REPORT ON A MAGNETIC SURVEY

ANOMALY "GRID Y"
BLOCK "43B/13-11"
NTS 43B/13

BY

R. FACEY-CROWTHER
THUNDER BAY, ONTARIO

NOVEMBER 1988

DECLARATION

I, Richard Facey-Crowther, certify that I completed an Honours Bachelor of Science degree (Earth Science) in 1983 from Memorial University in Newfoundland.

I have been involved in geological exploration since 1972 with The Hanna Mining Company, Gulf Minerals Canada Limited and Hudson Bay Exploration and Development Company Limited.

I am presently employed by:

Monopros Limited
1112 Russell Street, Unit 6
Thunder Bay, Ontario
P7B 5N2

Richard Facey-Crowther

Richard Facey-Crowther
November 1988

LIST OF MAPS TO ACCOMPANY THIS REPORT

1. Locality map.
2. Total field magnetic readings map.
3. Total field contoured magnetic readings map.

1.0 INTRODUCTION

A programme of staking, line cutting and ground magnetometry was carried out during January, February, March and April, 1988, on a series of selected anomalies in northern Ontario. The work was performed under contract by Phantom Exploration under the supervision of Mr. I. Spence and the overall direction of Dr. J.A. Fowler. The claims are held by Dr. Fowler.

2.0 LOCATION AND ACCESS

The claims are located approximately 95 kilometres west of the community of Attawapiskat. Access to the claims is only possible by helicopter. The group of claims, referred to as "Grid Y" is located within the Porcupine Mining Division.

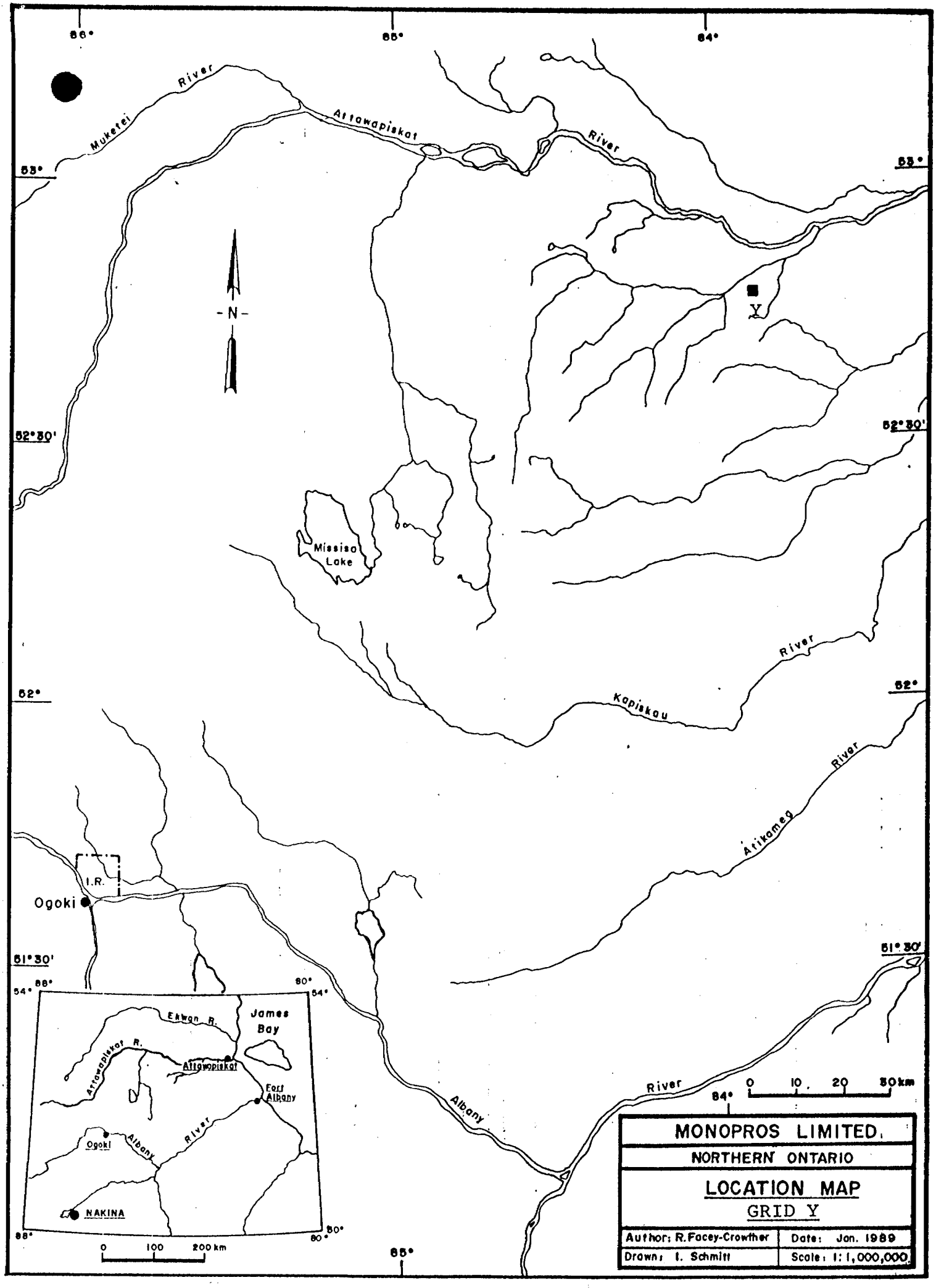
Grid Y consists of a single block of nine claims on Claim Map G-1253 located about 8.5 kilometres south of the Attawapiskat River and 2.0 kilometres east of a major creek.

3.0 GROUND MAGNETIC SURVEY

Grids were cut over each claim block with a 100 metre line spacing. Each grid consisted of an east-west base line and north-south tie lines. Stations were established every 25 metres along the lines. All distances were chained out from the base line.

The magnetometer survey was carried out using EDA PPM-375 units with an EDA PPM-375 or OMNI-IV base station. The data was corrected automatically by linking the field and base station units to correct for diurnal variation. All instruments read out the total magnetic field with an accuracy of 0.1 nanoteslas (nT).

The map of total field readings shows the positions and values of the stations, while the map of contoured total field values shows the contoured results.


86°
85°
84°
53°
52°30'
52°
51°30'
Mukutei River
Attawapiskat River
Missisa Lake
Kapiskau River
Attikamag River
Albany River
N
Y
I.R.
Ogoki
54°
88°
80°
James Bay
Eabgn R.
Attawapiskat R.
Attawapiskat
East Albany
Ogoki
Albany River
NAKINA
0 100 200 km
0 10 20 30km
MONOPROS LIMITED
NORTHERN ONTARIO
LOCATION MAP
GRID Y
Author: R. Facey-Crowther
Date: Jan. 1989
Drawn: I. Schmitt
Scale: 1:1,000,000

4.0 RESULTS

The regional magnetic background of 59,900 nT is disrupted by a small high of 60,486 nT at 2+00E 1+50N with an associated low of 59,774 nT to the north at 2+00E 2+75N. To the immediate south and southest, the local magnetic field is disturbed by a roughly +100 nT lobe.

5.0 RECOMMENDATIONS

A single drill hole is recommended at 2+00E 1+75N to determine the source of the anomaly.

Richard Facey-Crowther

Richard Facey-Crowther
Thunder Bay, Ontario


43B13SW0007

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. W 8906.054

2.12004

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): GROUND MAGNETOMETER

Township or Area: 527 834 G-1253

Claim Holder(s): JONATHAN A. FOWLER

Prospector's Licence No.: A45284

Address: 25 E. Adelaide St, Suite 1800, Toronto, Ontario M5C 1Y2

Survey Company: PHANTOM EXPLORATION/MONOPROS LIMITED

Date of Survey (from & to): 11 | 02 | 88 | 31 | 03 | 88 (Day | Mo. | Yr.)

Total Miles of line Cut: 19.2 Km

Name and Address of Author (of Geo-Technical report): R. FACEY-CROWTHER, 1112 Russell St., Unit 6, Thunder Bay, Ontario P7B 5N2

Credits Requested per Each Claim in Columns at right

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)

	Days per Claim
Geophysical	
• Electromagnetic	
• Magnetometer	40
• Radiometric	
• Other	
Geological	
Geochemical	

Man Days

Complete reverse side and enter total(s) here

	Days per Claim
Geophysical	
• Electromagnetic	
• Magnetometer	
• Radiometric	
• Other	
Geological	
Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.

	Days per Claim
Electromagnetic	
Magnetometer	
Radiometric	

RECEIVED
MAR 3 1989
MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.
P	1052134	
	1052135	
	1052136	
	1052137	
	1052138	
	1052139	
	1052140	
	1052141	
	1052142	

Prefix	Number	Expend. Days Cr.

RECORDED
DEC 28 1988

MINING LANDS SECTION SURVEY FILES OFFICE
MAR - 8 1989

Total number of mining claims covered by this report of work: 9

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

RECEIVED
DEC 28 1988

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.

For Office Use Only

Total Days Cr. Recorded: 360

Date Recorded: Dec. 28/88

Date Approved as Recorded: 2 March 89

Mining Recorder: S. White

Branch Director: W. Lam

Date: Dec. 21 1988

Recorded Holder or Agent (Signature): Jonathan A. Fowler

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

R. Facey-Crowther, 1112 Russell Street, Unit 6, Thunder Bay, Ontario P7B 5N2

Ontario

Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

Y

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) Ground Magnetometry

Township or Area 527 834 G-1253

Claim Holder(s) Jonathan A. Fowler

Survey Company Phantom Exploration/Monopros Limited.

Author of Report R. Facey-Crowther

Address of Author 112 Russell St., Unit 6, Thunder Bay

Covering Dates of Survey 11/02/88 - 31/03/88
(linecutting to office)

Total Miles of Line Cut 19.2 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	40
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: Dec. 21 1988 SIGNATURE: Richard Facey-Crowther
Author of Report or Agent

Res. Geol. _____ Qualifications 2.8238

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P	1052134
P	1052135
P	1052136
P	1052137
P	1052138
P	1052139
P	1052140
P	1052141
P	1052142

If space insufficient, attach list

TOTAL CLAIMS 9

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 637 Number of Readings 637

Station interval 25 Meters Line spacing 100 Meters

Profile scale

Contour interval 50 nT

MAGNETIC

Instrument EDA Instruments Inc. Model PPM-375/OMNI-IV

Accuracy – Scale constant 0.1 nT

Diurnal correction method Automatic Base Station, 20 second interval

Base Station check-in interval (hours) 20 seconds

Base Station location and value At Base Camp 3.0 kilometres north of Attawapiskat River
52°53'00" Lat. 83°50'00" Long.; Value 59,700 nT

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency
(specify V.L.F. station)

Parameters measured

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 _____

_____

_____

_____

_____

_____

_____

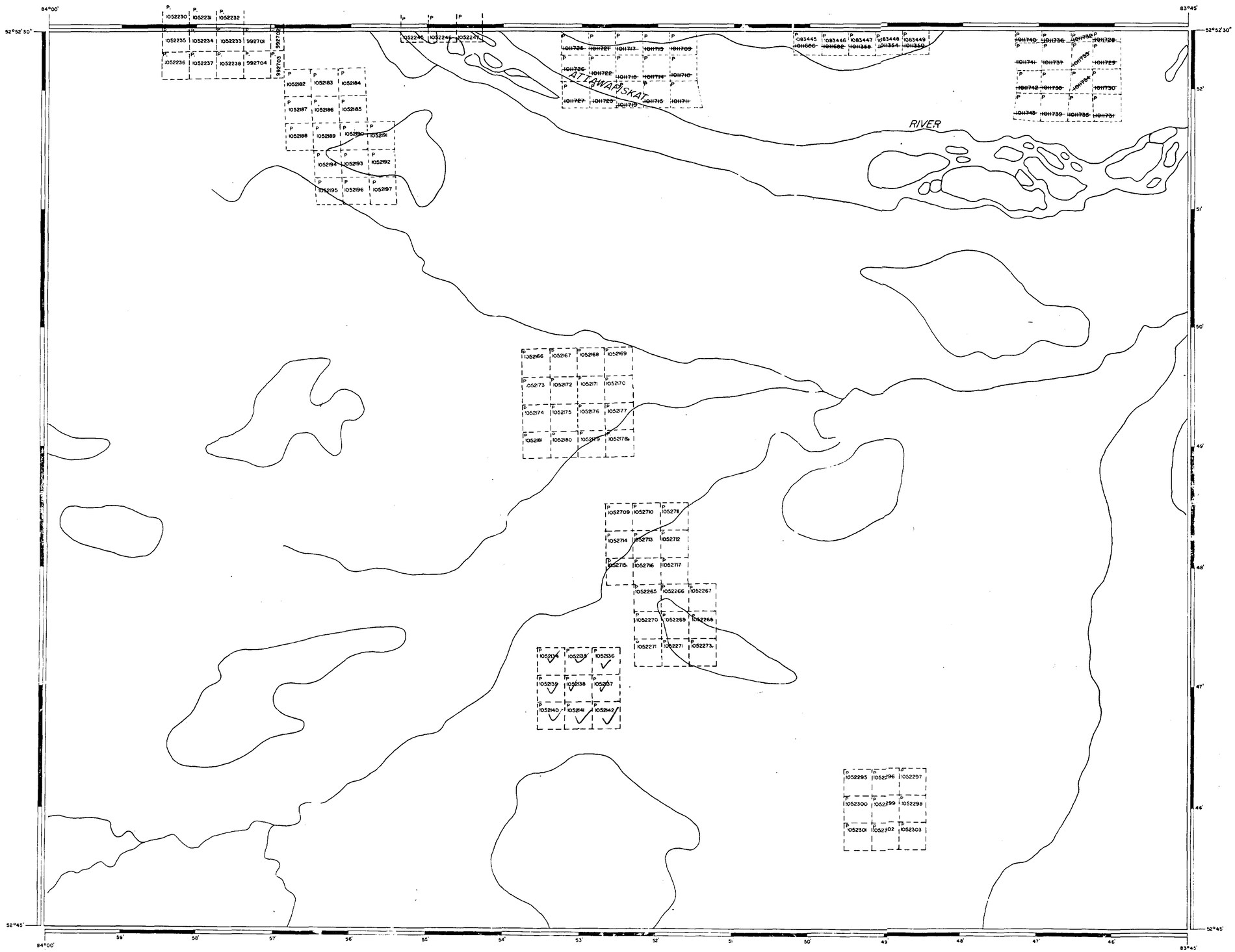
_____

_____

_____

528-834

527-833



LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◔
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	◧
" , MINING RIGHTS ONLY	◨
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	◔
CANCELLED	⊗
SAND & GRAVEL	◔

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

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

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

43B13SW0087 200

PORCUPINE MINING DIVISION RECEIVED DEC 21 1988

RECEIVED DECEMBER 1, 1987

AREA

527-834

M.N.R. ADMINISTRATIVE DISTRICT

MOOSONEE

MINING DIVISION

PORCUPINE

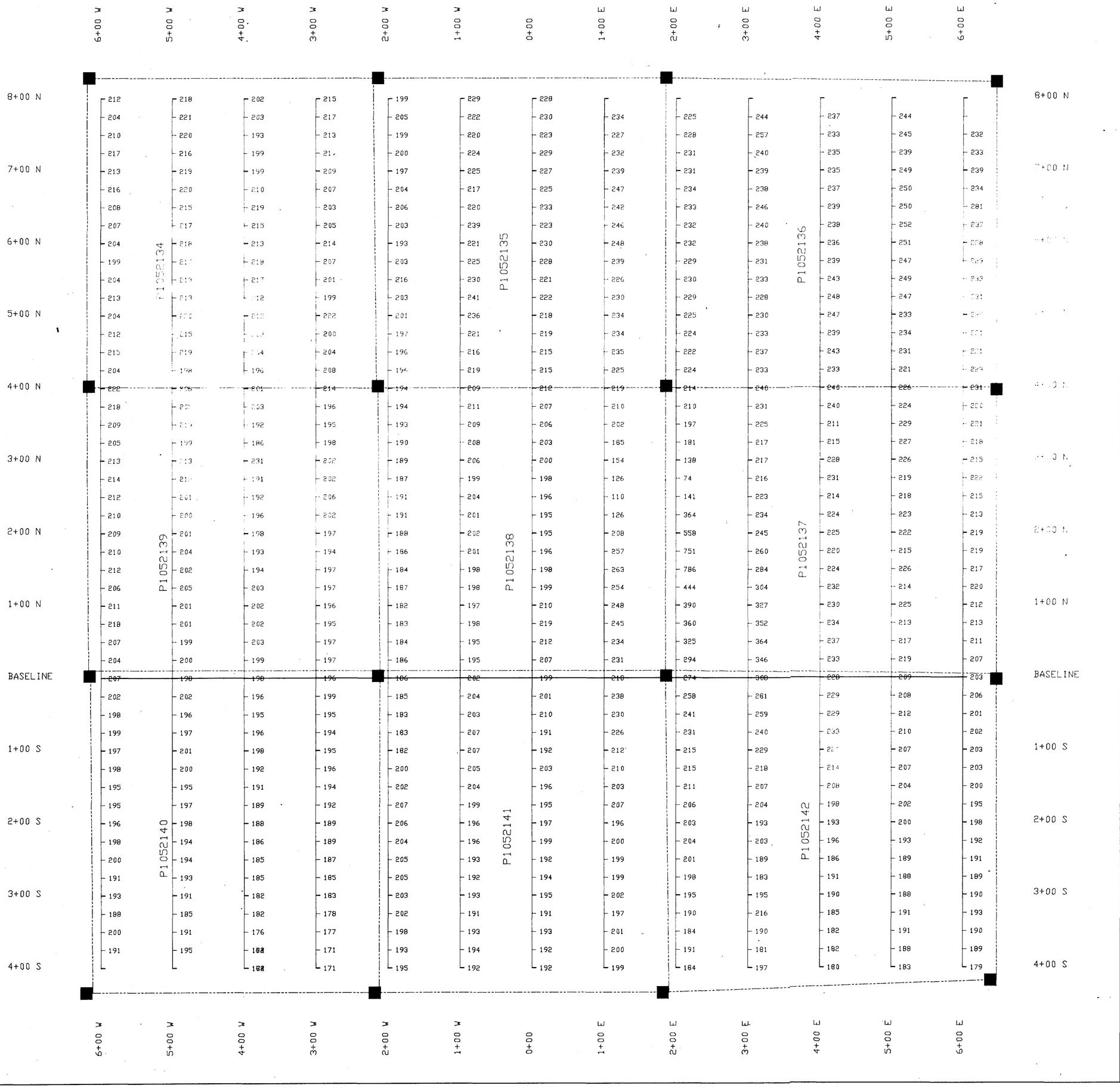
LAND TITLES / REGISTRY DIVISION

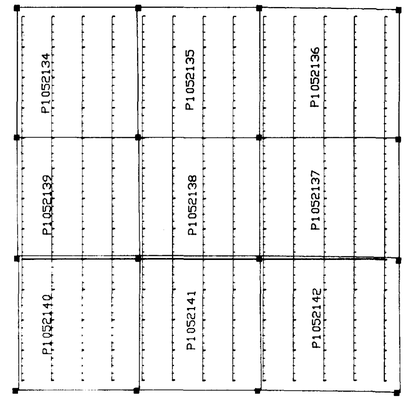
KENORA/PATRICIA PORTION

Ontario Ministry of Natural Resources — Ministry of Northern Development and Mines

Date NOVEMBER/1987

Number G-1253





52° 47'

LOCATION MAP *SCALE 1:10,000*

210

LEGEND

MAGNETOMETER SURVEY

INSTRUMENT: EDA PPM-375/ OMNI IV
DATUM 59700 NANOTESLAS
SENSITIVITY: .01 NANOTESLAS
CONTOUR INTERVAL: 50 NANOTESLAS
MAGNETIC LOW:

BASE STATION RECORDER
INSTRUMENT: EDA PPM-375 / OMNI IV
RECORDING INTERVAL: 20 SECONDS

TOPOGRAPHY

CLAIM POST
RIVER
STREAM
SWAMP
LAKE SHORE

2.12004

BLOCK 43 B/13-11 GRID Y

PROTON MAGNETOMETER

TOTAL FIELD READINGS

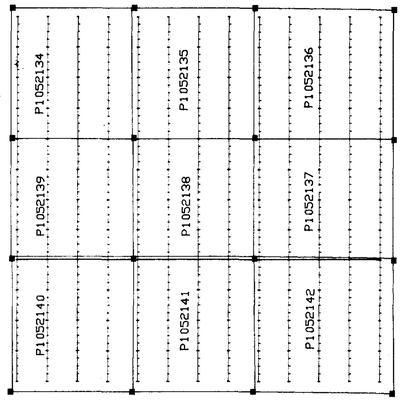
SCALE BAR 0 50 100 150 200 METRES

DATE: MAR. 1988	*SCALE: 1:2500*	*N.T.S. 43-B-13*

PHANTOM EXPLORATION SERVICES LTD.

85°53'

52°47'



LOCATION MAP SCALE 1:10,000

6+00 W 5+00 W 4+00 W 3+00 W 2+00 W 1+00 W 0+00 1+00 E 2+00 E 3+00 E 4+00 E 5+00 E 6+00 E

8+00 N
7+00 N
6+00 N
5+00 N
4+00 N
3+00 N
2+00 N
1+00 N
BASELINE
1+00 S
2+00 S
3+00 S
4+00 S

P1052134
P1052135
P1052136
P1052139
P1052138
P1052137
P1052140
P1052141
P1052142

200

N

220

LEGEND

MAGNETOMETER SURVEY

INSTRUMENT: EDA PPM-375/ OMNI IV
DATUM 59700 NANOTESLAS
SENSITIVITY: .01 NANOTESLAS
CONTOUR INTERVAL: 50 NANOTESLAS
MAGNETIC LOW:

BASE STATION RECORDER
INSTRUMENT: EDA PPM-375 / OMNI IV
RECORDING INTERVAL: 20 SECONDS

TOPOGRAPHY

CLAIM POST
RIVER
STREAM
SWAMP
LAKE SHORE

2.12004

BLOCK 43 B/13-11 GRID Y

PROTON MAGNETOMETER

TOTAL FIELD CONTOURED READINGS

SCALE BAR 0 200 400 600 800 METRES

DATE: MAR. 1988	SCALE: 1:2500	N.T.S. 43-B-13

PHANTOM EXPLORATION SERVICES LTD.