REPORT ON

GEOPHYSICAL WORK

ON

CARMAN-SHAW PROPERTY

CARMAN AND SHAW TOWNSHIPS

FOR

FALCONBRIDGE LIMITED

NTS: 42-A/6 PROJ #8183

JUNE 1989

S. TAYLOR
TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

HLEM and magnetic surveys were carried out for Falconbridge Limited over a property in Shaw and Carman Townships during April and May of 1989. The purpose of the survey was to locate possible nickel mineralization within ultramafics.

The magnetic survey mapped ultramafics at the western and northern edges of the grid. Isolated magnetic highs at the south edge of the grid map iron formation (based on previous drilling). The strike direction is north northwest in Shaw Township and changes to northwest in Carman Township.

The HLEM survey mapped eight conductive zones. Two of these zones, "F" and "H" probably represent surficial conductors. All of the other anomalies, except "A" and "G", are located at the south edge of the grid in Carman Township. Isolated magnetic relief associated with this area suggests many of these zones represent iron formation.

The most interesting anomaly is "A", even though it lies at the edge of a magnetic trough. The width averages 90 metres; the irregular profile indicates at least three individual conductors are present. The strike is north northwest to the west of Line 400 West and northwest to the east of Line 400 West. On Line 400 West, there is conductive material along a length of 380 metres, suggesting a fold along the survey line. The change in strike direction, the displacement of the anomaly position, and the change in anomaly characteristics suggest a fault at 400 West. It is recommended that the area between 400 and 800 North be surveyed on east-west lines using a short cable length (80m), to determine

the structure in this area.

The only zone located within the ultramafic sequence to the north is "G", which has been previously tested; the source was determined to be graphite. The HLEM survey indicates a very poorly conductive source which could not represent a massive sulphide deposit. Since this anomaly lies within the ultramafic sequence, a Pulse EM survey could be carried out to determine if the conductivity improves at depth.

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INTRODUCTION

Magnetic and horizontal loop EM surveys were carried out for Falconbridge Limited, over a property located in Shaw and Carman Townships during April and May of 1989.

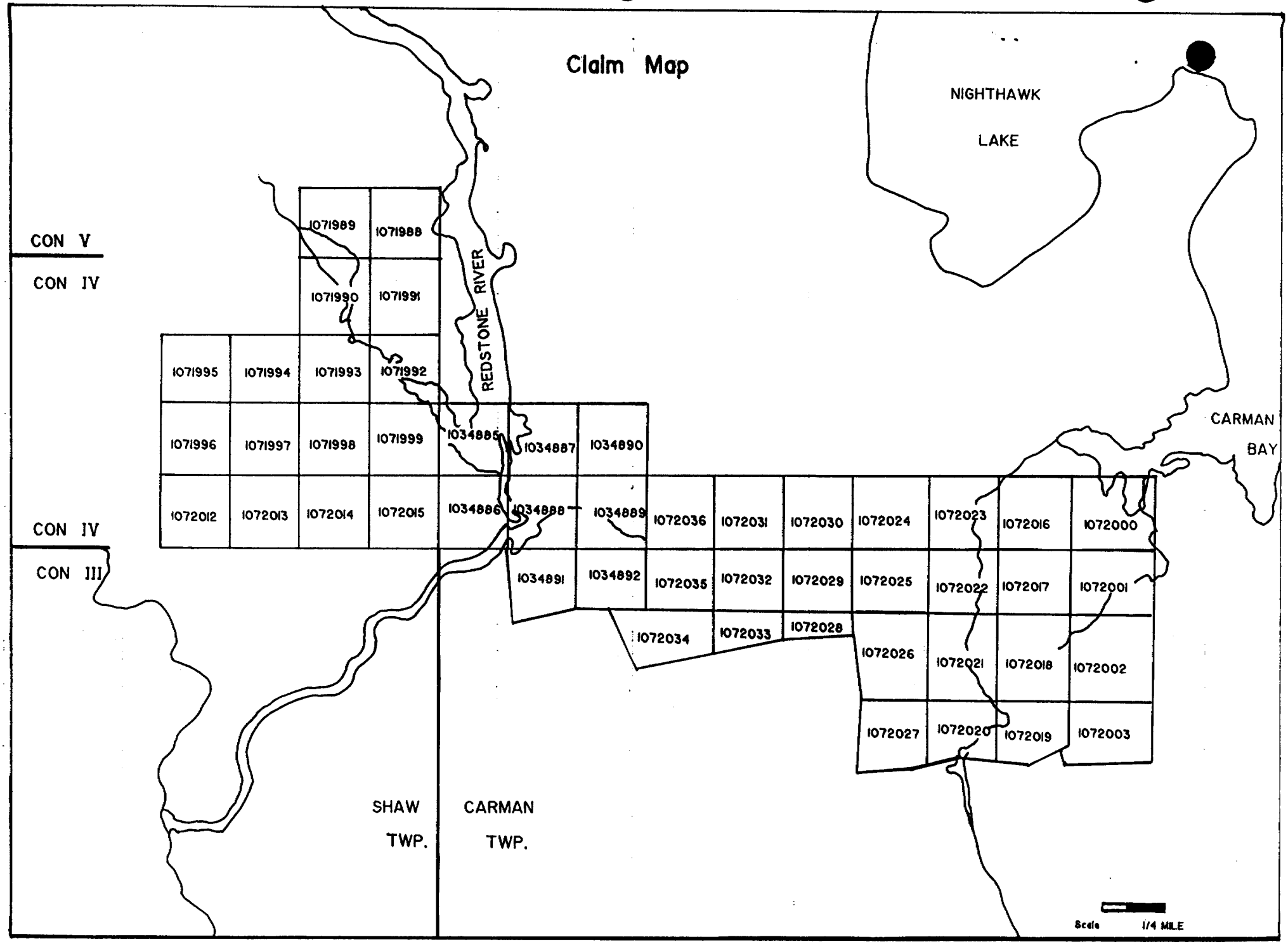
The property is situated approximately 20 km southwest of the city of Timmins, in the Porcupine Mining Division. It consists of 49 claims numbered as follows:

SHAW TOWNSHIP	P1071988 - P1071999 inclusive
	P1072012 - P1072015 inclusive
CARMAN TOWNSHIP	P1034885 - P1034892 inclusive
	P1072000 - P1072003 inclusive
	P1072016 - P1072036 inclusive

The claims in Shaw Township are located in S1/2 Concession IV, Lots 1 and 2; N1/2 Concession 1V, Lot 1, SE1/4 and SW1/4 Lot 2; S1/2 Concession V, SE1/4 and SW1/4 Lot 1. The Carman Township claims border this claim block on its eastern edge to form one continuous claim group (Figure 1).

The western edge was accessed by driving south along Langmiur Road and then turning east along a bush road just before the Redstone River bridge.

Figure : 1 Location Map



PREVIOUS WORK

Table 1 is a summary of the previous work performed on these claims. Several companies have carried out exploration work; most were searching for iron formation hosted gold deposits.

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	ASSESSMENT FILE
1946	AMSHAW PORCUPINE MINES LTD.	MAG		T-142
1946-50	KENSULL GOLD MINES LIMITED	MAG	W1-W5	T-149
1963	TREND EXPLORATION & DEVELOPMENT	MAG	D1-D3	T-715
1965	CANADIAN SUPERIOR EXPLORATION LTD.	MAG,HLEM		T-943
1965	M&M PORCUPINE GOLD MINES LTD	AIRMAG,AEM MAG,HLEM	WR-1 66-2-66-7	T-1208
1970	INCO		43285	T-1495
1980-81	HOLLINGER-ARGUS LIMITED	VLF,MAG		T-1999
1980-82	PAMOUR PORCUPINE MINES	MAG,VLF		T-2474
1984	GAIL RESOURCES LTD.	MAG,VLF		T-2862

TABLE 1: Summary of Previous Work

In 1946, Amshaw Porcupine Mines Ltd. filed geology and a magnetic survey over 51 mining claims in Shaw Township; the western claims of the present property were covered. One drill hole was put into high magnetics in search of gold in iron formation.

In 1946, Kensull Gold Mines Limited conducted a magnetic survey and followed up with five drill holes, W1-W3 in 1946, and W4 and W5 in 1950. All five holes intersected iron formation.

In 1963, Trend Exploration and Development Ltd. carried out a magnetic survey over 24 contiguous claims in Shaw Township. Three holes, D1-D3, were drilled to test magnetic trends; the holes intersected intermediate volcanics.

In 1965, Canadian Superior Exploration Ltd. conducted magnetic and horizontal loop EM surveys over several airborne anomalies in Carman Township. Only one small grid covers a portion of the present property, presently the north half of claims 1072036 and 1072031. Lines were oriented approximately 030 degrees. One anomaly was located, but no drilling was recorded. One hole C-66-1, was drilled approximately 300 metres east of the property and intersected andesite, graphitic tuff, rhyolite and sediments.

In 1965, M&M Porcupine Gold Mines Ltd. carried out airborne EM and magnetic surveys over a large claim group which covers part of Shaw and Carman Townships. Ground magnetic and EM surveys were later carried out to locate targets on the ground, and seven holes were drilled to test EM conductors. Holes 66-2 through 66-7 were targeted at magnetic and EM anomalies.

In 1970 the International Nickel Co. of Canada Ltd. drilled four holes in Shaw Township. The claim group borders the Carman Township Line and covers all the Shaw Township claims covered in this report. Only one of the four holes was

located on the present grid; basic volcanics with specks of pyrite and pyrrhotite were intersected.

In 1980, Hollinger Argus Limited conducted a VLF survey over a large claim group in Shaw Township, which include all the Shaw claims covered in this report. In 1981, a magnetic survey was conducted over the same area. Numerous conductors were located, and it was recommended that a horizontal loop EM survey be conducted over the VLF anomalies.

In 1980, Pamour Porcupine Mines conducted a magnetic survey over an eighteen claim block in Shaw Township. All claims are contained in the present survey area. In 1982, a VLF survey was carried out over the same area.

In 1984, Gail Resources Limited conducted magnetic and VLF surveys over eight claims in Carman Township. Lines were oriented east-west and covered the eight most western claims in Carman Township included in the present survey.

All drill holes mentioned above are plotted on maps 1 and 2.

SURVEY DESCRIPTIONS

An east-west baseline was established and north-south survey lines were cut at 100 metre intervals. Lines were picketed every 20 metres.

The horizontal loop EM survey was carried out with an 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 at frequencies of 444 and 1777 Hz. A 160 metre coil separation was used.

The magnetic readings were taken every 20 metres with a Scintrex IGS-2/MP-4. This instrument is a total field proton precession magnetometer with an accuracy of 0.1 gammas. The diurnal drift was monitored every 10 seconds with a Scintrex MP-3 base station magnetometer.

HLEM RESULTS

The HLEM results are plotted on maps 1 through 4 at a scale of 1:5000. The profile scale is 1 cm = 20% for 444 and 1 cm = 40% for 1777 Hz results.

The survey outlines eight anomalies, labelled "A" through "H". The strike direction varies from north northwest to northwest.

Anomaly "A" is seen on Lines 800 West to 200 East. It strikes north northwest and has an average width of 90 metres from Lines 800 to 500 West. The profile shape suggests there are at least three closely spaced conductors which form zone "A". On Line 400 West, the width is 380 metres, suggesting that the zone is either folded or faulted along this line. The strike direction changes to northwest east of Line 400 West and the width of the anomaly decreases to a maximum of 40 metres. The change in strike direction, the displacement, and change in anomaly characteristics suggest faulting. Calculations of depth and conductivity vary (Table 2). No calculations were performed on the most western lines because interference between the various conductors in the zone would give inaccurate values.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
800 W	1397 N	120	?	?	?	?	3 PEAK VALUES
700 W	1176 N	72	?	?	?	?	
600 W	997 N	96	?	?	?	?	
500 W	896 N	91	?	?	?	?	
400 W	630 N	380	?	?	?	?	
300 W	380 N	40	-3	-3	64	10	ASSUME DIP = 90
200 W	322 N	16	-10	-10	43	14	
100 W	238 N	30	-25	-5	42	123	
0	60 N (N EDGE)	?	?	?	?	?	INCOMPLETE PROFILE
100 E	60 N (N EDGE)	?	?	?	?	?	
200 E	40 N (N EDGE)	?	?	?	?	?	

Table 2: Anomaly "A", 444 Hz, 160m coil separation.

Anomaly "B" is a one line anomaly, and could be an extension of Anomaly "A". Table 3 indicates that the source is a narrow conductor at great depth.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
400 E	120 S	NARROW	-3	-3	64	10	

Table 3: Anomaly "B", 444 Hz, 160m coil separation.

Anomaly "C" is at the southern edge of the grid, and as a result, no width, depth or conductivity calculations can be made. The response is very strong, and the good in-phase to quadrature ratio indicates very good conductivity. Table 4 gives the location of the north edge of this conductor.

LINE	NORTH EDGE ANOMALY	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
700 E	320 S	?	?	?	?	?	INCOMPLETE PROFILE
800 E	340 S	?	?	?	?	?	
900 E	347 S	?	?	?	?	?	

Table 4: Anomaly "C", 444 Hz, 160m coil separation.

Anomaly "D" is only present on Line 1200 East. It is located at the southern edge of the survey area, therefore, a good interpretation is difficult. The in-phase to quadrature ratio is very good, indicating the conductor has very good conductivity thickness. Table 5 gives the anomaly location.

Hole 66-4 probably tested this conductor and found a silicified graphitic formation with up to 95% pyrite.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
1200 E	5255	?	-8	-5	69	28	INCOMPLETE PROFILE

Table 5: Anomaly "D", 444 Hz, 160m coil separation.

Anomaly "E" is a wide anomaly and represents at least three closely spaced conductors. The zone extends from Line 2400 to 2800 East, and has a strong response except on Lines 2600 and 2800 East. Anomaly "E" appears to be comprised of two highly conductive zones and one poorly conductive zone. Table

6 documents the anomaly locations, but interpretation is difficult, because of mutual interference between the three zones.

Holes 66-2 and 66-3 tested this zone. Hole 66-2 is located south of the grid and intersected sulphitic graphite. Hole 66-3 intersected andesite and basalt with disseminated sulphides.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
2400 E	838 S	67	?	?	?	?	3 PEAKS
2500 E	887 S	46	?	?	?	2 PEAKS	
2600 E	890 S	NARROW	-1	-5	?	?	TOO WEAK FOR CALCULATIONS
2700 E	940 S	157	?	?	?	?	1 WEAK, 2 STRONG PEAKS
2800 E	1090 S	60(?)	-4	-11	<16	4	2 ZONES

Table 6: Anomaly "E", 444 Hz, 160m coil separation.

Anomaly "F" is a weak zone which extends across most of the grid. It is only a 1-2% in-phase anomaly, and only the anomaly axis is located on the maps. At its western extent, the zone is discontinuous. The low in-phase to quadrature ratio indicates a poor conductor, within the range of surficial sources, but the continuity suggests a bedrock source. Table 7 gives the location and peak values of the anomaly.

Hole 66-7, drilled by M&M Porcupine Gold Mines Ltd., tested an EM conductor which is probably Anomaly "F". It intersected andesite and peridotite; no conductor was found. Anomaly "F" may be mapping the andesite-peridotite contact.

LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
0	760 N	?	-4	-5	?	?	
100 E	620 N	?	-2	-7	?	?	
200 E	460 N	?	-1	-6	?	?	
300 E	240 N	?	-2	-6	?	?	
400 E	160 N	?	-3	-7	?	?	
500 E	30 N	?	-3	-6	?	?	
600 E	10 N	?	-3	-9	?	?	
700 E	10 N	?	-3	-4	?	?	
800 E	60 N	?	-2	-3	?	?	
900 E	80 N	?	-2	-6	?	?	
1000 E	110 N	?	-2	-2	?	?	
1100 E	260 S	?	-1	-8	?	?	WEAK RESPONSES
1200 E	280 S	?	-2	-4	?	?	INACCURATE
1300 E	320 S	?	-3	-10	?	?	CALCULATIONS
1400 E	340 S	?	-4	-13	?	?	
1500 E	360 S	?	-3	-1	?	?	ALL DEPTHS ARE
1600 E	370 S	?	-3	-4	?	?	VERY SHALLOW
1700 E	450 S	?	-2	-4	?	?	
1800 E	490 S	?	-2	-5	?	?	
1900 E	420 S	?	-2	-11	?	?	
2100 E	470 S	?	-3	-9	?	?	ALL CONDUCTIVITIES
2200 E	460 S	?	-2	-12	?	?	ARE VERY LOW
2300 E	460 S	?	-4	-13	?	?	
2400 E	450 S	?	-4	-12	?	?	
2500 E	440 S	?	-2	-9	?	?	
2600 E	450 S	?	-2	-12	?	?	
2700 E	500 S	?	-1	-6	?	?	
2800 E	520 S	?	-2	-10	?	?	
2900 E	590 S	?	-1	-6	?	?	
3000 E	620 S	?	-2	-9	?	?	
3100 E	660 S	?	-3	-15	?	?	
3200 E	680 S	?	-3	-14	?	?	
3300 E	740 S	?	-2	-11	?	?	
3400 E	790 S	?	-2	-8	?	?	
3500 E	860 S	?	-3	-5	?	?	
3600 E	1000 S	?	-1	-7	?	?	
3700 E	1090 S	?	-1	-5	?	?	

Table 5: Anomaly "F", 444 Hz, 160m coil separation.

Anomaly "G" strikes northwest at the northern edge of the grid. The profiles are incomplete, but the low in-phase to quadrature ratio indicates a very poorly conductive source. Table 8 gives the location.

Hole 66-6 tested an EM conductor which probably coincides with Anomaly "G". Peridotite with occasional graphite was intersected.

ANOMALY LINE	ANOMALY CENTRE	WIDTH (M)	IP (%)	Q (%)	CONDUCTIVITY DEPTH (M)	THICKNESS (MHOS)	COMMENTS
2300 E	400 N(S EDGE)	?	?	?	?	?	INCOMPLETE PROFILE
2400 E	340 N(S EDGE)	?	-6	-16	<16	5	INCOMPLETE PROFILE
2500 E	280 N	NARROW	-3	-17	<16	2	
2600 E	240 N	?	?	?	?	?	INTERFERENCE FROM BEDROCK HIGH

Table 8: Anomaly "G", 444 Hz, 160m cable separation.

Anomaly "H" strikes northeast across Lines 2500 to 2700 East. Interference from Anomaly "G" and a bedrock high (characterized by high quadrature readings) make a width determination impossible and depth and conductivity calculations inaccurate because the peak value does not occur at the anomaly centre. The high quadrature and low in-phase values indicate a very poorly conductive source. The differing strike direction, the poor conductivity and the parallel bedrock high suggest a surficial source.

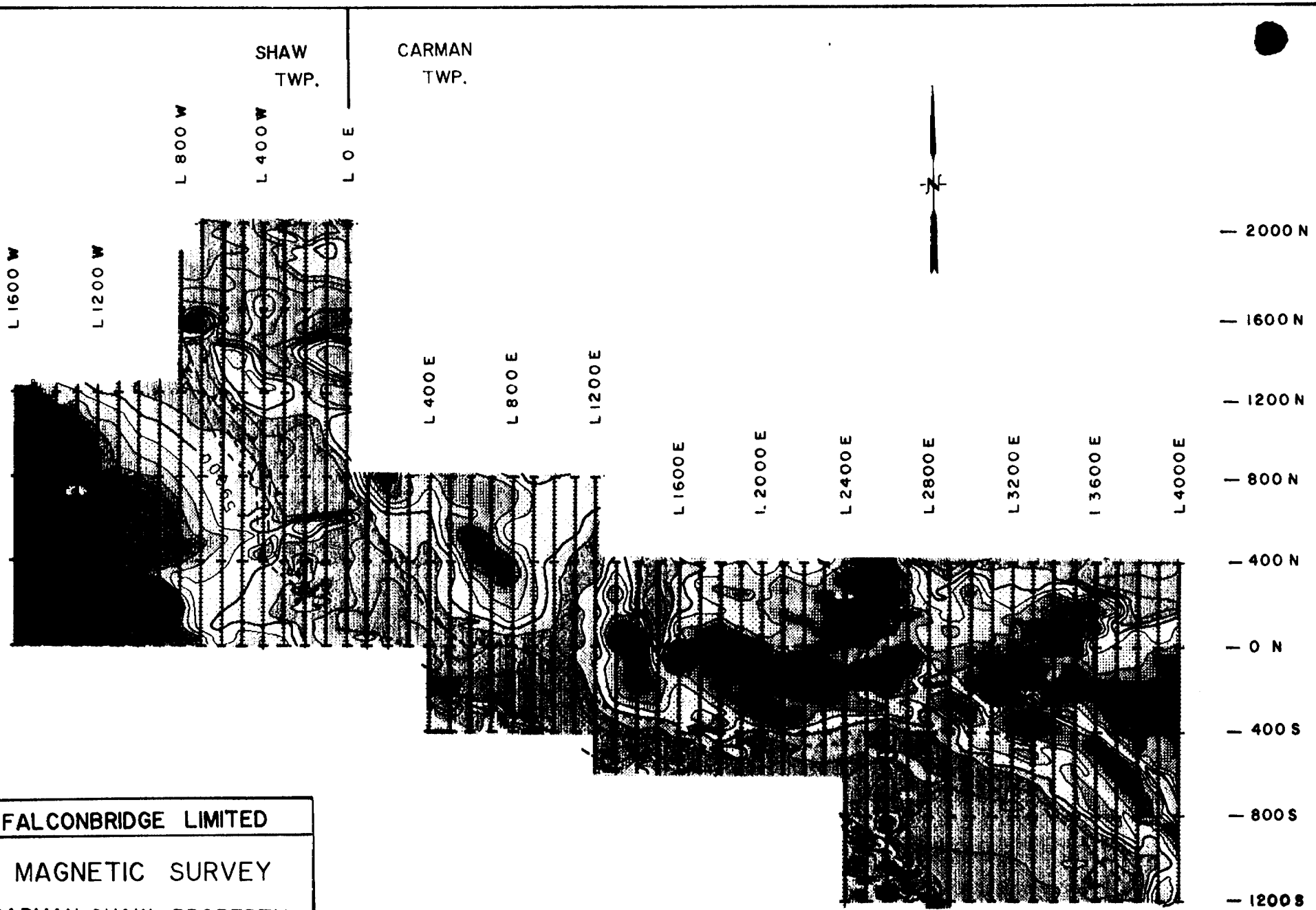
LINE	ANOMALY CENTRE	ANOMALY WIDTH (M)	IP (%)	Q (%)	DEPTH (M)	CONDUCTIVITY THICKNESS (MHOS)	COMMENTS
2500 E	0	?	?	?	?	?	PEAK NOT OVER CENTRE
2600 E	60 N	?	?	?	?	?	INTERFERENCE FROM BEDROCK HIGH
2700 E	120 N	?	?	?	?	?	QUADRATURE ANOMALY

Table 9: Anomaly "H", 444 Hz, 160m coil separation.

In addition to the anomalies mentioned above, there are a few other features on the map. A one station anomaly centered at 1020 North on Line 1400 West is a typical response over magnetite. High positive in-phase readings on Lines 1600 and 1500 West at approximately 500 North are a short cable effect, caused by hills. High positive quadrature readings, particularly on Lines 200 West to 100 East are the result of high bedrock topography. The final feature of the map to note is a change from background readings of "0" to the north, to negative background readings in the south. A northeast striking line dividing these two areas runs parallel to Anomaly "F", 100 meters to the north; the change is caused by a change in overburden depth.

MAGNETIC RESULTS

The magnetic results are plotted on Maps 5 and 6, at a scale of 1:5000. A colour image of these results at a scale of 1:25,000 is given in



FALCONBRIDGE LIMITED	
MAGNETIC SURVEY CARMAN-SHAW PROPERTY	
NTS: 42-A/6	PROJ. #8183
Scale : 1:25000	Date : APRIL 1989

Figure 2.

The general trend of the magnetic results is north northwest in Shaw Township and northwest in carman Township, with discontinuities occurring along the full length of the survey area. The high magnetic background in the northern and western portions is the result of underlying ultramafic units. Drilling in the central area showed acid and intermediate volcanics. Isolated and sporadic high relief at the southern edge of the survey area map iron formation.

Anomaly "A" lies in a magnetic trough. Anomaly "B" is within extremely low magnetics. Anomalies "C", "D" and "E" are within areas of very high sporadic magnetics. Anomaly "F" maps the contact between ultramafic units to the north and mafic units to the south. A diabase dike strikes north along Line 2600 East, which explains the change in the Anomaly "E" characteristics here. Anomaly "G" is within the highly susceptible ultramafic unit.

Shaun Taylor

S. TAYLOR

TIMMINS GEOPHYSICS LTD.

APPENDIX A

Ministry of Northern Development and Mines

Ontario

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 SHAW & CARMAN

Claim Holder(s) Falconbridge Limited

P.O.Box 1140, Timmins, Ontario 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 March 15, 1989 to July 15, 1989
(linecutting to office)

Total Miles of Line Cut 105.2 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
Geophysical	
–Electromagnetic	
–Magnetometer	
–Radiometric	
–Other	
Geological	
Geochemical	

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

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

DATE: _____ SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

SEE ATTACHED LIST

(prefix) (number)

If space insufficient, attach list

TOTAL CLAIMS 49

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 4158 Number of Readings HLEM - 3510 MAG - 4238

Station interval 20 metres Line spacing 100 metres

Profile scale HLEM 1 cm = 20% (444 Hz) - 1 cm = 40% (1777 Hz)

Contour interval MAG - 200 gammas

MAGNETIC

Instrument Scintrex IGS-1/MP-4

Accuracy – Scale constant + .1 gamma

Diurnal correction method Scintrex MP-3 Base Station Magnetometer

Base Station check-in interval (hours) 10 seconds

Base Station location and value 200 West - 1620 North

Base value 59349 gammas

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

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

LIST OF CLAIMS - CARMEN & SHAW TOWNSHIPS

P	1034885	C	P	1072012	S
P	1034886	C	P	1072013	S
P	1034887	C	P	1072014	S
P	1034888	C	P	1072015	S
P	1034889	C	P	1072016	C
P	1034890	C	P	1072017	C
P	1034891	C	P	1072018	C
P	1034892	C	P	1072019	C
P	1071988	S	P	1072020	C
P	1071989	S	P	1072021	C
P	1071990	S	P	1072022	C
P	1071991	S	P	1072023	C
P	1071992	S	P	1072024	C
P	1071993	S	P	1072025	C
P	1071994	S	P	1072026	C
P	1071995	S	P	1072027	C
P	1071996	S	P	1072028	C
P	1071997	S	P	1072029	C
P	1071998	S	P	1072030	C
P	1071999	S	P	1072031	C
P	1072000	C	P	1072032	C
P	1072001	C	P	1072033	C
P	1072002	C	P	1072034	C
P	1072003	C	P	1072035	C
			P	1072036	C

Number of Claims: 49

S- Shaw Township

C- Carmen Township

Ontario

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
880 Bay Street, 3rd Floor
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

October 6, 1989

Your File: W8906-300
Our File: 2.12627

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

Dear Sir:

Re: Notice of Intent dated August 30, 1989 for a Geophysical (Electromagnetic and Magnetometer) Survey submitted on Mining Claims P 1034885 et al in Carmen and Shaw Townships.

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,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division
Rm.
RM:eb
Enclosure

cc: Mr. G.H. Ferguson
Mining and Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Falconbridge Ltd.
571 Moneta Ave.,Box 1140
Timmins, Ontario
P4N 7H9

D. Londry
P.O. Box 1783
South Porcupine, Ontario
P0N 1H0

Ministry of Northern Development and Mines

Ont.

Technical Assessment Work Credits

File 2.12627

Date August 30, 1989

Mining Recorder's Report of Work No. W8906-300

AMENDED

Recorded Holder: FALCONBRIDGE LTD.

Township or Area: CARMEN AND SHAW TOWNSHIPS.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	P 1034885 to 892 incl.
Electromagnetic 20 days	1071988
Magnetometer 40 days	1071990 to 1072003 incl.
Radiometric ____ days	1072012 to 036 incl.
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

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

40 days Magnetometer
10 days Electromagnetic

P 1071989

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.

Ministry of Northern Development and Mines
Ontario

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

DOCUMENT No. W 8906.300

July 15

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): GEOPHYSICS	Township or Area: CARMEN - SHAW TOWNSHIPS
Claim Holder(s): Falconbridge Limited 2.12827	Prospector's Licence No.: A21647
Address: 571 Moneta Ave. Box 1140, Timmins, Ontario P4N 7H9	
Survey Company: TIMMINS Geophysics Ltd.	Date of Survey (from & to): 11 04 89 (Day Mo. Yr.) 12 05 89 (Day Mo. Yr.)
Total Miles of line Cut: 105.2 km	
Name and Address of Author (of Geo-Technical report): D. Londry, P.O.Box 1783, South Porcupine, Ontario P0n 1H0	

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	SEE				
	ATTACHED				
	LIST				

RECORDED
MAY 26 1989

RECEIVED
JUN - 1 1989
MINING LANDS SECTION

PORCUPINE MINING DIVISION
RECEIVED
MAY 26 1989

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits
Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 49

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
2940	MAY 26/89	Mining Recorder
	Date Approved as Recorded	Branch Director
	Ice	

Date: May 25, 1989
Recorded Holder or Agent (Signature): Dean MacEachern

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: Dean MacEachern 571 Moneta Ave., Box 1140, Timmins, Ontario P4N 7H9

Date Certified: May 25, 1989
Certified by (Signature): Dean MacEachern

LIST OF CLAIMS - CARMEN & SHAW TOWNSHIPS

P 1034885	C	P 1072012	S
P 1034886	C	P 1072013	S
P 1034887	C	P 1072014	S
P 1034888	C	P 1072015	S
P 1034889	C	P 1072016	C
P 1034890	C	P 1072017	C
P 1034891	C	P 1072018	C
P 1034892	C	P 1072019	C
P 1071988	S	P 1072020	C
P 1071989	S	P 1072021	C
P 1071990	S	P 1072022	C
P 1071991	S	P 1072023	C
P 1071992	S	P 1072024	C
P 1071993	S	P 1072025	C
P 1071994	S	P 1072026	C
P 1071995	S	P 1072027	C
P 1071996	S	P 1072028	C
P 1071997	S	P 1072029	C
P 1071998	S	P 1072030	C
P 1071999	S	P 1072031	C
P 1072000	C	P 1072032	C
P 1072001	C	P 1072033	C
P 1072002	C	P 1072034	C
P 1072003	C	P 1072035	C
		P 1072036	C

Number of Claims: 49

S- Shaw Township

C- Carmen Township

LIST OF CLAIMS - CARMEN & SHAW TOWNSHIPS

		MM	EM
P 1034885	C	✓	✓
P 1034886	C	✓	✓
P 1034887	C	✓	✓
P 1034888	C	✓	✓
P 1034889	C	✓	✓
P 1034890	C	✓	✓
P 1034891	C	✓	✓
P 1034892	C	✓	✓
P 1071988	S	✓	✓
P 1071989	S	✓	-½
P 1071990	S	✓	✓
P 1071991	S	✓	✓
P 1071992	S	✓	✓
P 1071993	S	✓	✓
P 1071994	S	✓	✓
P 1071995	S	✓	✓
P 1071996	S	✓	✓
P 1071997	S	✓	✓
P 1071998	S	✓	✓
P 1071999	S	✓	✓
P 1072000	C	✓	✓
P 1072001	C	✓	✓
P 1072002	C	✓	✓
P 1072003	C	✓	✓
P 1072012	S	✓	✓
P 1072013	S	✓	✓
P 1072014	S	✓	✓
P 1072015	S	✓	✓
P 1072016	C	✓	✓
P 1072017	C	✓	✓
P 1072018	C	✓	✓
P 1072019	C	✓	✓
P 1072020	C	✓	✓
P 1072021	C	✓	✓
P 1072022	C	✓	✓
P 1072023	C	✓	✓
P 1072024	C	✓	✓
P 1072025	C	✓	✓
P 1072026	C	✓	✓
P 1072027	C	✓	✓
P 1072028	C	-¼	-½
P 1072029	C	✓	✓
P 1072030	C	✓	✓
P 1072031	C	✓	✓
P 1072032	C	✓	✓
P 1072033	C	-¼	-½
P 1072034	C	-¼	-½
P 1072035	C	✓	✓
P 1072036	C	✓	✓

Number of Claims: 49

S- Shaw Township

C- Carmen Township

CARMEN-SHAW PROPERTY

NTS: 42-A/6 EAST MAP

Ministry of Northern Development and Mines

Ontario

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 SHAW & CARMAN

Claim Holder(s) Falconbridge Limited
P.O.Box 1140, Timmins, Ontario 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 March 15, 1989 to July 15, 1989
(linecutting to office)

Total Miles of Line Cut 105.2 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
Geophysical	
--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: July 21, 1989 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2.8510

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

SEE ATTACHED LIST

(prefix) (number)

If space insufficient, attach list

TOTAL CLAIMS $(49

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 4158 Number of Readings HLEM - 3510 MAG - 4238

Station interval 20 metres Line spacing 100 metres

Profile scale HLEM 1 cm = 20% (444 Hz) - 1 cm = 40% (1777 Hz)

Contour interval MAG - 200 gammas

MAGNETIC

Instrument Scintrex IGS-1/MP-4

Accuracy -- Scale constant ± .1 gamma

Diurnal correction method Scintrex MP-3 Base Station Magnetometer

Base Station check-in interval (hours) 10 seconds

Base Station location and value 200 West - 1620 North

Base value 59349 gammas

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

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 _____

MAP SYMBOLOGY

Aerial Cableway
Boundary
International
Interprovincial
District, Township, Indian Reserve
Approximate
Lot, Concession
Approximate
Park Boundary
Bridge
Road, Railroad
Building
Chimney
Cliff, Pit, Pile
Contours
Interpolated
Approximate
Depression
Control Points
Horizontal
Vertical
Culvert
Falls
Double line river
Fence, Hedge, Wall
Feature Outline (Construction features, etc.)
Flooded Land
Lock
Marsh or Swamp
Mast
Mine Head Frame
Outcrop
Pipeline (above ground)
Railroad
Single Track
Double Track
Abandoned
Turntable
Road
Highway, County, Township
Access (road of doubtful maintenance or significant driveway)
Trail, Bush Road (portage, alley)
Rapids
Double line river with multiple rapids
Reservoir
River, Stream, Canal
Rock
Shoal
Spot Elevation (base elevations) 300.0
Tower
Transmission Line
Poles
Pylons
Tunnel
Utility Poles
Wharf, Dock, Pier
Wooded Area

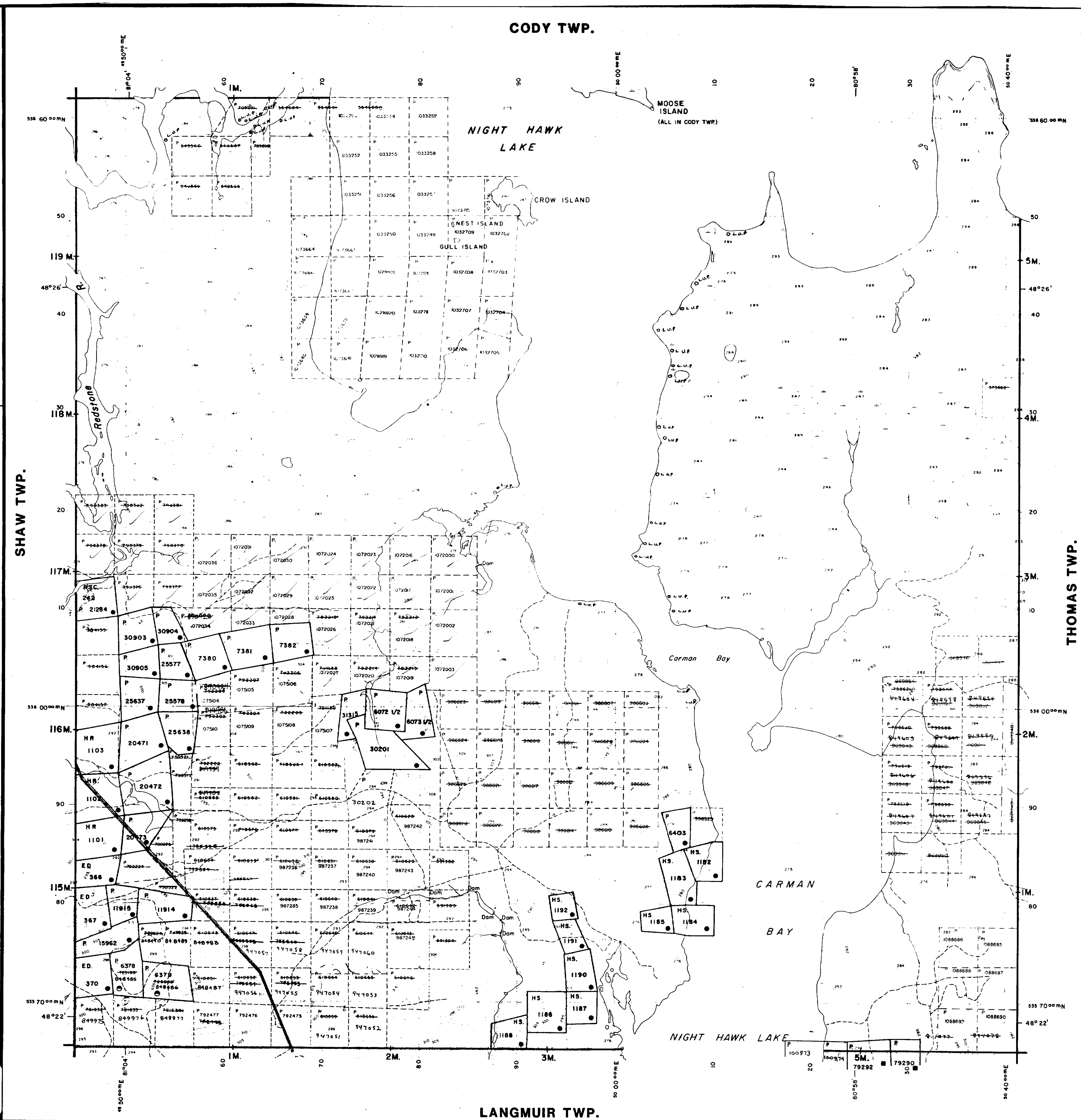
AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File

42A06NE0277 2.12627 CARMAN

200



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.

Metres 500 0 1000 Metres
Chains 10 0 10 20 30 40 50 60 70 Chains
Feet 500 0 1000 2000 3000 4000 5000 Feet

SCALE 1:20 000
GRID ZONE: 17

PORCUPINE MINING DIVISION
RECEIVED
JAN 20 1989

Rec'd Jan. 23/85

TOWNSHIP
CARMAN

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario Ministry of Natural Resources — Land Management Branch

ORIGINAL COMPILATION JULY 1984
REVISED:
Number G-4000

MAP SYMBOLOGY

Aerial Cableway
Boundary
International
Interprovincial
District, Township Indian Reserve
Approximate
Lot, Concession
Approximate
Park Boundary
Bridge
Road, Railroad
Building
Chimney
Cliff, Pit, Pile
Contours
Interpolated
Approximate
Depression
Control Points
Horizontal
Vertical
Culvert
Falls
Double line river
Fence, Hedge, Wall
Feature Outline (Construction features, etc.)
Flooded Land
Lock
Marsh or Swamp
Mast
Mine Head Frame
Outcrop

Pipeline (above ground)
Railroad
Single Track
Double Track
Abandoned
Turntable
Road
Highway, County Township
Access (road of doughtful maintenance or insignificant driveway)
Trail, Bush Road (portage, survey)
Rapids
Double line river with multiple rapids
Double line river with multiple rapids
Reservoir
River, Stream, Canal
Approximate seasonal
Direction of flow
Rock
Significant
Shoal
Spot Elevation (false elevations) -300.0
Tower
Transmission Line
Poles
Pylons
Tunnel
Utility Poles
Wharf, Dock, Pier
Wooded Area

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
R1	Rec. Purp.	Sec. 3 PLA			188543
R2		W 97/77	15/12/77	SRO.	86555
R3	~~NRO 33/85~~	~~SRO 5/86~~	~~NRO~~	~~W 7/85 NR~~	
	Reopened NRO # 40/85				

SAND AND GRAVEL

G1 GRAVEL 53666
G2 GRAVEL 68760

WHITNEY TWP.

ELDORADO TWP.

CARMAN TWP

ELDORADO 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.

500 0 1000 Metres
Chains 10 0 10 20 30 40 50 60 70 Chains
500 0 1000 2000 3000 4000 5000 Feet

SCALE 1:20 000
GRID ZONE: 17

TOWNSHIP

SHAW

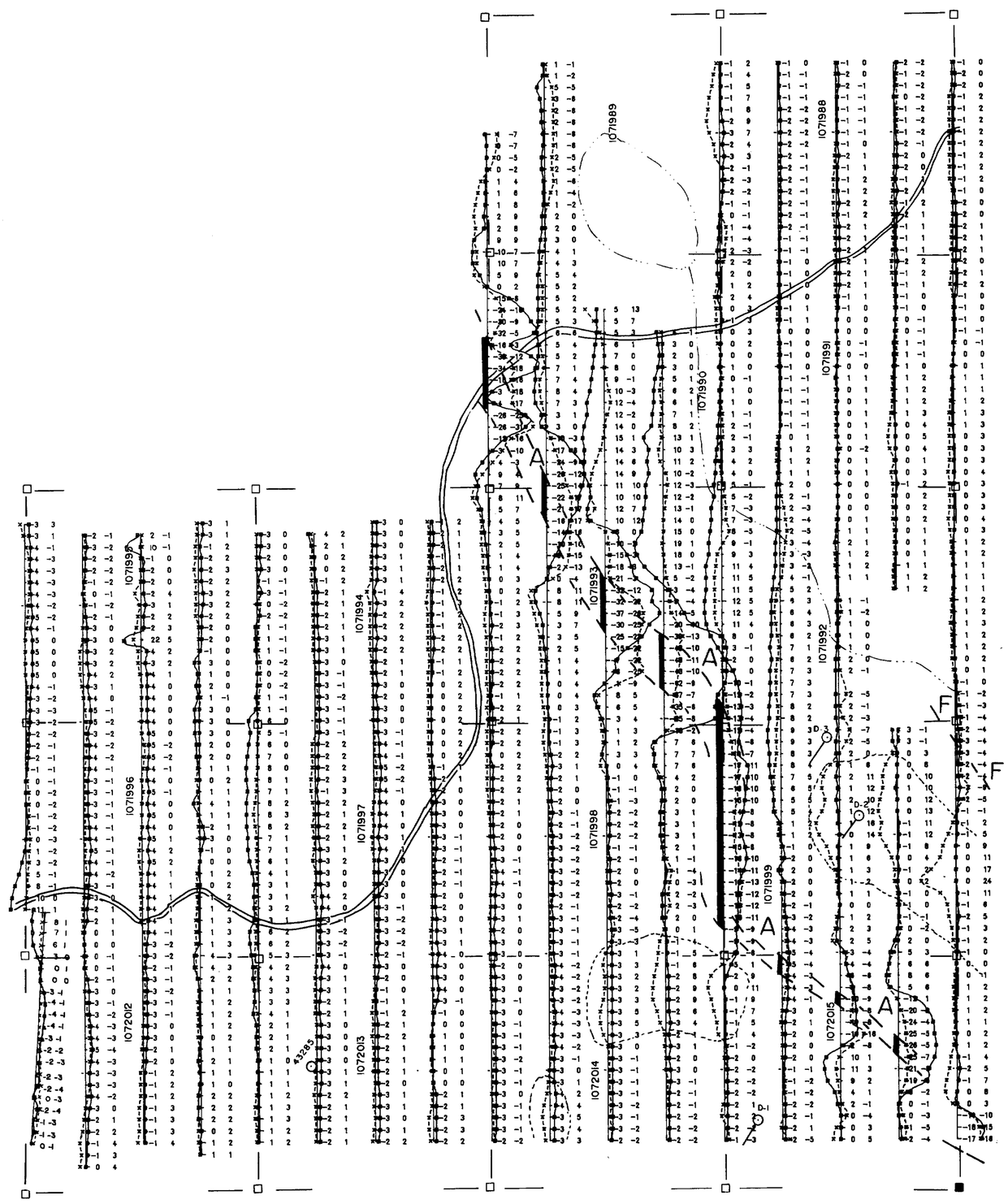
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources — Land Management Branch
Ontario

ORIGINAL COMPILATION JULY 1984
REVISED

LINE 1600 W | LINE 1500 W | LINE 1400 W | LINE 1300 W | LINE 1200 W | LINE 1100 W | LINE 1000 W | LINE 900 W | LINE 800 W | LINE 700 W | LINE 600 W | LINE 500 W | LINE 400 W | LINE 300 W | LINE 200 W | LINE 100 W | LINE 0

2000 N
1800 N
1600 N
1400 N
1200 N
1000 N
800 N
600 N
400 N
200 N
0



CON V.

CON IV

CON IV

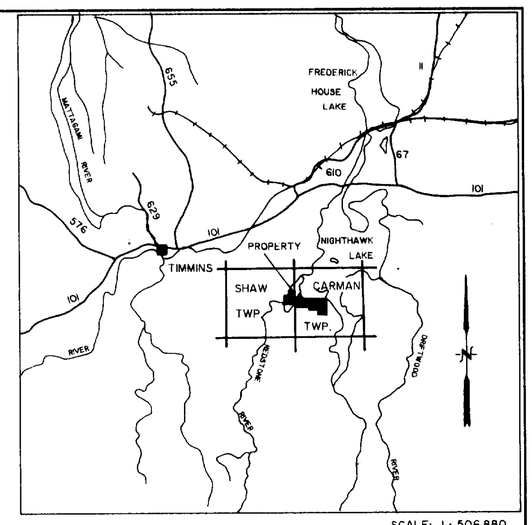
CON III

200 S
400 S
600 S
800 S
1000 S
1200 S

SHAW TWP. | CARMAN TWP.

LOT 2 | LOT 1

220



KEY MAP

SCALE: 1:506,880

N

DDH

Bedrock high area

Creek

Main Road

Anomaly

Claimposts: ■ Located

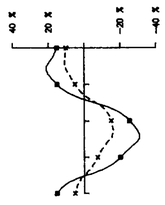
□ Approximated

Instrument : Apex Parametrics MaxMin I

Coil Separation : 160 meters

Frequency : 444 Hz

Profile Scale : 1cm = 20%



2.12627

In-phase

Quadrature

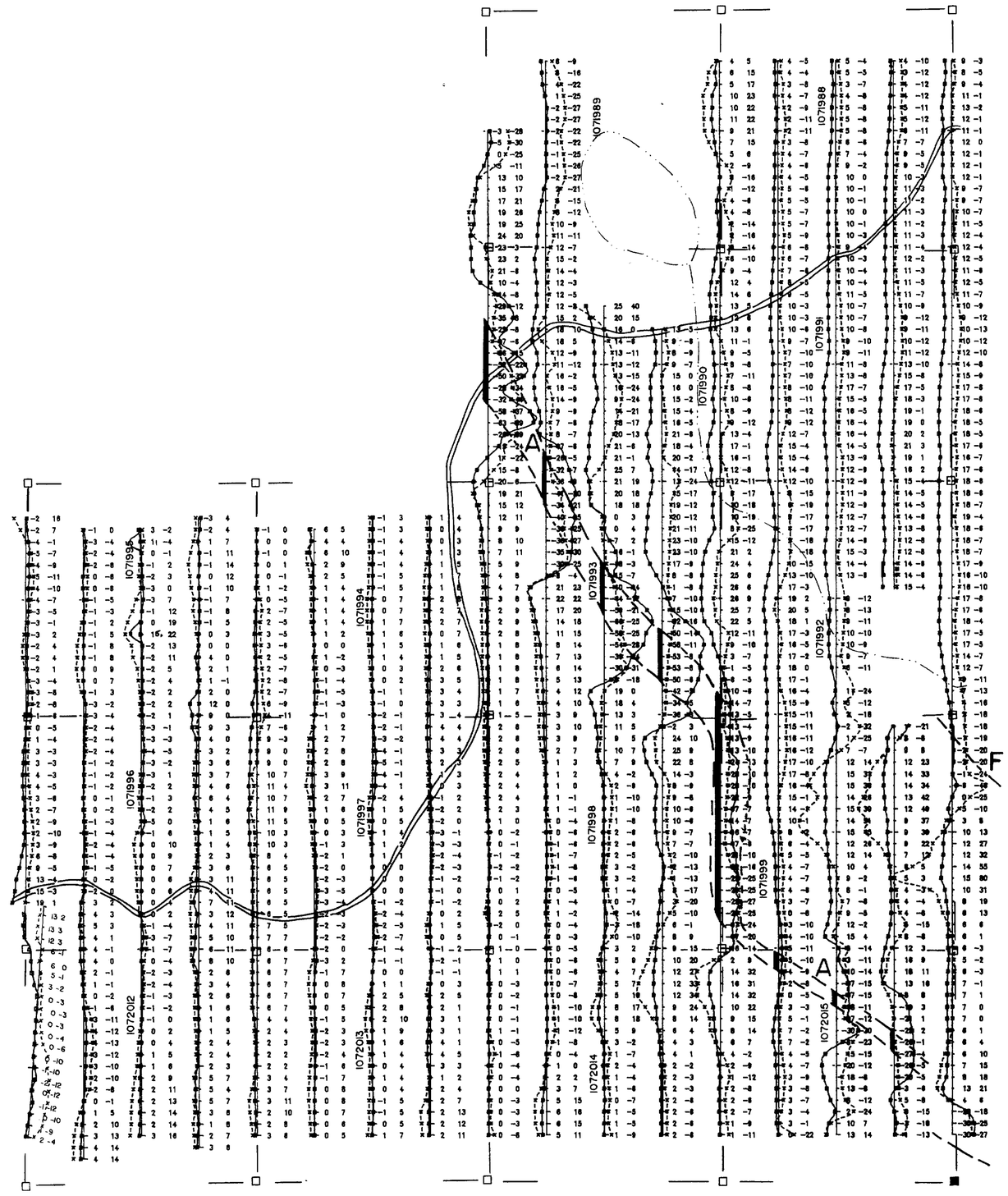
FALCONBRIDGE LIMITED	
HLEM SURVEY	
CARMAN-SHAW PROPERTY	
WEST MAP	
NTS: 42-A/6	PROJ: #8183
SCALE : 1: 5000	DATE : APRIL 1989
FILE : CARW.HL	Sharon Taylor
WORK BY : Timmins Geophysics Ltd.	

42A06NE0277 2.12627 CARMAN


FALCONBRIDGE LIMITED
HLEM SURVEY
CARMAN-SHAW PROPERTY
EAST MAP
NTS: 42-A/6
PROJ: #8183
SCALE : 1: 5000
DATE : APRIL 1989
FILE : CARE.HL
WORK BY : Timmins Geophysics Ltd.
2.12627
DDH
Bedrock high area
Creek
Anomaly
Claimposts: Located
Approximated
Instrument : Apex Parametrics MaxMin I
Coil Separation : 160 meters
Frequency : 444 Hz
Profile Scale : 1cm = 20%
In-phase
Quadrature
KEY MAP
SCALE: 1: 506,880
FREDERICK HOUSE LAKE
NIGHTHAWK LAKE
DRIFTWOOD RIVER
REDSTONE RIVER
MATTAGAMI RIVER
PROPERTY
CARMAN TWP.
SHAW TWP.
TIMMINS
LINE 4000 E
LINE 3900 E
LINE 3800 E
LINE 3700 E
LINE 3600 E
LINE 3500 E
LINE 3400 E
LINE 3300 E
LINE 3200 E
LINE 3100 E
LINE 3000 E
LINE 2900 E
LINE 2800 E
LINE 2700 E
LINE 2600 E
LINE 2500 E
LINE 2400 E
LINE 2300 E
LINE 2200 E
LINE 2100 E
LINE 2000 E
LINE 1900 E
LINE 1800 E
LINE 1700 E
LINE 1600 E
LINE 1500 E
LINE 1400 E
LINE 1300 E
LINE 1200 E
LINE 1100 E
LINE 1000 E
LINE 900 E
LINE 800 E
LINE 700 E
LINE 600 E
LINE 500 E
LINE 400 E
LINE 300 E
LINE 200 E
LINE 100 E
LINE 0
2000 N
1800 N
1600 N
1400 N
1200 N
1000 N
800 N
600 N
400 N
200 N
0
200 S
400 S
600 S
800 S
1000 S
1200 S
BEDROCK HIGH
REDSTONE RIVER
CARMAN TWP.
SHAW TWP.
230

LINE 1600 W | LINE 1500 W | LINE 1400 W | LINE 1300 W | LINE 1200 W | LINE 1100 W | LINE 1000 W | LINE 900 W | LINE 800 W | LINE 700 W | LINE 600 W | LINE 500 W | LINE 400 W | LINE 300 W | LINE 200 W | LINE 100 W | LINE 0

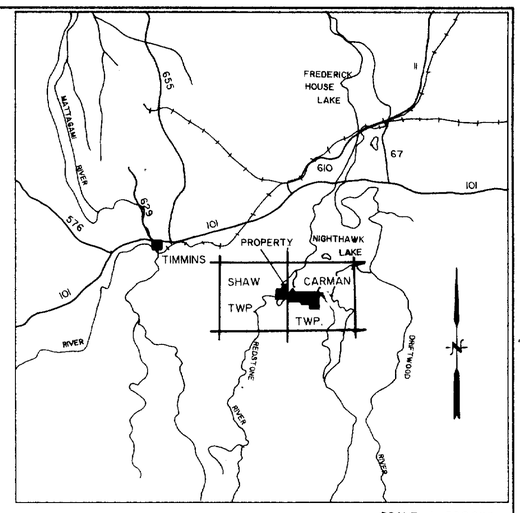
2000 N
1800 N
1600 N
1400 N
1200 N
1000 N
800 N
600 N
400 N
200 N
0
200 S
400 S
600 S
800 S
1000 S
1200 S



CON V

CON IV

CON III

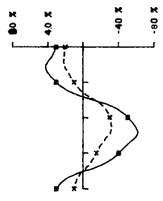


KEY MAP

SCALE: 1:506,880

Creek
Main Road
Anomaly
Claimposts: ■ Located
□ Approximated

Instrument : Apex Parametrics MaxMin I
Coil Separation : 160 meters
Frequency : 1777 Hz
Profile Scale : 1cm = 40%



2.12627

In-phase
Quadrature

SHAW TWP. | CARMAN TWP.

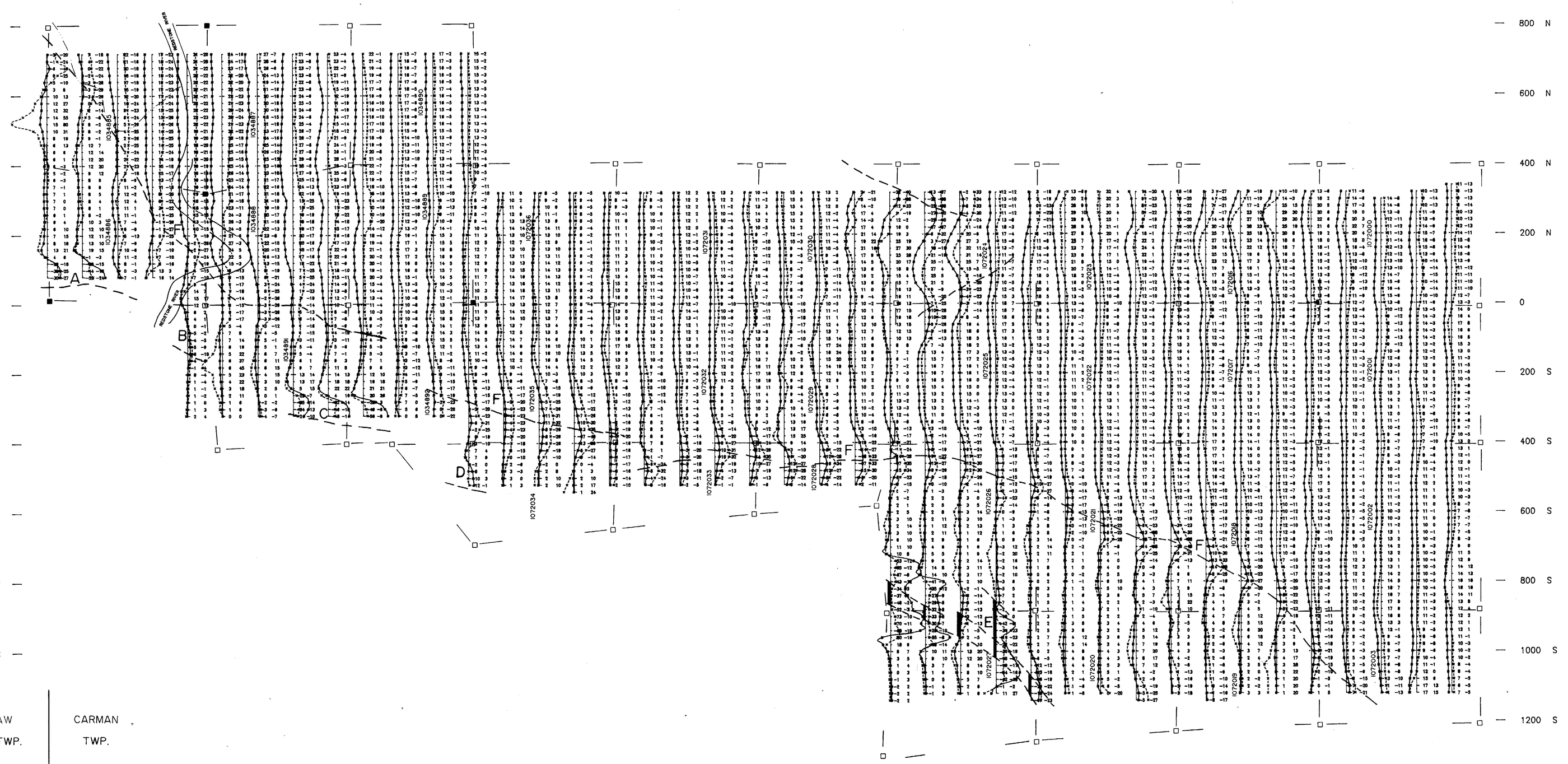
LOT 2 | LOT 1

FALCONBRIDGE LIMITED	
HLEM SURVEY	
CARMAN–SHAW PROPERTY	
WEST MAP	
NTS: 42-A/6	PROJ: #8183
SCALE : 1: 5000	DATE : APRIL 1989
FILE : CARW.HL	Shawn Taylor
WORK BY : *Timmins Geophysics Ltd.*	

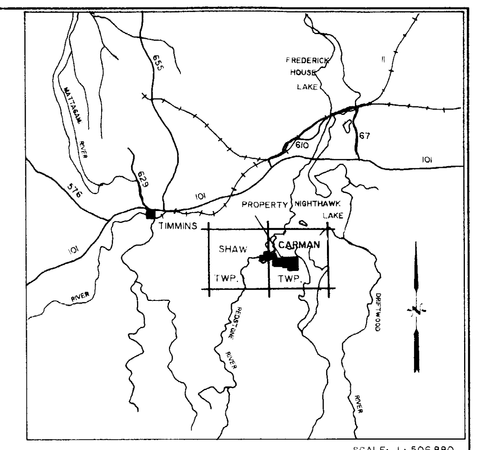
42A06NE0277 2.12627 CARMAN

LINE 0 | LINE 100 E | LINE 200 E | LINE 300 E | LINE 400 E | LINE 500 E | LINE 600 E | LINE 700 E | LINE 800 E | LINE 900 E | LINE 1000 E | LINE 1100 E | LINE 1200 E | 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 | LINE 2900 E | LINE 3000 E | LINE 3100 E | LINE 3200 E | LINE 3300 E | LINE 3400 E | LINE 3500 E | LINE 3600 E | LINE 3700 E | LINE 3800 E | LINE 3900 E | LINE 4000 E

2000 N
1800 N
1600 N
1400 N
1200 N
1000 N
800 N
600 N
400 N
200 N
0
200 S
400 S
600 S
800 S
1000 S

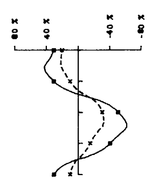


SHAW TWP. | CARMAN TWP.



Creek
Anomaly
Claimposts: ■ Located □ Approximated

Instrument : Apex Parametrics MaxMin I
Coil Separation : 160 meters
Frequency : 1777 Hz
Profile Scale : 1cm = 40%



2.12-3?
dup

In-phase
Quadrature

FALCONBRIDGE LIMITED

HLEM SURVEY

CARMAN–SHAW PROPERTY

EAST MAP

NTS: 42-A/6 PROJ: #8183

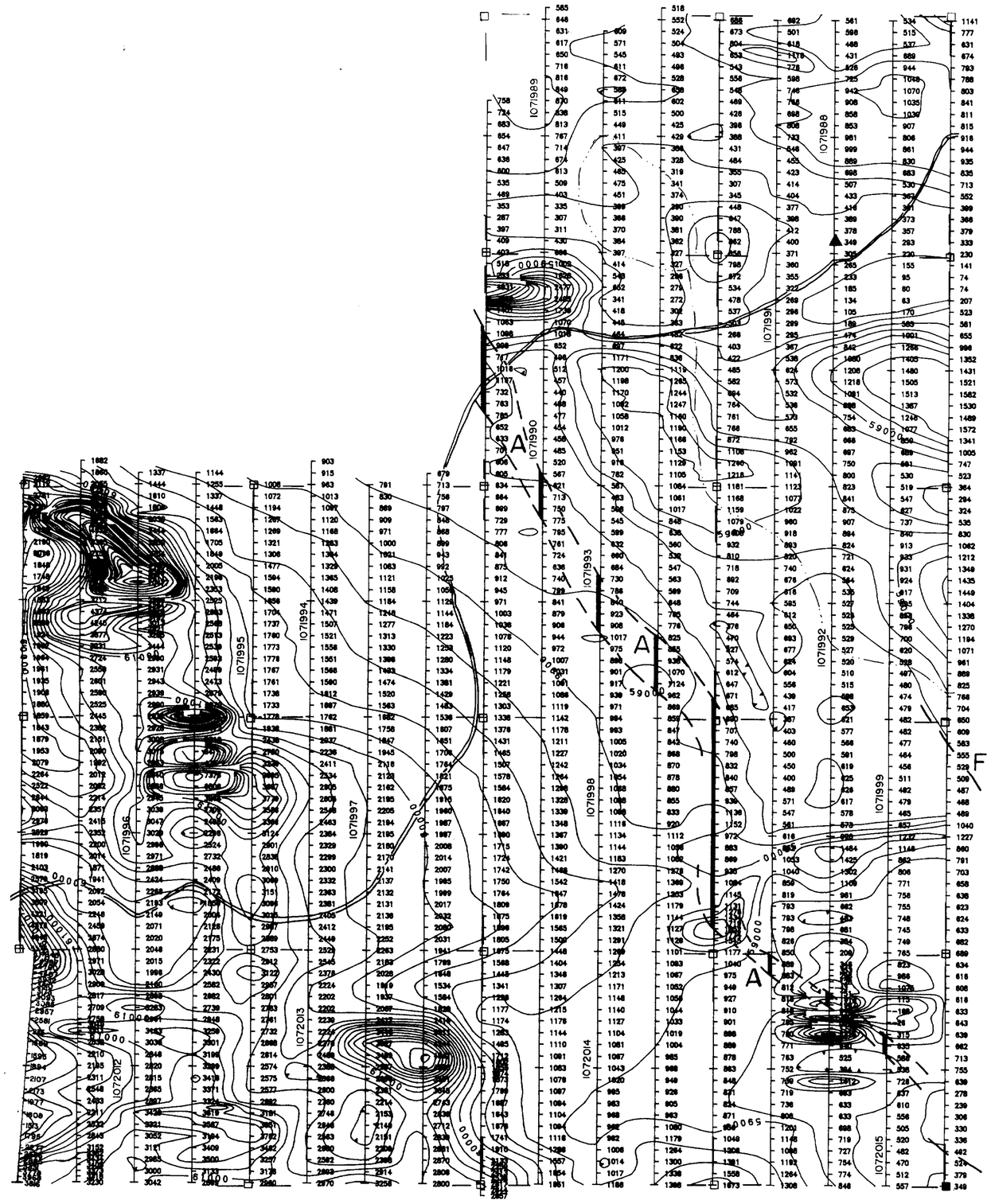
SCALE : 1: 5000 | DATE : APRIL 1989

FILE : CARE.HL | Shawn Taylor

WORK BY : *Timmins Geophysics Ltd.*

LINE 1600 W | LINE 1500 W | LINE 1400 W | LINE 1300 W | LINE 1200 W | LINE 1100 W | LINE 1000 W | LINE 900 W | LINE 800 W | LINE 700 W | LINE 600 W | LINE 500 W | LINE 400 W | LINE 300 W | LINE 200 W | LINE 100 W | LINE 0

2000 N
1800 N
1600 N
1400 N
1200 N
1000 N
800 N
600 N
400 N
200 N
0



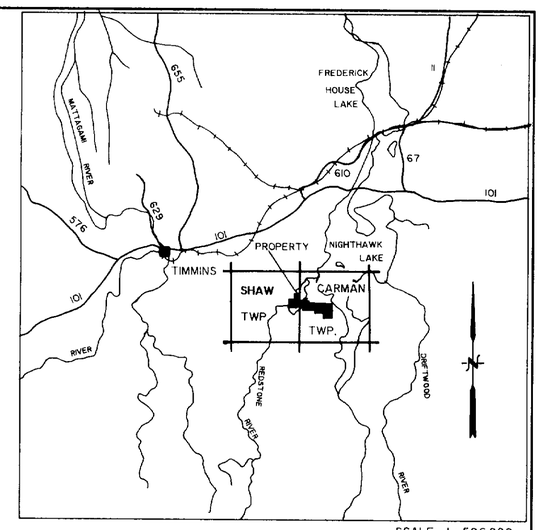
CON V

CON IV

CON III

2000 N
1800 N
1600 N
1400 N
1200 N
1000 N
800 N
600 N
400 N
200 N
0

200 S
400 S
600 S
800 S
1000 S
1200 S



KEY MAP

SCALE: 1: 506,880

HLEM Anomaly (444 Hz)
Creek
Main Road
Base Station
Claimposts: ■ Located
□ Approximated

Instrument : Scintrex IGS-2/MP-4
Type : Total Field Proton Precession
Datum Level : 58000 gammas
Contour Interval : 200 gammas

2.12627
dup

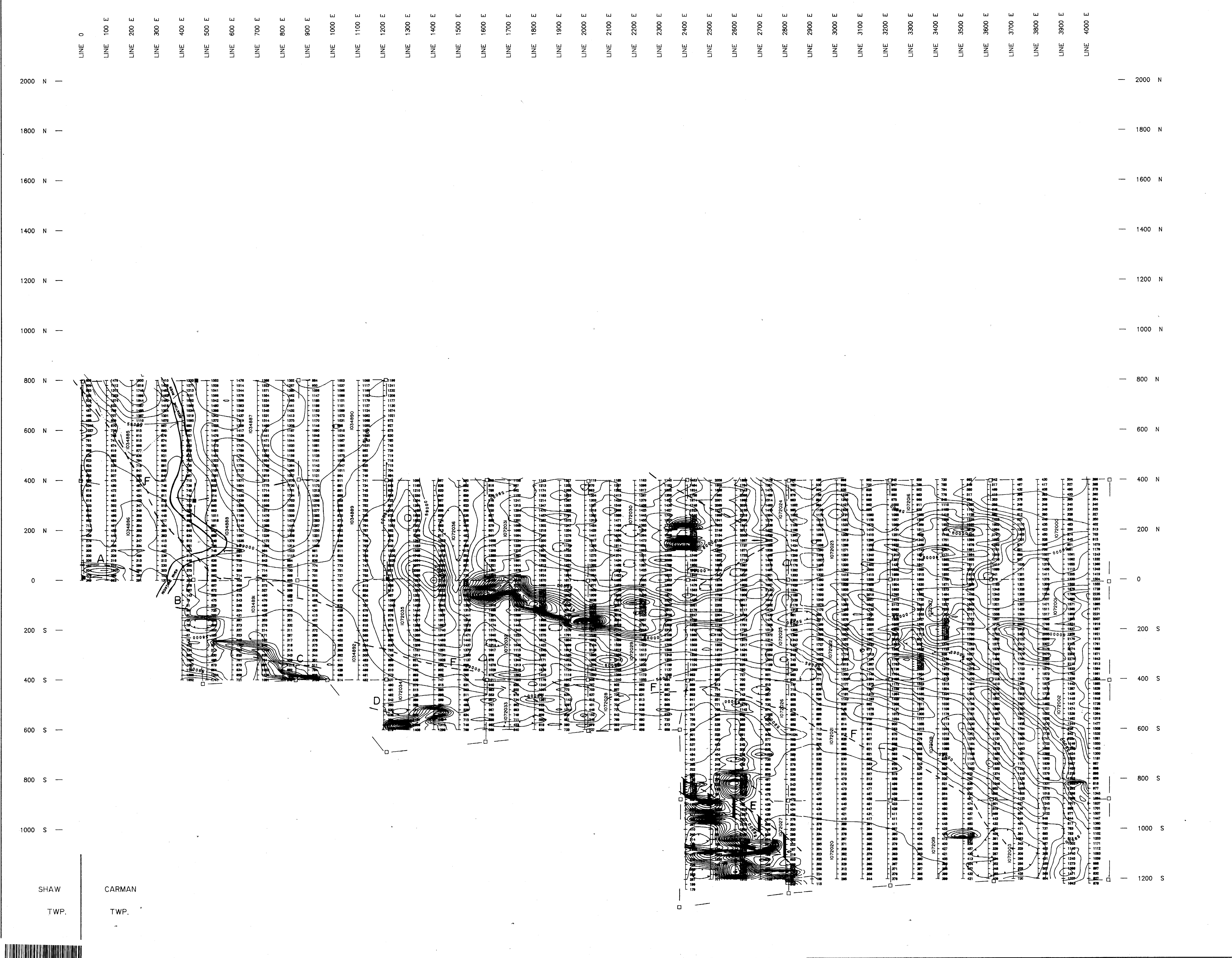
SHAW TWP. | CARMAN TWP.

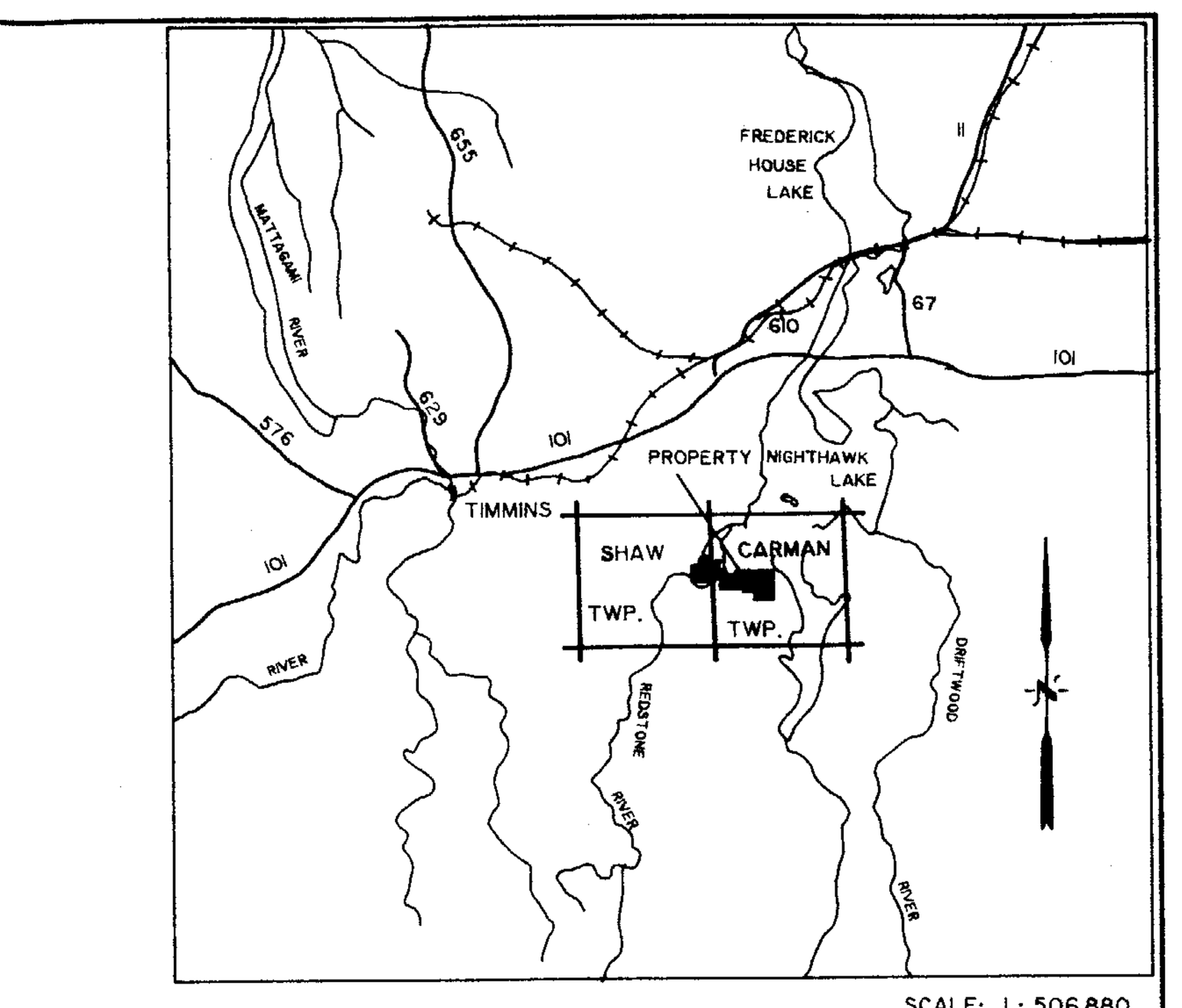
LOT 2 | LOT 1

260

42A06NE0277 2.12627 CARMAN

FALCONBRIDGE LIMITED	
MAGNETIC SURVEY	
CARMAN-SHAW PROPERTY	
WEST MAP	
NTS: 42-A/6	PROJ: #8183
SCALE : 1: 5000	DATE : APRIL 1989
FILE : CARW.MAG	Shawn Taylor
WORK BY : Timmins Geophysics Ltd.	





KEY MAP SCALE: 1 : 506,880

Creek

HLEM Anomaly (444 Hz)

Claimposts: ■ Located

□ Approximated

Instrument : Scintrex IGS-2/MP-4

Type : Total Field Proton Precession

Datum Level : 58000 gammas

Contour Interval : 200 gammas

2.12627 dup

FALCONBRIDGE LIMITED

MAGNETIC SURVEY

CARMAN–SHAW PROPERTY

EAST MAP

NTS: 42-A/6	PROJ: #8183
SCALE : 1: 5000	DATE : APRIL 1989.
FILE : care.mag	Shawn Taylor
WORK BY :	*Timmins Geophysics Ltd.*

270

42A06NE0277 2.12627 CARMAN