



42A06NE0276 2.14130 CARMAN

010

REPORT ON  
GEOPHYSICAL WORK  
ON  
CARMAN - SHAW PROJECT  
CARMAN TOWNSHIP  
FOR  
FALCONBRIDGE LIMITED

NTS: 42-A/7 PROJ #: 8183

2.14130 -

MAY 1991

D. LONDRY  
TIMMINS GEOPHYSICS LTD.

Qua | 2.2289

## SUMMARY AND RECOMMENDATIONS

HLEM and magnetic surveys were carried out over 34 claims in Carman Township.

The magnetic survey mapped a broad northeast striking diabase dike in the southwest corner of the property; north-south dikes, although known to occur in the area, are difficult to interpret because of the line direction. Discontinuous, irregular shaped anomalies are located in area underlain by serpentinites.

One definite bedrock conductor was detected in the EM survey. It strikes northwest-southeast along the east side of the property and has a strong coincident magnetic anomaly. It is recommended that this zone is tested by diamond drilling on Line 4500 East where the width and conductivity is greatest.

TABLE OF CONTENTS

	page
SUMMARY AND RECOMMENDATIONS .....	i
INTRODUCTION .....	1
GENERAL GEOLOGY .....	1
PREVIOUS WORK .....	3
SURVEY DESCRIPTIONS .....	5
HLEM RESULTS .....	5
MAGNETIC RESULTS .....	7
REFERENCE .....	9
TECHNICAL DATA SHEET .....	APPENDIX A

LIST OF FIGURES

	page
1. (a) LOCATION MAP .....	2
(b) CLAIM MAP .....	2

LIST OF TABLES

	page
1. SUMMARY OF PREVIOUS WORK .....	3
2. ANOMALY 'A' INTERPRETATION .....	6
3. ANOMALY 'B' INTERPRETATION .....	6
4. ANOMALY 'C' INTERPRETATION .....	7

LIST OF MAPS

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

## INTRODUCTION

During March 1991, magnetic and horizontal loop electromagnetic (HLEM) surveys were carried out for Falconbridge Limited over 34 claims in Carman Township.

The property is located approximately 23 kilometres southeast of the city of Timmins in the Porcupine Mining Division. The claims, located in the southwest portion of Carman Township (Figure 1), are numbered as follows:

P-1114785

P-1117118 P-1117139 inclusive

P-1117141 P-1117147 inclusive

P-1126598

P-1126600 P-1126601 inclusive

P-1126608

P-1127245

The property was accessed by snowmobile from the Car-Shaw Mine Property, which is reached via the Langmuir Road.

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

## GENERAL GEOLOGY

The general geology of the area, consisting of Archean volcanic rocks intruded by younger diabase dikes, is described by Pyke (1982).

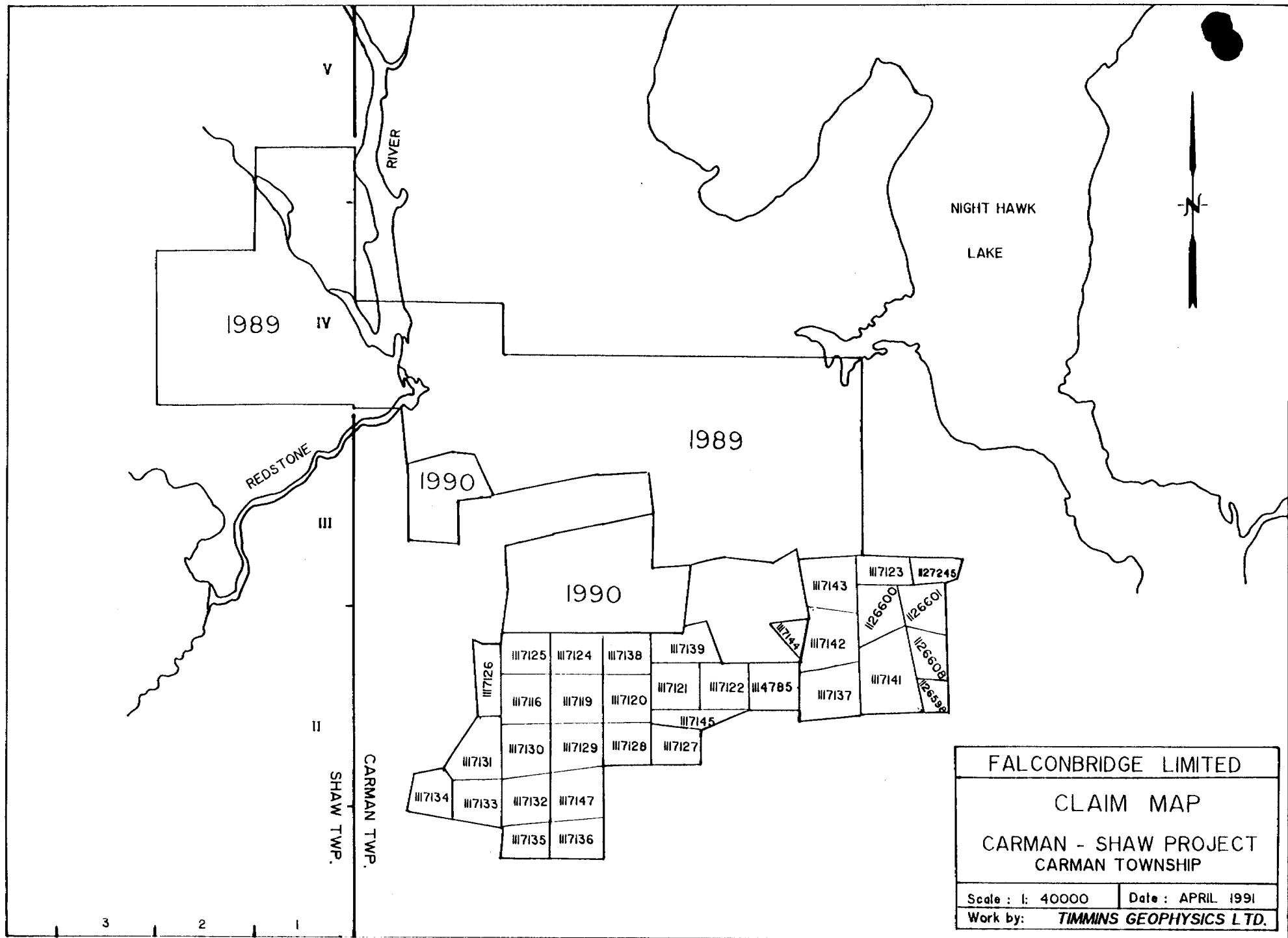


Figure 1 : Location Map

The west side of the property is underlain by calc-alkalic intermediate volcanics within the Shaw Dome. The rest of the property consists of layers of iron formation, and ultramafic flows and intrusives along the edge of the dome.

Nickel mineralization is associated with ultramafics flows such as at the Langmuir deposit, six kilometres to the southeast and the Timmins Nickel deposit, 11 kilometres to the southwest. Gold is associated with iron formation in the CarShaw deposit, 2 kilometres to the west.

#### PREVIOUS WORK

Table 1 is a summary of the previous work carried out over portions of the 34 claims covered in this report.

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	ASSESSMENT FILE
1985	GAIL RESOURCES INC.	VLF,MAG		T-2862
1981/82	RIO TINTO CANADIAN EXPLORATION LTD.	VLF,MAG		T-2454
1973	FALCONBRIDGE NICKEL MINES LIMITED	VLEM,MAG		T-1561
1969	INTERNATIONAL NICKEL CO. of CANADA	MAG	32392,32389	T-1009
1966	UNITED MACFIE MINES LTD.	VLF,MAG		T-1299
1965/66	M & M PORCUPINE GOLD MINES LTD.	AEM,VLEM,HLEM	66-1,1a,6,9,8,8a	T-1208
1946	GRANTON SYNDICATE			T-51

Table 1. Summary of Previous Work

In 1946, Granton Syndicate filed geological mapping and property reports over sixteen claims situated in the central portion of the present property.

In 1965, M & M Porcupine Gold Mines Ltd. held 71 claims in Carman and Shaw Townships. The property, under option to McWaters Gold Mines Limited, was covered with an airborne EM survey. This was followed-up with ground vertical loop electromagnetic (VLEM) and magnetic surveys along lines which were oriented North 60 degrees East; VLEM anomalies were detailed with a horizontal loop EM survey. A total of thirteen holes were drilled to test anomalies, six of which are on the present property.

In 1966, United MacFie Mines Ltd. carried out VLF and magnetic surveys over six claims which border the southeast corner of the present property.

In 1969 Inco held a claim block which included the southern row of claims on the eastern half of the present property. They filed assessment work which included a magnetic survey and drilling. Two holes, 32389 and 32392 are located just off the eastern edge of the property.

In 1973, Falconbridge Nickel Mines Limited optioned fourteen claims from D. Meunier and carried out a VLEM survey on lines oriented North 30 degrees West. Follow-up VLEM and magnetic surveys were carried out on lines oriented North 60 degrees East. All of these claims are located in the western portion of the property.

In 1981 and 1982, Rio Tinto Canadian Exploration Ltd. carried out VLF and magnetic surveys on lines oriented 045 degrees. This large claim group included the eastern portion of the present property.

In 1985, Gail Resources Inc. filed geology, VLF and magnetic surveys over seven claims in the western portion of the present property.

## SURVEY DESCRIPTIONS

The grid on the property consists of north-south 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 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 20 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 profile scale is 1 cm = 40% for both 444 and 1777 Hz results.

Only one conductor with good conductivity was detected in the survey. Anomaly 'A' strikes northwest from 2040 South on Line 4600 East to 1810 South on Line 4400 East. The width and conductivity thickness is greatest on Line 4500 East (Table 2); the dip is difficult to determine because the positive shoulders are influenced by the angle at which the zone was surveyed. There is a coincident magnetic anomaly which increases in amplitude from southeast to northwest. The strongest magnetic field, on Line 4300 East, does not have an

associated conductivity.

It does not appear as though Anomaly 'A' has been tested by diamond drilling. Hole 32392, drilled by Inco on strike to the southeast, did intersect iron formation.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
4400 E	1810 S	NARROW	6	8	41	7	
4500 E	1950 S	35	41	15	12	75	
4600 E	2040 S	NARROW	7	4	80	30	

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

Anomalies 'B' and 'C' strike east northeast in an area of uniform magnetic field on the west side of the property. The conductivity thickness of 1 mho or less is in the range for a surficial source (Tables 3 & 4).

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
1300 E	2860 S	NARROW	5	16	SHALLOW	1	
1400 E	2780 S	NARROW	6	23	SHALLOW	1	
1500 E	2740 S	NARROW	11	33	SHALLOW	1	
1600 E	2700 S	NARROW	4	21	SHALLOW	<1	
1700 W	2660 S	NARROW	1	10	SHALLOW	<1	

Table 3. Anomaly 'B', 1777 Hz, 160 coil separation.

Anomaly 'B' may have been the target of Hole 66-9, drilled by M & M Porcupine Gold Mines Ltd. in 1966. The main rock type in the hole was andesite; no conductor was intersected.

There are other weak quadrature anomalies present in the high frequency results which are undoubtedly due to bedrock topography.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
1000 E	3220 S	NARROW	7	22	SHALLOW	1	
1100 E	3100 S	NARROW	9	30	SHALLOW	1	
1200 E	3040 S	NARROW	8	28	SHALLOW	1	
1300 E	2980 S	NARROW	4	21	SHALLOW	<1	

Table 4: Anomaly 'C', 1777 Hz, 160 metre coil separation.

#### MAGNETIC RESULTS

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

A northeast striking Keweenawan diabase dike in the southwest corner of the property is reflected by a 300 metre wide magnetic high. Older north-south striking Matachewan diabase dikes are also known to be present, however, they are difficult to map because of the line direction. The uniform field along the western side of the property maps an area of intermediate volcanics.

A broad area of discontinuous, irregular shaped anomalies trend northwest in the west central part of the property. Holes 66-1, 1A, 8 and 8A, drilled by M & M Porcupine Gold Mines Ltd. in 1966 intersected serpentinites. Similar

anomalies strike east northeast through the east half of the property.

A northwest striking magnetic anomaly coincides with EM Anomaly 'A'. The increase in field strength from southeast to northwest suggests a transition from a sulphide facies iron formation in the southeast to an oxide facies in the northwest.

MAY 15, 1991

DATE

Douglas Londry  
DOUGLAS LONDRY  
TIMMINS GEOPHYSICS LTD.

2.2289  
Dual.

**REFERENCE**

Pyke, D.R.

1982: Geology of the Timmins Area, District of Cochrane; Ontario Geological Survey Report 219, 141p. Accompanied by Map 2455, Scale 1:50,000, 3 Charts, and 1 Sheet Microfiche.

**APPENDIX A**



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 CARMAN  
Claim Holder(s) FALCONBRIDGE LIMITED  
P.O. Box 1140, Timmins, Ontario P4 7H9  
Survey Company TIMMINS GEOPHYSICS LTD.  
Author of Report D. LONDRY  
Address of Author P.O. Box 1783, South Porcupine, Ont. PON  
Covering Dates of Survey Mar. 20/91 - April 5/91 1HO  
(linecutting to office)  
Total Miles of Line Cut 51.6 km

**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

Electromagnetic 20

40

### Magnetometer

### -Radiometric

-Other

### Geological

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

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

DATE: MAY 15 / 91 SIGNATURE: Douglas J. Gray  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications Civil 2.2289

## Previous Surveys

File No.      Type      Date      Claim Holder

**MINING CLAIMS TRAVERSED**  
**List numerically**

SEE ATTACHED LIST

If space insufficient, attach list

# GEOPHYSICAL TECHNICAL DATA

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

Number of Stations	2663	Number of Readings	HLEM - 2352 MAG - 2662
Station interval	20 metres	Line spacing	100 metres
Profile scale	1:100000 = 40% (444 & 1777 Hz)		
Contour interval	500 gammas		

MAGNETIC

Instrument	Scintrex IGS- /MP-4
Accuracy - Scale constant	$\pm .1$ gammas
Diurnal correction method	Scintrex MP-3 Base Station Magnetometer
Base Station check-in interval (hours)	20 seconds
Base Station location and value	Line 900 East - 2400 South 58452

ELECTROMAGNETIC

Instrument	Apex Parametrics MaxMin I
Coil configuration	Horizontal Loop
Coil separation	160 metres
Accuracy	1%
Method:	<input type="checkbox"/> Fixed transmitter <input type="checkbox"/> Shoot back <input checked="" type="checkbox"/> In line <input type="checkbox"/> Parallel line
Frequency	444 Hz - 1777 Hz
Parameters measured	In-phase and quadrature components of the secondary field measured as percent of the primary field.

GRAVITY

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

INDUCED POLARIZATION

RESISTIVITY

Instrument	
<u>Method</u>	<input type="checkbox"/> Time Domain <input type="checkbox"/> Frequency Domain
Parameters - On time	
- Off time	
- Delay time	
- Integration time	
Power	
Electrode array	
Electrode spacing	
Type of electrode	

LIST OF CLAIMS

P - 1114785	P - 1117130	P - 1117144
	P - 1117131	P - 1117145
P - 1117118	P - 1117132	
P - 1117119	P - 1117133	P - 1117147
P - 1117120	P - 1117134	
P - 1117121	P - 1117135	P - 1126600
P - 1117122	P - 1117136	P - 1126601
P - 1117123	P - 1117137	
P - 1117124	P - 1117138	P - 1126608
P - 1117125	P - 1117139	
P - 1117126		P - 1126598
P - 1117127	P - 1117141	
P - 1117128	P - 1117142	P - 1127245
P - 1117129	P - 1117143	

TOTAL CLAIMS = 34

### 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 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## 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 \_\_\_\_\_

## SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Commercial Laboratory ( \_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Mining Act**

**Report of Work**

(Geophysical, Geological and Geochemical Survey)

MINING LANDS SECTION, MINES DEVELOPMENT AND LANDS BRANCH

Type of Survey(s) <b>GEOPHYSICS</b>	Mining Division <b>PORCUPINE</b>	Township or Area <b>CARMAN</b>
Recorded Holder(s) <b>FALCONBRIDGE LIMITED</b>	Prospector's Licence No. <b>A-21647</b>	
Address <b>P.O. Box 1140, Timmins, Ontario P4N 7H9</b>	Telephone No. <b>705-267-1188</b>	

**2.14130**

Survey Company  
**TIMMINS GEOPHYSICS LTD.**

Name and Address of Author (of Geo-Technical Report) <b>D. Londry, P.O. Box 1783, South Porcupine, Ontario P0N 1H0</b>	Date of Survey (from & to) <b>20 Q3 91 - 05 Q4 91</b>
---	--

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)			
<b>RECEIVED</b>			
For each additional survey using the same grid:		Geochemical	
Enter 20 days (for each)			
JUN 1 1991			
RECORDED			
Man Days		MINING LANDS SECTION	
Complete traverse		Days per Claim	
enter total(s) here		Electromagnetic	
		- Electromagnetic	
		- Magnetometer	
		- Other	
MAY		1991	
		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 **Apr. 26 '91** Recorded Holder or Agent (Signature) **[Signature]**

Mining Claims Traversed (List in numerical sequence)		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1114785	P	1117134	P	1126598
	1117118		1117135		1127245
	1117119		1117136		
	1117120		1117137		
	1117121		1117138		
	1117122		1117139		
	1117123		1117141		
	1117124		1117142		
	1117125		1117143		
	1117126		1117144		
	1117127		1117145		
	1117128		1117147		
	1117129		1126600		
	1117130		1126601		
	1117131		1126608		
	1117132				
	1117133				

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

**34**

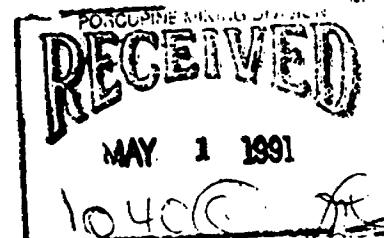
Certification Verifying Report of Work

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

STAN CLEMMER, P.O. BOX 1140, TIMMINS, ONT. P4N 7H9	Telephone No. <b>267-1188</b>	Date <b>APRIL 26 '91</b>	Certified By (Signature) <b>[Signature]</b>
--	----------------------------------	-----------------------------	--

Received Stamp



Total Days Cr. Recorded <b>2040</b>	Date Recorded <b>MAY 1 1991</b>	Mining Recorder <b>Robert Bailey</b>
Date Approved as Recorded <b>June 13, 1991</b>	Provincial Manager, Mining Lands <b>George Gabuski</b>	

**CODY TWP.**

#### MAP SYMBOLS

Aerial Cableway	— — —	Pipeline (above ground)	— — —
Boundary		Railroad	
International	— — —	Single Track	— + + +
Interprovincial	— + —	Double Track	— + + + +
District, Township	— — —	Abandoned	+ + —
Indian Reserve	— — —	Territory	+ + + + +
Acres/more	— — —	Road	
Lat., Concession	— + —	Highway, County	— — —
Approximate	— — —	Township	
Port Boundary	— — —	Access (road of doubtful maintenance or significant driveway)	— + + +
Bridge	— + + +	Road, Bush Road (portage route)	— — —
Road, Railroad		Rapids	
Building	□ +	Double line river with multiple rapids	
Chimney	○	Double line river with multiple rapids	
Cliff, Pit, Etc.	† † † †	Rapids	
Contours	— 68 —	Reservoir	
Interpolated	— — —	River, Stream, Canal	
Approximate	— — —	Segment	
Depression	— — —	Direction of flow	
Control Points		Rock	
Horizontal	△ 01774001	Significant	+
Vertical	● 300.02	Shoal	
Culvert	— + —	Spot Elevation (these elevations) -300.0	
Falls		Tower	■ ●
Double line river		Transmission Line	
Fence, Hedge, Wall		Poles	— + + +
Feature Outline (Construction features, etc.)		Pylons	— + + +
Flooded Land		Tunnel	— + + +
Lock		Utility Poles	+
Marsh or Swamp	± ±	Wharf, Dock, Pier	
Mast	◎	Wooded Area	
Mine Head Frame	◎		
Outcrop			

**AREAS WITHDRAWN FROM DISPOSITION**

**M.R.O. – MINING RIGHTS ONLY**

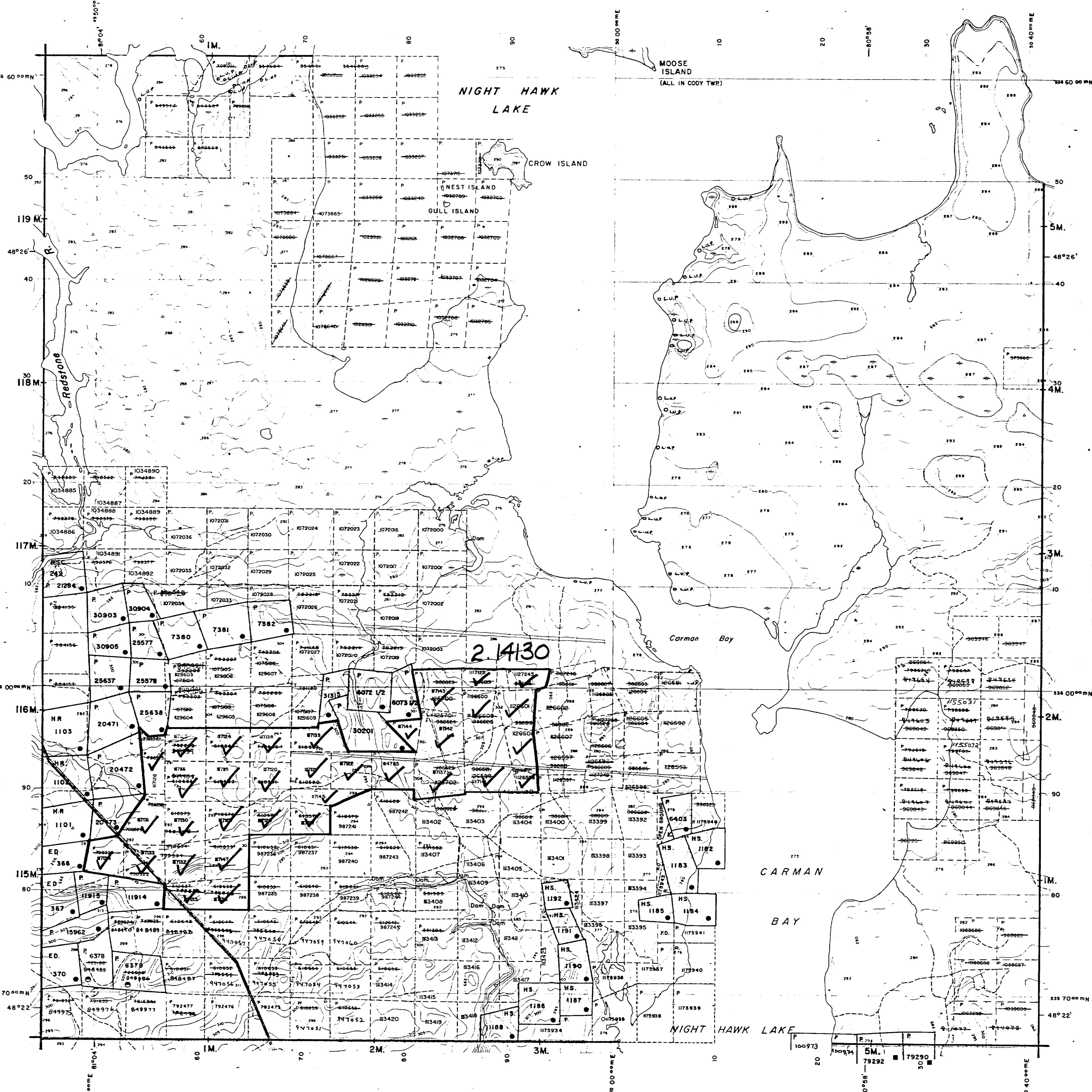
**S.R.O. – SURFACE RIGHTS ONLY**

## M.+ S. — MINING AND SURFACE RIGHTS

**ITEMS OR SERVICES PURCHASED**

Description      Case No.      Date      Disposition      File

SHAW TWB



#### **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**

<u>TYPE OF DOCUMENT</u>	<u>SYMBOL</u>
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 _____	R
CANCELLED _____	X
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.**

A scale bar with three horizontal lines. The top line has numerical markings at 500, 0, and 1000 Metres. The middle line has markings at 10, 0, 10, 20, 30, 40, 50, 60, and 70 Chains. The bottom line has markings at 500, 0, 1000, 2000, 3000, 4000, and 5000.

SCALE 1:20 000  
GRID ZONE: 17

**RECEIVED**  
MAY 10<sup>1951</sup>

Rec'd Jan. 23 / 85

## OWNERSHIP

# CARMAN

## **I.N.R. ADMINISTRATIVE DISTRICT**

**TIMMINS**

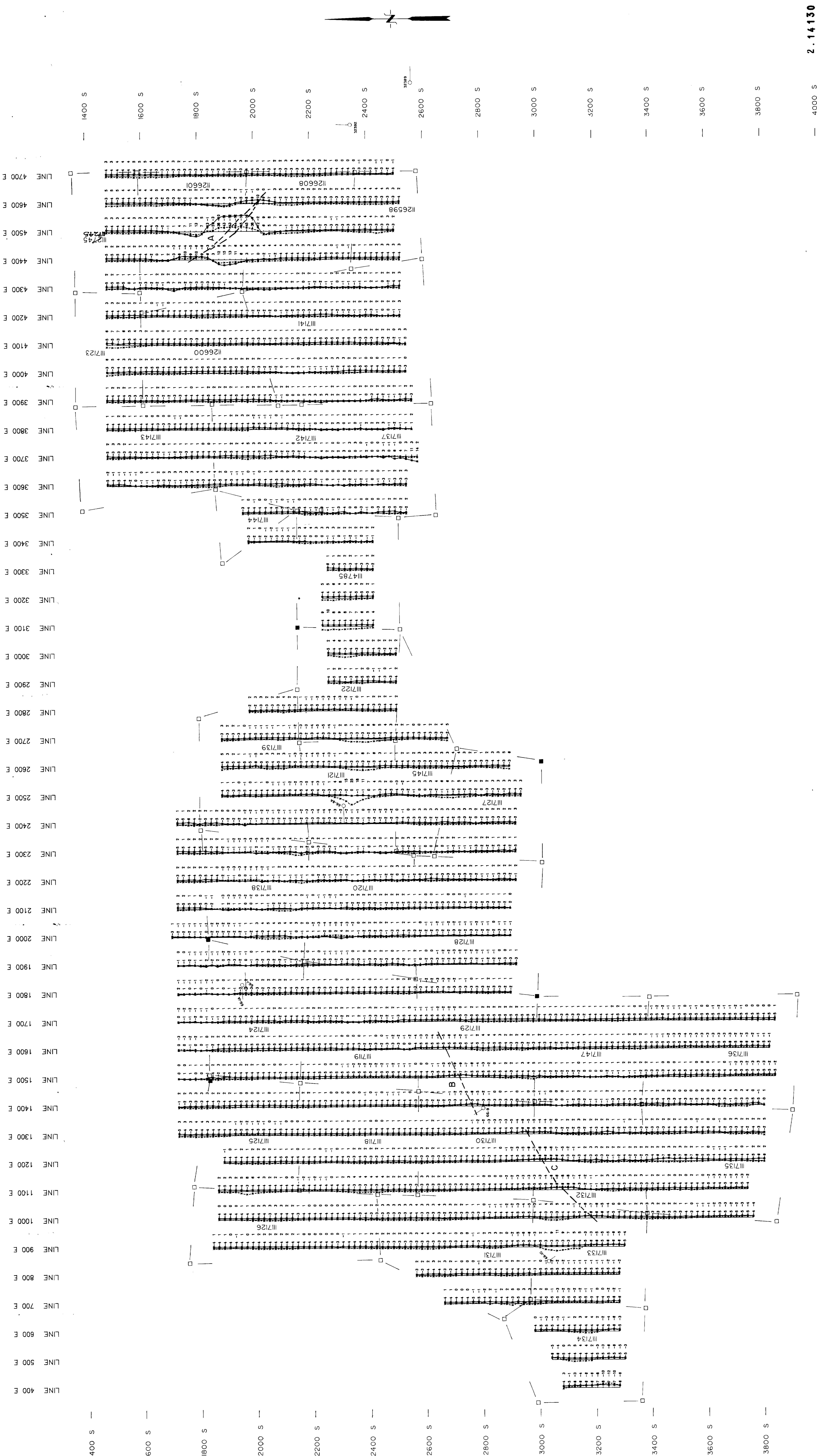
#### **TRAINING DIVISION**

PORCUPINE

## **AND TITLES / REGISTRY DIVISION**

COCHRANE

Ministry of Land  
Natural Management  
Resources Branch



<b>FALCONBRIDGE LIMITED</b>		<b>PROJ# :</b>
<b>HLEM SURVEY</b>		
<b>CARMAN – SHAW PROJECT</b>		
<b>CARMAN TOWNSHIP</b>		
<b>NTS :</b>	<b>42-A/7</b>	
<b>SCALE :</b>	1: 5000	<b>DATE :</b>
<b>FILE :</b>	CARM91.HL	MAY 1991
<b>WORK BY :</b>	<b>Timmins Geophysics Ltd.</b>	

Instrument : Apex Parametrics MaxMin |

Frequency : 444 Hz

Coil Separation : 160 Metres

Profile Scale : 1 cm = 40%

Claimposts :

- Unlocated
- Located
- — Anomaly

In-phase

Quadrature

**FALCONBRIDGE LIMITED**

**HLEM SURVEY**

**CARMAN - SHAW PROJECT**

**CARMAN TOWNSHIP**

**PRO**

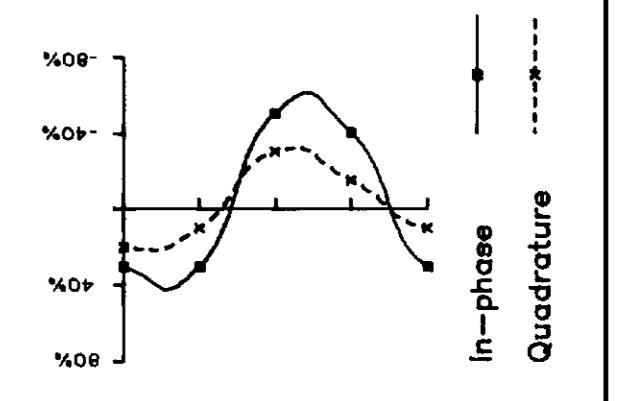
**42-A/7**

: 1: 5000	DATE : MAY 1991
: CARM91.HL	
BY : Timmins Geophysics Ltd.	

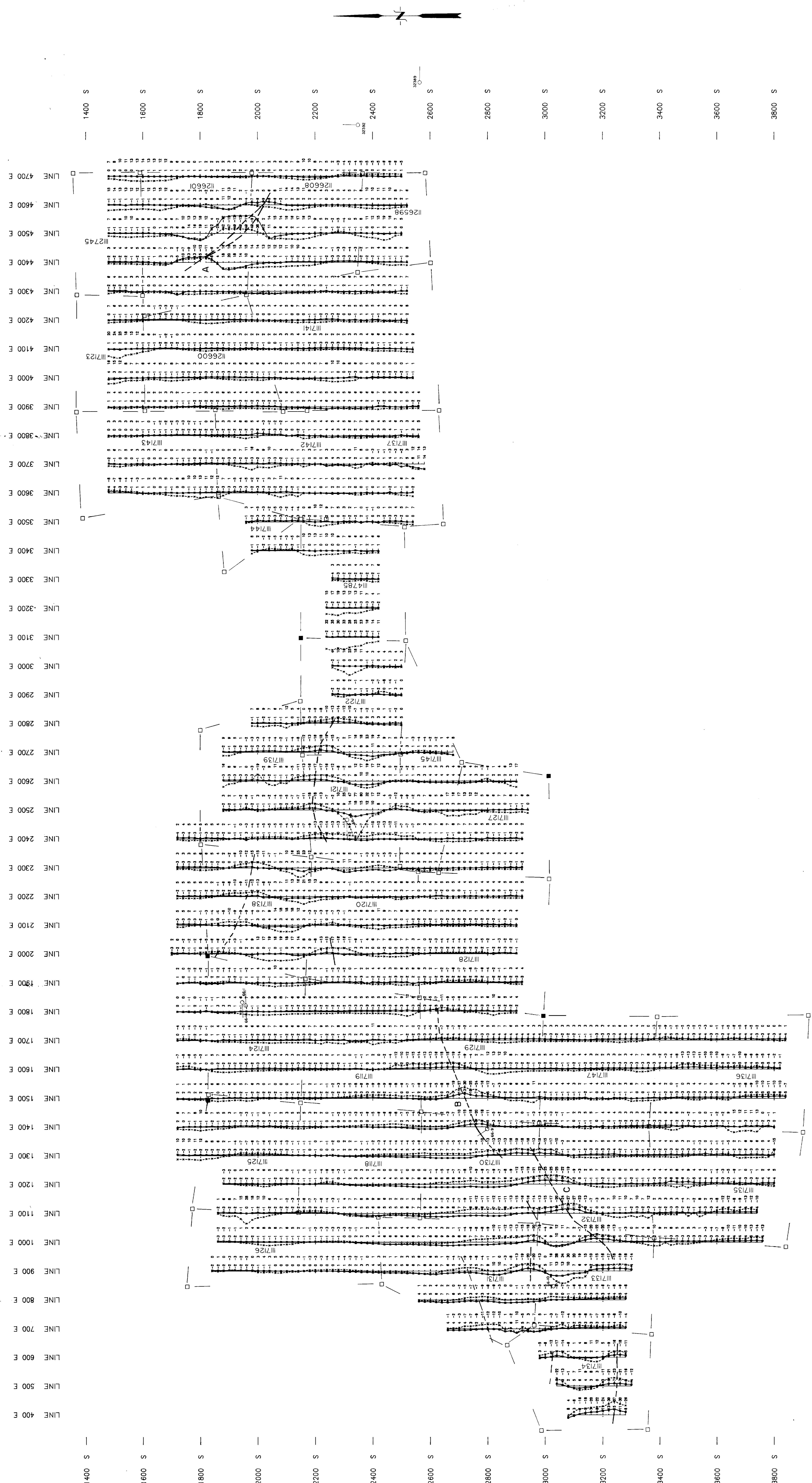
A standard linear barcode is positioned vertically on the left side of the page. It consists of vertical black bars of varying widths on a white background.

FALCONBRIDGE LIMITED	
HLEM SURVEY	
CARMAN — SHAW PROJECT	
CARMAN TOWNSHIP	PROJ# : 8183
NTS : 42-A/7	DATE : MAY 1991
SCALE : 1:5000	FILE : CARM1.HL
WORK BY :	Timmins Geophysics Ltd.

Instrument : Apex Parametric Modkin I  
 Frequency : 1777 Hz  
 Coil Separation : 160 Metres  
 Profile Scale : 1 cm = 40%  
 Clampoffs :  
 □ Unlocated  
 ■ Located  
 - - - Anomaly  
 ○ DCH



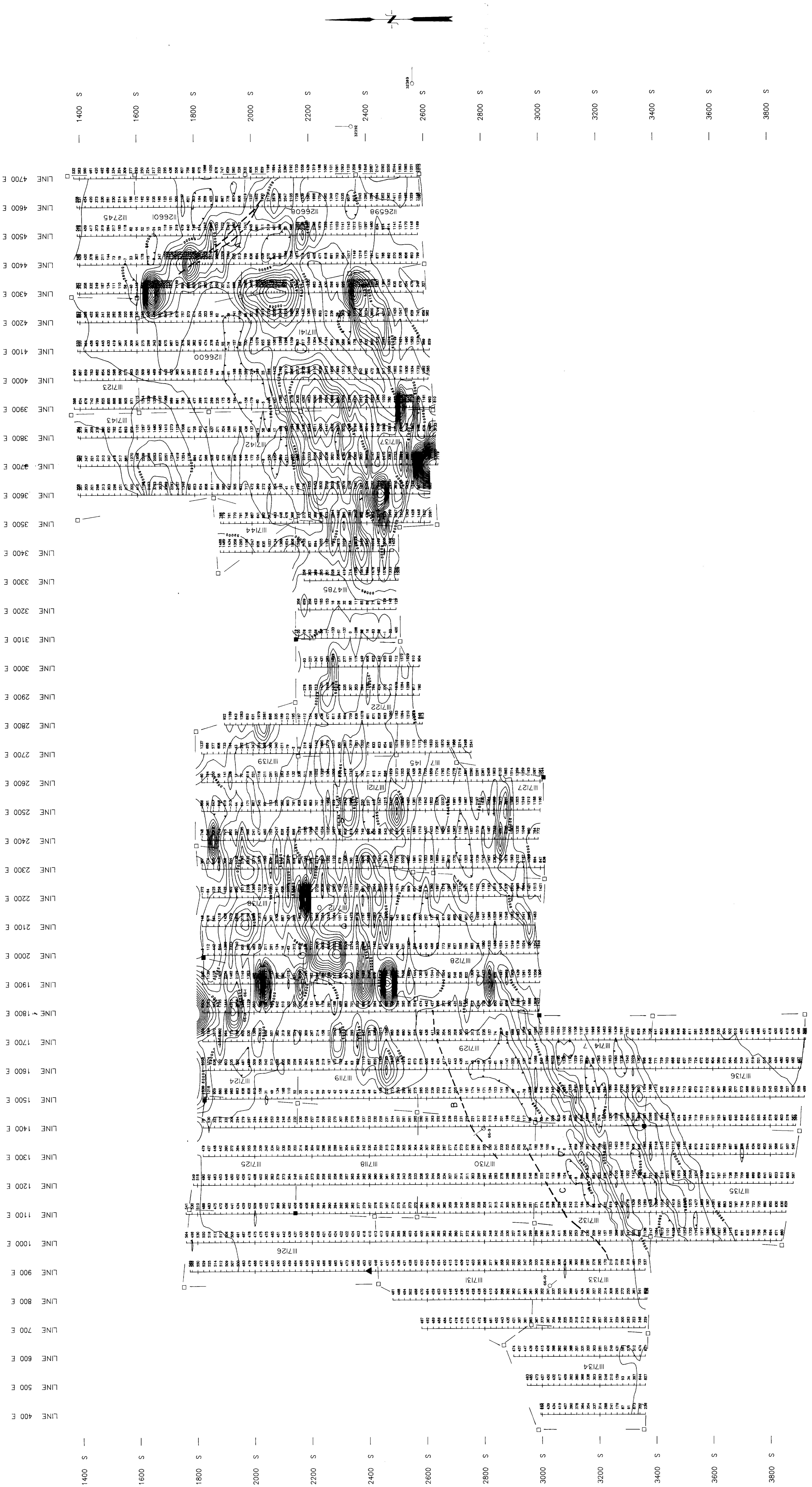
2.14130:



FALCONBRIDGE LIMITED	
MAGNETIC SURVEY	
CARMAN-SHAW PROJECT	CARMAN TOWNSHIP
NTS : 42-A/7	PROJ : 81B3
SCALE : 1:5000	DATE : MAY 1991
FILE : CARM11.MAG	WORK BY : Timmins Geophysics Ltd.

Instrument : Scientex GS-2/MP-4  
Type : Total Field Proton Precession  
Contour Interval : 500 gammas  
Datum Level : 580000 gammas

Clampsticks :  
□ Unlocated  
■ Located  
— — Anomaly (1777 Hz)  
▲ Base Station  
○ DDX



42AB9E97975-3-119 CARMAN

230