



43B12NW0001

010

REPORT ON A MAGNETIC SURVEY

ANOMALY "GRID Z"
BLOCK "43B/12-02"
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

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 Z" is located within the Porcupine Mining Division.

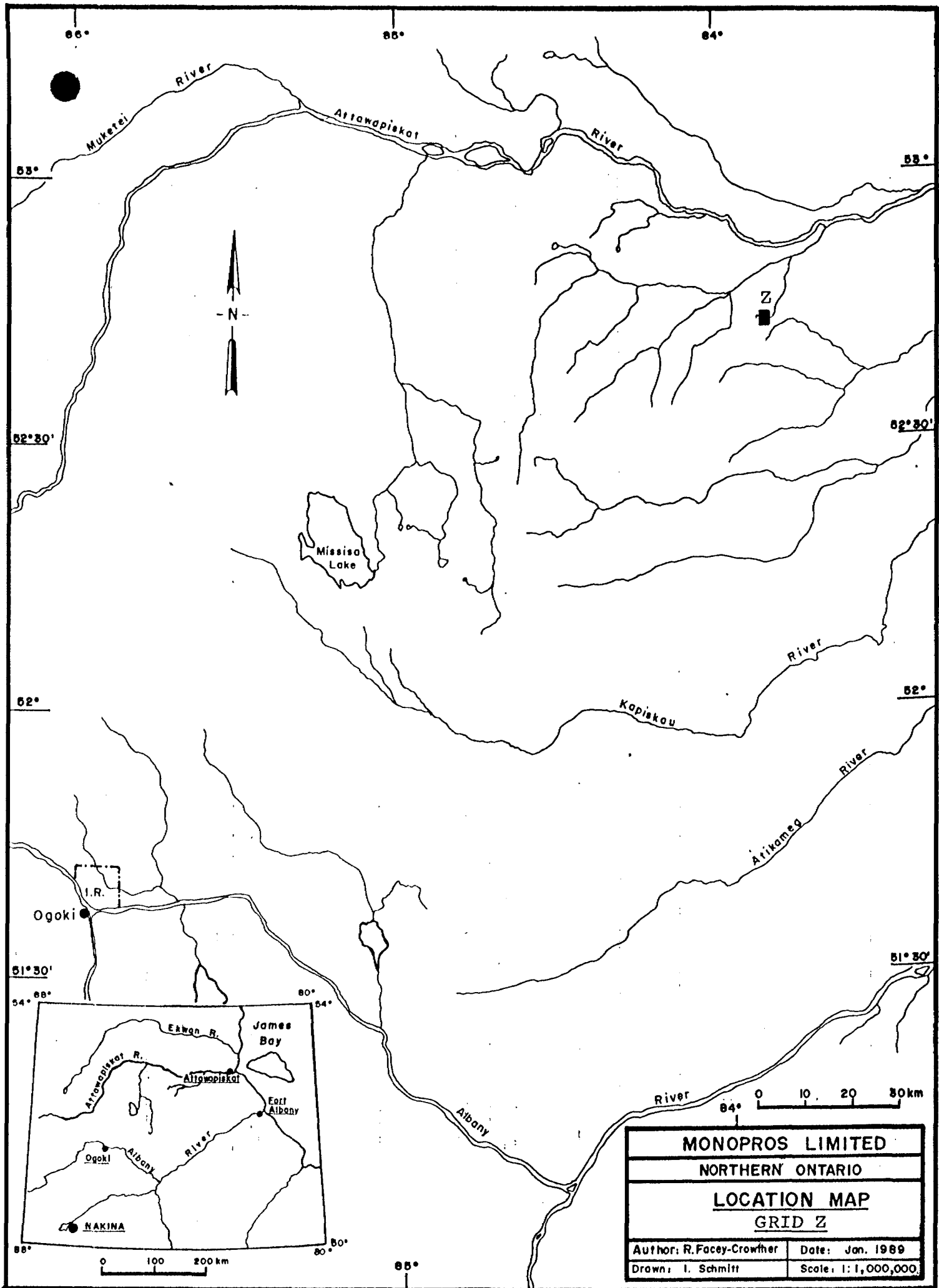
Grid Z consists of a block of 15 claims on Claim Map G-3852. Six claims were added to the north of the original nine claims to extend Grid Z by 800 metres and cover the anomaly. Grid Z is located about 13 kilometres south of the Attawapiskat River on NTS mapsheet 43B/12.

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.



MONOPROS LIMITED	
NORTHERN ONTARIO	
LOCATION MAP	
GRID Z	
Author: R. Facey-Crowther	Date: Jan. 1989
Drawn: I. Schmitt	Scale: 1:1,000,000

4.0 RESULTS

The regional magnetic field is quiet with a background of 59,900 nT. A single roughly circular anomaly occurs with two high values of 60,769 nT at 1+00W 13+25N and 60,683 nT at 1+00W 14+75N.

5.0 RECOMMENDATIONS

A single drill hole is recommended at 1+00W 14+00N to determine the source of the anomaly.

Richard Facey-Crowther

Richard Facey-Crowther
Thunder Bay, Ontario

1



43B 12NW0001

900

02/13/1989

09:48

MONOPROS LIMITED TORONTO

1 416 363 4278

P.18

Ministry of Northern Development and Mines

(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT No. W8906-085

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

2-12005

Mining Act

Type of Survey: **GROUND MAGNETOMETER** Township or Area: **526 834 G-3852**

Claim Holder: **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): **01 02 88 yr. | 31 03 88 yr.** Total Miles of Line Cut: **19.2 Km**

Name and Address of Agent: **R. FACEY-CROWTHER, 1112 Russell St., Unit 6, Thunder Bay, Ontario P7B 5N2**

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

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

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	1052198	✓			
	1052199				
	1052200				
	1052201				
	1052202				
	1052203				
	1052204				
	1052205				
	1052206				

RECEIVED

MAR 1 1989

MINING LANDS SECTION

RECEIVED

DEC 28 1988

RECORDED

DEC 28 1988

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.

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

Verification: 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

ONTOLOGICAL SURVEY DEPARTMENT FILES

MAR - 8 1989

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

For Office Use Only: Total Days Cr. Recorded: 360, Date Recorded: Dec 28/88, Mining Registrar: [Signature], Date Approved as Registrar: [Signature]

Ministry of Northern Development and Mines Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT No.

W 8906-086

Mining Act

- Instructions: - 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 "Expand, Days Cr." column.
- Do not use shaded areas below.

2-12005

Type of Survey(s): **GROUND MAGNETOMETER**

Claim Holder(s): **JONATHAN A. FOWLER**

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

Survey Company: **PHANTOM EXPLORATION/MONOPROS LIMITED**

Date of Survey (from & to): **30 03 88 | 15 04 88**

Total Miles of line cut: **12.9 Km**

Name and Address of Author of Geo-Technical report: **R. FACEY-CROWTHER, 112 Russell St., Unit 6, Thunder Bay, Ontario P7B 5N2**

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)			
Special Provisions	Geophysical	Days per Claim	Mining Claim		Expend. Days Cr.	
			Prefix	Number		
For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	- Electromagnetic	40	P	1052317	[Handwritten checkmark]	
	- Magnetometer			1052318		
	- Radiometric			1052319		
	- Other			1052320		
Geological		1052321				
Geochemical		1052322				
Man Days Complete reverse side and enter total(s) here RECEIVED MAR 1 1989 MINING LANDS SECTION	- Electromagnetic				RECORDED DEC 28 1988	
	- Magnetometer					
	- Radiometric					
	- Other					
Geological						
Geochemical						
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic				RECORDED DEC 28 1988	
	Magnetometer					
	Radiometric					
Expenditures (excludes power stripping)						
Type of Work Performed	RECEIVED DEC 28 1988					
Performed on Claim(s)						
Calculation of Expenditure Days Credits						
Total Expenditures	\$		+	15	=	

Total number of mining claims covered by this report of work. **6**

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 21 1988**

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

For Office Use Only

Total Days Cr. Recorded: **240**

Date Recorded: **Dec 28/88**

Date Approved as Recorded: **12 March 89**

Mining Recorder: **[Signature]**

Branch Director: **[Signature]**

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



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 19.2

MINING CLAIMS TRAVERSED
List numerically

P 1052198
 (prefix) (number)
 P 1052199
 P 1052200
 P 1052201
 P1052202
 P.1052203
 P 1052204
 P 1052205
 P 1052206

If space insufficient, attach list

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

TOTAL CLAIMS 9

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 25 Metres 637 Number of Readings 100 Metres 637
Station interval Line spacing
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 _____



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 112 Russell St., Unit 6, Thunder Bay
Covering Dates of Survey 30/03/88 - 15/04/88
Total Miles of Line Cut 12.9 Km

MINING CLAIMS TRAVERSED
List numerically
P 1052317
P 1052318
P 1052319
P 1052320
P 1052321
P 1052322

SPECIAL PROVISIONS CREDITS REQUESTED
Geophysical
-Electromagnetic
-Magnetometer 40
-Radiometric
-Other
Geological
Geochemical
DAYS per claim

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
Table with columns: File No., Type, Date, Claim Holder

TOTAL CLAIMS 6

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 481 Number of Readings 481
Station interval 25 Metres Line spacing 100 Metres
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 _____

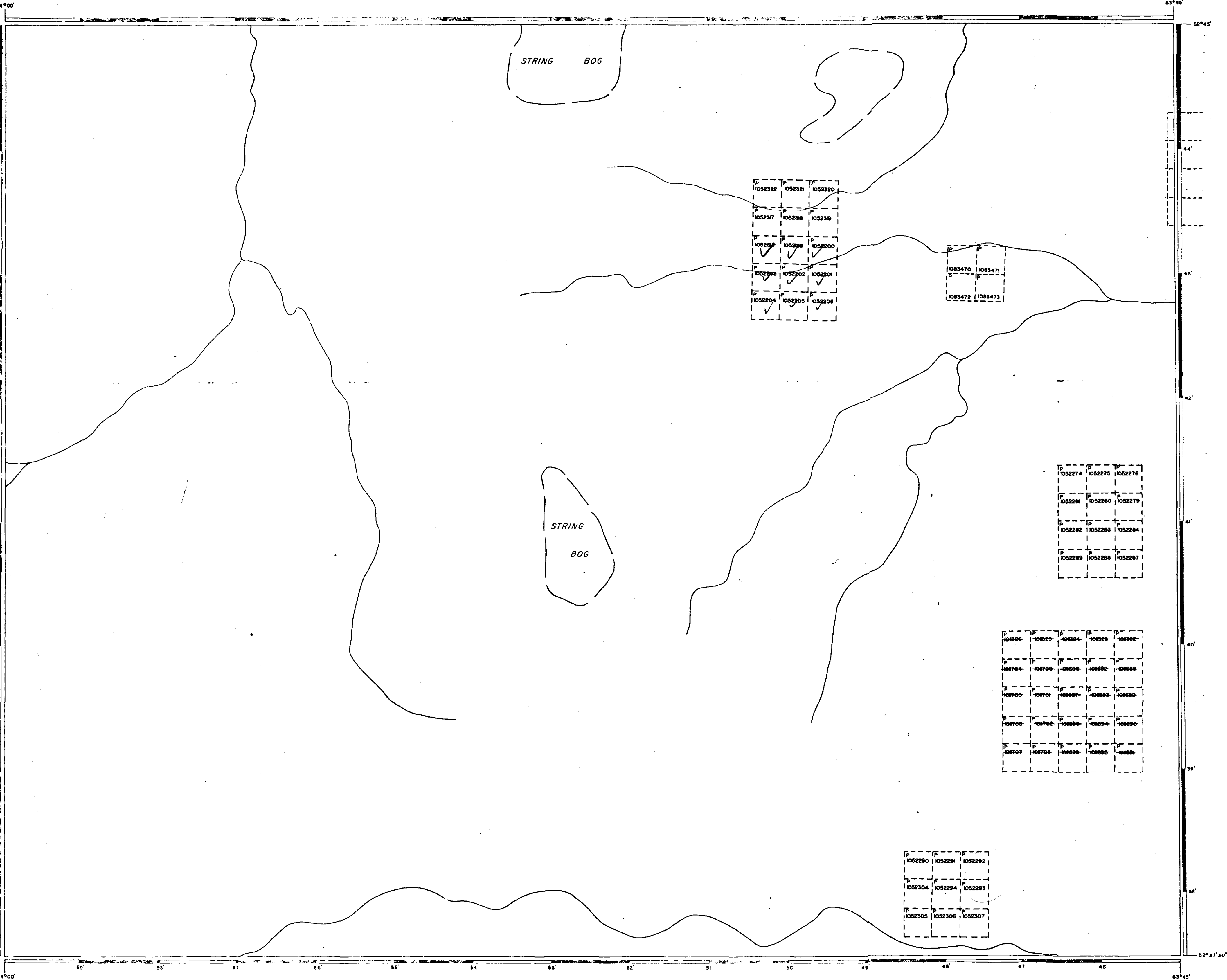
Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

527-834



84°00'

83°45'

52°45'

52°45'

52°37'30"

52°37'30"

525-834

LEGEND

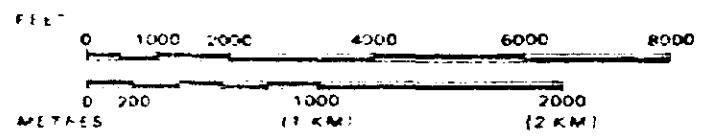
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- 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 1912, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



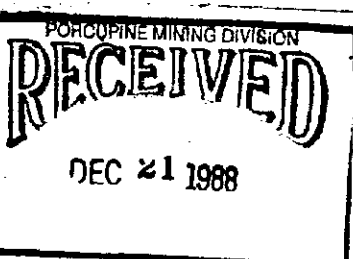
AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File



200



AREA

526-834

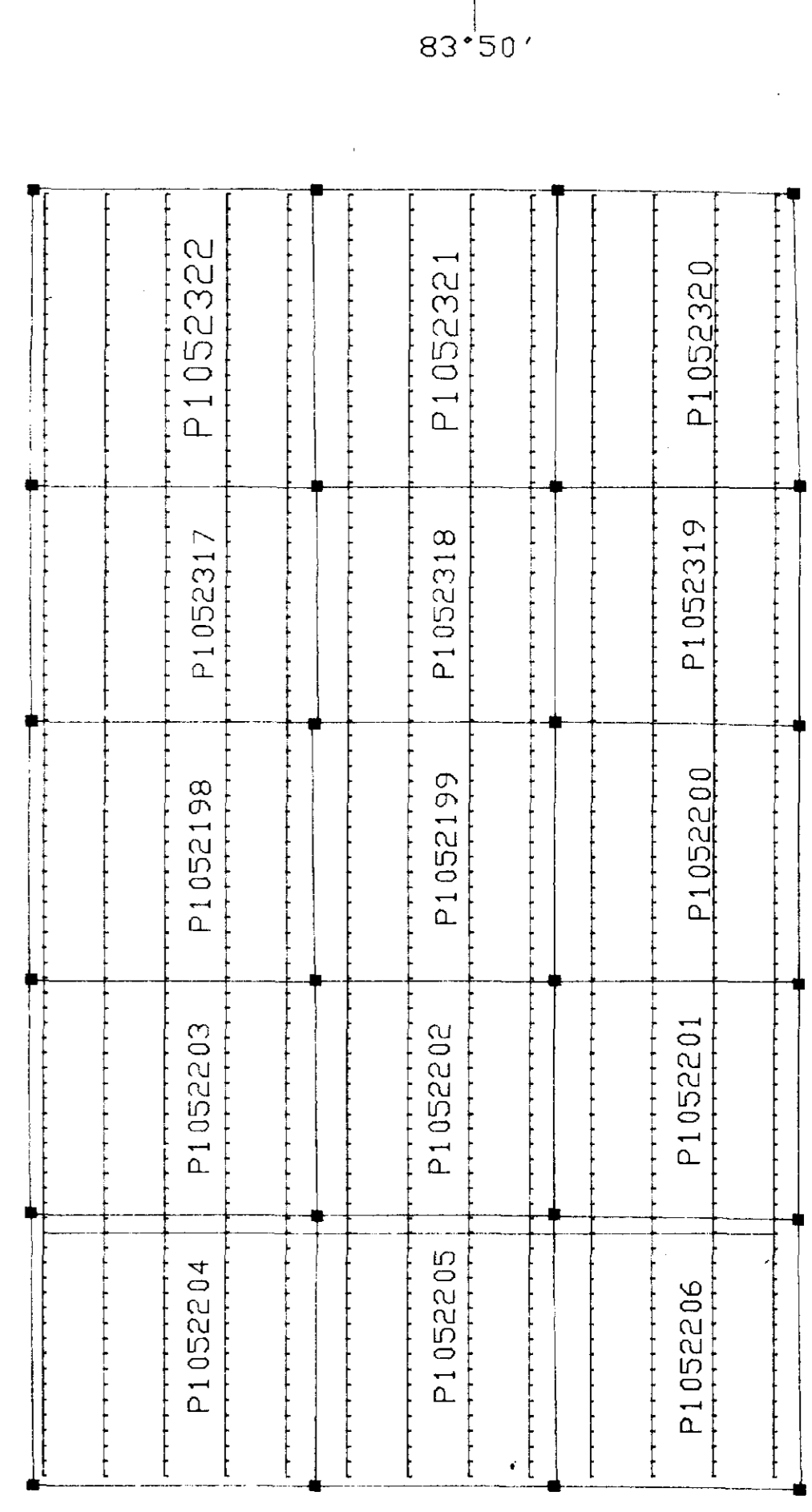
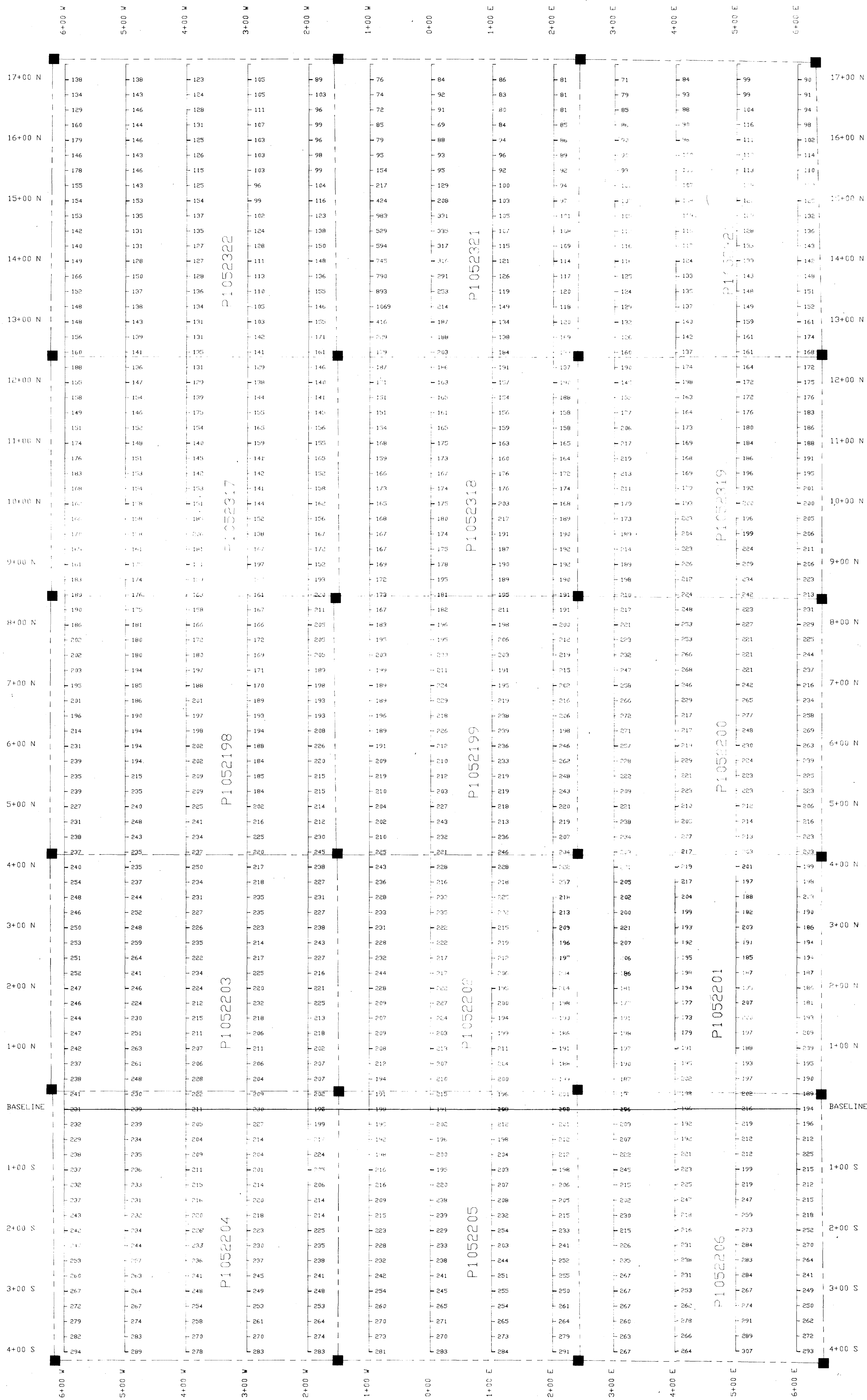
M.N.R. ADMINISTRATIVE DISTRICT
 MOOSONEE
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 KENOJA/PATRICIA PORTION

Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

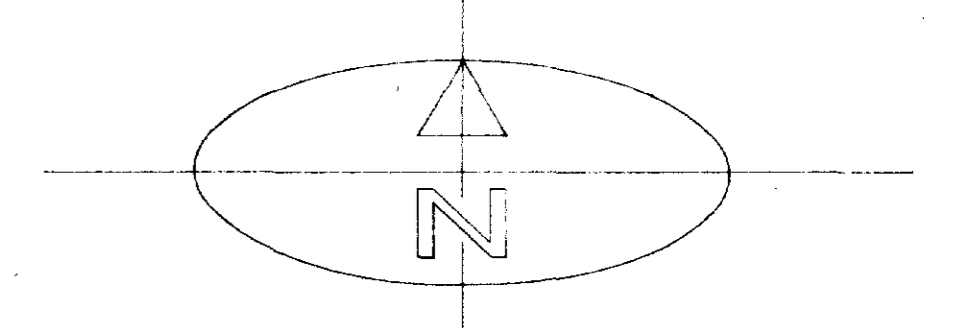
Date MAY / 1988

Number

G-3852



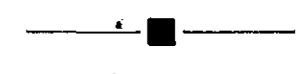

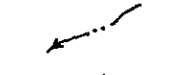
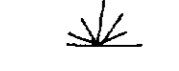

LOCATION MAP SCALE 1:10,000



LEGEND

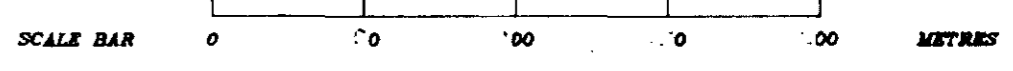
MAGNETOMETER SURVEY
 INSTRUMENT: EDA PPM-375 / OMNI IV
 DATUM: 59700 NANOTESLAS
 SENSITIVITY: 01 NANOTESLAS
 CONTOUR INTERVAL: 50 NANOTESLAS
 MAGNETIC LOW: 50

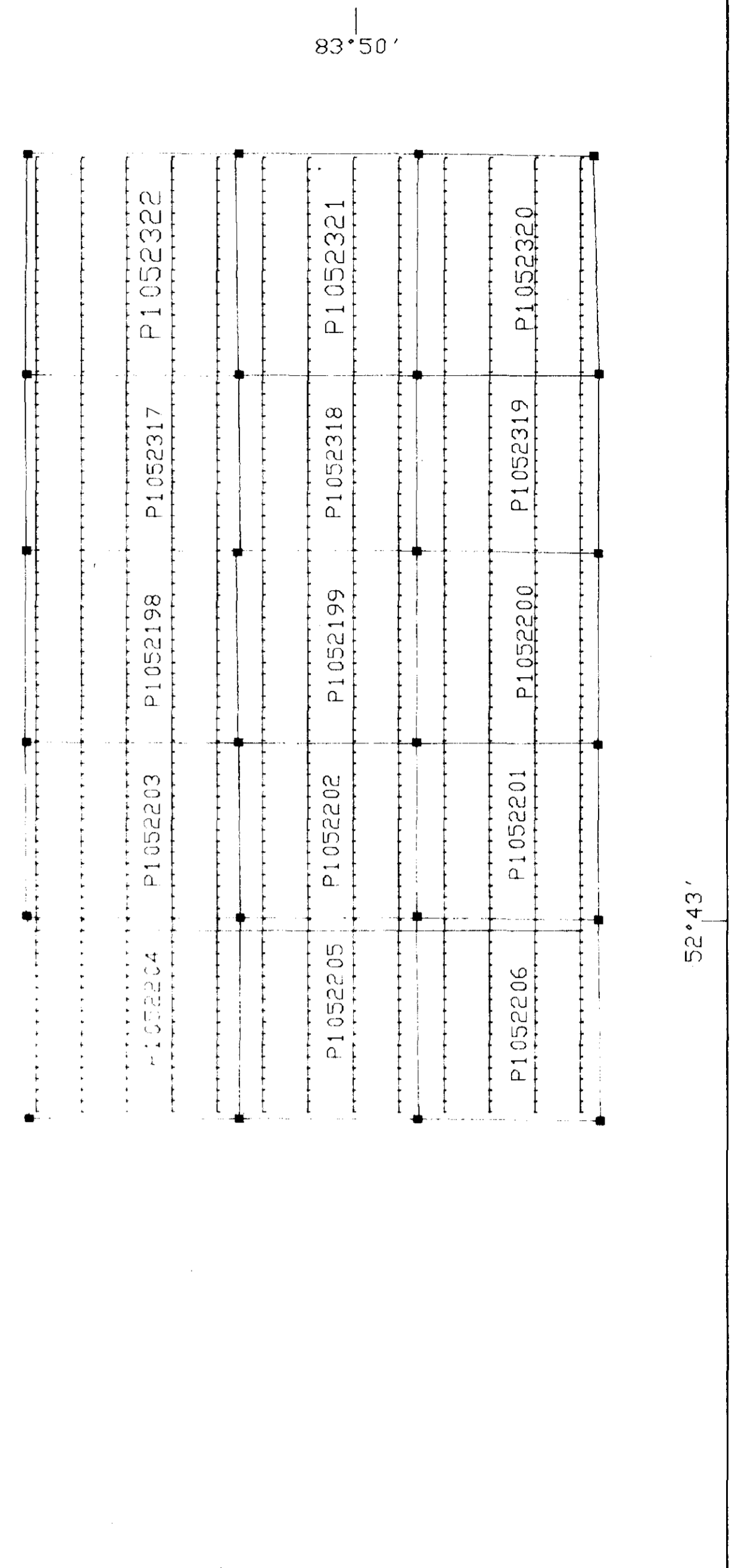
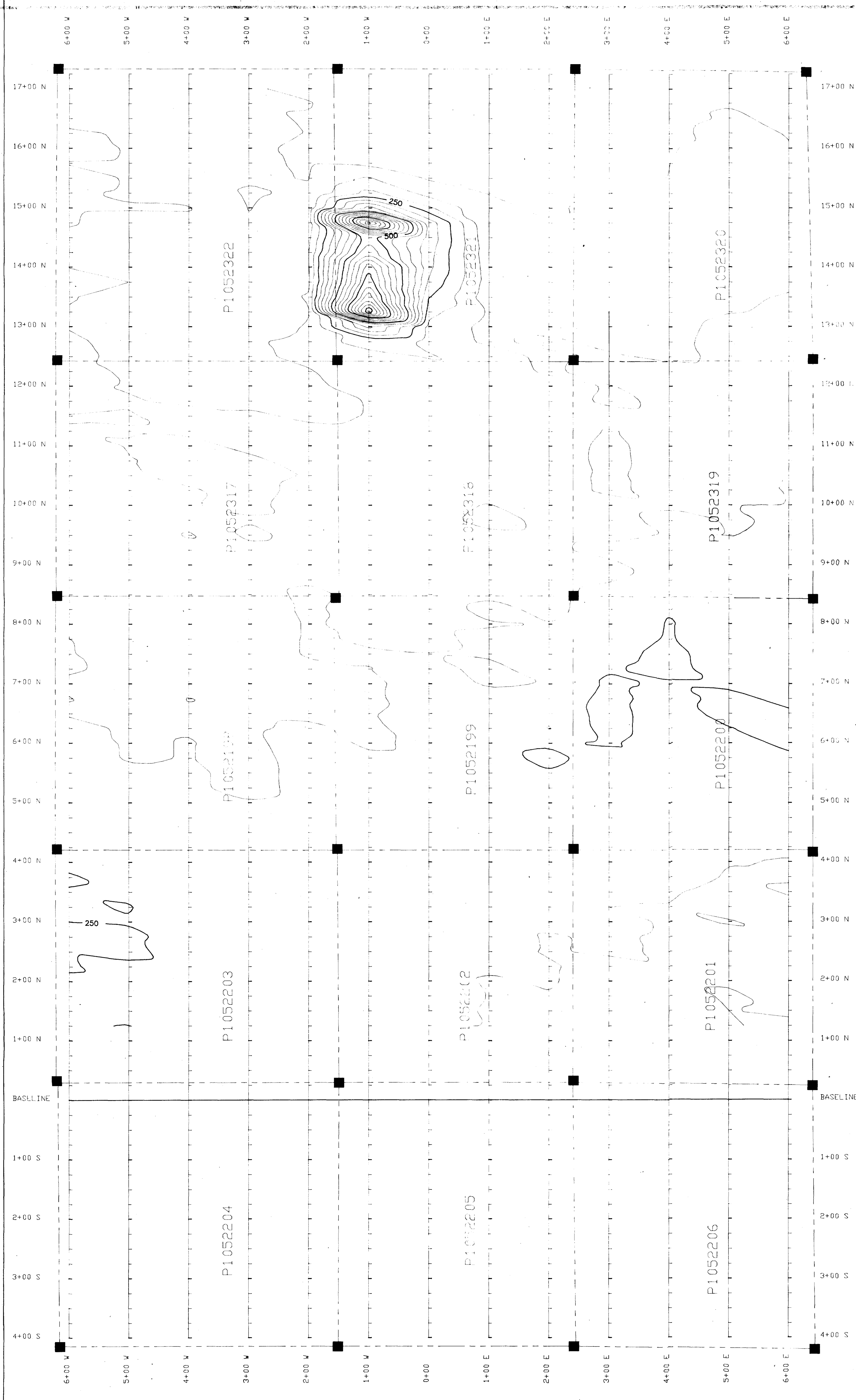
BASE STATION RECORDER
 INSTRUMENT: EDA PPM-375 / OMNI IV
 RECORDING INTERVAL: 20 SECONDS

TOPOGRAPHY
 CLAIM POST 
 RIVER 
 STREAM 
 SWAMP 
 LAKE SHORE 

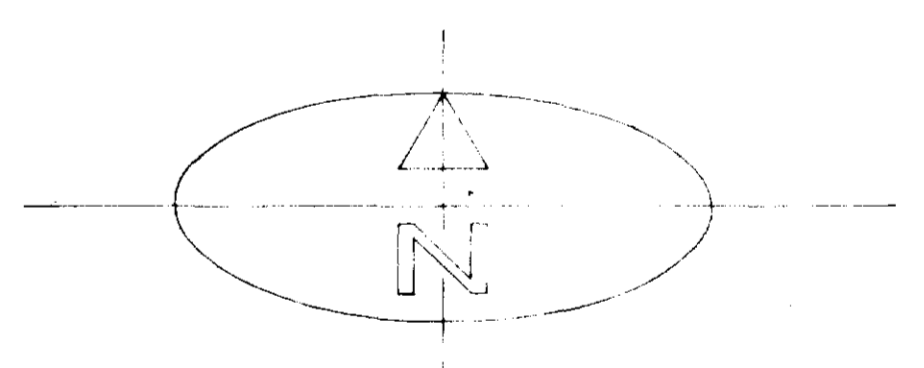
2.12005

BLOCK 43 B/12-02 GRID Z
PROTON MAGNETOMETER
TOTAL FIELD READINGS





LOCATION MAP SCALE 1:10,000



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

2.12005

BLOCK 43 B/12-02 GRID Z
PROTON MAGNETOMETER
TOTAL FIELD CONTOURED READINGS

