

42406NE0277 2.12627 CARMAN

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REPORT ON

GEOPHYSICAL WORK

ON

CARMAN-SHAW PROPERTY

CARMAN AND SHAW TOWNSHIPS

FOR

FALCONBRIDGE LIMITED

NTS: 42-A/6

PROJ #8183

RECEIVED

JUL 24 1989

MINING LANDS SECTION

S. TAYLOR TIMMINS GEOPHYSICS LTD.

JUNE 1989

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SUMMARY AND RECOMMENDATIONS

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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.

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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

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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.

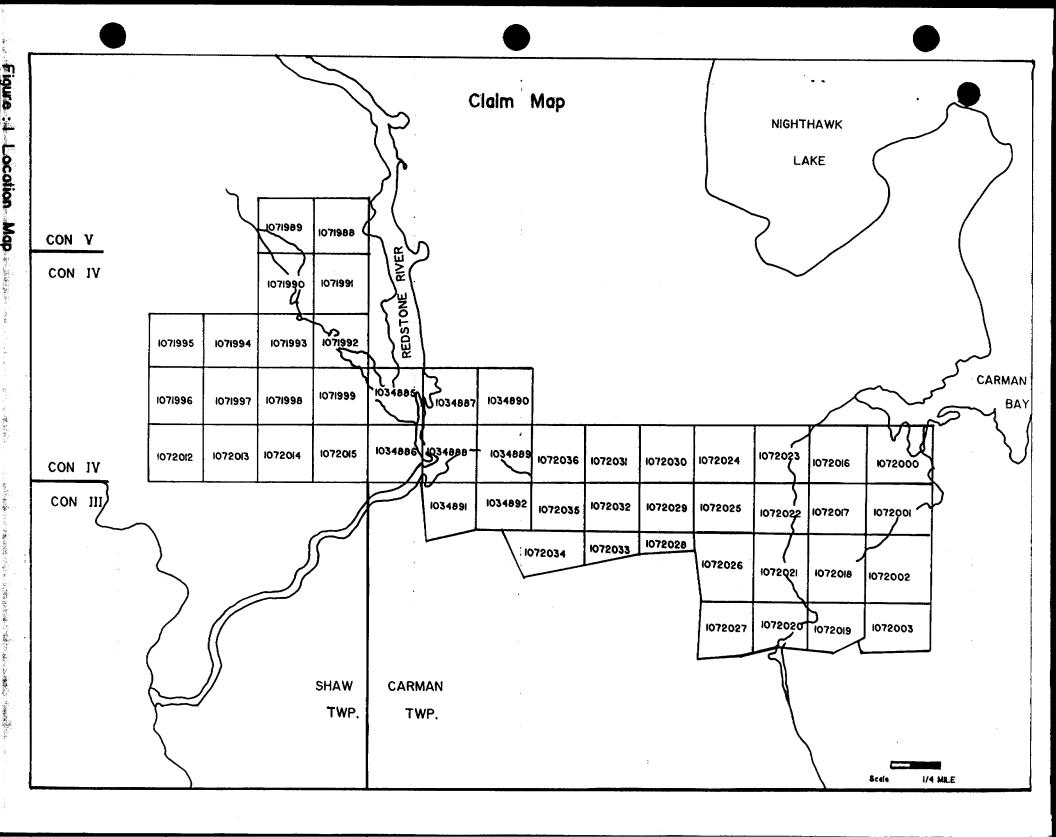
The property is situated approximately 20 km southwest of the city of Timmins, in the Porcupine Mining Division. It consists of 49 claims numbered as follows:

| 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.



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.

| COMPANY | GBOPHYSICS | DRILL Holbs | ASSESSMENT FILE |
|------------------------------------|---|--|--|
| AMSHAW PORCUPINE MINES LTD. | MAG | | T-142 |
| KENSULL GOLD MINES LIMITED | MAC | W1-W5 | T-149 |
| TREND BXPLORATION & DBVBLOPMENT | MAG | D1-D3 | T-715 |
| CANADIAN SUPERIOR EXPLORATION LTD. | MAC, HLBM | | T-943 |
| M&M PORCUPINE GOLD MINES LTD | AIRMAG, ABN Mag, Hlbm | WR-1 66-2-66-7 | T-1208 |
| INCO | | (3285 | T-1495 |
| HOLLINGER-ARGUS LIMITED | VLP, NAG | | T- 1999 |
| PANOUR PORCUPINE NINES | NAG, VLF | | T-2474 |
| GATL RESOURCES LTD. | NAG, VLF | | T-2862 |
| | AMSHAW PORCUPINE MINES LTD. KENSULL GOLD MINES LIMITED TREND EXPLORATION & DEVELOPMENT CANADIAN SUPERIOR EXPLORATION LTD. M&M PORCUPINE GOLD MINES LTD INCO HOLLINGER-ARGUS LIMITED PAMOUR PORCUPINE MINES | ANSHAW PORCUPINE MINES LTD. MAG KENSULL GOLD MINES LIMITED NAG TREND EXPLORATION & DEVELOPMENT HAG CANADIAN SUPERIOR EXPLORATION LTD. MAG, HLEM MAN PORCUPINE GOLD MINES LTD AIRMAG, AEM INCO VLP, NAG PANOUR PORCUPINE MINES NAG, VLF | COMPANYGBOPHYSICSHOLESAMSHAW PORCUPINE MINES LTD.MAGMI-W5KENSULL GOLD MINES LIMITEDMAGW1-W5TREND EXPLORATION & DEVELOPMENTMAGD1-D3CANADIAN SUPERIOR EXPLORATION LTD.MAG, HLEMM&M PORCUPINE GOLD MINES LTDAIRMAG, AEH MAG, HLEMWR-1 66-2-66-7INCO43285HOLLINGER-ARGUS LIMITEDVLP, MAGPANOUR PORCUPINE MINESMAG, VLP |

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.

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計載

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

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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

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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.

| LINB | ANON/ CBNT | | ANOMALY WIDTH (H) | IP (%) | Q (X) | DBPTH (M) | CONDUCTIVITY THICKNBSS (MHOS) | CONNENTS |
|-------|---------------|-------|-------------------------|-----------|----------|--------------|-------------------------------------|-------------------|
| 800 W | 1397 | N | 120 | ? | ? | ? | ? | 3 PBAR 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 PROFIL |
| 100 B | 60 N (N | EDGE) | ? | ? | ? | ? | ? | |
| 200 B | 40 N (N | | ? | ? | ? | ? | ? | |

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

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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.

| LINB | ANOMALY CBNTRB | ANOMALY WIDTH (M) | 1P (%) | Q (%) | DBPTH (N) | CONDUCTIVITY THICENESS (NHOS) | Comments |
|-------|-------------------|-------------------------|-----------|----------|--------------|-------------------------------------|----------|
| 400 B | 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.

| LINB | NORTH BDGB ANOMALY | ANOMALY WIDTH (M) | 1P (%) | Q (X) | DBPTH (M) | CONDUCTIVITY THICKNBSS (MHOS) | CONNENTS |
|-------|-----------------------|-------------------------|-----------|----------|--------------|-------------------------------------|------------------|
| 700 B | 320 S | ? | ? | ? | ? | ? | INCOMPLETE PROFI |
| 800 E | 340 S | ? | ? | ? | ? | ? | |
| 900 B | 347 S | ? | ? | ? | ? | ? | |

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

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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.

| LINB | ANONALY CENTRE | ANOMALY WIDTH (M) | IP (%) | Q (X) | DBPTH (M) | CONDUCTIVITY THICENESS (MHOS) | CONNENTS |
|--------|-------------------|-------------------------|-----------|----------|--------------|-------------------------------------|-------------------|
| 1200 E | 5255 | ? | -8 | - 5 | 69 | 28 | INCOMPLETE PROFIL |

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.

| CONNENTS | CONDUCTIVITY THICENESS (MHOS) | DBPTH (M) | Q (X) | IP (%) | ANOMALY WIDTH (M) | ANOMALY CENTRE | JINB |
|------------------------------|-------------------------------------|--------------|----------|-----------|-------------------------|-------------------|--------|
| 3 PBAKS | ? | ? | ? | ? | 67 | 838 S | 2400 B |
| | 2 PBARS | ? | ? | ? | 46 | 887 S | 2500 B |
| TOO WBAK FOR Calculations | ? | ? | - 5 | -1 | NARROW | 890 S | 2600 B |
| WBAK, 2 STRONG PBA | ? 1 | ? | ? | ? | 157 | 940 S | 2700 B |
| 2 ZONBS | 4 | (16 | -11 | -4 | 60(?) | 1090 S | 2800 E |

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

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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.

| LINB | ANONALY CBNTRB | ANOMALY WIDTH (M) | 1P (%) | Q (X) | (N) (N) | CONDUCTIVITY THICENBSS (NHOS) | CONNENTS |
|------------------|-------------------|-------------------------|-----------|-------------|------------|-------------------------------------|--------------------|
| 0 | 760 N | ? | -4 | -5 | ? | ? | |
| 100 B | 620 N | ? | - 2 | -1 | ? | ? | |
| 200 B | 460 N | ? | -1 | - 6 | ? | ? | |
| 300 B | 240 N | ? | - 2 | -6 | ? | ? | |
| 400 B | 160 N | ? | - 3 | -7 | ? | ? | |
| 500 B | 30 N | ? | - 3 | - 6 | ? | ? | |
| 600 B | 10 N | ? | - 3 | -9 | ? | ? | |
| 700 E | 10 N | ? | - 3 | -4 | ? | ? | |
| 800 B | 60 N | ? | -2 | - 3 | ? | ? | |
| 900 B | 80 N | ? | -2 | - 6 | ? | ? | |
| 1000 B | 110 N | ? | -2 | -2 | ? | ? | |
| 1100 E | 260 S | ? | -1 | -8 | ? | , | WBAR RESPONSES |
| 1200 B | 280 S | ? | -2 | -4 | ? | ? | INACCURATE |
| 1300 B | 320 S | ? | - 3 | -10 | ? | , ? | CALCULATIONS |
| 1400 B | 340 S | , , | -4 | -13 | ? | , , | ORDOODATIOND |
| 1500 B | 360 S | 2 | -3 | -1 | 2 | , , | ALL DBPTHS ARE |
| 1600 B | 370 S | ; ? | -3 | -4 | : 9 | : 7 | VBRY SHALLOW |
| 1700 E | 450 S | ? | -2 | -4 | ; ? | 2 | VDB1 DIKDDOW |
| 1800 B | 490 S | , ? | -2 | -5 | ? | 2 | |
| 1900 B | 420 S | ÷ 2 | -2 | -11 | : ? | ; ? | |
| 2100 B | 470 S | ; | - 3 | -9 | : ? | ; ? | ALL CONDUCTIVITIES |
| 2200 E | 460 S | ; ? | -3 | - J - 12 | : | ; | ARE VERY LOW |
| 2300 E | 460 S 460 S | ? | -4 | -12 | : ? | 2 | WER ARE TOM |
| 2300 E 2400 E | 400 S 450 S | ? | -4 | -13 -12 | : ? | : ? | |
| 2500 B | 430 S | ? | -4 -2 | -9 | : 0 | : . | |
| 2500 E 2600 E | 440 S 450 S | ? | -2 | | : | : 0 | |
| 2700 E | 430 S 500 S | : ? | -2 | -12 -6 | : | : > | |
| 2800 E | 500 S 520 S | : ? | -1 -2 | | : 9 | : | |
| 2900 E | 520 S | : ? | -2 | -10 -6 | : . | : | |
| 2900 E 3000 E | 620 S | ? | -1 | -0 -9 | : 2 | : , | |
| | | ? | | | : ? | : ? | |
| 3100 B | 680 S | : | -3 | -15 | : 0 | : | |
| 3200 B | 680 S | : 0 | - 3 | -14 | : 9 | : • | |
| 3300 B | 740 S | 1 | -2 | -11 | ! 9 | | |
| 3400 B | 790 S | : | - 2 | -8 | : | ! | |
| 3500 B | 860 S | ? | - 3 | -5 | ? | ? | |
| 3600 B | 1000 S | ? | -1 | -1 | 7 | ? | |
| 3700 B | 1090 S | ? | -1 | -5 | ? | ? | |

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

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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 | ANOWALY | | CONDUCTIVITY | | | | | | |
|---------|---------------|--------------|--------------|-----|--------------|---------------------|-----------------------------------|--|--|
| LINB | CENTRE | WIDTH (M) | IP (%) | (X) | DBPTH (N) | THICKNBSS (MHOS) | COMMENTS | | |
| 2300 B | 400 N(S EDGE) | ? | ? | ? | ? | ? | INCOMPLETE PROFILE | | |
| 2400 B | 340 N(S BDGB) | ? | -6 | -16 | (16 | 5 | INCOMPLETE PROFILE | | |
| 2500 B | 280 N | NARROW | - 3 | -17 | <16 | 2 | | | |
| 2600 B | 240 N | ? | ? | ? | ? | ? | INTERFERENCE FROM BEDROCK HIGH | | |

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

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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.

| LINB | ANOMALY CBNTRB | ANOMALY WIDTH (M) | IP (%) | 9 (X) | DBPTH (M) | CONDUCTIVITY THICENBSS (MHOS) | COMMENTS |
|--------|-------------------|-------------------------|-----------|----------|--------------|-------------------------------------|-----------------------------------|
| 2500 B | 0 | ? | ? | ? | ? | ? | PRAK NOT OVER CENTRE |
| 2600 E | 60 N | ? | ? | ? | ? | ? | INTERFERENCE FROM BEDROCK HIGH |
| 2700 B | 120 N | ? | ? | ? | ? | ? | QUADRATURE ANONALY |

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

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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

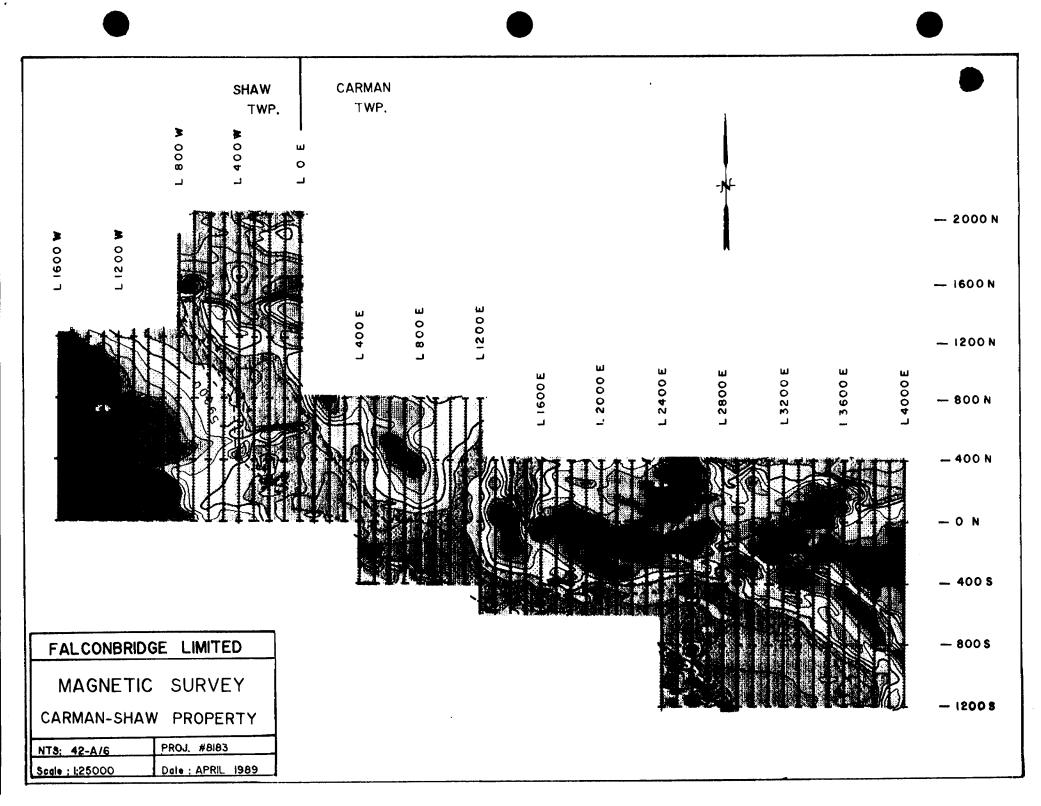


Figure 2.

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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.

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TIMMINS GEOPHYSICS LTD.

APPENDIX A

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Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

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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 | - MINING CLAIMS TRAVERSED |
| Claim Holder(s)Falconbridge Limited | List numerically |
| P.O.Box 1140, Timmins, Ontario P4N 7H9 | - |
| Survey Company Timmins Geophysics Ltd. | SEE ATTACHED LIST (prefix) (number) |
| Author of Report Sharon Taylor | - |
| Address of Author P.O. Box 1783, South Porcupine, Ont. POL | N |
| Covering Dates of Survey March 15, 1989 to July 15, 1989 ^{1H0} (linecutting to office) | - |
| Total Miles of Line Cut 105.2 km | |
| | |
| SPECIAL PROVISIONSDAYSCREDITS REQUESTEDGeophysical | |
| ENTER 40 days (includesElectromagnetic | |
| inte cutting for inst | |
| survey. –Radiometric ENTER 20 days for each –Other | |
| additional survey using Geological | |
| same grid. Geochemical | |
| AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) | ч |
| Magnetometer Electromagnetic Radiometric | |
| (enter days per claim) | - |
| DATE: SIGNATURE: | |
| Author of Report or Agent | - |
| | - |
| | · · · · · · · · · · · · · · · · · · · |
| Res. GeolQualifications | - |
| Previous Surveys File No. Type Date Claim Holder | |
| | ٦ |
| | |
| 1 | |
| | |
| | |
| | |
| + | TOTAL CLAIMS49 |
| | |

GEOPHYSICAL TECHNICAL DATA

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the same man in the weather and

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n are street in n

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| GRUE D SURVEYS If more than one survey, specify | data for each type of survey | |
|--|--|---------------------------------------|
| Number of Stations 4158 | HLE Number of ReadingsMAG | M - 3510 - 4238 |
| Station interval 20 metres | | |
| Profile scale | • • | |
| Contour interval <u>MAG - 200 gammas</u> | | |
| , | | |
| Instrument | ···· ·· · | · · · · |
| Accuracy - Scale constant 1 gamma | | |
| Accuracy – Scale constant <u>+ .1 gamma</u> Diurnal correction method <u>Scintrex MP-3 Base</u> Base Station check-in interval (hours) <u>10 secon</u> | Station Magnetometer | ····· |
| Diurnal correction method 10 secon | ds | |
| Base Station check-in interval (hours) 10 secon | North | |
| Base Station location and value 200 West - 1620 | | · · · · · · · · · · · · · · · · · · · |
| Base value 59349 | ganmas | |
| | | |
| Instrument <u>Apex Parametrics MaxMin II</u> | | |
| Coil configuration <u>Horizontal Loop</u> | | |
| Coil separation | | ······ |
| Accuracy 1% | • | |
| Instrument Apex Farametrics Maxmin 11 Coil configuration Horizontal Loop Coil separation 160 metres Accuracy 1% Method: IFixed transmitter | Shoot back X In line | D Parallel line |
| Frequency $444 \text{ Hz} = 1/7/\text{ Hz}$ | | |
| spectrum Parameters measured In-phase and quadrature | dfy V.L.F. station) components of secondary fie | ld measured as perc |
| of primary field. | • | |
| • • | | |
| Instrument | | |
| Scale constant | | ····· |
| Corrections made | | * |
| Corrections made Base station value and location | | |
| Base station value and location | | |
| | | |
| Elevation accuracy | · | |
| | · · · · · · · · · · · · · · · · · · · | . . |
| Instrument | | |
| Method | 🔲 Frequency Domain | ********************* |
| Parameters – On time | • • | |
| | • • | |
| - Off time - Delay time - Integration time | • | |
| — Delay time | | |
| | | |
| Power | | |
| Electrode array | · · · · · · · · · · · · · · · · · · · | |
| Electrode spacing | | |
| Type of electrode | | |

| LIS | ST OF CLA | IMS - CARMEN | & SHAW TOWNSHIPS | |
|-----|-----------|--------------|------------------|---|
| P | 1034885 | C | P 1072012 | S |
| P | 1034886 | C | P 1072013 | S |
| P | 1034887 | C | P 1072014 | S |
| Р | 1034888 | С | P 1072015 | S |
| Ρ, | 1034889 | С | P 1072016 | С |
| Ρ | 1034890 | С | P 1072017 | С |
| P | 1034891 | С | P 1072018 | С |
| P | 1034892 | С | P 1072019 | С |
| Ρ | 1071988 | S | P 1072020 | С |
| P | 1071989 | S | P 1072021 | C |
| P | 1071990 | S | P 1072022 | C |
| P | 1071991 | S | P 1072023 | С |
| P | 1071992 | S | P 1072024 | С |
| P | 1071993 | S | P 1072025 | C |
| P | 1071994 | S | P 1072026 | C |
| P | 1071995 | S | P 1072027 | С |
| P | 1071996 | S | P 1072028 | С |
| P | 1071997 | S | P 1072029 | C |
| P | 1071998 | S | P 1072030 | С |
| P | 1071999 | S | P 1072031 | C |
| P | 1072000 | Ċ | P 1072032 | C |
| P | 1072001 | C | P 1072033 | С |
| P | 1072002 | С | P 1072034 | С |
| P | 1072003 | С | P 1072035 | С |
| | | | P 1072036 | С |

Number of Claims: 49 S- Shaw Township

C- Carmen Township

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42A06NE0277 2.12627 CARMAN

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Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

October 6, 1989

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

Telephone: (416) 965-4888

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

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

> D. Londry P.O. Box 1783 South Porcupine, Ontario PON 1HO

ASSESSMENT FILES OFFICE OCT 1 0 1989 RECEIVED

> Resident Geologist Timmins, Ontario



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Ministry of Northern Development and Mines Technical Assessment Work Credits

| | | Flie |
|----------|---------|---|
| | | 2.12627 |
| Dete | | Mining Recorder's Report of |
| August 3 |), 1989 | Mining Recorder's Report of Work No W8906-300 |

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AMENDED

| FALCONBRIDGE LTD. | |
|---|---|
| CARMEN AND SHAW TOWNSHI | PS. |
| 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 <u>days</u> Induced polarization <u>days</u> | P 1034885 to 892 incl. 1071988 1071990 to 1072003 incl. 1072012 to 036 incl. |
| 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 n | nining claims |
| <u>40 days Magnetometer</u> <u>10 days Electromagnetic</u> P 1071989 | |
| No credits have been allowed for the following mining c | laims |
| not sufficiently covered by the survey |] insufficient technical data filed |
| | |

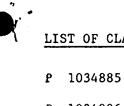
The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical +80; Geologocal +40; Geochemical +40; Section 77(19) +60.

| Ministry of Northern Developmen and Mines | Report of Wo (Geophysica), (Geochemical ar | Seòlogical, | W 89 | ENT NO. 14 | | If number of exceeds space Only days "Expenditure in the "Exp | of mining clair on this form, credits calcula s'' section may bend, Days Cr | attach a list. Ited in the y be entered y," columns. |
|--|--|--------------------------|--|--|-------------|---|---|---|
| Type of Survey(s) | | | Intitud b | | • Township | | aded areas belo | <u>w</u> . |
| | YSICS | | 1 | G 191 | CARN | IEN - SHA | W TOWNSHI | PS |
| Claim Holder(s) | | 0 # • • | 120 | $\mathcal{A}^{(1)}$ | | A2164 | | |
| Falconbridge_Li | mited | | | | | | /, | |
| 571 Moneta Ave. | Box 1140, T | immins, | <u>Ontario</u> | P4N 7H9 Date of Survey | (1000 & 10) | Te | tal Miles of line | e Cut |
| TIMMINS Geophys | ics Ltd. | | | 037 1 Mg. | | 1.4 | 105.2 | |
| Name and Address of Author (o | f Geo-Technical report) | | <u> </u> | | | | | , |
| D. Londry, P.O.Box | and the second | | the second s | الالافيان والمتعاد والمتحد والمتحد والمتحد والمتحد | | | | ļ |
| redits Requested per Each C Special Provisions | Geophysical | Days per | | ms Traversed (I ing Claim | Expend. | | ing Claim | Expend. |
| For first survey: | | Claim | Prefix | Number | Days Cr. | Prefix | Number | Days Cr. |
| Enter 40 days, (This | Electromagnetic | 20 | STATIST | | | 10000000000 | | |
| includes line cutting) | Magnetometer | 40 | | SEE | | | | |
| For each additional survey: | - Radiometric | | | ATTACHED | | 5. S. A.S. | | |
| using the same grid: Enter 20 days (for each) | - Other | | | LIST | | | <u></u> | |
| | Geological | | | | | | , | |
| | Geochemical | | | <u> </u> | | | | |
| Man Days | Geophysical | Days per | | | | | | |
| Complete reverse side | Electromagnetic | Claim | - 22 | | | | | |
| and enter total(s) here | | | | | ┼───-[ि | RECO | RDED | |
| | Magnetometer | | - | | | | NNEN | |
| | Radiometric | ļ | | |] | | | <u> </u> |
| | • Other | | | • | | MAY 2 | 6_1989 | |
| | Geological | | | | | | | |
| | Geochemical | | | | | | | |
| Airborne Credits | | Days per Claim | | | | 150000 | | |
| Note: Special provisions | Electromagnetic | | | | | | | |
| credits do not apply | Magnetometer | | | | | | · · · · · · · · · · · · · · · · · · · | |
| to Airborne Surveys. | | | | | · | | | |
| innerdianne (analysian par | Radiometric | | | | | | RECEI | VED |
| xpenditures (excludes pow Type of Work Performed | er stripping) | | | | | - | | _ |
| | | | | | | | <u>JUN - 1</u> | 1989 |
| Performed on Claim(s) | | | TPORCUPINE | | | | | |
| | | | D)5(C) | 5HW 5) | | | IING LAND | s sectio |
| | . | | N. | | | | | |
| Calculation of Expenditure Day Total Expenditures | | Total s Credits | MAY | 26 1989 | | | | |
| S | + 15] = [| | C(Long) | | 47 | Total sumt | er of mining | |
| | | | 9.00 | | | claims cove report of v | jed by this | 49 |
| nstructions Total Days Credits may be a | | | F | or Office Use C | Doly . | | 1,1.4 | يــــــ |
| choice. Enter number of day in columns at right. | s credits per claim select | eO | | Cr. Date Recorded | | Michonic | strond | |
| | ~ | 0 | | MAY 2 | 6184 | Minin Branch Dire | g Recorder | , |
| May 25, 1989 | Conded Holder or Agent (| Signature) | 2940 | Date Approved | as necorded | pranch Uire | | |
| Certification Verifying Repo | ort of Work | | J L * | | | | | |
| I hereby certify that I have a or witnessed same during and | personal and intimate k | nowledge o and the an | of the facts set fo nexed report is t | rth in the Report rue. | of Work ann | exed hereto, ha | iving performed | the work |
| Name and Postal Address of Per | son Certifying | , | | | | | | |
| Dean MacEachern | | Ave.,_E | Box_1140,_ | Timmins O | ntario | P4N 7H9 | (Signatural. | |
| | | | | May 25 | | K L | M2 | ' |

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LIST OF CLAIMS - CARMEN & SHAW TOWNSHIPS

| P | 1034885 | С . | P 1072012 | s- |
|---|---------|-----|-----------|------|
| P | 1034886 | C - | P 1072013 | ຮ້ |
| Р | 1034887 | C - | P 1072014 | S - |
| P | 1034888 | с. | P 1072015 | S. |
| P | 1034889 | C - | P 1072016 | ዮ |
| P | 1034890 | с . | 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 | с. |
| P | 1071992 | S - | P 1072024 | C· |
| Р | 1071993 | S - | P 1072025 | C · |
| P | 1071994 | S - | P 1072026 | C. |
| P | 1071995 | S , | P 1072027 | C- |
| Р | 1071996 | Si | P 1072028 | C_ |
| P | 1071997 | S r | P 1072029 | C. |
| P | 1071998 | S+ | P 1072030 | C٠ |
| P | 1071999 | Sm | P 1072031 | C٠ |
| P | 1072000 | С. | P 1072032 | C ' |
| P | 1072001 | с. | P 1072033 | c. |
| P | 1072002 | с. | P 1072034 | с. |
| P | 1072003 | C - | P 1072035 | C. |
| | | | P 1072036 | C. / |
| | | | | |

DECENTIVE MAY 20 1989 JA.

Der Marie.

Number of Claims: 49 S- Shaw Township C- Carmen Township

| ALDUEN & SHAW TOWNSHIPS | |
|--|---------|
| LIST OF CLAIMS - CARMEN & SHAW TOWNSHIPS | MRGEN |
| P 1034885 C P 1072012 S | S V |
| P 1034886 C P 1072013 | s |
| P 1072014 | s |
| P 1072015 | s |
| P 1034888 C P 1072016 | c / / |
| P, 1034889 C P 1072017 | c / / |
| P 1034890 C | c |
| P 1034891 C P 1072018 | |
| P 1034892 C / P 1072019 | C |
| P 1071988 S | c |
| P 1072021 | c |
| P 1072022 | C |
| P 1072023 | c / / |
| P 1071991 S P 1072024 | c |
| P 1071992 S P 1072025 | c |
| P 1071993 S P 1072026 | c |
| P 1071994 S | |
| P 1071995 S / V P 1072027 | 1/ |
| P 1071996 S / V P 1072028 | c -4 -2 |
| р 1072029 | c v |
| P 1072030 | |
| P 1071998 S P 1072031 | |
| P 1071999 S P 107203 | |
| P 1072000 C | |
| P 1072001 C P 107203 | |
| P 1072002 C V P 107203 | |
| P 1072003 C P 107203 | 95 C |
| P 107203 | 36 C |
| | |

Number of Claims: 49 S- Shaw Township

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C- Carmen Township

NTS: 42-A/6

EAST

MAP



OFFICE USE ONLY

Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

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

| Type of Survey(s) GEOPHYSICAL | |
|---|---------------------------|
| Township or AreaSHAW & CARMAN | — MINING CLAIMS TRAVERSED |
| Claim Holder(s)Falconbridge Limited | List numerically |
| P.O.Box 1140, Timmins, Ontario P4N 7H9 | |
| Survey Company Timmins Geophysics Ltd. | SEE ATTACHED LIST |
| Author of Report Sharon Taylor | (prefix) (number) |
| Address of Author P.O. Box 1783, South Porcupine, Ont. | PON |
| Covering Dates of Survey March 15, 1989 to July 15, 1989 | |
| (linecutting to office) Total Miles of Line Cut. 105.2 km | |
| Total Miles of Line Cut. | |
| SPECIAL PROVISIONS CREDITS REQUESTEDDAYS per claimENTER 40.d.(i | |
| ENTER 40 days (includes | |
| inc cutting) for first | |
| | |
| | |
| same grid | |
| Geochemical | |
| AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) | |
| MagnetometerElectromagnetic Radiometric (enter days per claim) | — |
| DATE: July 21, 1989 SIGNATURE: Author of Report or Agent | |
| | |
| | |
| Res. GeolQualificationsQ.8510 | |
| Previous Surveys | |
| File No. Type Date Claim Holder | |
| | |
| | |
| | |
| | |
| | |
| | |
| | ••• TOTAL CLAIMS\$(49 |
| B37 (85/12) | |

GEOPHYSICAL TECHNICAL DATA

| 9 | GROUND SURVEYS If more than one survey, specify dat | a for each type of | survey | |
|------------------------|--|----------------------|---|------------------|
| N | lumber of Stations4158 | Number of Rea | | - 3510 - 4238 |
| S | tation interval20 metres | Line spacing | 100 metre | S |
| P | rofile scale | 40% (1777 Hz) | . | |
| C | ontour interval <u>MAG - 200 gammas</u> | | | |
| MAGNETIC | | tion Magnetome th | | |
| ELECTROMAGNETIC | Instrument <u>Apex Parametrics MaxMin II</u> Coil configuration <u>Horizontal Loop</u> Coil separation <u>160 metres</u> Accuracy <u>1%</u> Method: Fixed transmitter SI Frequency <u>444 Hz</u> - 1777 Hz (specify W Parameters measured <u>In-phase and quadrature com</u> of primary field. | hoot back [| X In line | Parallel line |
| | Instrument | | | |
| | Scale constant | | <u>,,,</u> ,,,,,,,,, -,,,,,,,,,,,,,,,,,,, | |
| 거 | Corrections made | | | , |
| <u>GRAVI1</u> | Base station value and location | | | |
| | Elevation accuracy | | | |
| | Instrument | | | |
|] | Method 🛛 Time Domain | 🗀 Freque | ncy Domain | |
| | Parameters – On time | Freque | ency | |
| × | – Off time | Range | | |
| H | – Delay time | | | |
| II. | — Integration time | | | |
| RESISTIVITY | Power | | | |
| 2 | Electrode array | | | |
| | Electrode spacing | | | |
| 1 | Type of electrode | | | |
| | rype of electrone | | | |

SELF POTENTIAL

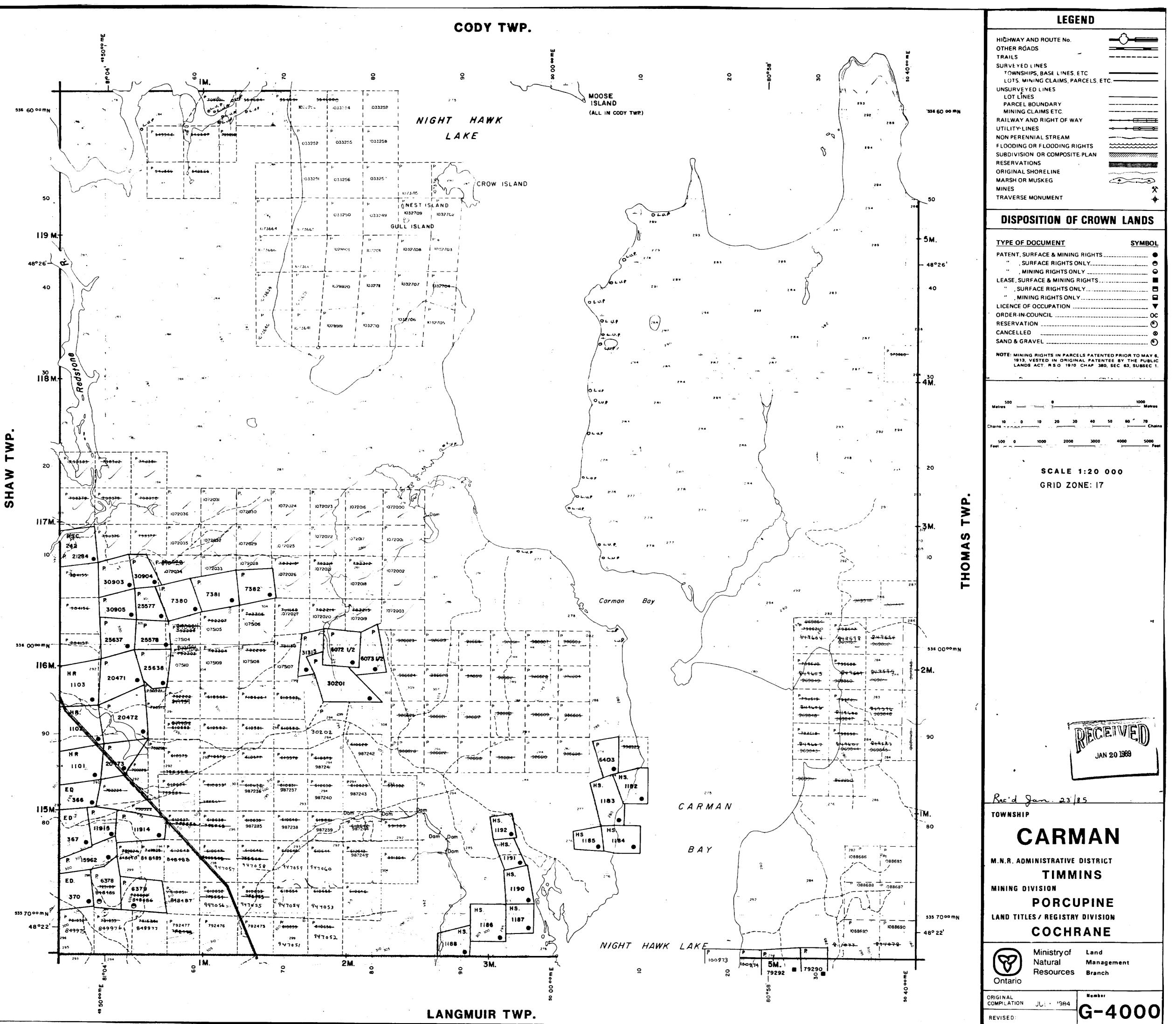
| Instrument | |
|--|---------------------------------|
| Survey Method | |
| •••••••••••••••••••••••••••••••••••••• | |
| Corrections made | |
| | |
| | |
| RADIOMETRIC | |
| Instrument | |
| Values measured | |
| Energy windows (levels) | |
| Height of instrument | Background Count |
| Size of detector | - |
| Overburden | |
| (typ | e, depth – include outcrop map) |
| OTHERS (SEISMIC, DRILL WELL LOGGING | G ETC.) |
| Type of survey | |
| Instrument | |
| Accuracy | |
| Parameters measured | |
| | |
| Additional information (for understanding resu | alts) |
| | |
| | |
| | |
| AIRBORNE SURVEYS | |
| Type of survey(s) | |
| Instrument(s) | |
| (spe | cify for each type of survey) |
| Accuracy(spe | |
| 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) | Values expressed in: per cent | | | | |
| Average Sample Weight | p. p. m. | | | | |
| Method of Collection | p. p. b. | | | | |
| | Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle) | | | | |
| Soil Horizon Sampled | Others | | | | |
| Horizon Development | Field Analysis (tests | | | | |
| Sample Depth | Extraction Method | | | | |
| Terrain | Analytical Method | | | | |
| <u></u> | Reagents Used | | | | |
| Drainage Development | Field Laboratory Analysis | | | | |
| Estimated Range of Overburden Thickness | | | | | |
| | Extraction Method | | | | |
| | Analytical Method | | | | |
| | Reagents Used | | | | |
| SAMPLE PREPARATION | | | | | |
| (Includes drying, screening, crushing, ashing) | Commercial Laboratory (tests | | | | |
| Mesh size of fraction used for analysis | Name of Laboratory | | | | |
| | Extraction Method | | | | |
| | Analytical Method | | | | |
| · · · · · · · · · · · · · · · · · · · | Reagents Used | | | | |
| | General | | | | |
| General | | | | | |
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MAP SYMBOLOGY

| MAP SYMBOLOGY | | | | |
|--|--|--|--|--|
| erial Cableway | Pipeline - | | | |
| Boundary | (abave ground) | | | |
| -steepravinciat | Singis Track -++ | | | |
| District, Toonsmon Indian Readric | Abandonod -+ -+ | | | |
| Autroximate | *ursteb⊌e ⊶+oootie ∘Rood | | | |
| Apprealmain | Hijnady Cashty Taanbhip | | | |
| Bridge | Access (read of doughtful | | | |
| Roud, Antirend Fuilding | "roll, Bush Annd | | | |
| Chimney 📕 🔍 Cliff, Pit, File ———————————————————————————————————— | Rapids | | | |
| Cuntuurs 68 | orth molt-ple replés Duble line river JAcoide | | | |
| Approximate | with multiple reside | | | |
| Dapression | Juer Stream Conal | | | |
| Control Points Horizontei a 0.77405. | | | | |
| verticel 0 300 52 Culvert | Hock Significant + | | | |
| Falls , T | Spot Elevation | | | |
| Southe line river | tisse elevations) -300.0 Tower 9 0 | | | |
| Feature Outline | Transmission Line | | | |
| Flooded Land Friday | Poleo Pylant | | | |
| Lock 🛛 👾 🛨 | Utility Poles + | | | |
| Mast 😴 | Wharf , Dock , Pier | | | |
| Mine Head Frame 🛛 | Wooded Area | | | |
| CAND GEE PERMIT | | | | |
| · · · · · · · · · · · · · · · · · · · | FROM DISPOSITION | | | |
| M.R.O MINING RI | | | | |
| S.R.O. – SURFACE F | | | | |
| | D SURFACE RIGHTS | | | |
| Description Order No. | Date Disposition File | | | |
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| 42406NE0277 2.12627 CARMAN | 200 | | | |



| MAP SYM | BOLOGY |
|--|---|
| MAP SYM | Pipeline (above ground) Railroad Single Track Double Track Abandanad Terntoble Road Migneoy, County Ternship Access (read of daughtful maintenance or significant drivewor) Treit, Bush Road (bortage, alley) Rapids Dauble line river with multiple resids Reservoir River, Stream, Canal Approximeta Baaseal Diraction of flow Flock Single Single Single |
| Devolution fine fields Fence, Hedge, Wall Feature Outline (Construction features, IIII) Flooded Land Lock Marsh or Swamp' Mast Mine Head Frame Outcrop | Spot Elevation (tetr elevetrens) -300.0 Tower © © Transmission Line Peter Pytons Tunnel = (Utility Poles - Wharf, Dack, Pier Wooded Area |
| M.R.O. – MINING RI S.R.O. – SURFACE F M.+ S. – MINING AN Description Order No. (*) Rec. Purp. Sec. 3 PLA (*) W. 97/77 | RIGHTS ONLY D SURFACE RIGHTS Data Disposition File 188543 15/12/77 SR.0. 86555 |
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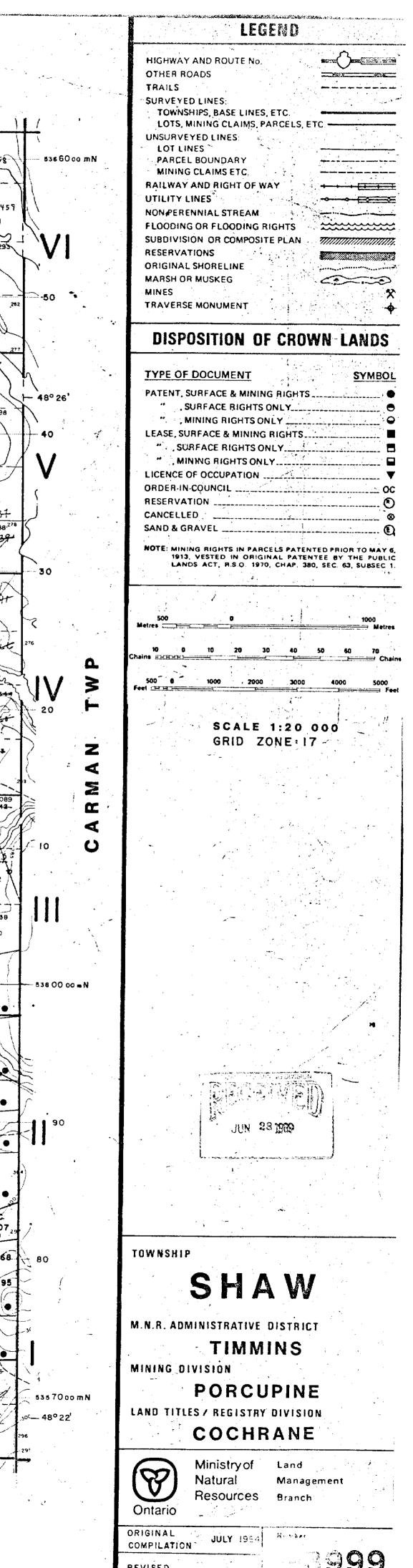
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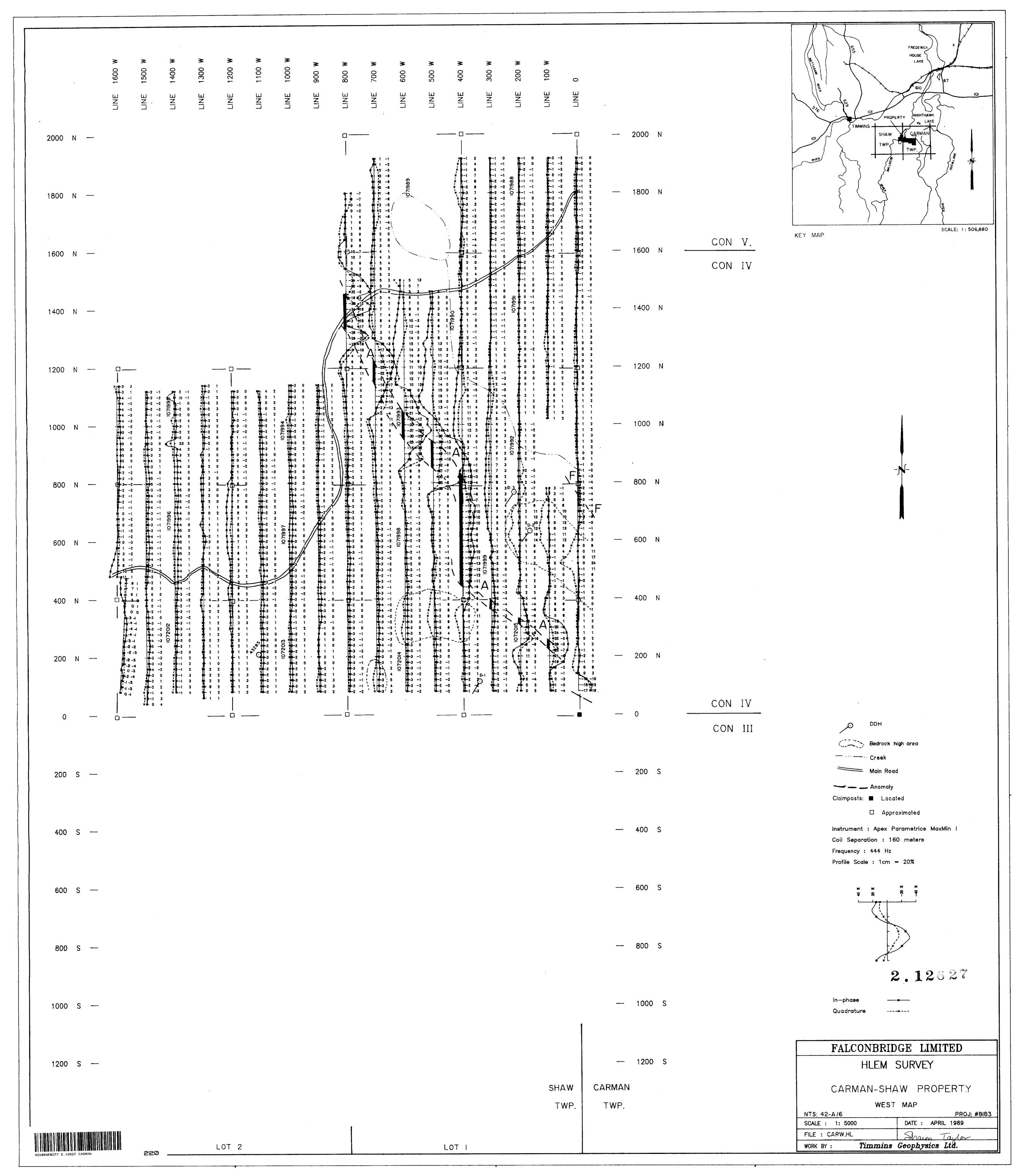
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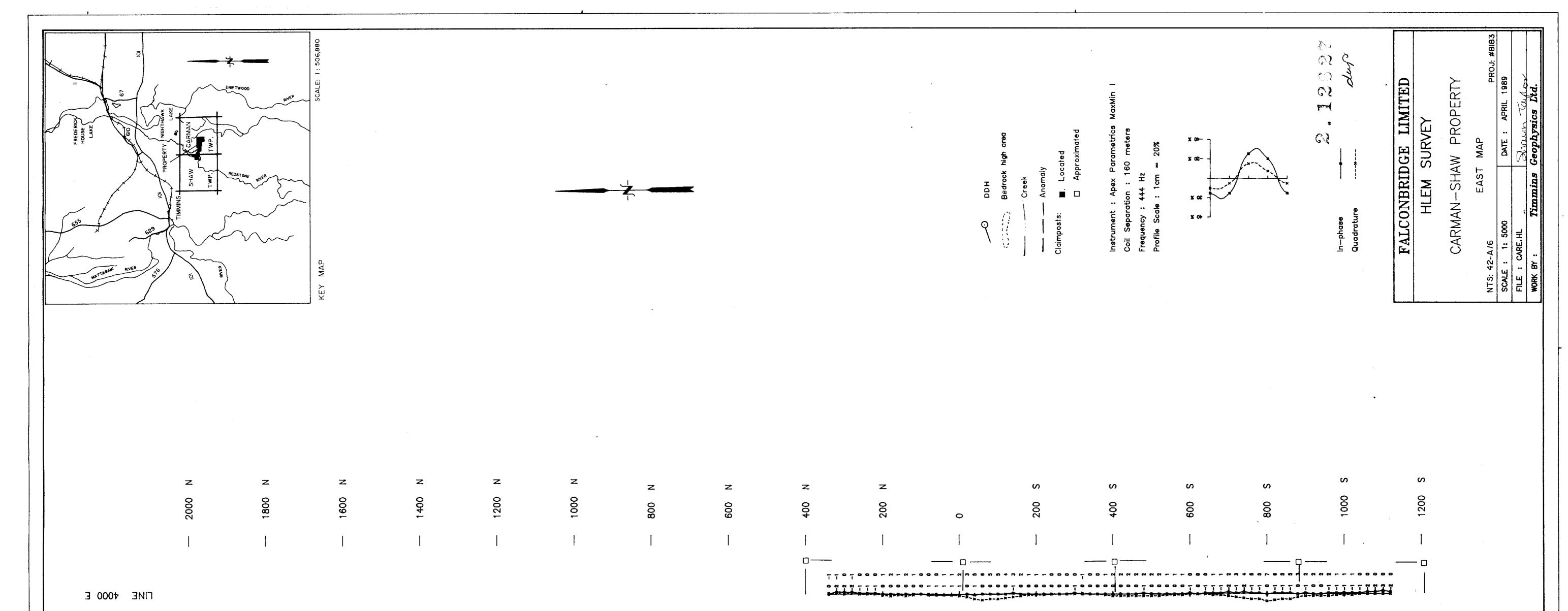
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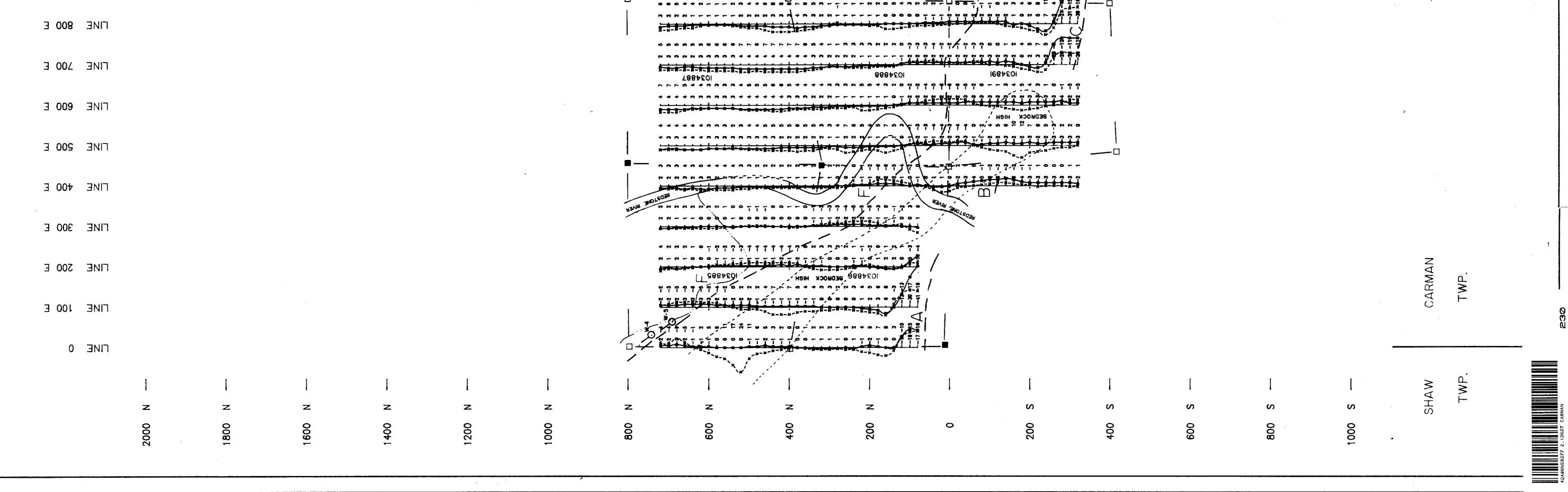
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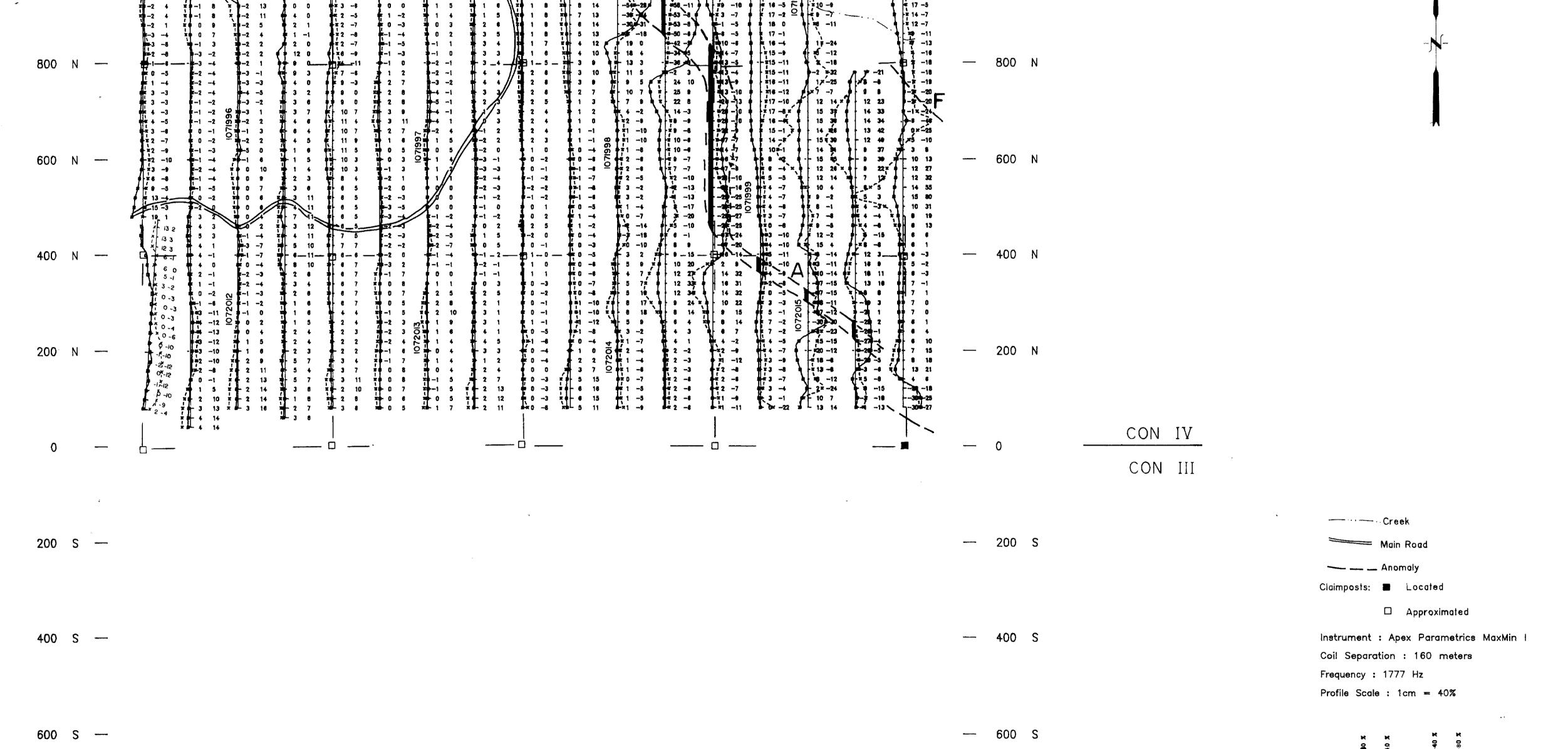


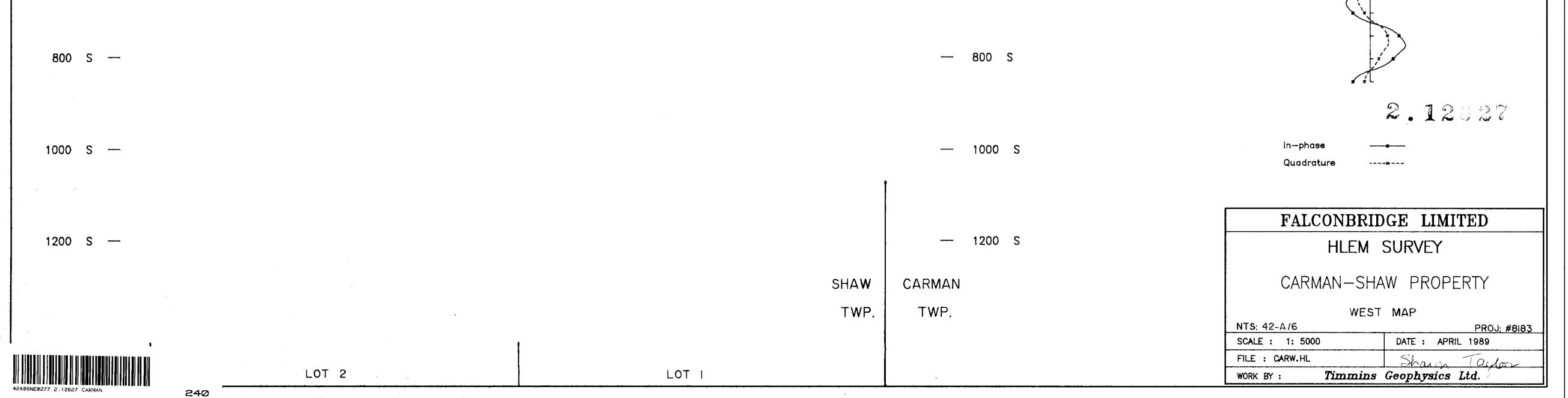


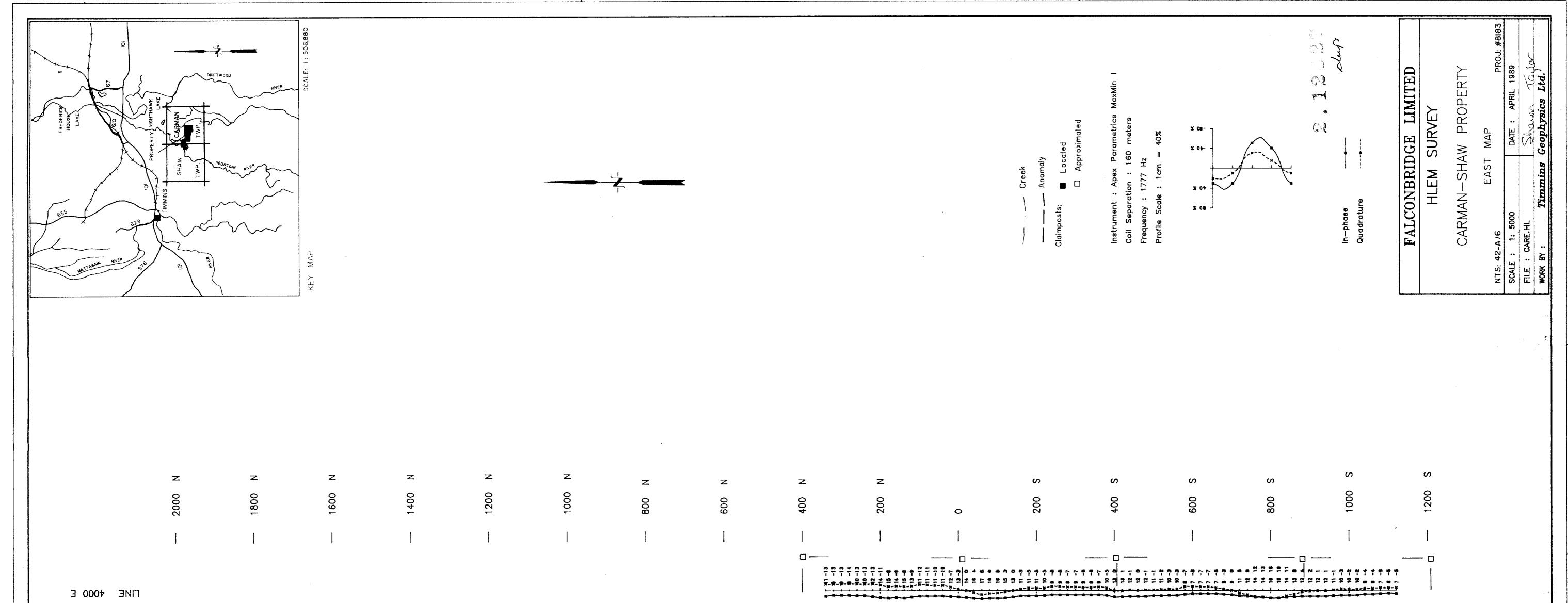
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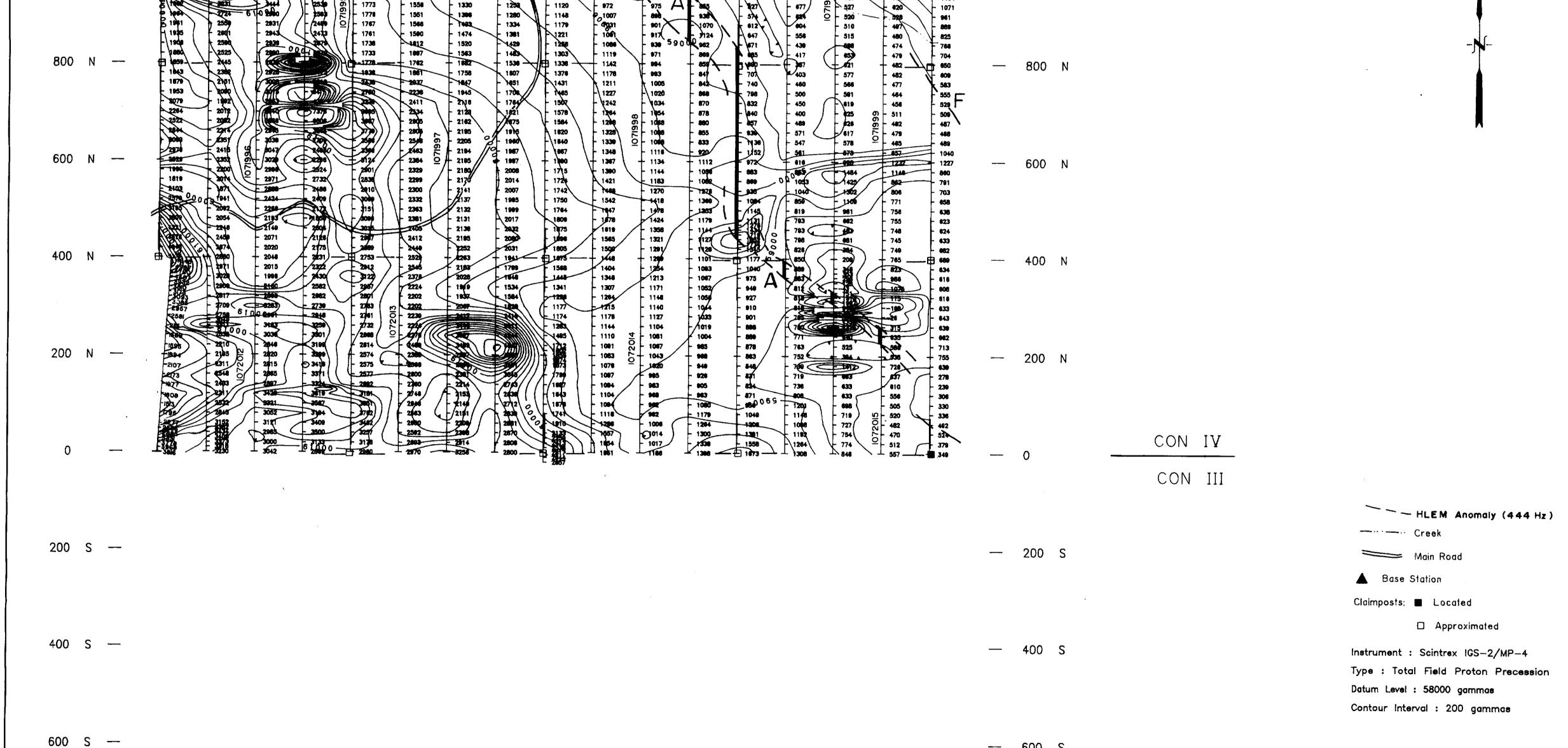


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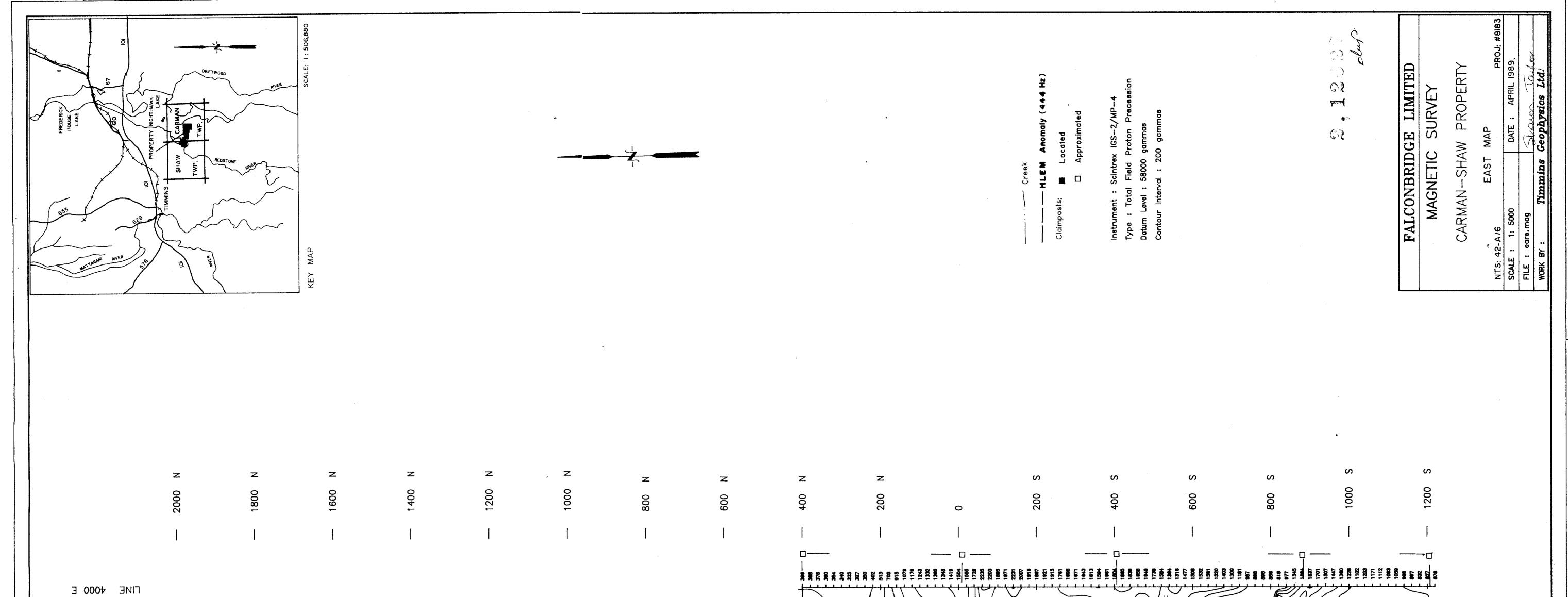
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