



42A06NE0250 2.13462 CARMAN

010

RECEIVED

AUG 15 1990

MINING LANDS SECTION

REPORT ON

GEOPHYSICAL WORK

ON

CARMAN PROPERTY

CARMAN TOWNSHIP

FOR

FALCONBRIDGE LIMITED

NTS: 42-A/6 PROJ #: 8183

2.13462

AUGUST 1990

S. TAYLOR
TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

HLEM and magnetic surveys were carried out in June 1990, over a property in Carman Township.

The only anomalous HLEM response lies at the north end of Line 2800 East, and is not within the claim group boundaries. This anomaly is anomaly 'E', which was better defined in the 1989 survey of the northern claim group to the north.

The magnetic results outlined a highly susceptible unit, interpreted as ultramafics, in the southwest area of the survey area. It also mapped diabase dikes along Line 2000, and 2600 East. Sporadic highs in the eastern area of the survey area are interpreted as iron formation, based on previous drilling in the area.

There are no geophysical drill targets on the property.



42A06NE0250 2.13462 CARMAN

010C

ii

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INTRODUCTION

During May and June 1990, magnetic and horizontal loop electromagnetic (HLEM) surveys were carried out for Falconbridge Limited over a property in Carman Township property. The surveyed area is located approximately 20 kilometres southeast of the city of Timmins in the Porcupine Mining Division (Figure 1). It consists of eight claims situated near the western edge of the township and are numbered as follows:

P 1129603 - P 1129609 inclusive

Access was made via a bush road which branches eastward from the Langmuir Road.

The field data was collected by J. DerWeduwen, L. Varin, B. Pigeon, and J. Penttinen.

PREVIOUS WORK

Two companies filed for assessment credits on the seven unpatented claims (Table 1).

In 1965 M&M Porcupine Gold Mines Ltd carried out airborne EM and magnetic surveys over a large claim group which straddled the Carman-Shaw Township Line. Several small grids were cut and ground EM and magnetic surveys were carried out to locate EM anomalies on the ground. A total of seven holes were drilled to test these anomalies. Two holes, 66-2 and 66-3 are located within 200 metres of

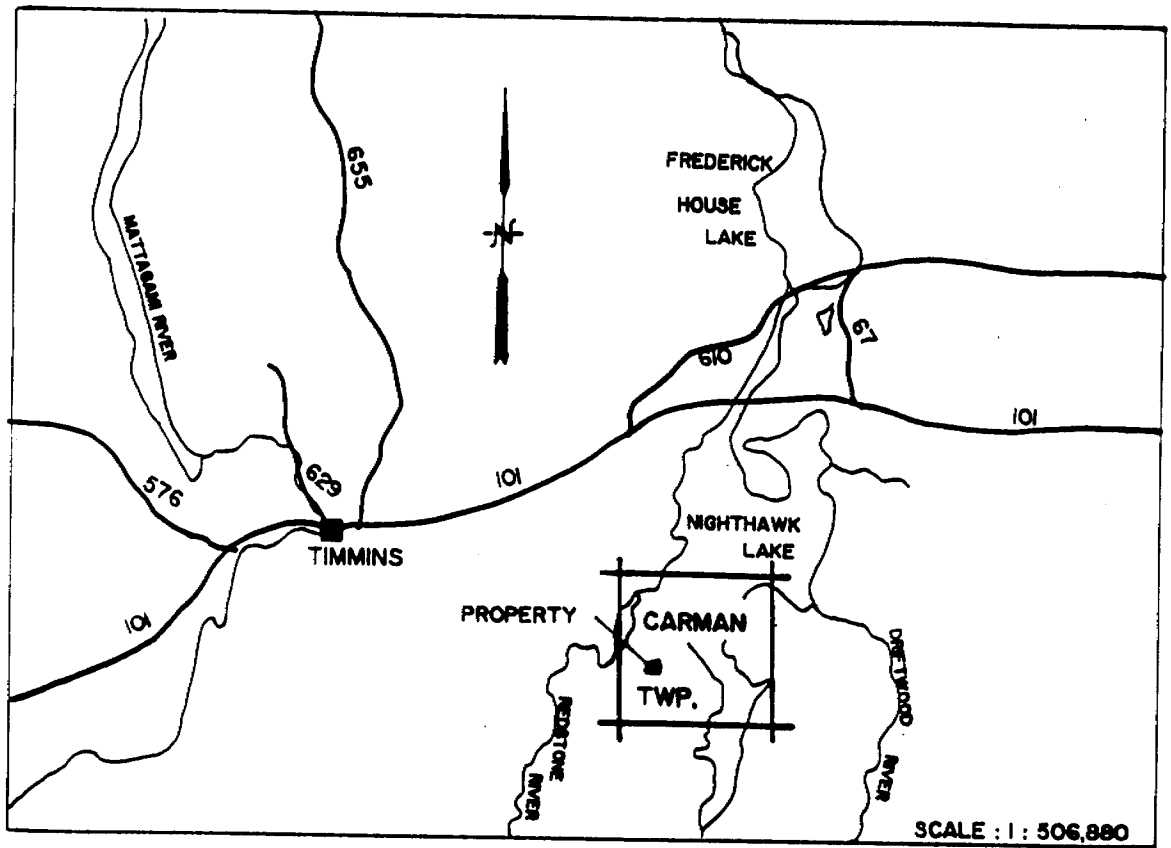


Figure 1 (a). Location Map

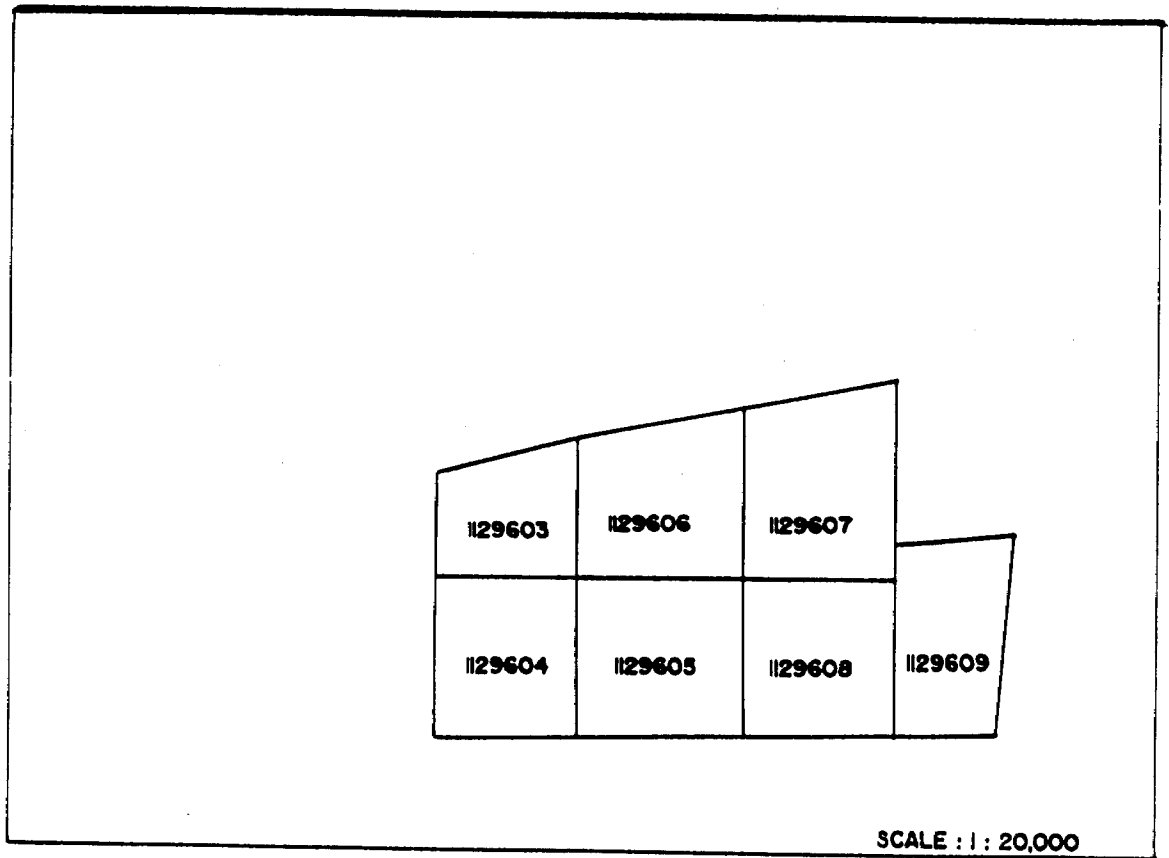


Figure 1 (b). Claim Map

the property, and probably tested Anomaly 'E', located in this survey. Hole 66-4 was targeted at an EM anomaly which is probably Anomaly 'D'.

In 1971, the International Nickel Company of Canada conducted magnetic and EM surveys. Several holes were drilled to test EM conductors but none are located on this property.

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	ASSESSMENT FILE
1965	M & M PORCUPINE GOLD MINES LTD.	AIR-EM, AIR-MAG GROUND EM, MAG	66-2, 66-3 66-4	T-1208
1971	INTERNATIONAL NICKEL COMPANY OF CANADA	MAG & EM		T-1009

Table 1. Summary of previous work.

SURVEY DESCRIPTIONS

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 160 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 are given in maps 1 and 2 at a scale of 1:5000.

The only anomalous response on the property lies at the northern end of Line 2800 East. These readings are beyond the north claim boundary and correspond to Anomaly 'E', mapped in the 1989 survey on the claim block to the north. Based on the 1989 survey, the anomaly is a very wide zone, comprised of three closely spaced conductors. Calculations indicate the depth of the source is 38 metres and its conductivity is moderate.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
2800 E	1100 S (S EDGE)	?	-7	-9	38	10	INCOMPLETE PROFILE MAY NOT BE PEAK VALUES

Table 2: Anomaly 'E', 444 Hz, 160 metre coil separation.

MAGNETIC RESULTS

The magnetic results are plotted on Map 3 at a scale of 1:5000.

High magnetics in the south western portions of the property are interpreted to map an ultramafic units. Two linear highs along Lines 2000 and 2600 East are

typical diabase dike responses. Sporadic readings in the most eastern lines are believed to be caused by iron formation, based on previous drilling.

August 3, 1990

DATE

Sharon Taylor

SHARON TAYLOR
TIMMINS GEOPHYSICS LTD.

APPENDIX A



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) Geophysics
Township or Area Carman Township
Claim Holder(s) Falconbridge Limited
P.O. Box 1140, Timmins, Ont. P4N 7H9
Survey Company Timmins Geophysics Ltd.
Author of Report P.O. Box 1783, South Porcupine, Ont. P0N1H0
Address of Author Sharon Taylor
Covering Dates of Survey May 10/90 - August 3/90
(linecutting to office)
Total Miles of Line Cut 13.6 km

MINING CLAIMS TRAVERSED
List numerically

P 1129603
(prefix) (number)
1129604
1129605
1129606
1129607
1129608
1129609

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 (20, 40, etc.)

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Aug. 3/90 SIGNATURE: Shaun Taylor
Author of Report or Agent

Res. Geol. Qualifications

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder

TOTAL CLAIMS 7

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 788 Number of Readings MAG 788
HLEM 529
Station interval 20 metres Line spacing 100 metres
Profile scale 1 cm = 20% 444 Hz - 1 cm = 40% 1777 Hz
Contour interval 200 gamma

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 seconds
Base Station location and value 1200 South - Line 2400 East
68267

ELECTROMAGNETIC

Instrument Apex Parametrics MaxMin II
Coil configuration Horizontal loop
Coil separation 160 metres
Accuracy 1%
Method: Fixed transmitter Shoot back 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 _____



2.13462

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) Geophysics
Township or Area Carman Township
Claim Holder(s) Falconbridge Limited
P.O. Box 1140, Timmins, Ont. P4N 7H9
Survey Company Timmins Geophysics Ltd.
Author of Report P.O.Box 1783, South Porcupine, Ont. P0N1H0
Address of Author Sharon Taylor
Covering Dates of Survey May 10/90 - August 3/90
(linecutting to office)
Total Miles of Line Cut 13.6 km

MINING CLAIMS TRAVERSED
List numerically

Table with 2 columns: (prefix) and (number). Rows include 1129603, 1129604, 1129605, 1129606, 1129607, 1129608, 1129609.

If space insufficient, attach list

Table with 3 columns: SPECIAL PROVISIONS CREDITS REQUESTED, Geophysical, DAYS per claim. Rows include 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: Aug. 3/90 SIGNATURE: Sharon Taylor
Author of Report or Agent

Res. Geol. Qualifications 2.8510

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder. Multiple empty rows for data entry.

TOTAL CLAIMS 7

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 788 Number of Readings MAG 788 HLEM 529
Station interval 20 metres Line spacing 100 metres
Profile scale 1 cm = 20% 444 Hz - 1 cm = 40% 1777 Hz
Contour interval 200 gamma

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 seconds
Base Station location and value 1200 South - Line 2400 East
68267

ELECTROMAGNETIC

Instrument Apex Parametrics MaxMin II
Coil configuration Horizontal loop
Coil separation 160 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 _____

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 _____



Ontario

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: W9006.60444,
Our File : 2.13462

December 28, 1990

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

Dear Madam/Sir:

RE: Geophysical (Eletromagnetic & Magnetometer) Survey
submitted on Mining Claim P 1129603 et al in Carmen Twp.

The assessment work credits, as listed with the attached
technical assessment work credits 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



AMENDED COPY

Recorded Holder
Falconbridge Limited

Township or Area
Carmen Twp.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical 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 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 1129603 - 609 incl.

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

[Empty box for special credits]

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

[Empty box for no credits]

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.

August 26
September 24

DOCUMENT No. W/9006-6044

- 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:

Mining Act Report of Work (Geophysical, Geological and Geochemical Surveys)

Type of Survey(s) GEOPHYSICS	Mining Division PORCUPINE	Township or Area CARMAN TOWNSHIP
Recorded Holder(s) FALCONBRIDGE LIMITED	Prospector's Licence No. A 21647	
Address P.O. Box 1140, 571 Moneta Ave., Timmins, Ontario P4N 7H9		Telephone No. 705-267-1188
Survey Company TIMMINS GEOPHYSICS LTD.		
Name and Address of Author (of Geo-Technical Report) S. Taylor, P.O. Box 1783, South Porcupine, Ont. P0N 1H0		Date of Survey (from & to) 24, 06, 90 28, 06, 90

Credits Requested per Each Claim in Columns at right

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	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Other	
Total miles flown over claim(s).		
Date JULY 26/90	Recorded Holder or Agent (Signature) <i>[Signature]</i>	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1129603				
	1129604				
	1129605				
	1129606				
	1129607				
	1129608				
	1129609				
RECEIVED					
JUL 30 1990					
RECORDED					
JUL 26 1990					
MINING LANDS SECTION					
Total number of mining claims covered by this report of work.					7

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. P0N 1H0

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

For Office Use Only

Total Days Cr. Recorded 420	Date Recorded JULY 26/90	Mining Recorder <i>[Signature]</i> Mining Recorder
	Date Approved as Recorded <i>see revised work statement</i>	Provincial Manager, Mining Lands

Received Stamp

RECEIVED
JUL 28 1990
[Signature]



Ontario

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

File: 2.13462

January 4, 1991

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

Dear Sir/Madam:

Re: Geophysical (Electromagnetic) Survey submitted on Mining
Claim P 1129607 in the Township of Carman

With reference to your Report of Work W9006.60554 dated November
20, 1990, this work has already been approved on report of Work
W9006.60554.

You are hereby authorized to delete the work credits recorded on
November 20, 1990 from the claim record sheets. Please inform the
recorded holder accordingly.

Yours sincerely,

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

AS
LJS/dvl
Encl.

cc: Falconbridge Ltd.
Timmins, Ontario

Resident Geologist
Timmins, Ontario

Timmins Geophysics Ltd.
South Porcupine, Ontario

Assessment File Office
Toronto, Ontario
✓ Attn: P. Joseph

DOCUMENT No. **W 9006-60554**

- 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:

Report of Work
(Geophysical, Geological and Geochemical Surveys)

Mining Act

Type of Survey(s) Geophysical	Mining Division Porcupine	Township or Area Carman
Recorded Holder(s) Falconbridge Limited	Prospector's Licence No. 2.13462 A21647	
Address P.O. Box 1140, Timmins, Ontario P4N 7H9		Telephone No. (705) 267-1188
Survey Company Timmins Geophysics Ltd.		
Name and Address of Author (of Geo-Technical Report) Sharon Taylor, P.O. Box 1783, South Porcupine, Ontario PON 1H0		Date of Survey (from & to) 10 05 90 03 08 90

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1129607				
RECEIVED					
NOV 30 1990					
MINING LANDS SECTION					
Total number of mining claims covered by this report of work.					1

Total miles flown over claim(s).
Date **Nov. 19, 1990** 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 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
Al Coutts, c/o Falconbridge Limited, 571 Moneta Ave., Box 1140, Timmins, Ont. P4N 7H9

Telephone No. **(705) 267-1188** Date **Nov. 19, 1990** Certified By (Signature) *[Signature]*

Received Stamp

For Office Use Only

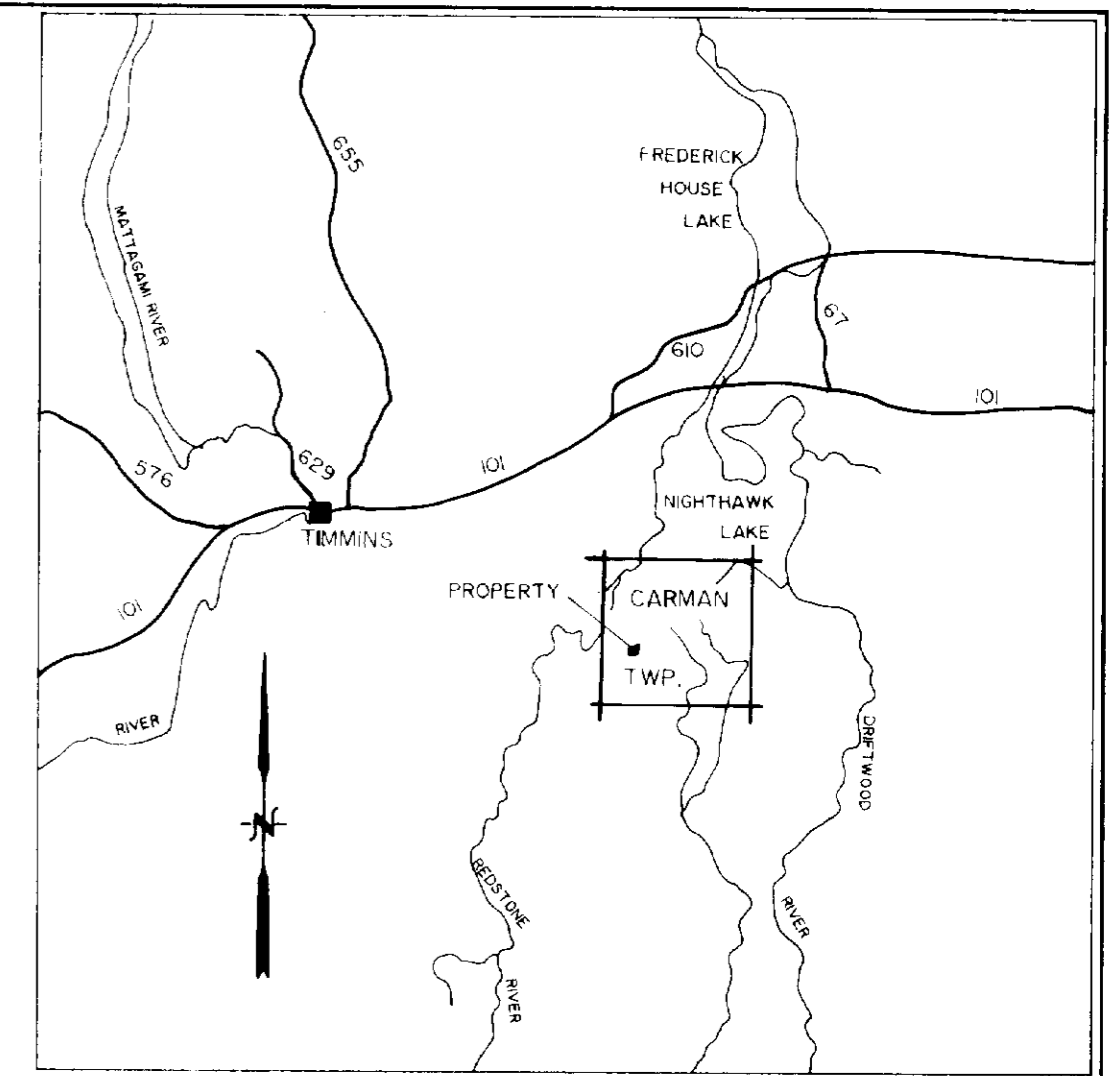
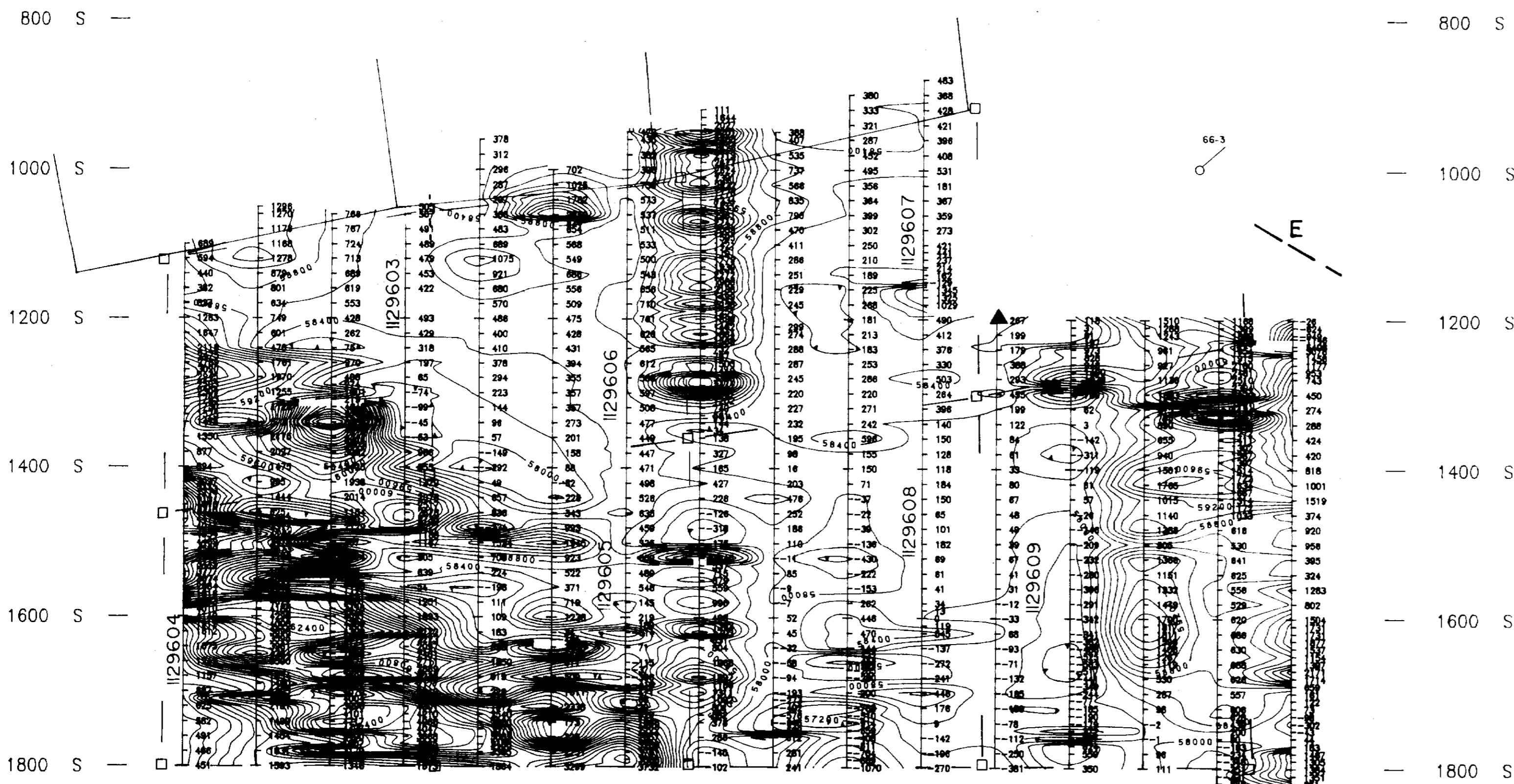
"ACTG"

Total Days Cr. Recorded 20	Date Recorded Nov. 20/90	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands

RECORDED

NOV 20 1990

LINE 1300 E
 LINE 1400 E
 LINE 1500 E
 LINE 1600 E
 LINE 1700 E
 LINE 1800 E
 LINE 1900 E
 LINE 2000 E
 LINE 2100 E
 LINE 2200 E
 LINE 2300 E
 LINE 2400 E
 LINE 2500 E
 LINE 2600 E
 LINE 2700 E
 LINE 2800 E

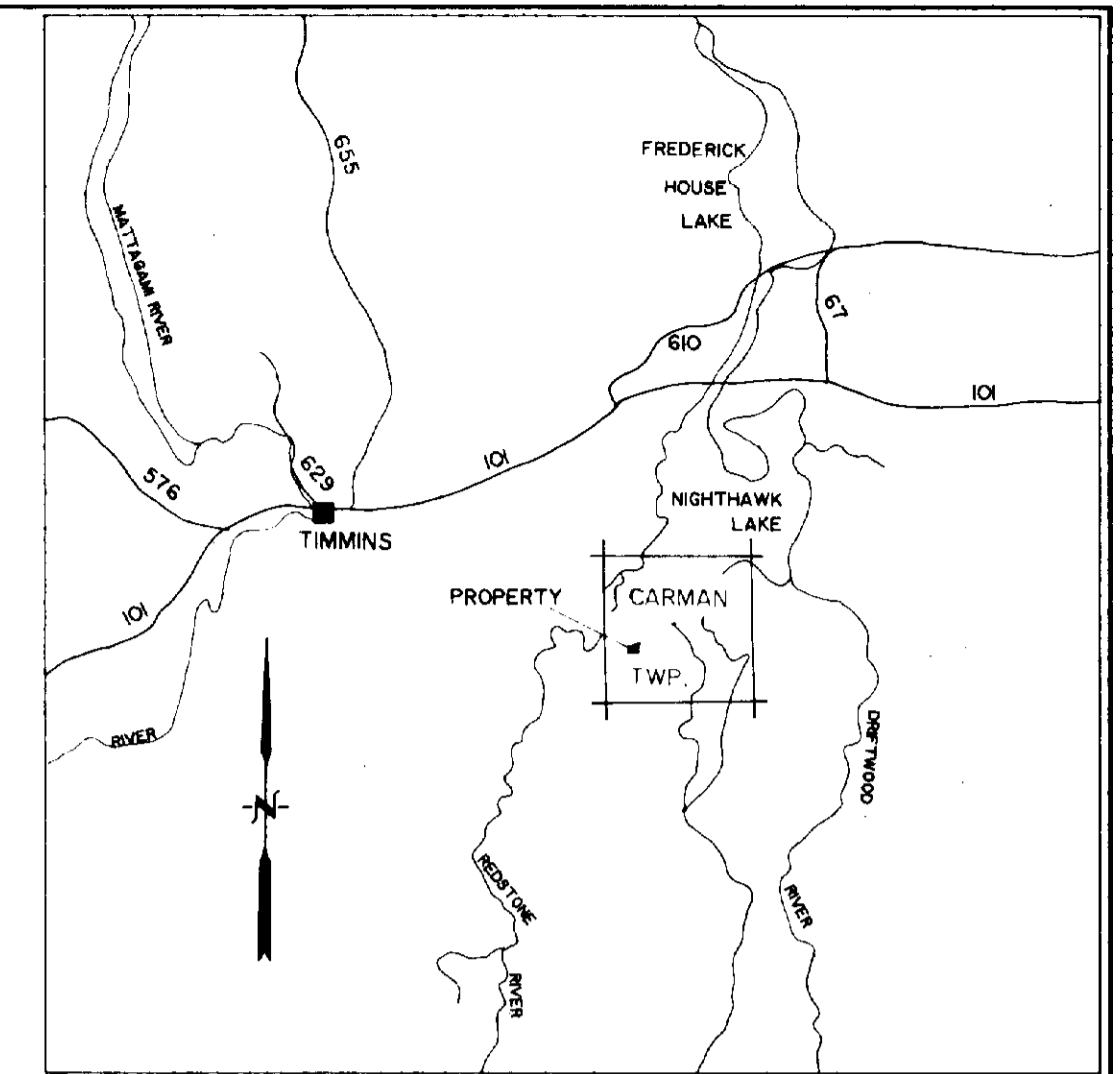
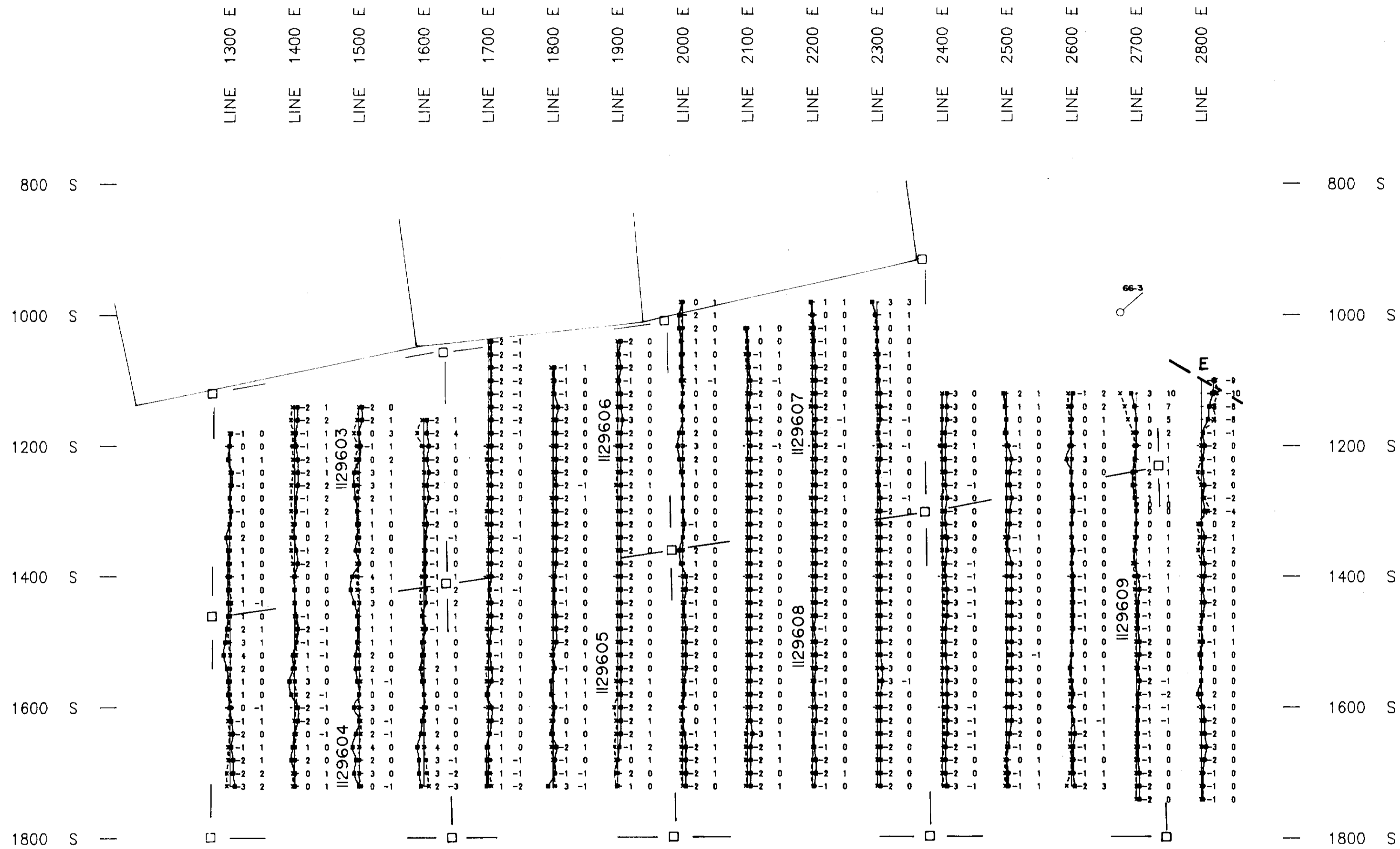


Instrument : Scintrex IGS-2/MP-4
 Type : Total Field Proton Precession
 Contour Interval : 200 gammas
 Datum Level : 58000 gammas
 Claimposts :
 □ Unlocated
 --- HLEM Anomaly 444 Hz
 ▲ Base Station
 ○ DDH

2.13462

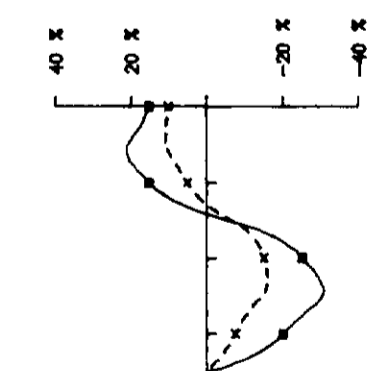
FALCONBRIDGE LIMITED	
MAGNETIC SURVEY	
CARMAN GRID #1 CARMAN TOWNSHIP	
NTS : 42-A/6	PROJ # : 8183
SCALE : 1: 5000	DATE : JUNE 1990
FILE : CARM1.MAG	<i>Sharon Taylor</i>
WORK BY :	Timmins Geophysics Ltd.





KEY MAP SCALE: 1:506,880

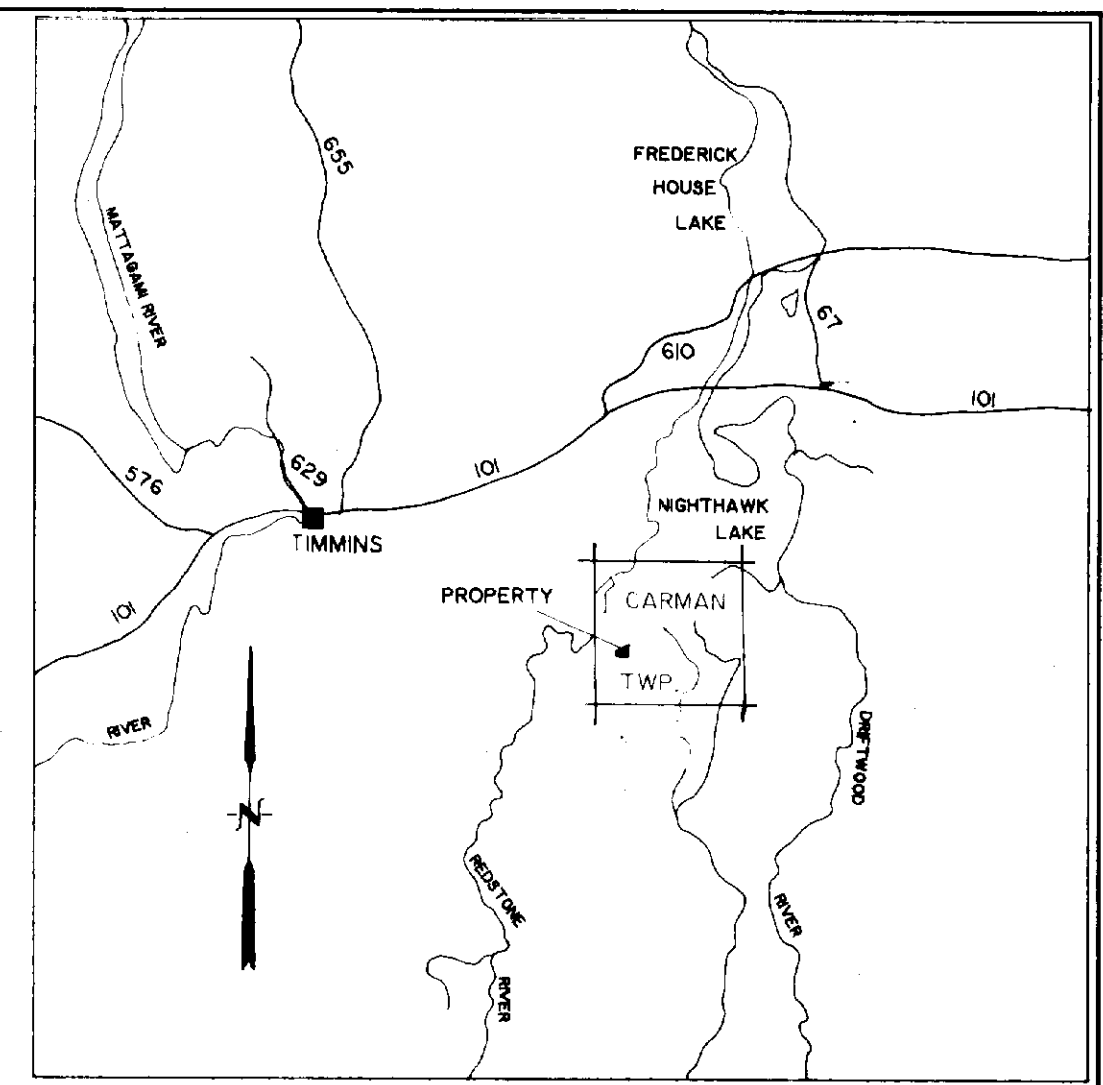
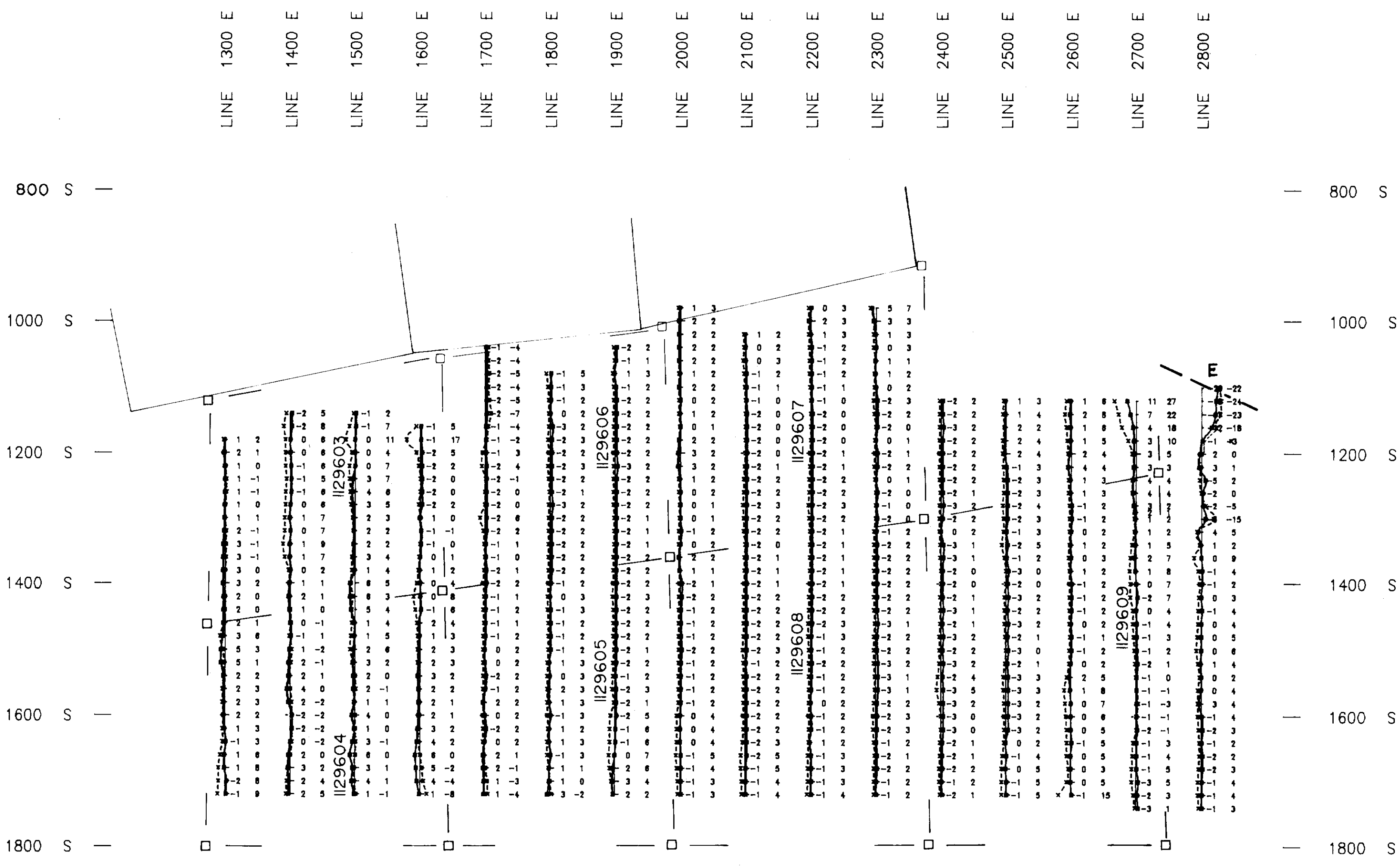
Instrument : Apex Parametrics MaxMin I
 Frequency : 444 Hz
 Coil Separation : 160 metres
 Profile Scale : 1 cm = 20%
 Claimposts :
 □ Unlocated
 --- Anomaly
 ○ DDH



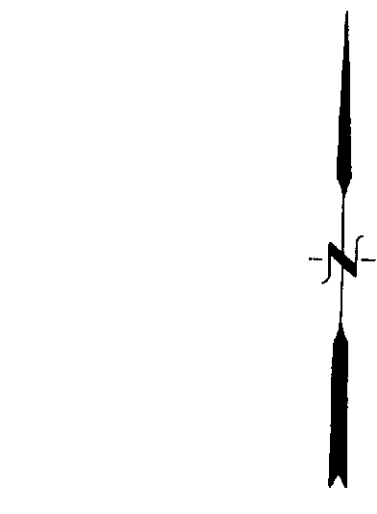
In-phase **2.13462**
 Quadrature

FALCONBRIDGE LIMITED	
HLEM SURVEY	
CARMAN GRID # 1	
CARMAN TOWNSHIP	
NTS : 42-A/6	PROJ # : 8183
SCALE : 1: 5000	DATE : JUNE 1990
FILE : 1CARM90.HL	<i>Sharon Taylor</i>
WORK BY :	Timmins Geophysics Ltd.

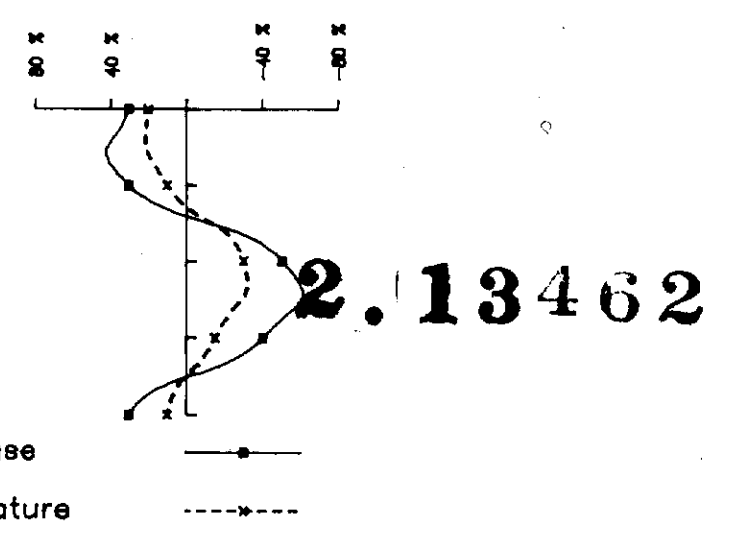




KEY MAP SCALE : 1 : 506,000



Instrument : Apex Parametrica MaxMin I
 Frequency : 1777 Hz
 Coil Separation : 160 metres
 Profile Scale : 1 cm = 40%
 Claimposts :
 □ Unlocated
 --- Anomaly



FALCONBRIDGE LIMITED	
HLEM SURVEY	
CARMAN GRID #1	
CARMAN TOWNSHIP	
NTS : 42-A/6	PROJ # : 8183
SCALE : 1: 5000	DATE : JUNE 1990
FILE : 1CARM90.HL	<i>Sharon Taylor</i>
WORK BY :	Timmins Geophysics Ltd.

