REPORT ON A MAGNETIC SURVEY

ANOMALY "GRID A1"
BLOCK "43B/12-03"
NTS 43B/12

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

2.11986

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 A1" is located within the Porcupine Mining Division.

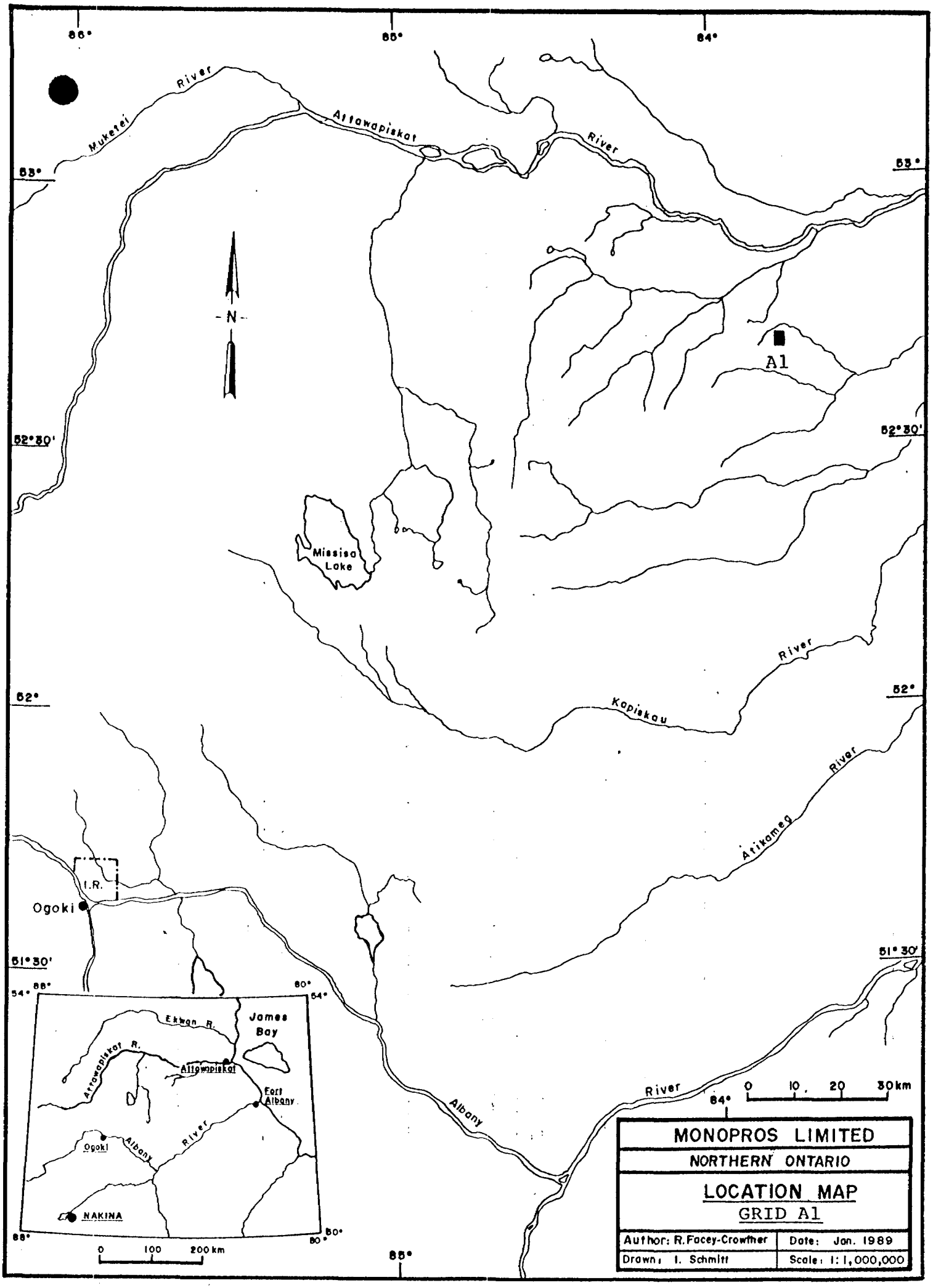
Grid A1 consists of a single block of 12 claims located approximately 17 kilometres south of the Attawapiskat River on Claim Map G-3852.

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°
Mukutei River
Attawapiskat River
53°
N
A1
52°30'
Missisa Lake
Kopiskau River
52°
Atikameg River
I.R.
Ogoki
51°30'
54°
88°
80°
Ekwan R.
James Bay
Attawapiskat R.
Attawapiskat
Fort Albany
Ogoki
Albany River
NAKINA
0 100 200 km
Albany River
0 10 20 30km
MONOPROS LIMITED
NORTHERN ONTARIO
LOCATION MAP
GRID A1
Author: R. Facey-Crowther
Date: Jan. 1989
Drawn: I. Schmitt
Scale: 1:1,000,000

4.0 RESULTS

The magnetic background is about 59,800 nT and is disturbed by a roughly circular high, peaking at 61,011 nT at 1+00E 0+00. This high consists of a central high with secondary highs to the north and south. Further to the north there is a second elongate anomaly trending SW-NE with three much weaker highs of 60,270 nT at 2+00E 6+25N; 60,321 nT at 1+00E 5+50N and 60,159 nT at 0+00 3+75N.

5.0 RECOMMENDATIONS

Two drill holes are recommended to determine the source of the anomalies. One drill hole at 0+50E 0=00 for the larger anomaly and the second hole at 1+00E 5+50N for the smaller northern anomaly.

Richard Facey-Crowther

Richard Facey-Crowther
Thunder Bay, Ontario

43B12NW0003

900

Ministry of Northern Development and Mines
Ontario

Report (Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. W8906.076

2.11986

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
– 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: 526 834 G-3852

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 (Day Mo. Yr.) – 31 03 88 (Day Mo. Yr.)

Total Miles of line Cut: 24.4 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	

RECEIVED
MAR 1 1989
MINING LANDS

Airborne Credits

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

	Days per Claim
Electromagnetic	
Magnetometer	
Radiometric	

RECEIVED
DEC 28 1988
TORONTO MINING DIVISION

Expenditures (excl...

Type of Work Perform...

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.

Date: Dec 15, 1988

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

Certification Verifying Report of Work

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	1052274	
	1052275	
	1052276	
	1052279	
	1052280	
	1052281	
	1052282	
	1052283	
	1052284	
	1052287	
	1052288	
	1052289	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE

RECORDED
DEC 28 1988

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE
MAR - 8 1989

Total number of mining claims covered by this report of work: 12

For Office Use Only

Total Days Cr. Recorded: 480

Date Recorded: Dec 28/1988

Date Approved as Recorded:

Mining Recorder:

A1

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) Ground Magnetometry

Township or Area 526 834 G-3852

Claim Holder(s) Jonathan A. Fowler

Survey Company Phantom Exploration/Monopros Limited.

Author of Report R. Facey-Crowther

Address of Author 1112 Russell St., Unit 6, Thunder Bay

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

Total Miles of Line Cut 24.4 Km

SPECIAL PROVISIONS CREDITS REQUESTED		DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	--Electromagnetic	
	--Magnetometer	40
	--Radiometric	
ENTER 20 days for each additional survey using same grid.	--Other	
	Geological	
	Geochemical	

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

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

DATE: Dec. 15 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	1052274
P	1052275
P	1052276
P	1052279
P	1052280
P	1052281
P	1052282
P	1052283
P	1052284
P	1052287
P	1052288
P	1052289

TOTAL CLAIMS 12

If space insufficient, attach list

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 845 Number of Readings 845

Station interval 25 Metres Line spacing 100 Metres

Profile scale

Contour interval 100 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 _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

527-834

84°00'

83°45'

52°45'

STRING BOG

STRING BOG

1052322 1052321 1052320
1052317 1052318 1052319
1052198 1052199 1052200
1052203 1052202 1052201
1052204 1052205 1052206

1083470 1083471
1083472 1083473

1052274 1052275 1052276
1052281 1052280 1052279
1052282 1052283 1052284
1052289 1052288 1052287

1052290 1052291 1052292
1052304 1052294 1052293
1052305 1052306 1052307

44'
43'
42'
41'
40'
39'
38'

52°37'30"

59' 58' 57' 56' 55' 54' 53' 52' 51' 50' 49' 48' 47' 46'

84°00'

83°45'

525-834

526-834

SMD-3852

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

43B12NW0003 200

PORCUPINE MINING DIVISION
RECEIVED
DEC 21 1988

AREA

526-834

M.N.R. ADMINISTRATIVE DISTRICT

MOOSONEE

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

KENORA / PATRICIA PORTION

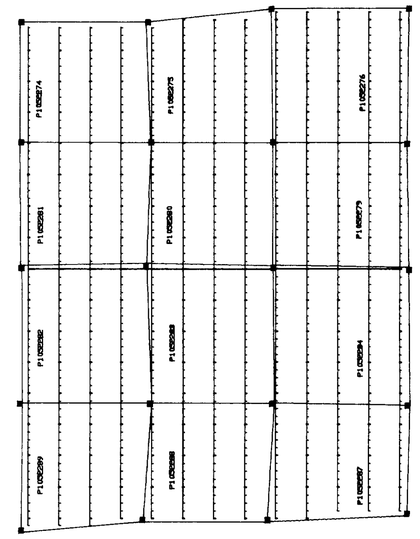
Ontario Ministry of Natural Resources · Ministry of Northern Development and Mines

Date MAY / 1988

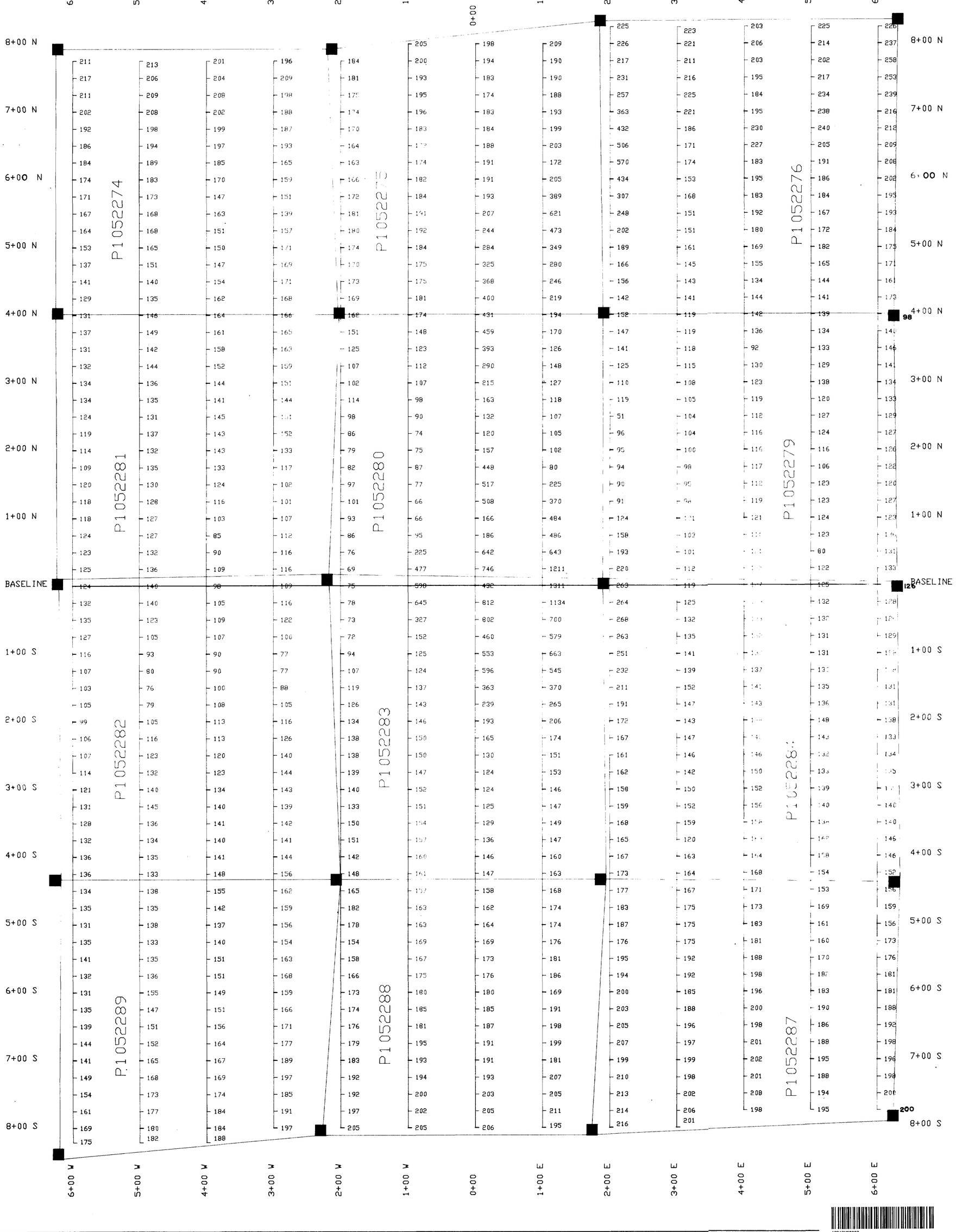
Number G-3852

83°46'

52° 41'



LOCATION MAP *SCALE 1:10,000*



LEGEND

MAGNETOMETER SURVEY

INSTRUMENT: EDA PPM-375/ OMNI IV
DATUM 59700 NANOTESLAS
SENSITIVITY: .01 NANOTESLAS
CONTOUR INTERVAL: 100 NANOTESLAS
MAGNETIC LOW:

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

TOPOGRAPHY

CLAIM POST
RIVER
STREAM
SWAMP
LAKE SHORE

2.11986

BLOCK 43 B/12-03 GRID A1

PROTON MAGNETOMETER

TOTAL FIELD READINGS

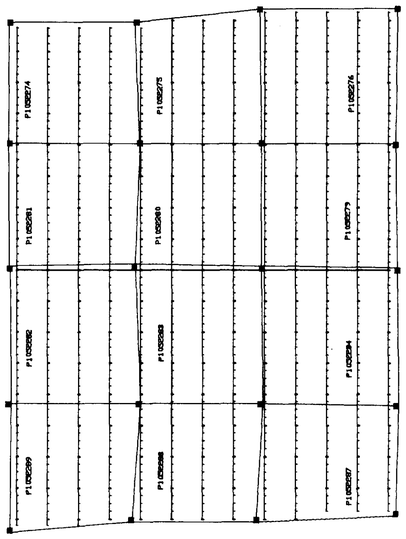
SCALE BAR 0 50 100 150 200 METRES

DATE: MAR. 1988	*SCALE: 1:2500*	*N.T.S. 43-B-12*

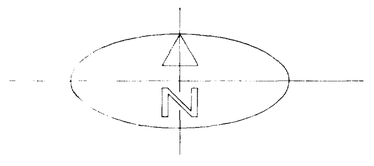
PHANTOM EXPLORATION SERVICES LTD.

83°46'

52° 41'



LOCATION MAP SCALE 1:10,000



LEGEND

MAGNETOMETER SURVEY

INSTRUMENT: EDA PPM-375/ OMNI IV
DATUM 59700 NANOTESLAS
SENSITIVITY: .01 NANOTESLAS
CONTOUR INTERVAL: 100 NANOTESLAS
MAGNETIC LOW:

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

TOPOGRAPHY

CLAIM POST
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STREAM
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LAKE SHORE

2.11986

BLOCK 43 B/12-03 GRID A1

PROTON MAGNETOMETER

TOTAL FIELD CONTOURED READINGS

SCALE BAR 0 50 100 150 200 METRES

DATE: MAR. 1988 | SCALE: 1:2500 | N.T.S. 43-B-12

PHANTOM EXPLORATION SERVICES LTD.