



42A08NW0209 2.11202 PLAYFAIR

010

**RECEIVED**

**MAY 16 1988**

**MINING LANDS SECTION**

**GEOPHYSICAL REPORT**

**ON THE**

**PLAYFAIR TOWNSHIP PROPERTY**

**FOR**

**JOUTEL RESOURCES LTD**

**Douglas J. Meikle  
Exsics Exploration Ltd.  
April, 1988**



42A08NW0209 2.11202 PLAYFAIR

010C

### TABLE OF CONTENTS

	Page
INTRODUCTION. . . . .	1
PERSONNEL . . . . .	1
PROPERTY LOCATION AND ACCESS . . . . .	2
MAGNETOMETER SURVEY . . . . .	2
HORIZONTAL LOOP, ELECTROMAGNETIC SURVEY . . . . .	3
SURVEY RESULTS	
Magnetometer Survey . . . . .	4
Horizontal Loop EM Survey . . . . .	5
CONCLUSIONS AND RECOMMENDATIONS . . . . .	6

### LIST OF MAPS

- Map #1 Magnetometer Survey
- Map #2 Max Min II Survey at 444 Hz
- Map #3 Max Min II Survey at 1777 Hz

### LIST OF FIGURES

- Figure 1 Location Map
- Figure 2 Property Location Map
- Figure 3 Claim Location Map and Linecutting Sketch

### APPENDICES

- Appendix A Scintrex MP-2 Magnetometer Specifications
- Appendix B Apex Parametrics Max Min II
- Appendix C Ministry of Northern Development & Mines Geophysical Data Sheet

## INTRODUCTION

During the month of February 1988, Exsics Exploration Ltd., completed a geophysical program under contract with Joutel Resources Limited on a group of five claims called the Playfair Township Property.

A grid was first established on the property by Alquest Exploration Limited. The grid consists of a 1.6 km baseline and 8.3 km of north-south lines turned off every 100 meters with 20 meter station intervals (see fig. 3).

The entire cut grid was then surveyed with a Scintrex MP-2 magnetometer and an Apex Max Min II Horizontal Loop System at twenty meter station intervals. The objective of the surveys was to find and delineate geological structures which might be favourable to gold or base-metal deposition.

## PERSONNEL

The following people were directly involved with the surveys:

Lanny Anderson . . . . . Timmins, Ontario  
Jeff Peterson . . . . . Crystal Falls, Ont.  
Gerry Boucher . . . . . Timmins, Ontario

CONCESSION IV

CONCESSION IV

POWER LINE

CONCESSION ROAD

20+00

2+00s

2+00s

4+00s

4+00s

6+00s

8+00s

983209

894056

894055

894054

983210

L10700W

L0077

L6700W

L9700W

L2700W

L0700

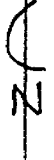
L16700W

L19700W

L12700W

LOT 9

LOT 8



EXSICS EXPLORATION LTD.  
P.O. Box 1880, P4N-7X1  
Suite 13, Hollinger Bldg, Timmins Ont.  
Telephone: 705-267-451

CLIENT: JOUTEL RESOURCES LTD.		
PROPERTY: PLAYFAIR TOWNSHIP		
TITLE: LINE CUTTING SKETCH AND CLAIM MAP <span style="float: right;">Fig. 3</span>		
Date: April/1988	Scale: 1"=200m	NTS:
Drawn: D.M.	Interp:	Job No. EE-119

### PROPERTY LOCATION AND ACCESS

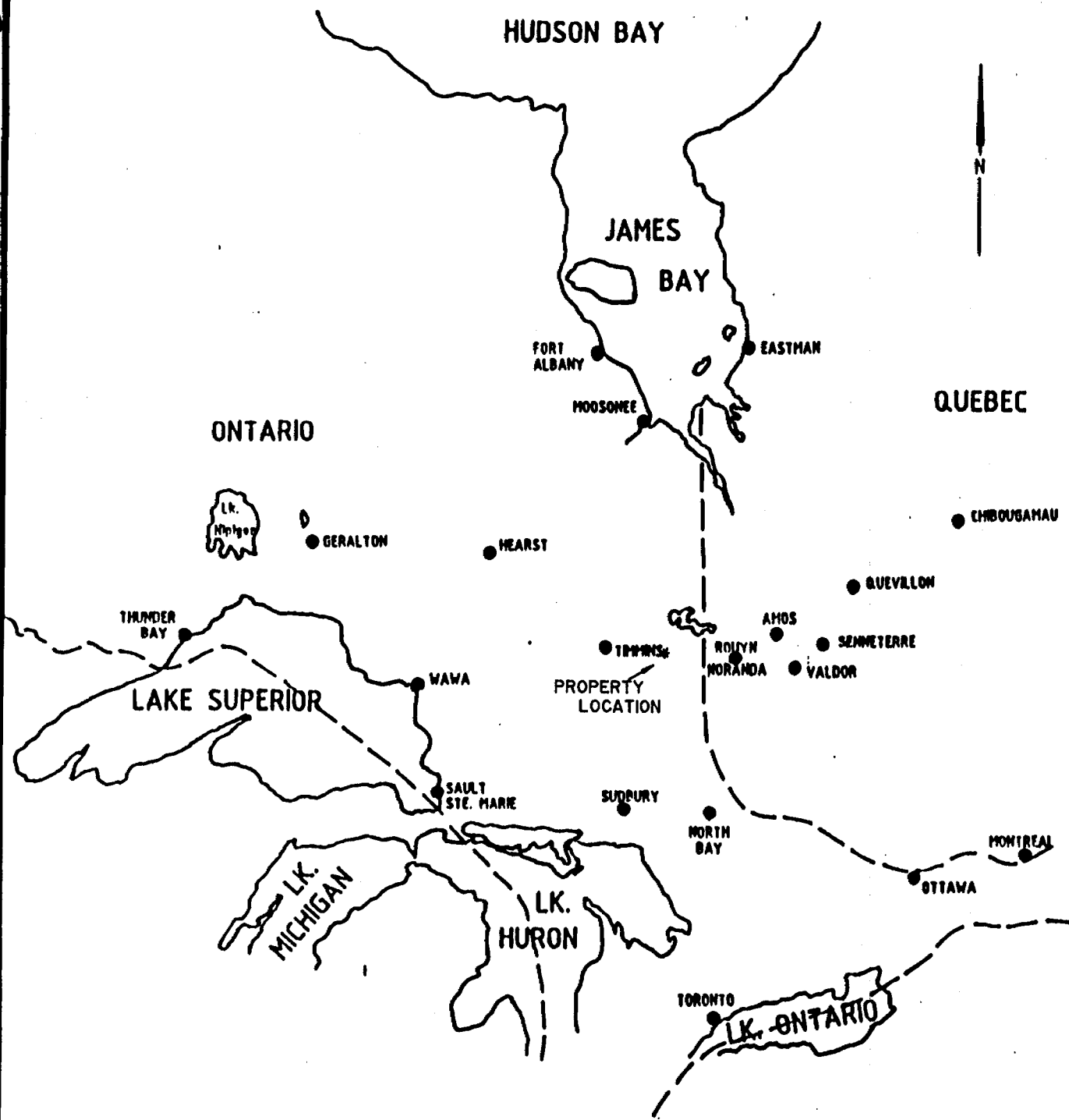
The Playfair Township Property consists of five contiguous non-patented claims in the north half of Concession IV, Lot 8 and Lot 9 of Playfair Township, in the Larder Lake Mining Division. The claims are located approximately 7 miles southwest of the town of Ramore, Ontario (see Fig.2).


The claims are easily accessed by a concession road which leads west from Hwy. 11 north approximately 3 miles south of Ramore. This concession road is accompanied by a power line. Both of these features are found just within, and parallel to, the northern boundary of the property (see figs. 1 & 2).

### MAGNETOMETER SURVEY

The entire grid was surveyed at 30 meter station intervals with a Scintrex MP-2 total field, proton precession magnetometer (see Appendix A).

Diurnal variations in the earth's total magnetic field were removed by the "Baseline Looping Method". The baseline 0 + 00 was surveyed from L 0 + 00 to L 16 + 00 W with readings taken where each cross-line began. The surveyor then quickly returned to L 0 + 00 to re-read the field at that point. No significant change in the field was recorded. Therefore, all baseline values were valid tie-in stations relative to L 0, 0 + 00 S. As a loop of two north-south cross-lines were surveyed, the operator re-read the stations on the baseline tie-in to check for a change



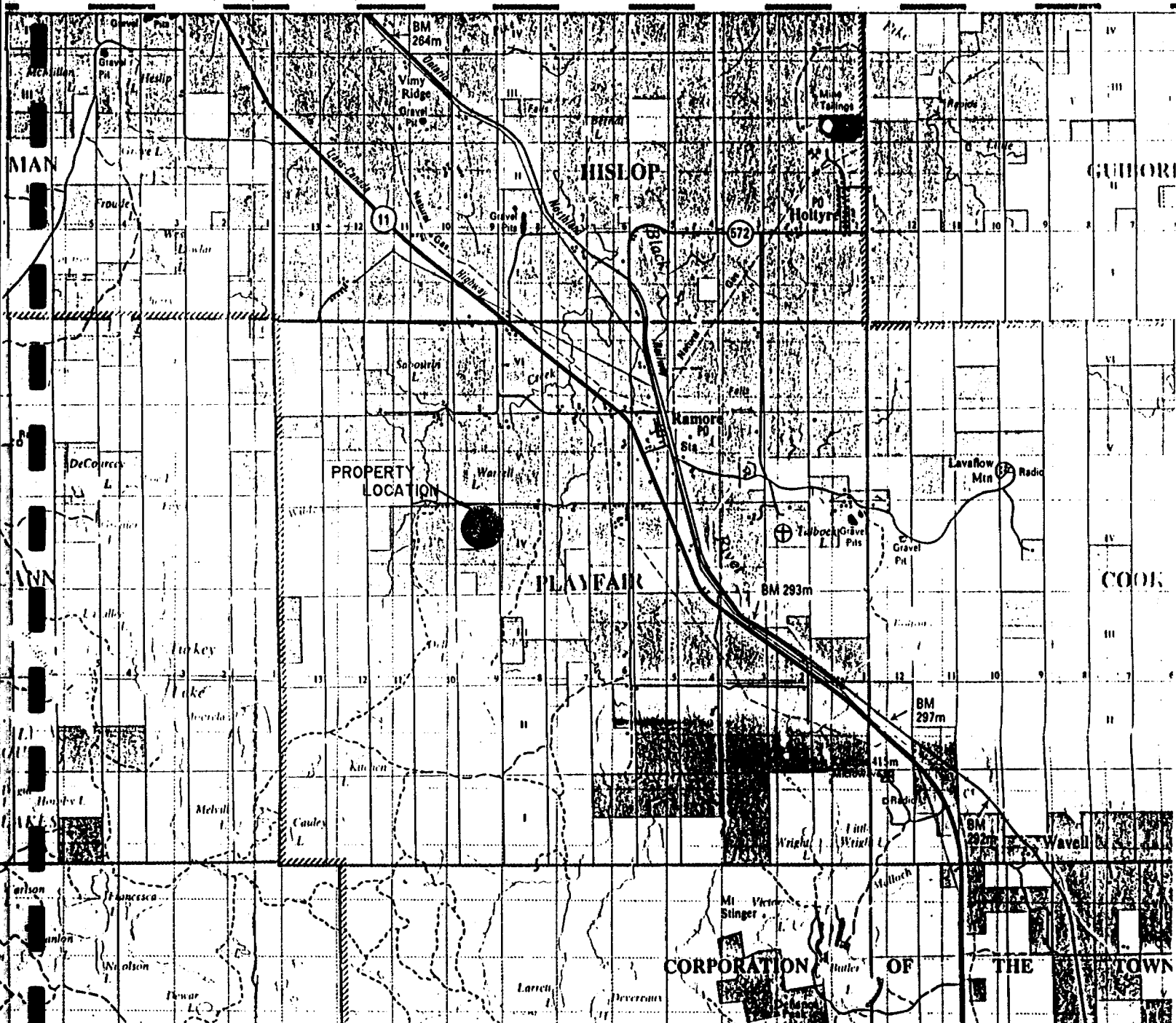
	<b>EXSICS EXPLORATION LTD.</b> P.O. Box 988, P4M-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-6751	
	<b>CLIENT: JOUTEL RESOURCES LTD.</b>	
<b>PROPERTY: PLAYFAIR TOWNSHIP PROPERTY</b>		
<b>TITLE:</b>  <div style="text-align: center;"><b>LOCATION MAP</b></div>		Fig. 1
<b>Date:</b> April 1988	<b>Scale:</b> 1" = 125miles	<b>NTS:</b>
<b>Drawn:</b>	<b>Interp:</b>	<b>Job No.</b> EE-119

to Matheson 4.8 km

to Matheson

50

20'



PROPERTY LOCATION

PLAYFAIR

HISLOP

GRIBORO

COOK

CORPORATION OF THE TOWNSHIP

BENEFIT



**EXSICS EXPLORATION LTD.**  
 P.O. Box 1880, P4N-7X1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-4151

CLIENT: JOUTEL RESOURCES LTD.

PROPERTY: PLAYFAIR TOWNSHIP PROPERTY

TITLE: PROPERTY LOCATION

Fig.2

Date: April 1988

Scale: 1:100,000

NTS:

Drawn:

Interp:

Job No. EE-119

in the total field from the time that the baseline was first surveyed. Any change in the field from the last baseline tie-in would be removed by linear interpolation based on the time elapsed. This procedure resulted in data which is precise to within 10 non-teslas.

The corrected data was plotted on a base map at a scale of 1:2500. Then it was contoured at an interval of 250 nano-teslas (see map no. 1). A base level of 58,000 nano-teslas was removed from each reading for ease in data manipulation and interpretation.

#### HORIZONTAL LOOP, ELECTROMAGNETIC SURVEY

A horizontal loop, moving coil EM survey was done over the entire grid, with the Apex Parametrics Max Min II System in maximum coupled, horizontal loop mode (see Appendix B). Data was recorded from 444 Hz and 1777 Hz frequency transmissions at 30 meter station intervals. The plot point was considered to be located at exactly half the distance between the receiver coils and the transmitter coil. Both the inphase and quadrature phase of the secondary field were recorded as percentages with a precision of +/- 1 percent.

The data for the two different frequencies was plotted on two separate base maps (see maps no's. 2 & 3). Both phases (in phase and quadrature) were profiled at a scale of 1 cm = 10 %.



## SURVEY RESULTS

### Magnetometer Survey:

The magnetometer survey was very successful in providing much precise and detailed structural information (see map no. 1). This ground survey matched very closely the OGS airborne survey flown by Questor in 1984.

The main structural contacts appear to trend E-NE. The two most prominent features are the two zones of magnetic highs trending E-NE across the property. These two zones may be related but the zone to the south-east of the property is more intense. The airborne map <sup>1</sup> shows a high horizontal gradient from south of the property terminating in distinct pockets of greater magnetic intensity. The ground survey confirms the airborne survey (see lines 0 + 00 - 4 + 00 W and line 12 + 00 W, Map no. 1), and goes further to reveal more subtle magnetic peaks which are not evident on the airborne survey (see lines 6 + 00 W and 7 + 00 W at 2 + 50 S, line 12 + 00 W and 13 + 00 W, 2 + 00 S - 2 + 25 S and line 10 + 00 W, 3 + 50 S, Map no. 1). The zone of magnetic highs to the south-east does not resemble a dike and yet is very intense. Therefore, it may reflect the presence of an

---

1. OGS, 1984: Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, Playfair Township, District of Cochrane; by Questor Surveys Limited for the Ontario Geological Survey, Scale 1:20,000, Survey and compilation March to July, 1983.

iron formation. The magnetic depression which is found north of this high, on Lines 3 + 00 W to 0 + 00 W (see Map no. 1) is likely the result of the polarized electromagnetic nature of the magnetic high to the south.

The zone of magnetic highs striking N-E across the northwest corner of the property (see Map no. 1) could reflect a swelling and pinching iron formation which may be related to the other zone magnetic highs to the south-east of the property. However, this zone is broader and less intense and it could reflect the presence of ultra-mafics.

#### Horizontal Loop EM Survey:

As expected, the most prominent EM feature discerned by the Max Min II System, is the power line running along the northern boundary of the property. This is the only EM feature for this property shown on the 1984 OGS airborne map (see Footnote no.1).

Some very slight anomalies show up in the Max Min II data (see maps no's 2 & 3). Most of these are obviously due to minor chaining irregularities which are common to these surveys. The power line has created an electromagnetic field which caused a significant deflection in the readings near the north boundary.

Two anomalies cannot be unequivocally explained away by the power line or the chaining. One of these anomalies is found on lines 3 + 00 W and 2 + 00 S only on the 1777 Hz data.

Interpretation based on vertical models shows the anomaly to be weak (4.4 mhos) and no more than 35 feet deep. However, the anomaly is coincident with a magnetic depression flanking the intense magnetic high to the south. This coincidence suggests that the anomaly may reflect a current induced in the overburden by the polarized field surrounding the magnetic high.

The other anomaly of interest is found on Lines 12 + 00 W and 13 + 00 W at 1 + 50 S (see maps no's 2 & 3 ). Interpretation of the anomaly based on a vertical model would show this anomaly to be from 8 feet deep (1777 Hz data) to 36 feet deep (444 Hz data) showing a conductivity width of approximately 10 mhos on both frequencies. Closer examination of this anomaly reveals it to be a trough lying between the power line to the north and a high background ridge-like response to the south. Therefore, it may not be a true conductor.

#### CONCLUSIONS AND RECOMMENDATIONS

The Max Min II Survey results would indicate that electromagnetic surveys are not satisfactory geological tools to use to explore for minerals on this property. Any sulphides on the property may be disseminated, and therefore, non-conductive. If a shear zone were present, the sulphides and other associated chargeable minerals may be aligned along strike in such a way as to be non-conductive. The power line along the northern boundary appears to have a far-reaching influence on the EM response.

This author feels that this property would be an ideal one on which to use the induced polarization, time-domain method. A survey of this type would detect any significant disseminated (or massive) sulphide deposit comprising as little as 1-2% of the total mineralization. The accompanying resistivity data would be useful in describing any anomalies and structural anomalies and bedrock changes. The IP survey would be a useful tool for testing the two Max Min II anomalies, mentioned above, for true conductivity and sulphide content and it would help in deciding a drill placement on any anomalies detected.

Respectfully submitted,

A handwritten signature in cursive script that reads "Douglas J. Meikle". The signature is written in dark ink and is centered on the page.

Douglas J. Meikle

CERTIFICATION

I, Douglas James Meikle, of Timmins, Ontario, certify that:

1. I have been employed in the field of exploration geophysics in the field of exploration geophysics, continuously since April, 1980, in Ontario, Quebec, Northwest Territories, and New Brunswick.
2. I have been employed by Rayan Exploration Ltd., Geo-Ex Ltd., Robert S. Middleton Exploration Services Ltd., Durham Geological Services Inc., and most recently, Exsics Exploration Ltd.
3. I have based conclusions and recommendations contained in this report on knowledge of the area, my work experience, and on the results of the field work conducted on the property during which was carried out under my overall supervision.
4. I hold no interest, directly or indirectly in this property other than professional fees, nor do I expect to receive any interest in the property or in or any of it's subsidiary companies.

Dated this 11th day of April,  
1988, at Timmins, Ontario

  
D.J. Meikle

APPENDICES

APPENDIX A



# SCINTREX

earth science division

## Proton Precession Magnetometer for Portable or Base Station Use

### MP-2

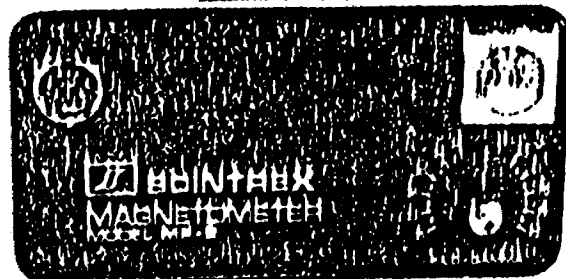
- features**
- ▶ 1 gamma sensitivity and accuracy over range of 20,000 to 100,000 gammas.
  - ▶ Operates in very high gradients, to 5000 gammas per metre.
  - ▶ Ultra small size and weight.
  - ▶ Up to 25,000 readings from only 8 D cells.
  - ▶ Battery pack isolated from electronics for corrosion protection.
  - ▶ Battery pack easily extended for winter use.
  - ▶ Light-emitting diode digital display, with complete test feature.
  - ▶ Unique no-glare polarized reflector permits easy reading in bright sunlight.
  - ▶ Indicator light warning of excessive gradient, ambient noise or electronic failure.
  - ▶ Digital readout of battery voltage.
  - ▶ Rugged all metal housing for rough field use at all temperatures.
  - ▶ Automatic recycling or external trigger features permit ready conversion to base station use.
  - ▶ Short reading time.
  - ▶ Broad operating temperature range.

The MP-2 is a portable one gamma proton precession magnetometer for field survey or base station use. The optimized design of sensor and circuitry using the latest CMOS components has resulted in a very light weight, low power consumption, rugged and reliable magnetometer.

Light emitting diodes coupled with an ingenious optically polarized reflector combine solid state reliability with easy reading even in bright sunlight.

A standard automatic recycling feature allows ready use of the MP-2, with suitable (optional) interfacing, as a base station recorder in analogue or digital form. Alternatively, a remote trigger can be used.

The noise-cancelling dual-coil sensor and electronics have been so designed as to effectively eliminate reading problems due to virtually all magnetic gradients which may be encountered in field survey conditions.





**TECHNICAL  
DESCRIPTION OF  
MP-2  
MAGNETOMETER**



**SCINTREX**

<b>RESOLUTION</b>	1 Gamma.
<b>TOTAL FIELD ACCURACY</b>	$\pm 1$ Gamma over full operating range.
<b>RANGE</b>	20,000 to 100,000 gammas in 25 overlapping steps.
<b>INTERNAL MEASURING PROGRAMME</b>	Single reading -- 3.7 seconds. Recyc. feature permits automatic repetitive readings 3.7 seconds intervals.
<b>EXTERNAL TRIGGER</b>	External trigger input permits use of sampling intervals longer than 3.7 seconds.
<b>DISPLAY</b>	5 digit LED (Light Emitting Diode) readout displaying total magnetic field in gammas or normalized battery voltage.
<b>RECORDER OUTPUT (Optional)</b>	Multiplexed precession frequency and gate time outputs for interfacing with incremental tape recorders (eg. Increlogger) for digital recording. As an additional option a digital to analogue converter is available for use with analogue recorders.
<b>GRADIENT TOLERANCE</b>	Up to 5000 gammas/metre.
<b>POWER SOURCE</b>	8 alkaline "D" cells provide up to 25,000 readings at 25° C under reasonable signal/noise conditions (less at lower temperatures). Premium carbon-zinc cells provide about 40% of this number.
<b>SENSOR</b>	Omnidirectional, shielded, noise-cancelling dual coil, optimized for high gradient tolerance.
<b>HARNESS</b>	Complete for operation with staff or back pack sensor.
<b>OPERATING TEMPERATURE RANGE</b>	-35°C to +60°C.
<b>SIZE</b>	Console, with batteries: 80 x 160 x 250mm. Sensor: 80 x 150mm. Staff: 30 x 1550mm. (extended) 30 x 600 mm. (collapsed)
<b>WEIGHTS</b>	Console, with batteries: 1.8kg. Sensor: 1.3kg. Staff: 0.6kg.

**SCINTREX LIMITED**  
222 Sutherland Road,  
Concord, Ontario, Canada L4K 1B5  
TELEPHONE (416) 869-2200, TELELEX 06-964570

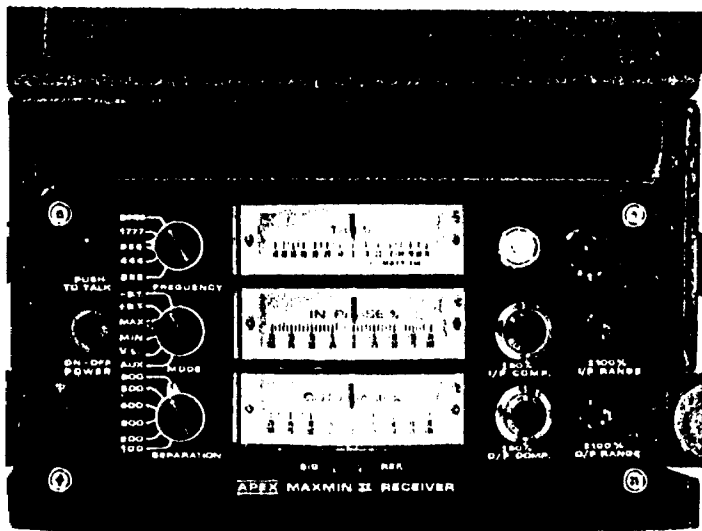
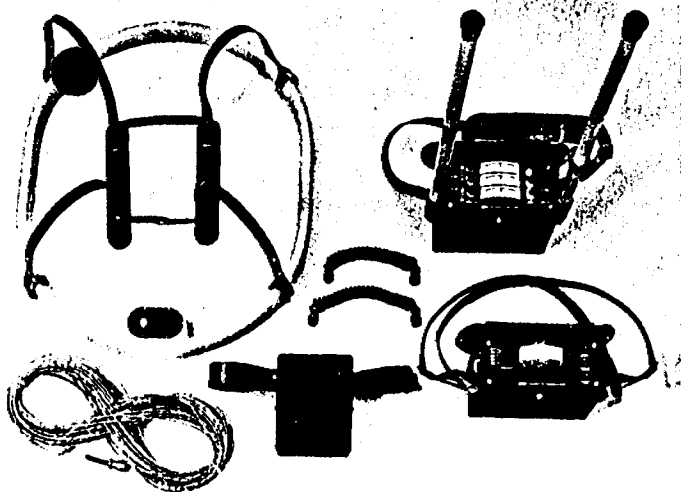
APPENDIX B.

# APEX

# MAXMIN II PORTABLE EM

- Five frequencies: 222, 444, 888, 1777 and 3555 Hz.
- Maximum coupled (horizontal-loop) operation with reference cable.
- Minimum coupled operation with reference cable.
- Vertical-loop operation without reference cable.
- Coil separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.
- Reliable data from depths of up to 180m (600 ft).
- Built-in voice communication circuitry with cable.
- Tilt meters to control coil orientation.





**SPECIFICATIONS :**

**Frequencies:** 222, 444, 888, 1777 and 3555 Hz.

**Modes of Operation:** MAX: Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with refer. cable.  
 MIN: Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.  
 V.L. : Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

**Coil Separations:** 25, 50, 100, 150, 200 & 250m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF). Coil separations in V.L. mode not restricted to fixed values.

**Parameters Read:** - In-Phase and Quadrature components of the secondary field in MAX and MIN modes.  
 - Tilt-angle of the total field in V.L. mode.

**Readouts:** - Automatic, direct readout on 90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.  
 - Tilt angle and null in 90mm edgewise meters in V.L. mode.

**Scale Ranges:** In-Phase: ±20%, ±100% by push-button switch.  
 Quadrature: ±20%, ±100% by push-button switch.  
 Tilt: ±75% slope.  
 Null (V.L.): Sensitivity adjustable by separation switch.

**Readability:** In-Phase and Quadrature: 0.25 % to 0.5 % ; Tilt: 1%.

**Repeatability:** ±0.25% to ±1% normally, depending on conditions, frequencies and coil separation used.

**Transmitter Output:** - 222Hz : 220 Atm<sup>2</sup>  
 - 444Hz : 200 Atm<sup>2</sup>  
 - 888Hz : 120 Atm<sup>2</sup>  
 - 1777Hz : 60 Atm<sup>2</sup>  
 - 3555Hz : 30 Atm<sup>2</sup>

**Receiver Batteries:** 9V trans. radio type batteries (4). Life: approx. 35hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.

**Transmitter Batteries:** 12V 8Ah Gel-type rechargeable battery. (Charger supplied).

**Reference Cable:** Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.

**Voice Link:** Built-in intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, via reference cable.

**Indicator Lights:** Built-in signal and reference warning lights to indicate erroneous readings.

**Temperature Range:** -40°C to +60°C (-40°F to +140°F).

**Receiver Weight:** 6kg (13 lbs.)

**Transmitter Weight:** 13kg (29 lbs.)

**Shipping Weight:** Typically 60kg (135 lbs.), depending on quantities of reference cable and batteries included. Shipped in two field/shipping cases.

Specifications subject to change without notification

**APEX PARAMETRICS LIMITED**  
 200 STEELCASE RD. E., MARKHAM, ONT., CANADA, L3R 1G2

Phone: (416) 495-1612 Cables: APEXPARA TORONTO Telex: 06-966773 NORDVIK TOR

APPENDIX C



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) HORIZONTAL LOOP EM AND MAGNETOMETER

Township or Area PLAYFAIR TWP.

Claim Holder(s) JOUTEL RESOURCES LTD.

Survey Company EXSICS EXPLORATION LTD.

Author of Report DOUGLAS J. MEIKLE

Address of Author P.O. Box 1880 SUITE 13, HOLLINGER BLDG., TIMMINS, ONT.

Covering Dates of Survey FEB. 25 to FEB. 28, 1988 (linecutting to office)

Total Miles of Line Cut 8.3 KM N-S LINE 1.6 KM E-W LINE

MINING CLAIMS TRAVERSED List numerically

894054 (prefix) (number)
994055
894056
983209
983210

Table with 2 columns: SPECIAL PROVISIONS CREDITS REQUESTED, DAYS per claim. Rows include Geophysical (Electromagnetic: 20, Magnetometer: 40, Radiometric, Other), Geological, and Geochemical.

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_ (enter days per claim)

DATE: April 7, 1988 SIGNATURE: Douglas J. Meikle Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.11196

Table with 4 columns: File No., Type, Date, Claim Holder. Multiple empty rows for data entry.

TOTAL CLAIMS 5 CLAIMS

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 343 MAGNETOMETER 284 MAX MIN II Number of Readings 343 MAGNETOMETER 568 MAX MIN II
Station interval 25 M. Line spacing 100 M.
Profile scale 1 CM = 10 %
Contour interval 500, 750, 1000 NT ...

MAGNETIC

Instrument SCINTREX MP-2 PROTON PRECESSION MAGNETOMETER
Accuracy - Scale constant +/- 10 NANO-TESLAS
Diurnal correction method BASE LINE LOOPING METHOD
Base Station check-in interval (hours) LESS THAN 1 HOUR
Base Station location and value

ELECTROMAGNETIC

Instrument APEX PARAMETRICS MAX-MIN II
Coil configuration HORIZONTAL LOOP / MAXIMUM COUPLED
Coil separation 100 METER
Accuracy +/- 1 %
Method: [ ] Fixed transmitter [ ] Shoot back [x] In line [ ] Parallel line
Frequency 444 HZ AND 1777 HZ (specify V.L.F. station)
Parameters measured INPHASE (%) AND QUADRATURE PHASE (%)

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

RESISTIVITY

Instrument
Method [ ] Time Domain [ ] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode



Ministry of Northern Development and Mines

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

DOCUM 11202



42A08NW0209 2.11202 PLAYFAIR

900

Type of Survey(s): **GEOPHYSICAL - MAGNETOMETER / HEM** Township or Area: **PLAYFAIR**

Claim Holder(s): **JOKEL RESOURCES LIMITED / STRANGE EXPLORATIONS LTD** Prospector's License No.: **T1443 / T039**

Address: **1115-41 RICHMOND ST. WEST / 76 HENRY ST. / TORONTO M5H 2G4 / GERRISON, ONTARIO**

Survey Company: **EXSICS EXPLORATION LTD.** Date of Survey (from to): **25 02 88 / 28 02 88** Total Miles of Line Cut: **9.9 Km.**

Name and Address of Author (of Geo-Technical report): **D.J. MURKLE, P.O. BOX 1880, SUITE 13, HOLLINGER BLDG., TWINN, ONTARIO / PHN-7X1**

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	983209				
	983210				
	894084				
	894085				
	894086				

ARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE JUN 1 1988 RECEIVED

LARDER LAKE MINING DIV. RECEIVED APR 15 1988 10:25 AM

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures: **\$** + **15** =  Total Days Credits

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

Total number of mining claims covered by this report of work. **5**

For Office Use Only

Total Days Cr. Recorded: **300** Date Recorded: **APRIL 15, 1988** Mining Recorder: **M. G. Wiermer**

Date Approved or Recorded: **30 May 88** Branch Director: **[Signature]**

Date: **APR 15/88** Reported by (Signature): **[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: **CHARLES E. PAGE, 1434 WESTBURY AVE. BURLINGTON, ONTARIO L7R 1M2**

Date Certified:  Certified by (Signature): **[Signature]**



### Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey <b>Detailed Geological Mapping</b>												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim
3				21						2		10.5

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim

Type of Survey												
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days	=	Total Credits	+	No. of Claims	=	Days per Claim

Hislop Twp.

Proposed N.O. Natural Gas Pipe Line



VI

V

IV

III

II

Cook Twp.

McCann Twp.

Black Twp.

THE TOWNSHIP  
OF  
**PLAYFAIR**

DISTRICT OF  
COCHRANE  
LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

**LEGEND.**

- PATENTED LAND (P)
- CROWN LAND SALE (CS)
- LEASES (L)
- LOCATED LAND (Loc)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES

**NOTES**

- 400' Surface rights reservation around all lakes and rivers.
- Ramore Townsite Shown Thus: [Symbol]
- Millsite Shown Thus: [Symbol]
- Gravel Reserve Shown Thus: [Symbol]

R1 Surface & Mineral rights withdrawn from prospecting, staking out sale or lease Sec 36, The Mining Act, R.S.O. 1980 Order No. 1000/81/89 November 29, 1984 7:40 pm (Resurveyed N.R.O. # 9/1984 80-07-10)

(R2) Sec 36/80, w/ r/o 2/01/80 m/s - Order 300

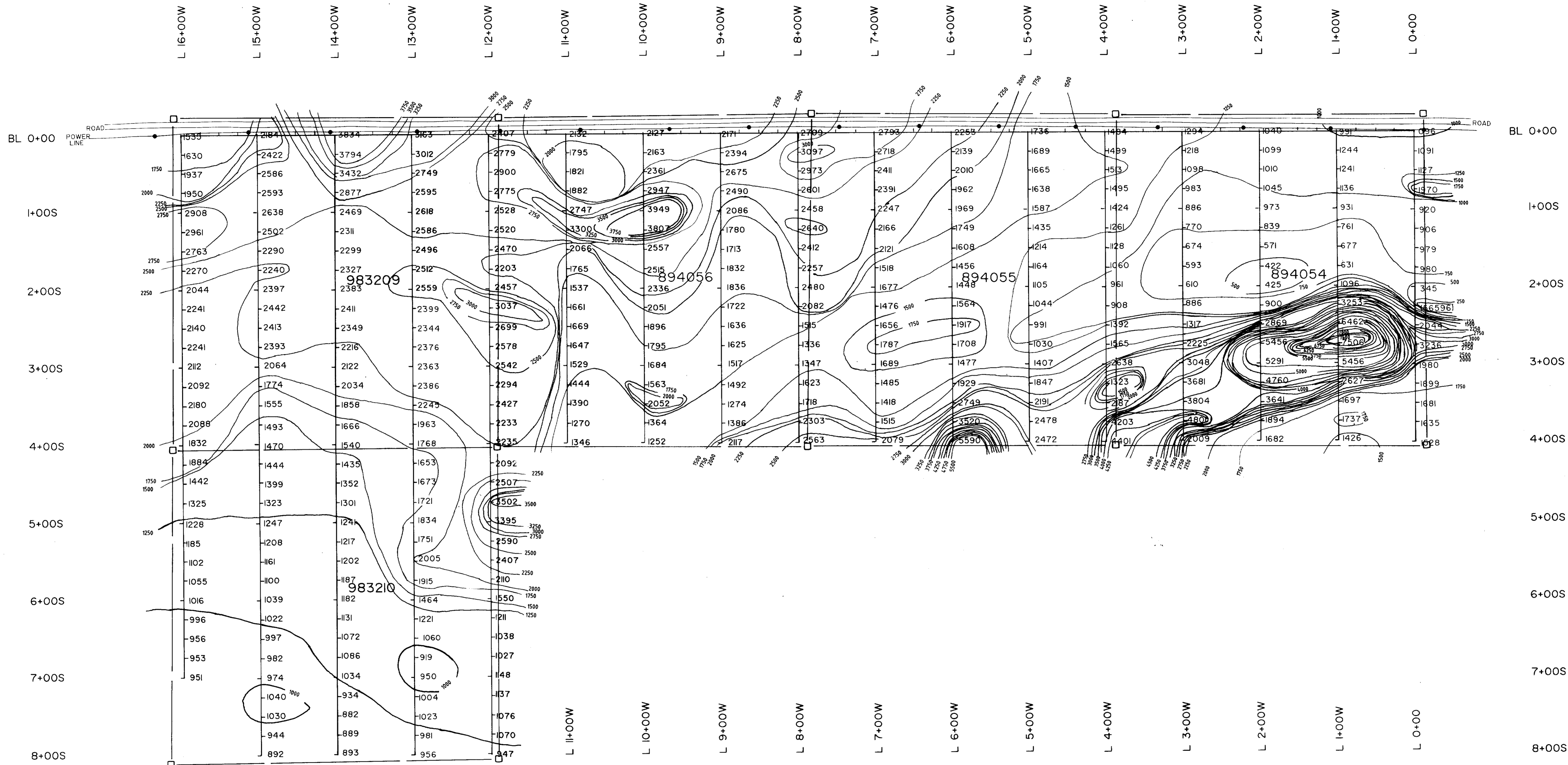
(R3) s/w w/ r/o 2/01/80, The Mining Act, R.S.O. 1980 Order # N.O. 405 29/86, Apr. 18/86

#3


13 12 11 10 9 8 7 6 5 4 3 2 1  
**NOTICE OF FORESTRY ACTIVITY**  
 THIS TOWNSHIP / AREA FALLS WITHIN THE  
 WATABEAG MANAGEMENT UNIT



RECEIVED AUGUST 14 1984

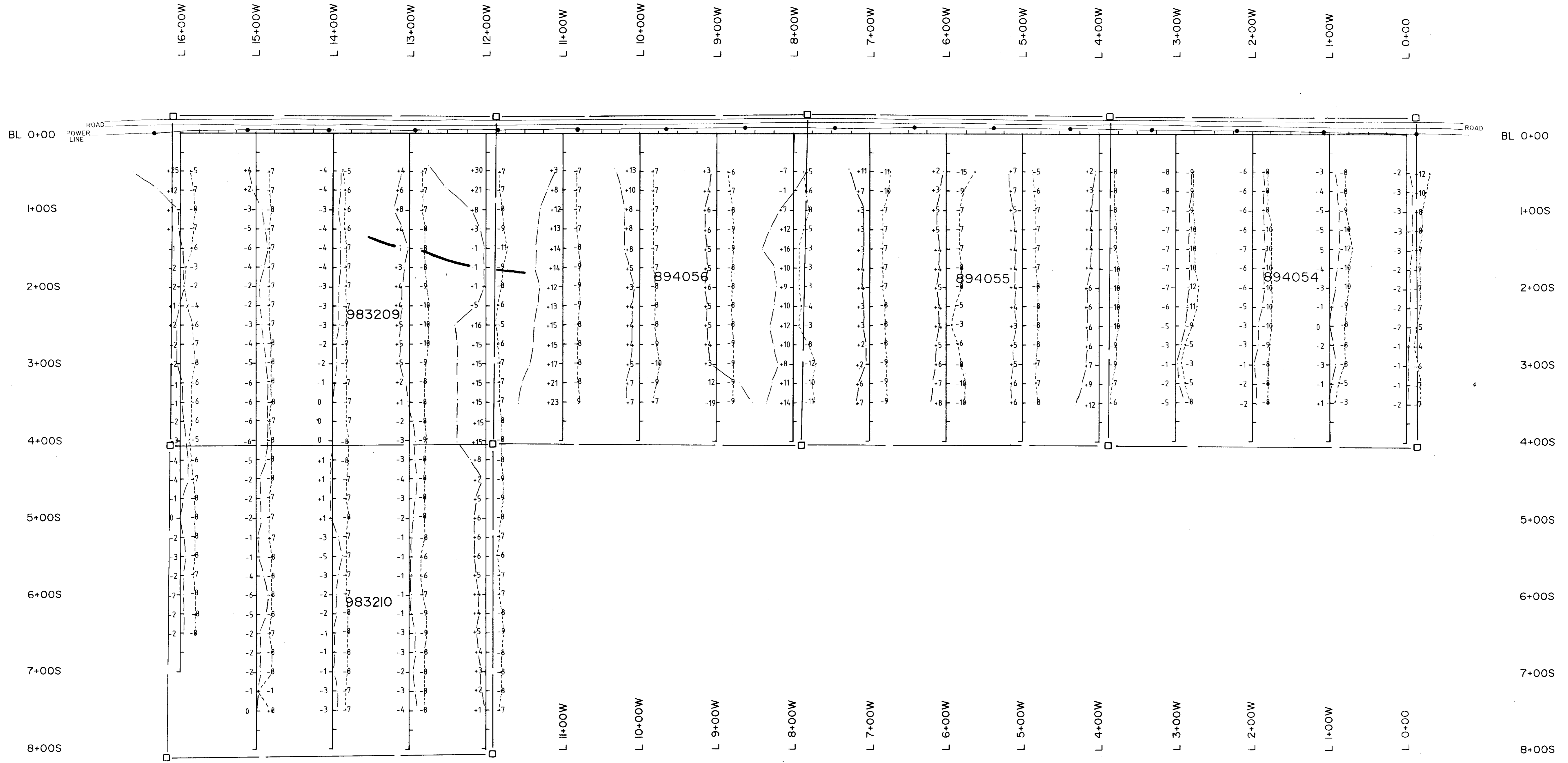


2.11202

 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151			Map No 1
			CLIENT: JOUTEL RESOURCES LTD
PROPERTY: PLAYFAIR TOWNSHIP PROPERTY			
TITLE: CONTOURED MAGNETOMETER SURVEY			
Date: March 1988	Scale: 1:2500	NTS:	
Drawn: P.G.	Interp: <i>[Signature]</i>	Job No: EE-119	

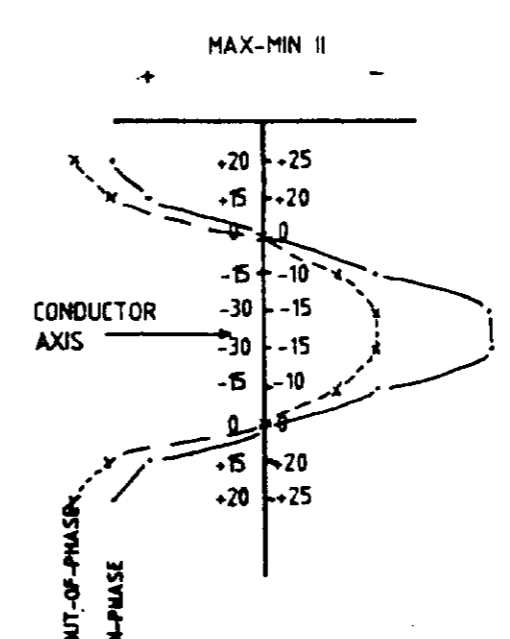
INSTRUMENT: Scintrex MP-2 Proton Precession Magnetometer  
 PARAMETERS MEASURED: Earth's Total Magnetic Field  
 ACCURACY: +/- 10 nano-Teslas  
 DIURNALS: Corrected by Base Line Looping  
 CONTOUR INTERVAL: 0,250,500,750,1000,1250,1500,1750,2000,.....  
 DATUM SUBTRACTED: 58,000 nano-Teslas





2.11202

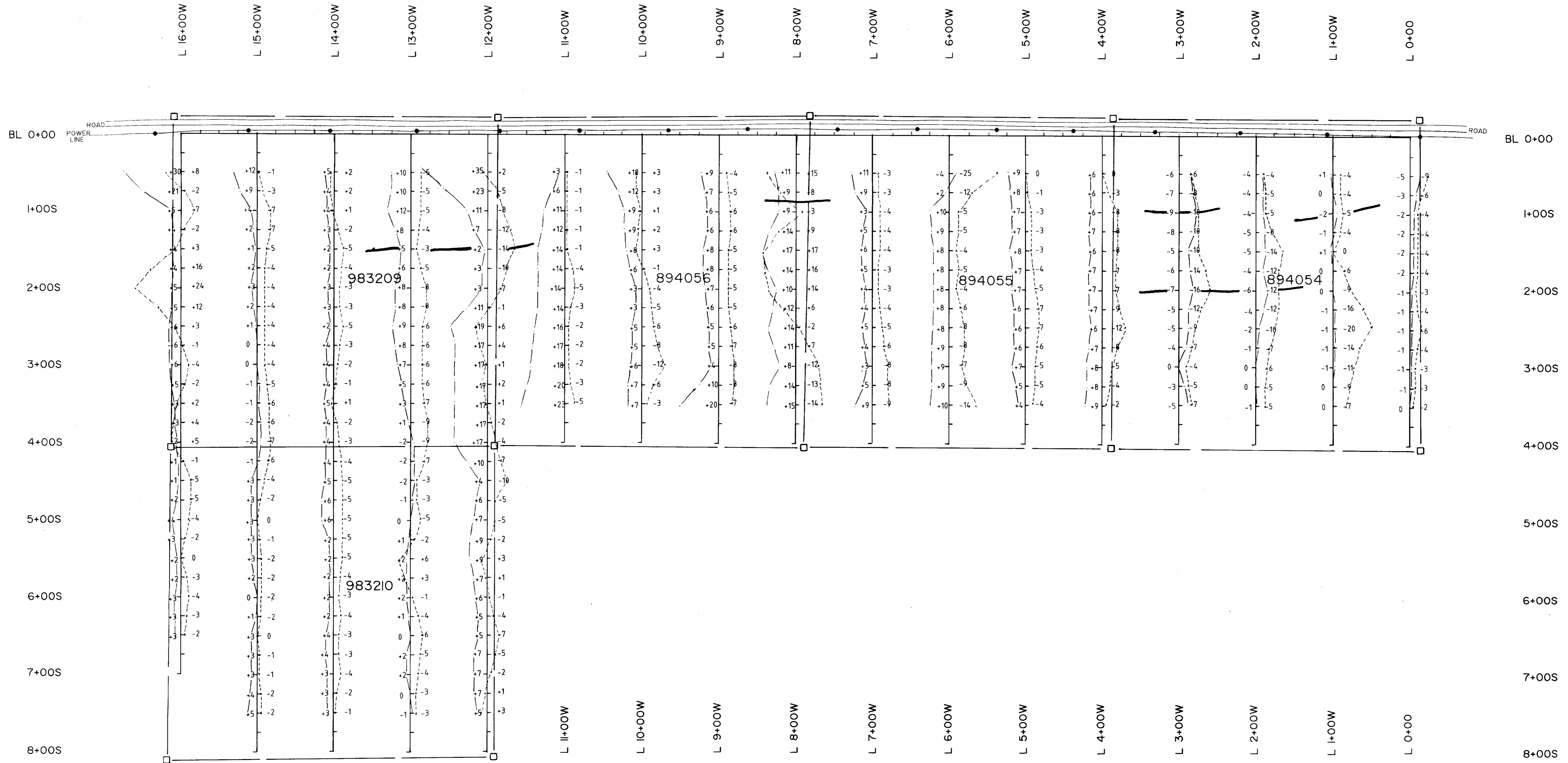
			<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
			Map No. 2		
CLIENT: JOUTEL RESOURCES LTD			PROPERTY: PLAYFAIR TOWNSHIP PROPERTY		
TITLE:			MAX-MIN II 444 HZ		
Date: March 1988	Scale: 1:2500	NTS:			
Drawn: P.G.	Interp: <i>Douglas</i>	Job No. EE-119			



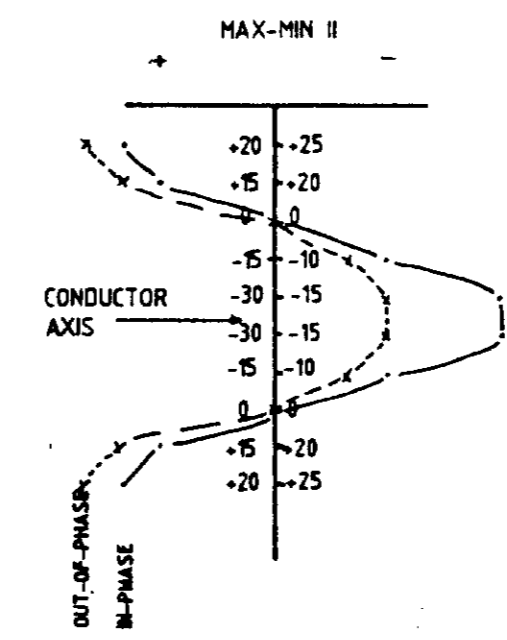
**LEGEND**  
 INSTRUMENT: Apex Parametrics Max-Min 11  
 MODE: Maximum Coupled, Horizontal Loop Survey  
 PARAMETRES MEASURED: Inphase (%) Out of phase (%)  
 FREQUENCY: 444 Hz  
 COIL SEPARATION: 100m  
 OPERATOR: Exsics Exploration  
 PROFILE SCALE: 1cm=10%



N




2.11202



**LEGEND**

INSTRUMENT: Apex Parametrics Max-Min II  
 MODE: Maximum Coupled, Horizontal Loop Survey  
 PARAMETERS MEASURED: Inphase (%), Out of phase (%)

FREQUENCY: 1777 Hz  
 COIL SEPARATION: 100m  
 OPERATOR: Exsics Exploration  
 PROFILE SCALE: 1cm=10%

 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151			Map No. 3
			CLIENT: JOUTEL RESOURCES LTD
PROPERTY: PLAYFAIR TOWNSHIP PROPERTY			
TITLE: MAX-MIN II 1777 Hz			
Date: March 1988	Scale: 1:2500	NTS:	
Drawn: P.G.	Interp: <i>[Signature]</i>	Job No. EE-119	

