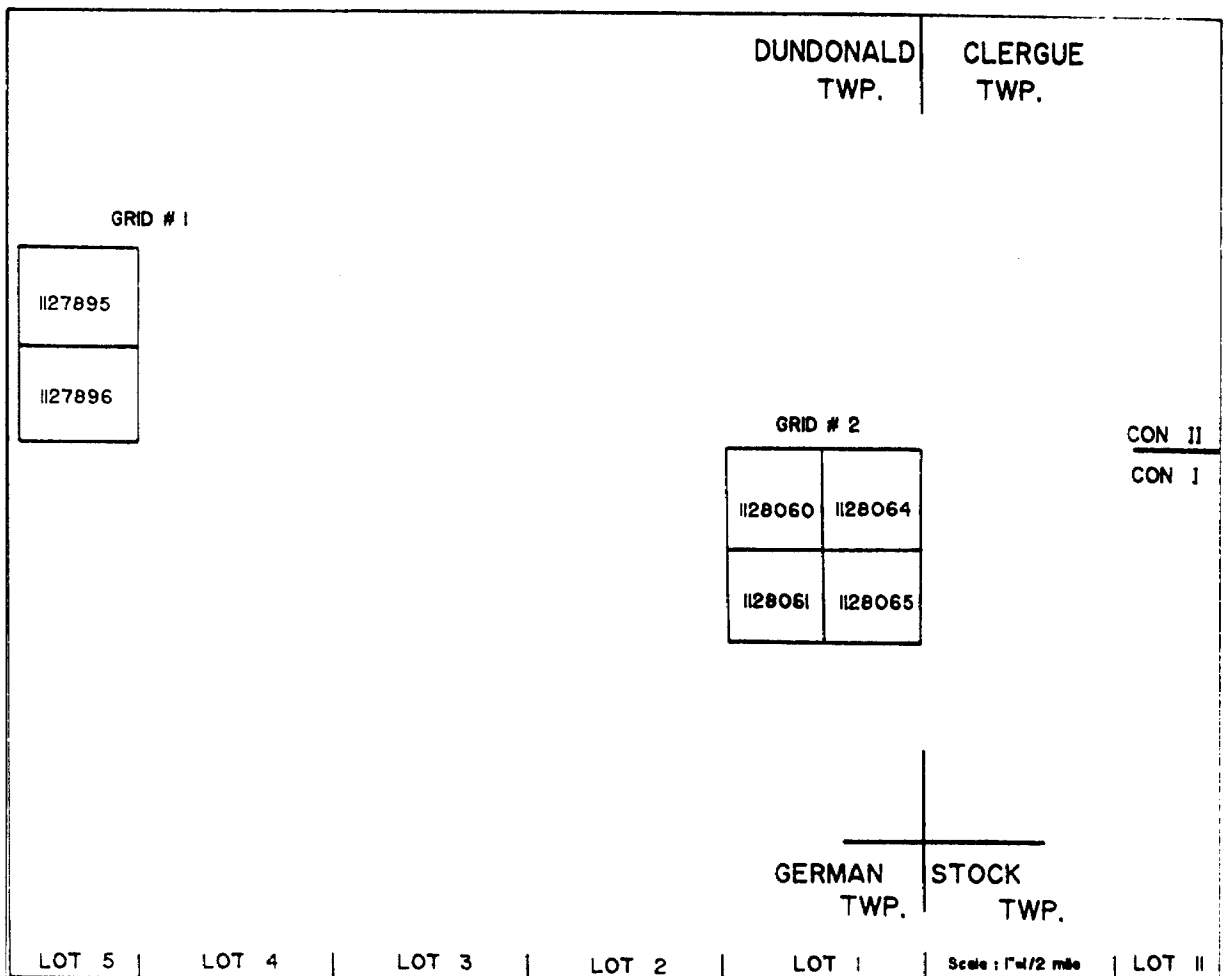
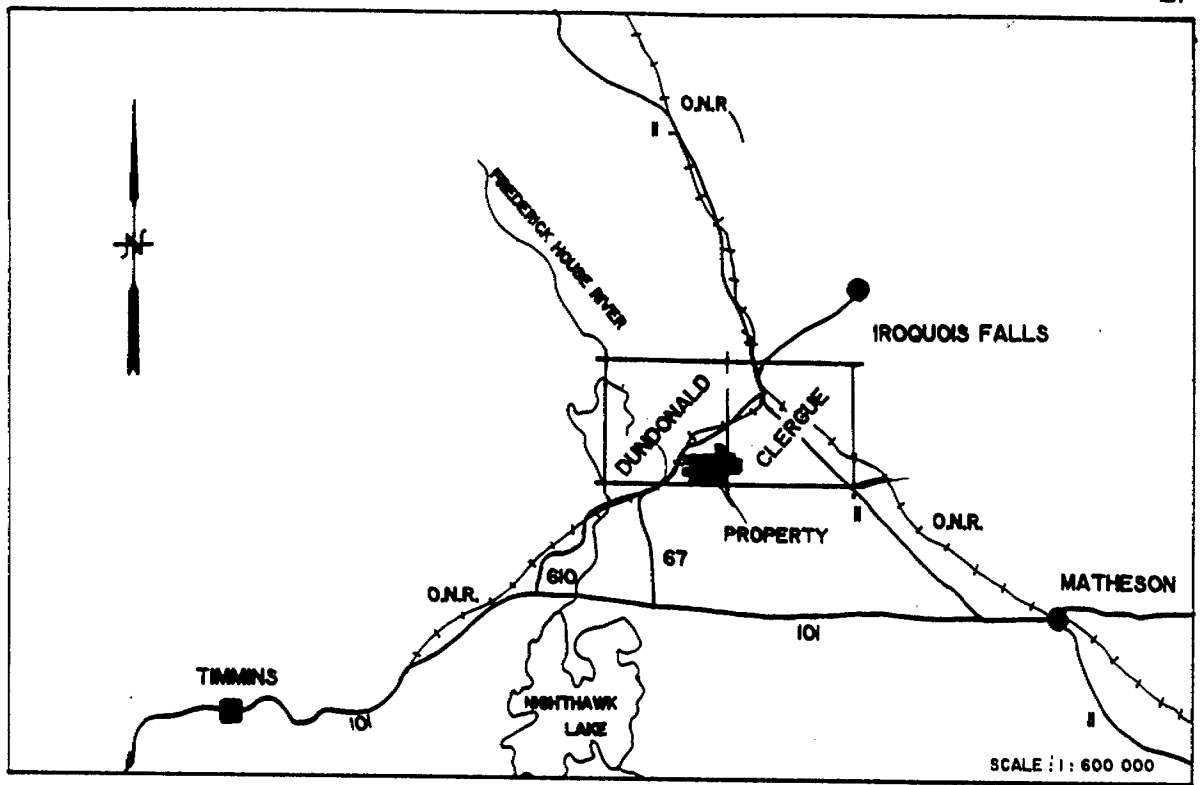


Figure 1. Location Map

which have been intruded by sill-like mafic and ultramafic bodies. All of the units are tightly folded in a northeast strike direction.

#### PREVIOUS WORK

Table 1 is a summary of the previous work carried out over the six unpatented claims.

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	ASSESSMENT FILE
1985	ANGEL DEVELOPMENTS	AIRMAG, AIRVLF		T-2744
1969 1973	AMAX POTASH LTD.	MAG, VLF HLEM, MAG		T-1282
1956-57	HOLLINGER MINES LTD.	HLEM	#1, #2	T-644
1950	DOMINION GULF COMPANY	MAG		T-337

Table 1. Summary of Previous Work

The only previous work recorded over the two claims on Grid #1 is an airborne magnetic and VLF-EM survey carried out by Angela Developments in 1985.

The following companies have filed work on the claims covered by Grid #2.

In 1950, Dominion Gulf Company carried out a magnetic survey over a property which includes all of Grid #2. A geology survey was later carried out in 1951.

In 1956, Hollinger Mines Ltd. carried out a HLEM survey. Two anomalies were located: one of these anomalies was tested by two diamond drill holes, #1 and #2 in 1957. The holes intersected gabbro in contact with rhyolite and andesite. Both holes are on the present Grid #2.

In 1967, Amax Potash Ltd. held the four Grid #2 claims. They carried out geology, magnetic, and VLF-EM surveys in 1969 and HLEM and magnetic surveys in 1973.

#### **SURVEY DESCRIPTIONS**

The grids on the two properties consist of lines spaced every 100 metres and picketed every 20 metres.

The horizontal loop EM survey was carried out with the Apex Parametrics MaxMin I. This instrument measures the in-phase and quadrature components of the secondary field as a percentage of the primary field. Readings were taken every 20 metres using a coil separation of 120 metres and frequencies of 444 and 1777 Hertz.

The magnetic readings were taken with a Scintrex IGS-2/MP-4. This instrument is a proton precession magnetometer which measures the earth's total magnetic field to an accuracy of 0.1 gammas. Diurnal variations were monitored every 12 seconds with a Scintrex MP-3 base station magnetometer.



## HLEM RESULTS

The results of the HLEM survey on Grid #1 are given in Maps 1 and 2 at a scale of 1:5000. Grid #2 results are given in Maps 4 and 5 at the same scale.

Grid #1 shows a large variation in response over the entire property. This area is hilly, and the anomalous readings which would ordinarily indicate conductors are probably changes in background, due to surface and bedrock topography.

Two HLEM anomalies were outlined on Grid #2. The northern anomaly, 'Y' represents a poor to very good conductor at a depth which varies from 24 to greater than 70 metres (Table 2). Both depth and conductivity are greatest at the western edge. The anomalous response is very weak on the 444 Hz results. The low amplitude on the shoulders of the anomaly makes a dip determination difficult.

The southern anomaly is a quadrature anomaly on both the 444 Hz and 1777 Hz results. The low in-phase to quadrature ratio indicates a very poorly conductive source. It coincides with the edge of an outcrop, and warrants no further work.

This anomaly is the probable target of holes #1 and #2 drilled by Hollinger Mines Ltd.; no conductor was intersected.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
200 W	1340 N	NARROW	-4	-1	>70	31	ASSUME DIP=90
100 W	1310 N	NARROW	-4	-2	48	9	
0	1340 N	NARROW	-3	-5	24	2	

Table 2: Anomaly 'Y', 1777 Hz, 120 metre coil separation.

**MAGNETIC RESULTS**

The magnetic results are plotted on Maps 3 and 6 at a scale of 1:5000.

The Grid #1 results show low relief typical of acidic and intermediate volcanics or sediments.

The magnetic relief on Grid #2 maps ultramafics and intermediate volcanics. A U-shaped magnetic high between Lines 200 and 500 West maps a fold whose axis strikes east-west at 900 North. East of Line 200 West the strike direction of the fold axis changes to northeast. Another U-shaped feature at 1400 North maps a second fold whose axis also strikes northeast.

HLEM Anomaly 'Y' is located on the south limb at the nose of this second feature. It coincides with a change in magnetic relief interpreted to be a stratigraphic contact.

Sept 6/90

DATE

Sharon Taylor

SHARON TAYLOR  
TIMMINS GEOPHYSICS LTD.

**APPENDIX A**



Ontario

Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File \_\_\_\_\_

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) GEOPHYSICAL
Township or Area DUNDONALD
Claim Holder(s) Falconbridge limited
P.O.Box 1140, Timmins, Ont. P4N 7H9
Survey Company Timmins Geophysics Ltd.
Author of Report Sharon Taylor
Address of Author P.O.Box 1783, South Porcupine, Ont. P0N 1H0
Covering Dates of Survey 24-05-90 - 07-06-90
(linecutting to office)
Total Miles of Line Cut \_\_\_\_\_

MINING CLAIMS TRAVERSED
List numerically

P 1127895
(prefix) (number)
1127896
1128060
1128061
1128064
1128065

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

Table with 2 columns: Method (Geophysical, Geological, Geochemical) and DAYS per claim. Values: Electromagnetic (20), Magnetometer (40), Radiometric, Other, Geological, Geochemical.

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

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

DATE: Sept 12/90 SIGNATURE: Sharon Taylor
Author of Report or Agent

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

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder. Multiple rows for listing previous surveys.

TOTAL CLAIMS 6

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 509 Number of Readings HLEM 359 mag 509
Station interval 20 metres Line spacing 100 metres
Profile scale 444 Hz 1 cm=20% 1777Hz 1 cm=40%
Contour interval Grid #1 50 gammas Grid #2 500 gammas

MAGNETIC

Instrument Scintrex IGS-2/MP-4
Accuracy - Scale constant = + .1 gamma
Diurnal correction method Scintrex MP-3 Base Station magnetometer
Base Station check-in interval (hours) 12
Base Station location and value 1600 North - 3400 West 58434

GEOMAGNETIC

Instrument Apex parametrics MaxMin I
Coil configuration Horizontal Loop
Coil separation 120 metres
Accuracy 1%
Method: [ ] Fixed transmitter [ ] Shoot back [x] In line [ ] Parallel line
Frequency 444 Hz - 1777 Hz (specify V.L.F. station)
Parameters measured In-phase and quadrature components of secondary field measured as percent of primary 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



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Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

MINING LANDS SECTION  
159 Cedar Street, 4th Floor  
SUDBURY, Ontario  
P3E 6A5

Telephone: (705) 670-7264  
Fax: (705) 670-7262

Your File: W9006.60445  
Our File : 2.13541

November 15, 1990

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
TIMMINS, Ontario  
P4N 2S7

Dear Madam/Sir:

RE: Notice of Intent dated October 9, 1990 for Geophysical  
(Electromagnetic and Magnetometer) Survey submitted on  
Mining Claims P 1127895 et al in Dundonald Twp.

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

R. C. Gashinski  
A/Provincial Manager, Mining Lands  
Mines and Minerals Division

LJ/dvl  
Enclosure

cc: Mr. W. D. Tieman  
Mining and Lands Commissioner  
Toronto, Ontario

Resident Geologist  
Timmins, Ontario

Falconbridge Limited  
Timmins, Ontario

S. Taylor  
South Porcupine, Ontario



Recorded Holder  
**Falconbridge Limited**

Township or Area  
**Dundonald Twp.**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic <u>20</u> days Magnetometer <u>40</u> days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 1127895 1128061 1128064 - 065 incl.

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

30 days magnetic on P 1127896 & 1128060

15 days electromagnetic on P 1127896 & 1128060

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

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.

DOCUMENT No. **W 9006-60445**

Instructions  
Please type or print.  
Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.  
If number of mining claims traversed exceeds space on this form, attach a list.  
Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch

Sept. 24

**Report of Work**  
(Geophysical, Geological and Geochemical Surveys)

Type of Survey(s) <b>GEOPHYSICAL</b>	Mining Division <b>PORCUPINE</b>	Township or Area <b>DUNDONALD TWP.</b>
Recorded Holder(s) <b>FALCONBRIDGE LIMITED</b>	<b>2.13541</b>	Prospector's Licence No. <b>A 21647</b>
Address <b>P.O. Box 1140, 571 Moneta Ave., Timmins, Ontario P4N 7H9</b>		Telephone No. <b>705-267-1188</b>
Survey Company <b>TIMMINS GEOPHYSICS LTD.</b>		
Name and Address of Author (of Geo-Technical Report) <b>S. Taylor, P.O. Box 1783, S. Porcupine, Ontario PON 1H0</b>		Date of Survey (from & to) <b>24, 05, 90 07, 06, 90</b>

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1127895				
	1127896				
	1128060				
	1128061				
	1128064				
	1128065				

**RECORDED**  
**JUL 26 1990**

**RECEIVED**  
**JUL 30 1990**

**MINING LANDS SECTION**

Total miles flown over claim(s):

Date: **7-24-90** Recorded Holder or Agent (Signature): *[Signature]*

Total number of mining claims covered by this report of work: **6**

Certification Verifying Report of Work

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

Name and Address of Person Certifying  
**S. Taylor, P.O. Box 1783, S. Porcupine, Ontario PON 1H0**

Telephone No. **705-235-4592** Date **July 19, 1990** Certified By (Signature) *Shawn Taylor*

For Office Use Only

Total Days Cr. Recorded <b>360</b>	Date Recorded <b>July 26/90</b>	Mining Recorder <i>[Signature]</i> Mining Recorder
	Date Approved as Recorded <i>see revised work statement</i>	Provincial Manager, Mining Lands

**RECEIVED**  
**JUL 26 1990**





TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
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TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOPHYSICAL  
Township or Area DUNDONALD  
Claim Holder(s) Falconbridge limited  
P.O. Box 1140, Timmins, Ont. P4N 7H9  
Survey Company Timmins Geophysics Ltd.  
Author of Report Sharon Taylor  
Address of Author P.O. Box 1783, South Porcupine, Ont. P0N 1H0  
Covering Dates of Survey 24-05-90 - 07-06-90  
(linecutting to office)  
Total Miles of Line Cut \_\_\_\_\_

**MINING CLAIMS TRAVERSED**  
List numerically

P 1127895  
(prefix) (number)  
1127896  
1128060  
1128061  
1128064  
1128065

**SPECIAL PROVISIONS  
CREDITS REQUESTED**

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

ENTER 20 days for each  
additional survey using  
same grid.

	DAYS per claim
Geophysical	
-Electromagnetic	<u>20</u>
-Magnetometer	<u>40</u>
-Radiometric	_____
-Other	_____
Geological	_____
Geochemical	_____

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

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

DATE: Sept 12/90 SIGNATURE: Sharon Taylor  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.8510

**Previous Surveys**

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 6

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 509 Number of Readings HLEM 359 mag 509
Station interval 20 metres Line spacing 100 metres
Profile scale 444 Hz 1 cm=20% 1777Hz 1 cm=40%
Contour interval Grid #1 50 gammas Grid #2 500 gammas

MAGNETIC

Instrument Scintrex IGS-2/MP-4
Accuracy - Scale constant = + .1 gamma
Diurnal correction method Scintrex MP-3 Base Station magnetometer
Base Station check-in interval (hours) 12
Base Station location and value 1600 North - 3400 West 58434

ELECTROMAGNETIC

Instrument Apex parametrics MaxMin I
Coil configuration Horizontal Loop
Coil separation 120 metres
Accuracy 1%
Method: [ ] Fixed transmitter [ ] Shoot back [x] In line [ ] Parallel line
Frequency 444 Hz - 1777 Hz (specify V.L.F. station)
Parameters measured In-phase and quadrature components of secondary field measured as percent of primary 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

**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 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

REFERENCES

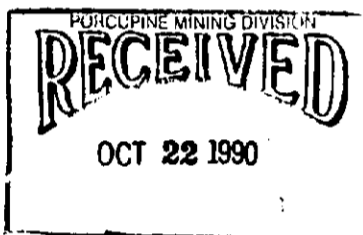
AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC. 42/80			S.R.O.	32269
SEC. 43/70	W.66/75	1/12/75	M.+S.	1593
NKO 31/85		22/7/85	M.+S.	

SAND AND GRAVEL

- M.T.C. PIT 1284
- M.T.C. PIT 1274



NOTES

PART OF THIS TOWNSHIP SOUTH AND EAST OF FREDERIC HOUSE LAKE LIES WITHIN THE MUNICIPALITY OF THE CITY OF TIMMINS

WITNESS POSTS FOR CLAIMS STAKED OUT COVERING LAND UNDER THE WATERS OF FREDERICK HOUSE LAKE IN DUNDONALD TWP. SHOULD NOT BE ERRECTED OR PLANTED IN EVELYN TWP.

FLOODING RIGHTS ON FREDERICK HOUSE LAKE RESERVED TO ONTARIO HYDRO TO CONTOUR ELEV. 905', L.O. 7129, FILE 64510, VOL. 2

400' surface rights reservation along the shores of all lakes and rivers.

o L.U.P. (LAND USE PERMIT)

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED.

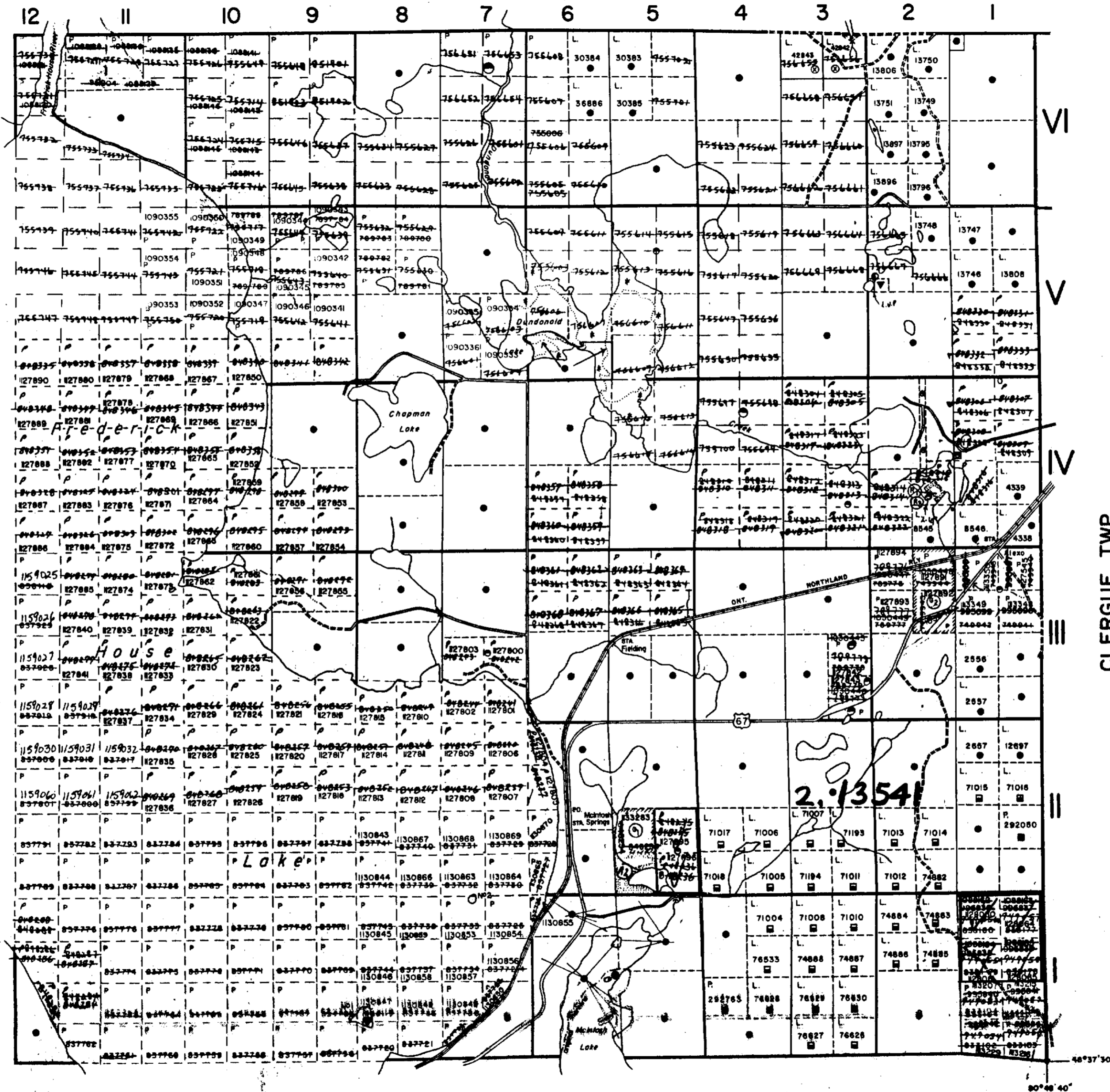


42A10N0654 2.13541 DUNDONALD

200

ON THE STATUS OF THE LANDS SHOWN HEREON

McCART TWP.



LEGEND

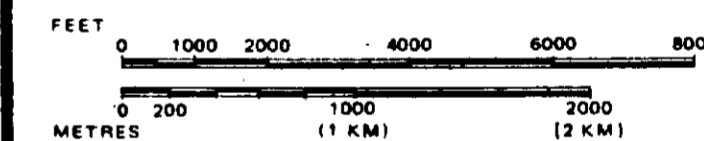
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

DUNDONALD

M.N.R. ADMINISTRATIVE DISTRICT

COCHRANE

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE



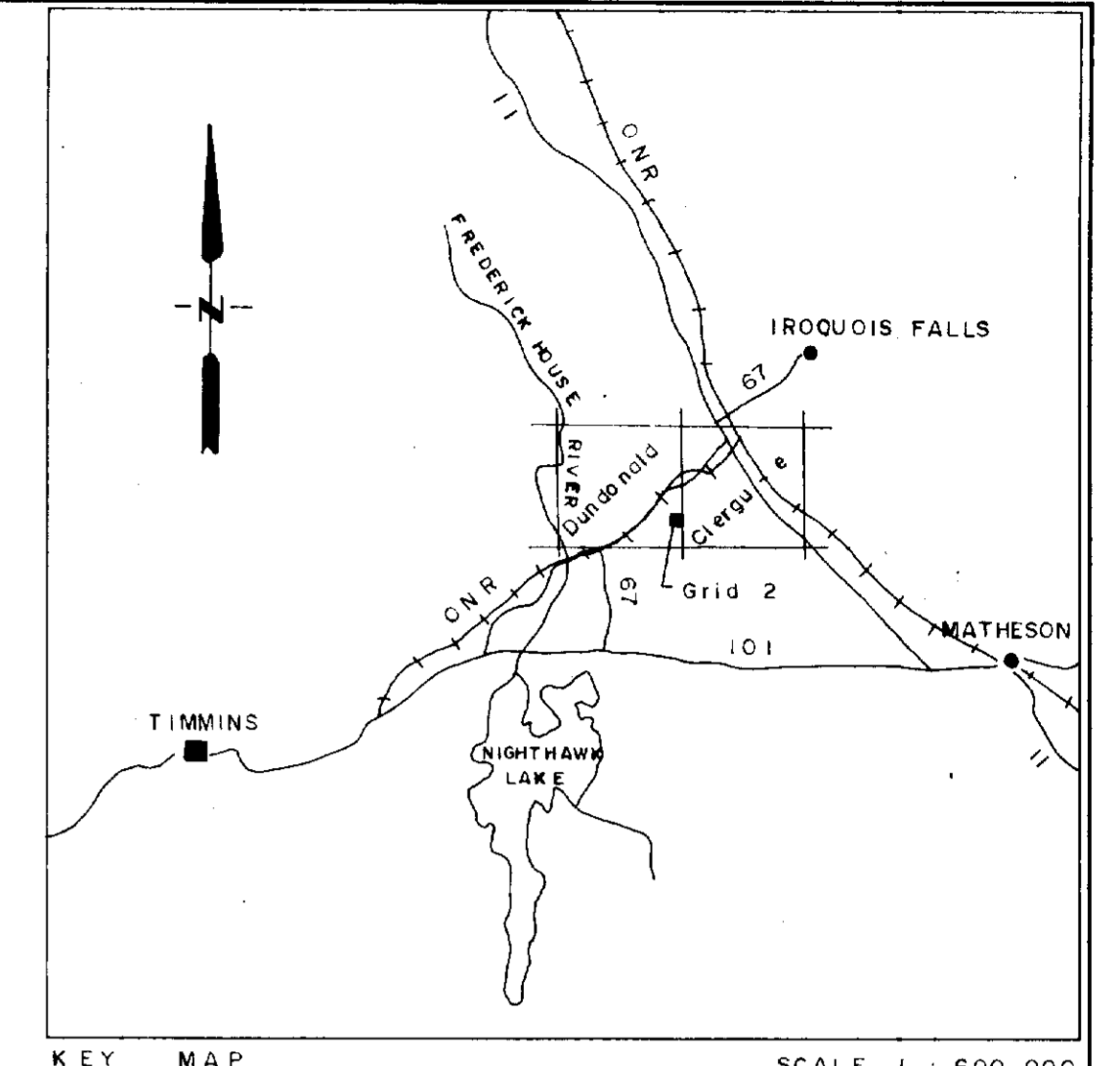
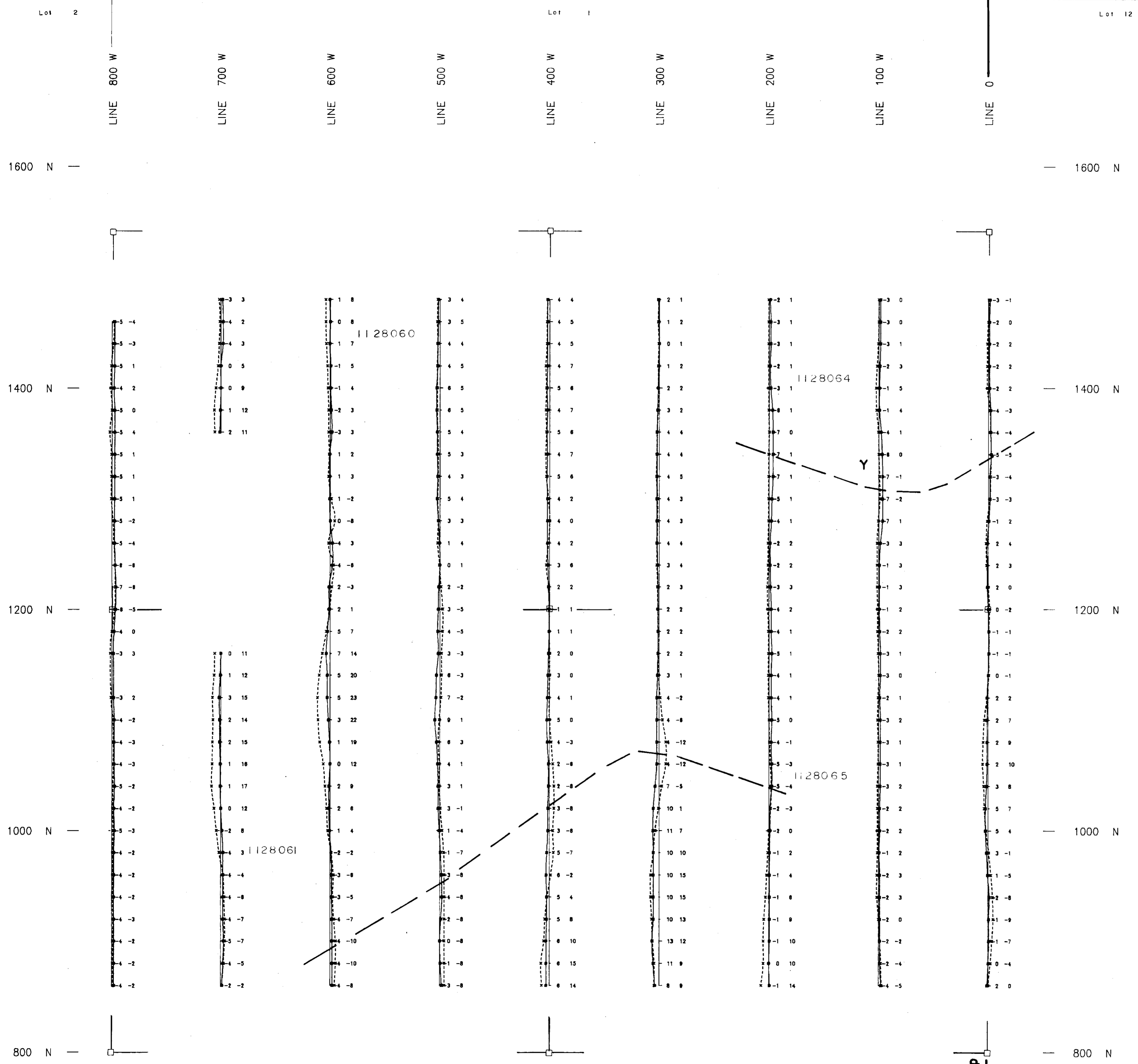
Ministry of Natural Resources Land Management Branch

Date MARCH, 1985

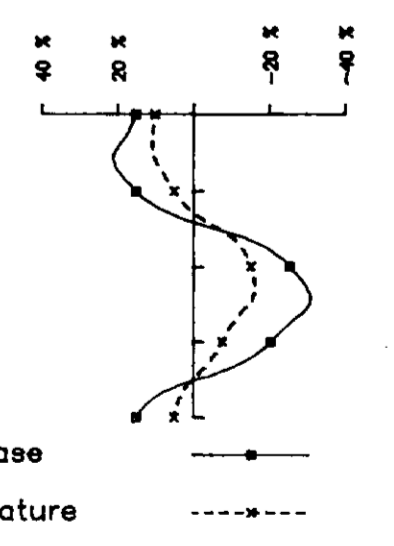
Number

By D. Vallée  
By L.H.

G-3240



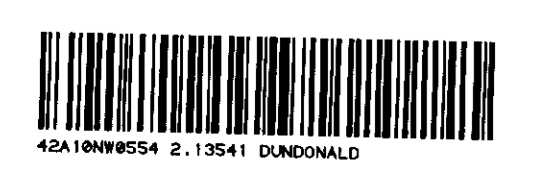
Instrument : Apex Parametrics MaxMin I  
 Frequency : 1777 Hz  
 Coil Separation : 120 metres  
 Profile Scale : 1 cm = 40%  
 Claimposts :  
 □ Unlocated  
 — Anomaly



**2.13541**

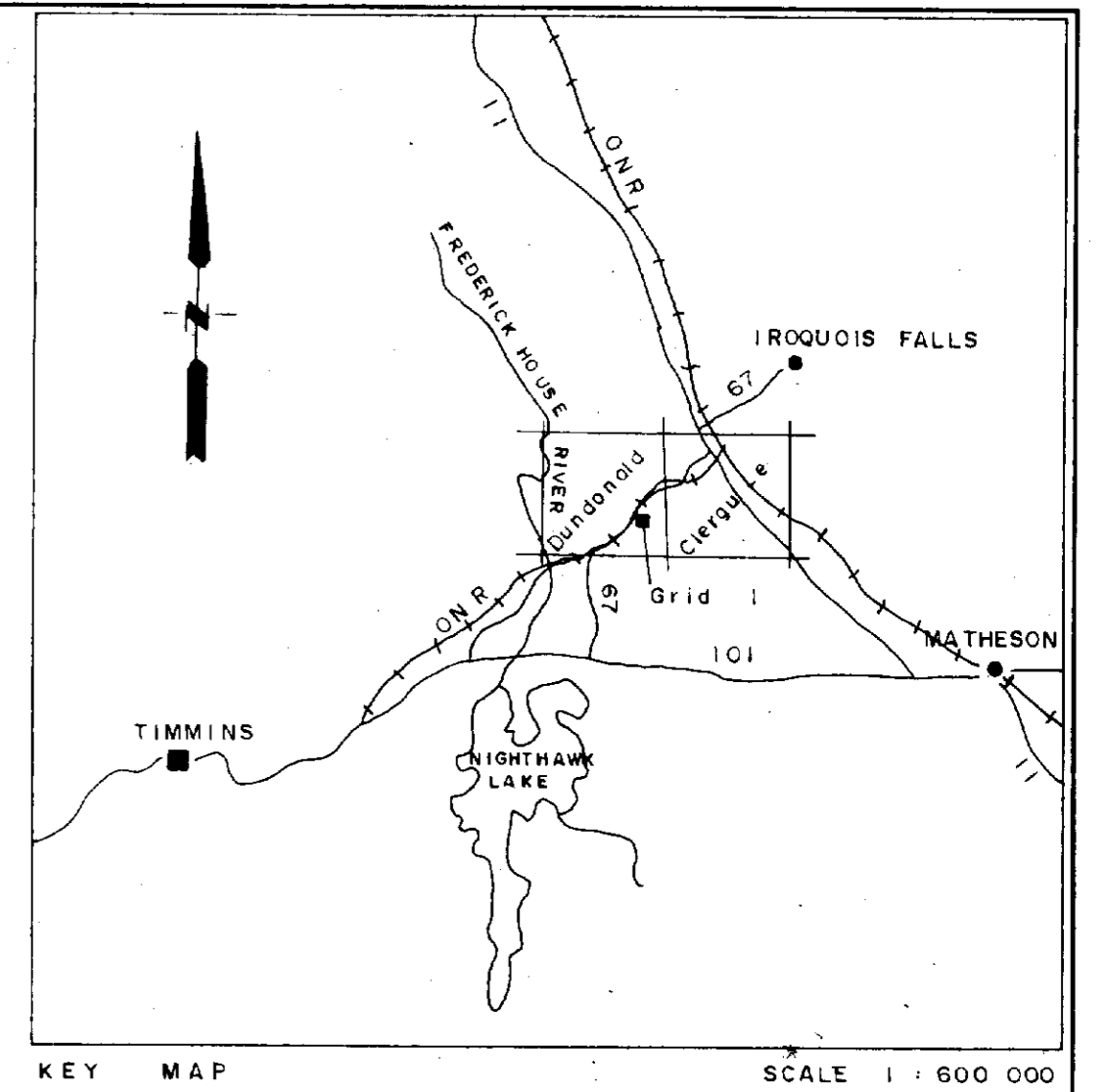
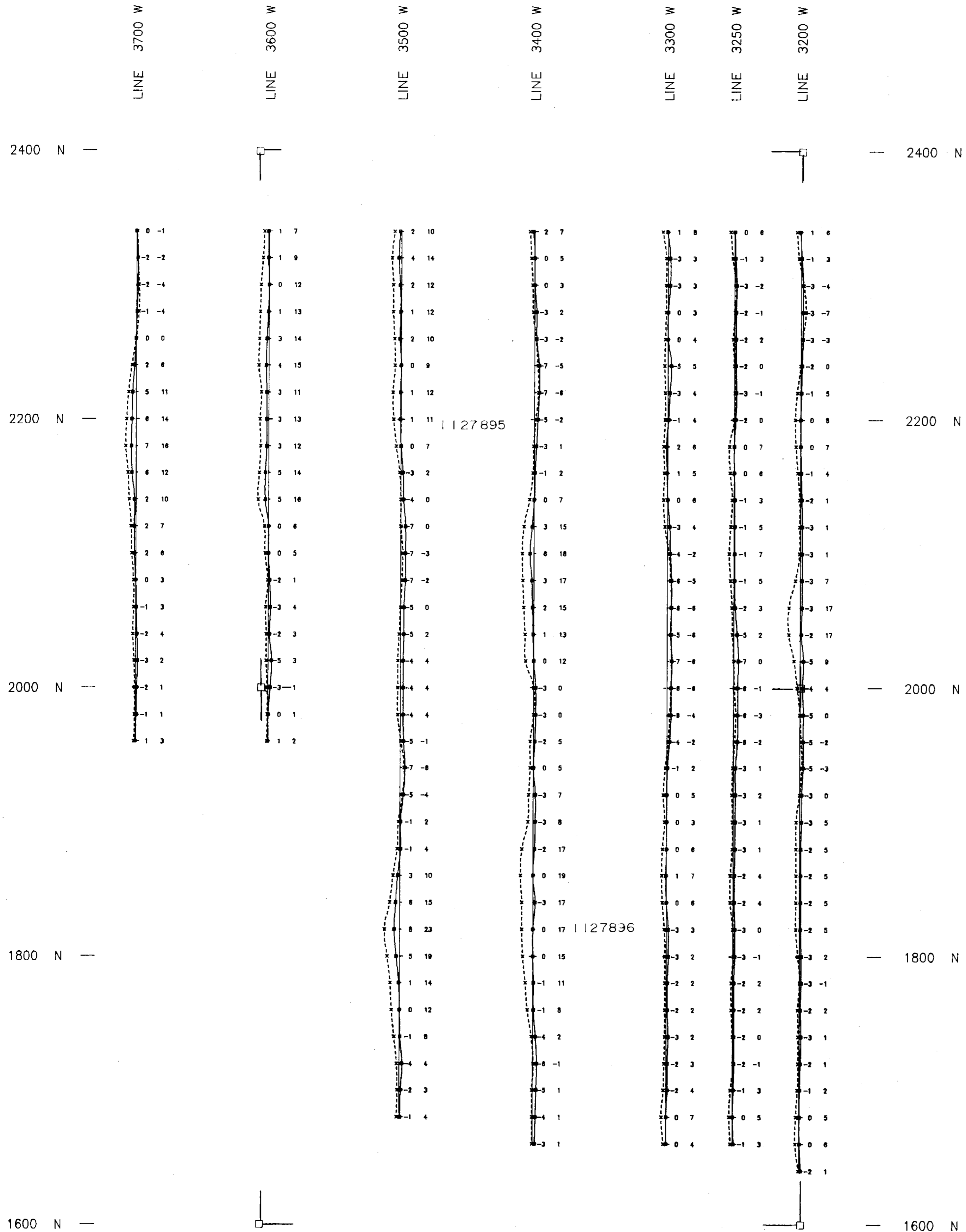
<b>FALCONBRIDGE LIMITED</b>	
HLEM SURVEY	
DUNDONALD PROPERTY GRID 2	
NTS : 42 - A / 10	Project No : 8186
SCALE : 1: 2000	DATE : JUNE 1990
FILE : DUNB.HL	<i>Sharon Taylor</i>
WORK BY :	<b>Timmins Geophysics Ltd.</b>

DUNDONALD TWP  
CLERGUE TWP

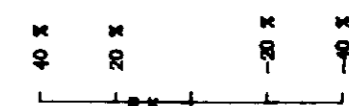


Lot 5

Lot 4



Instrument : Apex Parametrics MaxMin I  
 Frequency : 1777 Hz  
 Coil Separation : 120 metres  
 Profile Scale : 1 cm = 40%  
 Claimposts :  
 Unlocated  
 Anomaly



In-phase  
 Quadrature

**2.13541**

FALCONBRIDGE LIMITED

HLEM SURVEY

DUNDONALD PROPERTY  
 GRID 1

NTS : 42 - A / 10 Project No : 8186

SCALE : 1 : 2000

DATE : JUNE 1990

FILE : DUNA.HL

*Shawn Taylor*

WORK BY :

**Timmins Geophysics Ltd.**



42A10NW654 2.13541 DUNDONALD

Lot 5

Lot 4

LINE 3700 W

LINE 3600 W

LINE 3500 W

LINE 3400 W

LINE 3300 W

LINE 3250 W

LINE 3200 W

2400 N

2400 N

2200 N

2200 N

2000 N

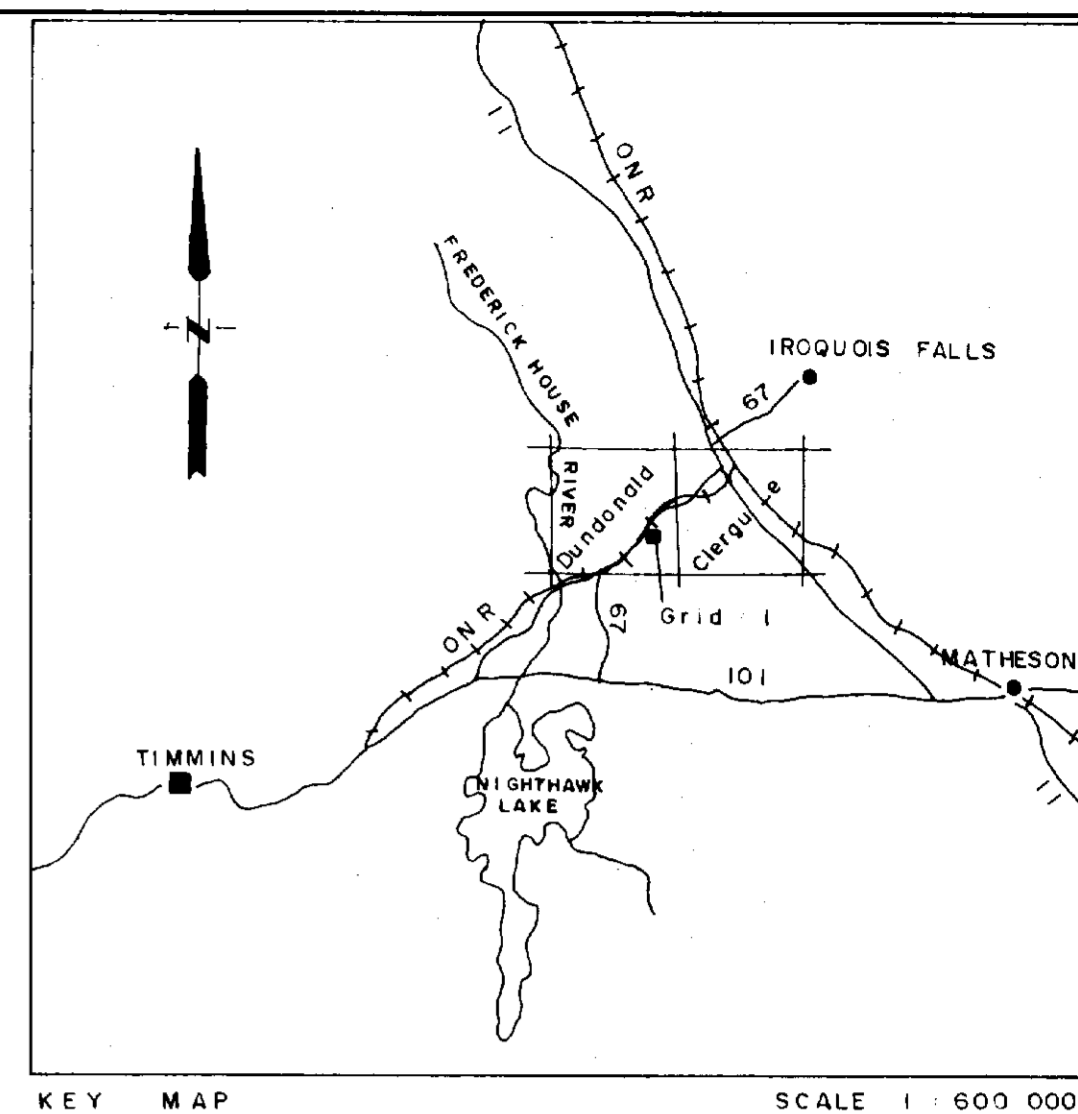
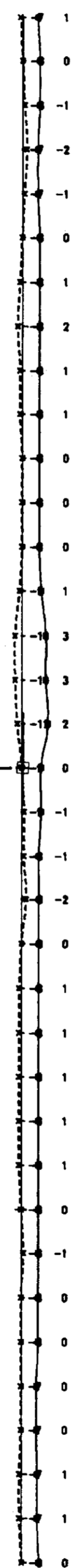
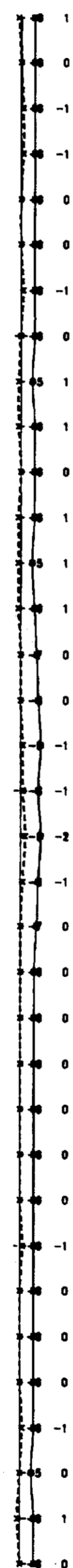
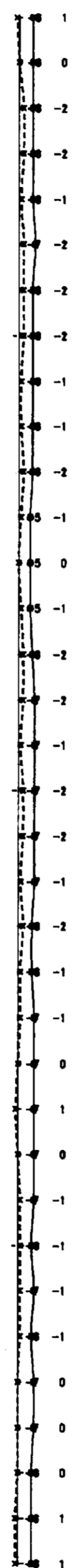
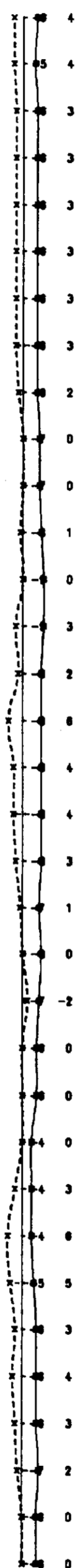
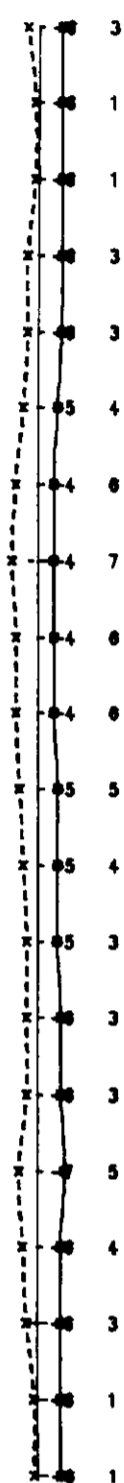
2000 N

1800 N

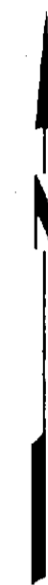
1800 N

1600 N

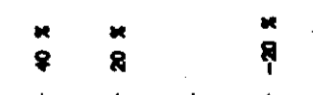
1600 N



KEY MAP SCALE 1:600 000



Instrument : Apex Parametrics MaxMin I  
 Frequency : 444 Hz  
 Coil Separation : 120 metres  
 Profile Scale : 1 cm = 20%  
 Claimposts :  
 Unlocated  
 . Anomaly



In-phase  
Quadrature

**2.13541**

FALCONBRIDGE LIMITED

HLEM SURVEY

DUNDONALD PROPERTY  
GRID 1

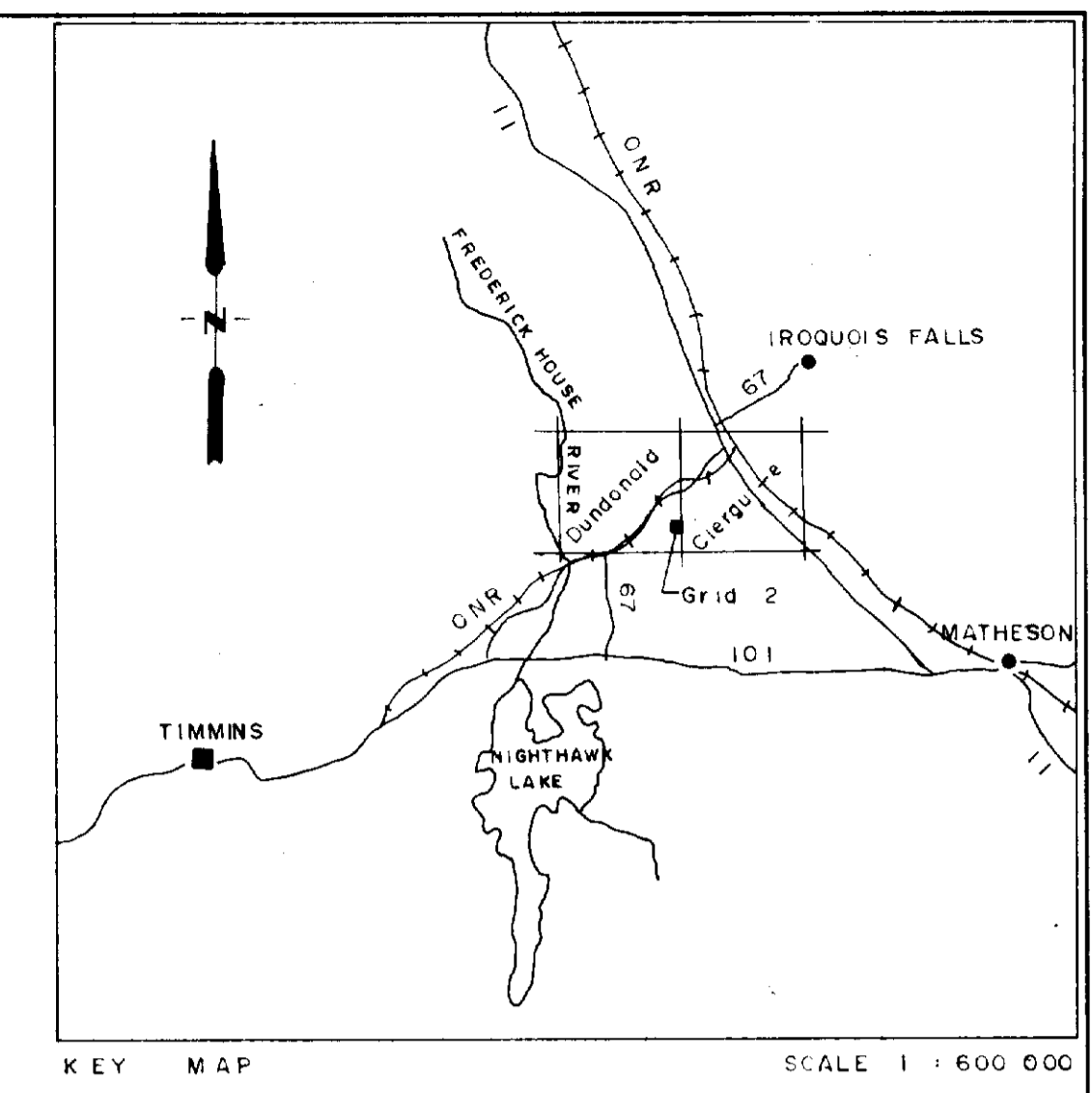
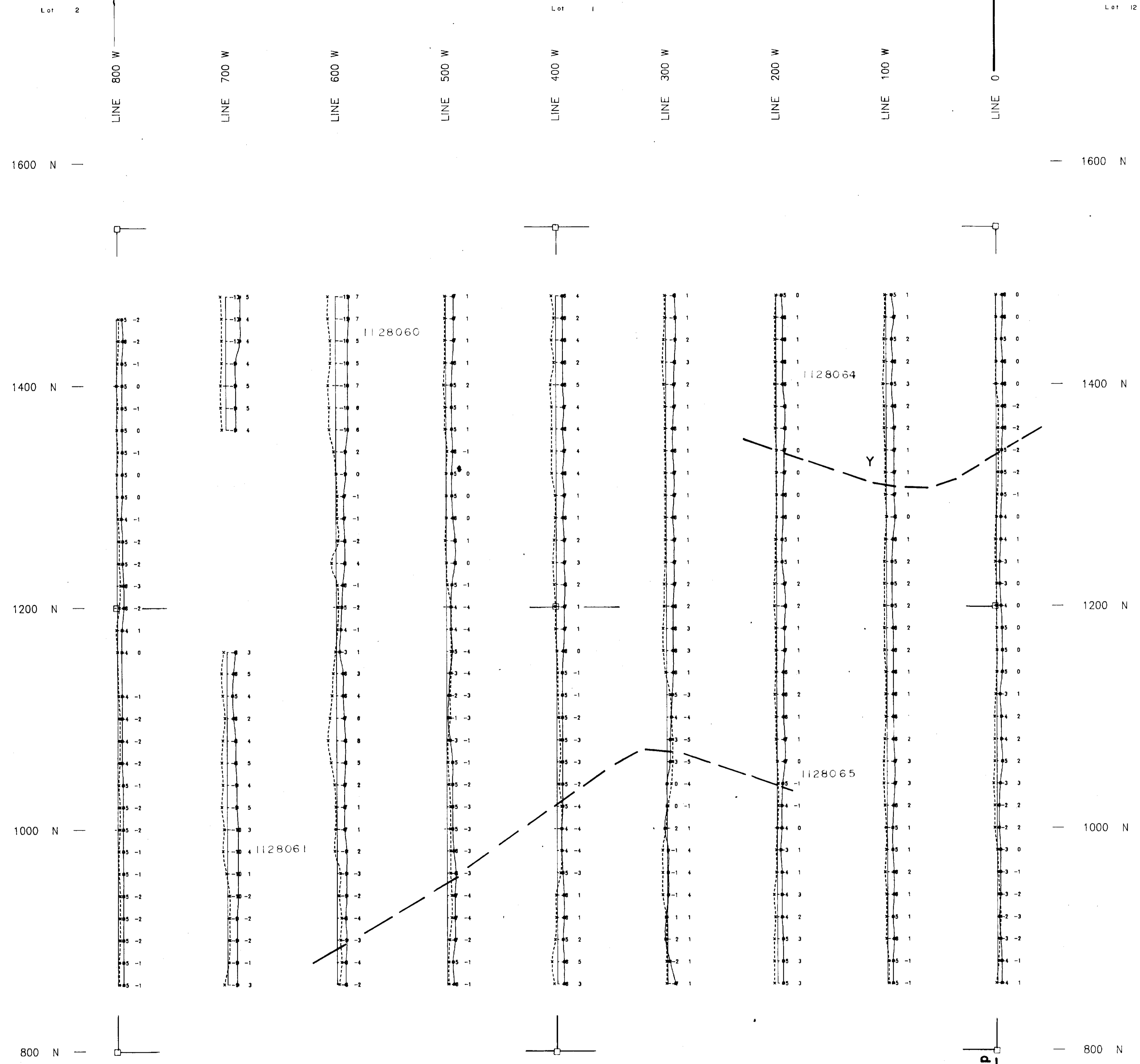
NTS : 42 - A / 10	Project No : 8186
SCALE : 1: 2000	DATE : JUNE 1990
FILE : DUNA.HL	<i>William Taylor</i>
WORK BY :	<b>Timmins Geophysics Ltd.</b>

Con 11

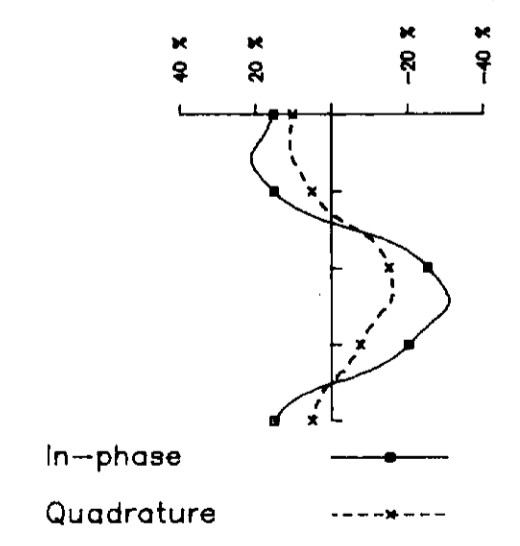
Con 1







Instrument : Apex Parametrics MaxMin I  
 Frequency : 444 Hz  
 Coil Separation : 120 metres  
 Profile Scale : 1 cm = 20%  
 Claimposts :  
 □ Unlocated  
 — Anomaly



**2.18541**

**FALCONBRIDGE LIMITED**

HLEM SURVEY

DUNDONALD PROPERTY

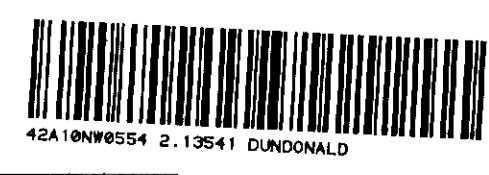
GRID 2

NTS : 42 - A / 10 Project No : 8186

SCALE : 1: 2000 DATE : JUNE 1990

FILE : DUNB.HL

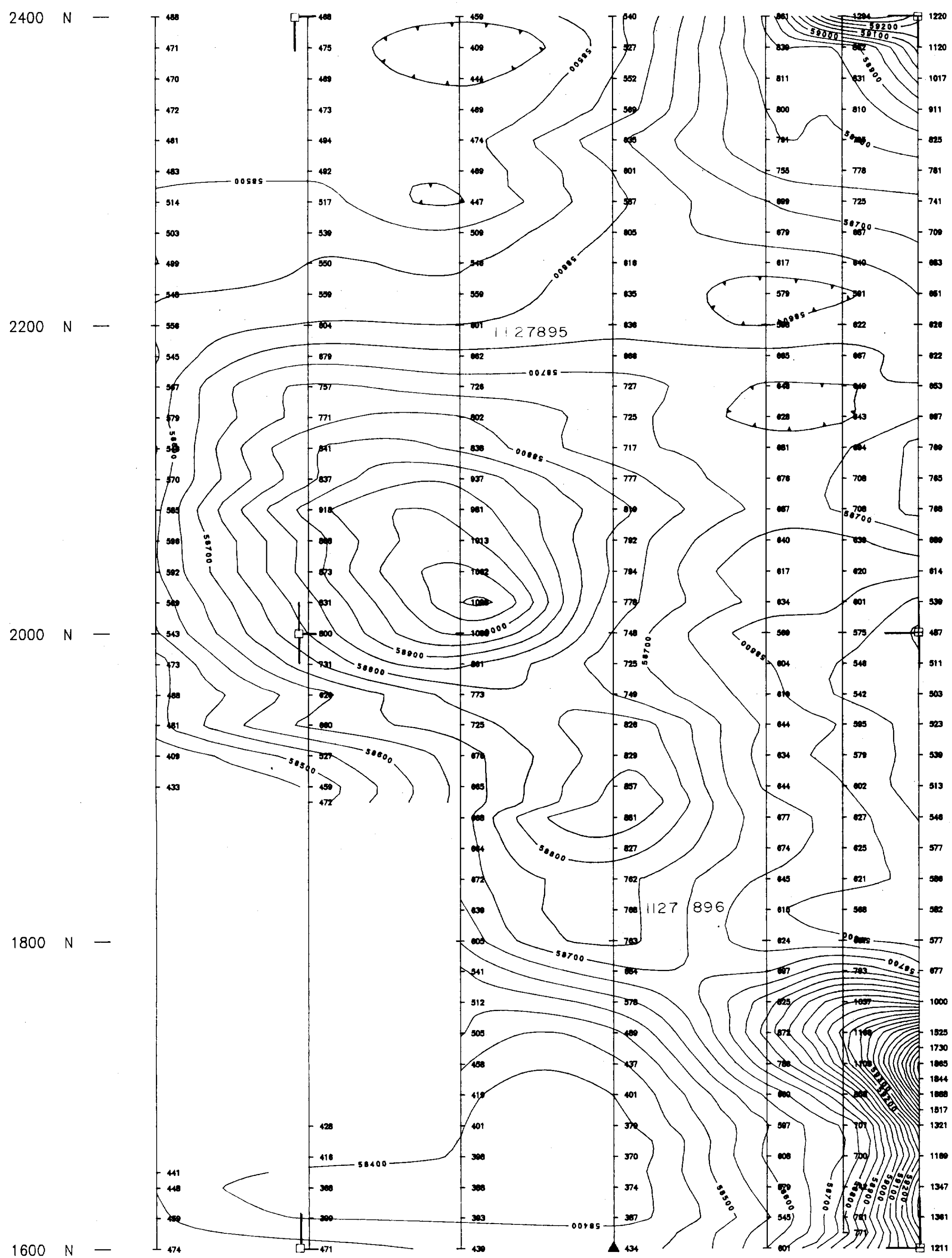
WORK BY : *Shamus Taylor*  
**Timmins Geophysics Ltd.**



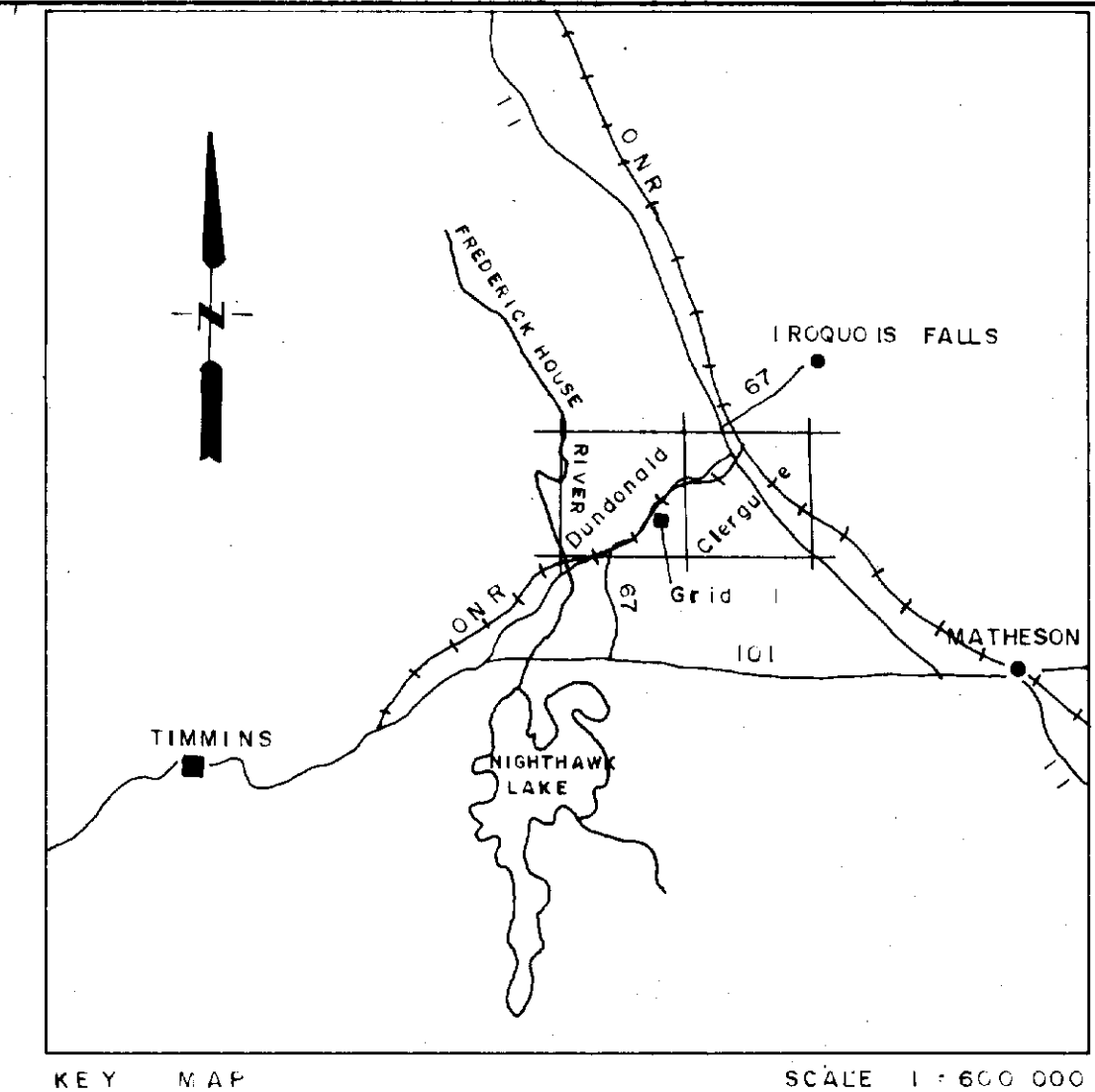
Lot 5

Lot 4

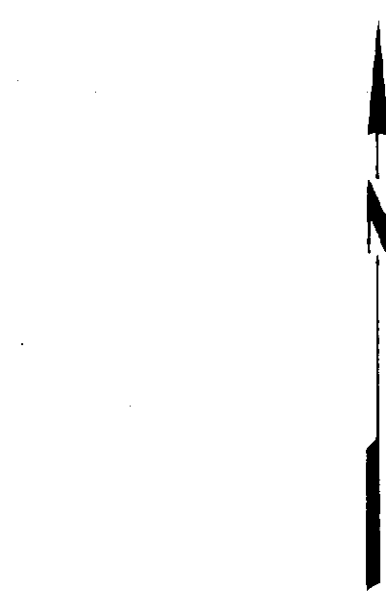
LINE 3700 W      LINE 3600 W      LINE 3500 W      LINE 3400 W      LINE 3300 W      LINE 3250 W      LINE 3200 W



— 2400 N  
— 2200 N  
— 2000 N  
— 1800 N  
— 1600 N



KEY MAP      SCALE 1:600 000



Instrument : Scintrex IGS-2/MP-4  
Type : Total Field Proton Precession  
Contour Interval : 50 gammas  
Datum Level : 58000 gammas  
▲ Magnetic Base Station

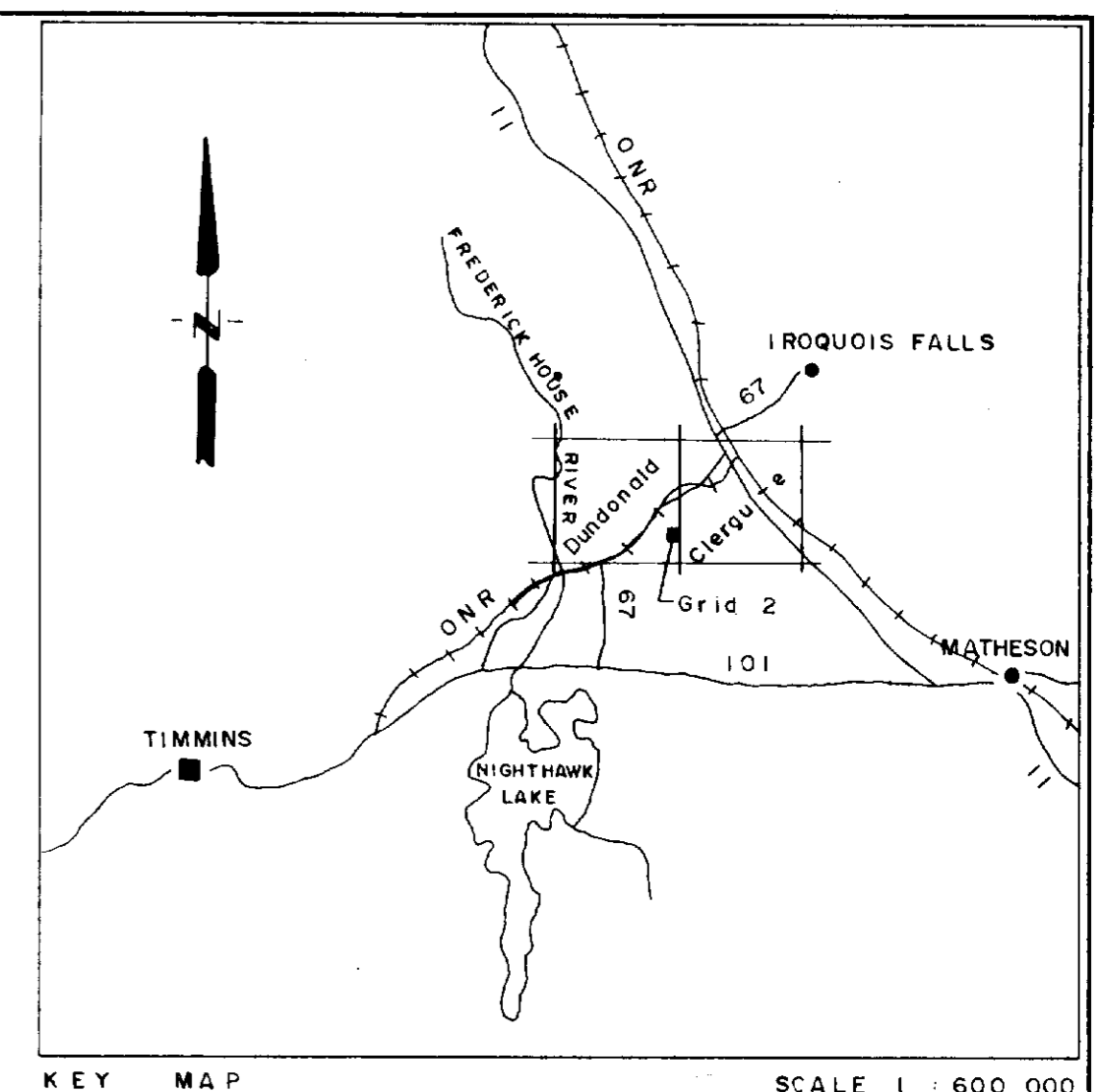
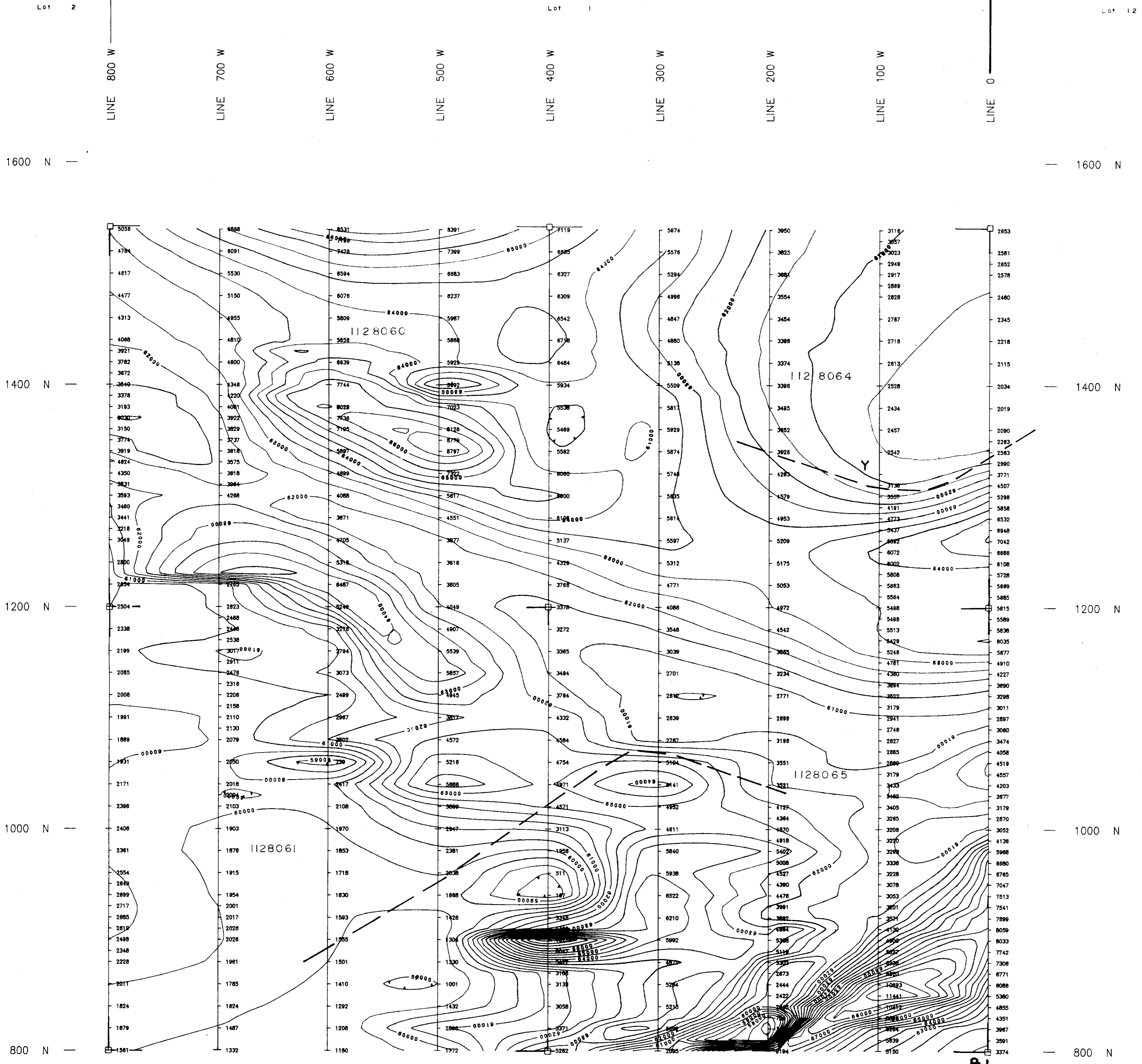
Claimposts :  
□ Unlocated  
• HLEM Anomaly

Con II  
Con I

**2.13541**

<b>FALCONBRIDGE LIMITED</b>	
MAGNETIC SURVEY	
DUNDONALD PROPERTY	
GRID I	
NTS : 42-A/10	Project No : 8186
SCALE : 1:2000	DATE : JUNE 1990
FILE : DUNA.MAG	<i>Shawn Taylor</i>
WORK BY :	<b>Timmins Geophysics Ltd.</b>





Instrument : Scintrex IGS-2/MP-4  
 Type : Total Field Proton Precession  
 Contour Interval : 500 gammas  
 Datum Level : 58000 gammas

Claimposts :  
 □ Unlocated  
 — HLEM Anomaly

**2.13541**

<b>FALCONBRIDGE LIMITED</b>	
MAGNETIC SURVEY	
DUNDONALD PROPERTY GRID 2	
NTS : 42 - A / 10	Project No. : 8186
SCALE : 1: 2000	DATE : JULY 1990
FILE : DUNB.MAG	<i>Dawn Taylor</i>
WORK BY :	<b>Timmins Geophysics Ltd.</b>

