



42A06NE0368 2.6571 SHAW

010

SUMMARY REPORT
on
SHAW PROPERTY
SHAW TOWNSHIP, (NTS 42 A/6)
ONTARIO
for
PETROMET RESOURCES LIMITED

RECEIVED

MAR 30 1984

MINING LANDS SECTION

Toronto, Ontario
March, 1984

Diana Bradley, B.Sc.



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1.0 INTRODUCTION

In January, 1984, a total field magnetic survey was conducted by MPH Consulting Limited, on the Shaw property, claims 624691 to 624694 claims inclusive, in Shaw Township, in north eastern Ontario on behalf of Petromet Resources Limited of Calgary, Alberta.

Prior to this, a geological survey was conducted in June, 1983, also by MPH Consulting Limited. This is the subject of an MPH report entitled "Summary Report on the Allerston-Shaw Property, Shaw Township, Ont. for Petromet Resources Ltd.".

Interest in the four Allerston claims centres around the presence of a talc-magnesite zone in an ultramafic body in the southeast portion of the property.

2.0 LOCATION, ACCESS AND INFRASTRUCTURE

The property is located in northwest Shaw Township (Porcupine Mining Division) some five miles southeast of Timmins, Ontario.

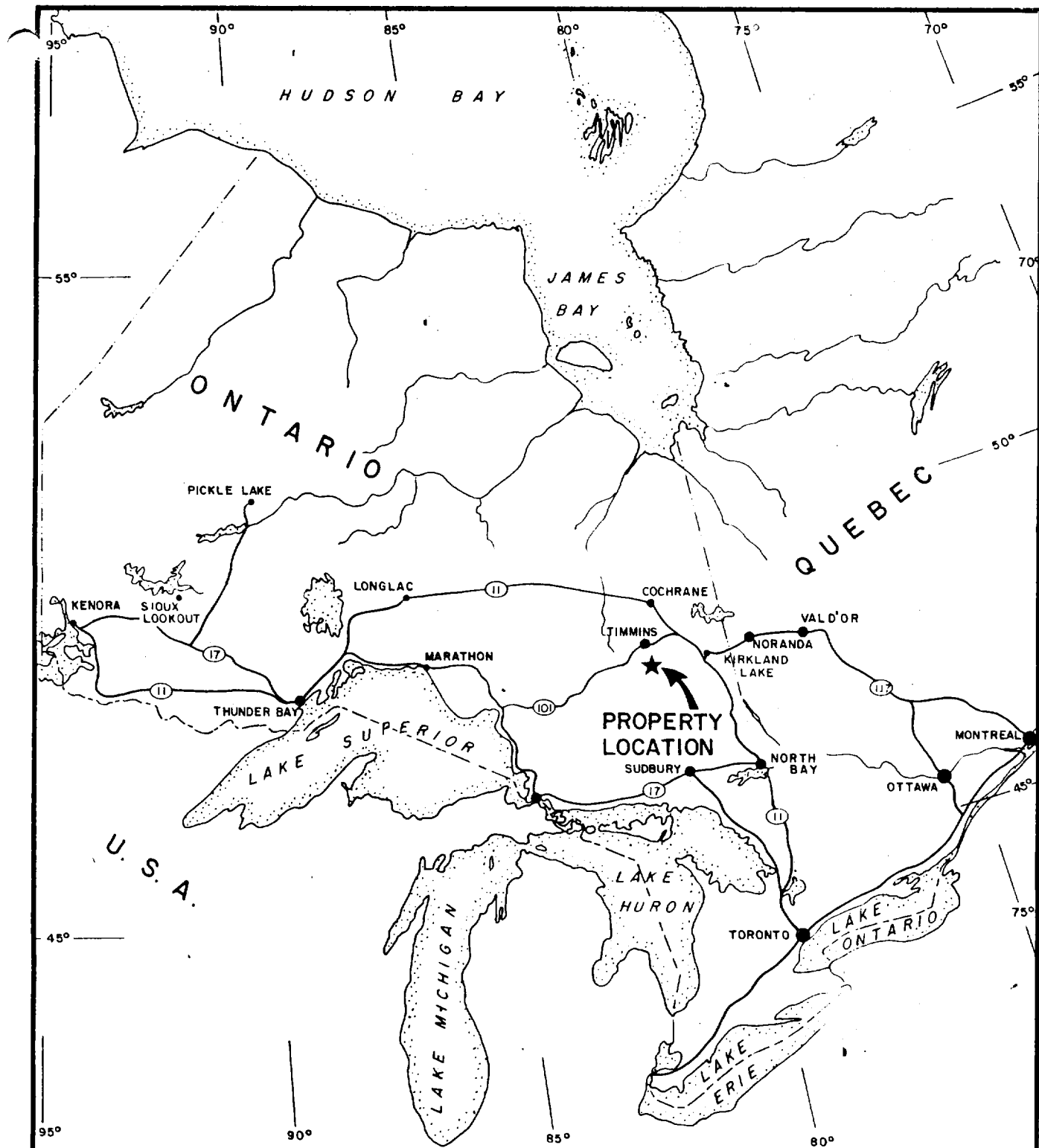
The Langmuir Mine road, or, as it is known locally, the "Springs Road", passes one half claim to the east of the property. Old roads lead off this to the northwest and southeast portions of the group thereby providing easy access to the claims.

A large timber operations area extends from the Springs Road onto claim 624691.

Manpower and materials are available from surrounding centres of service and supply such as Timmins. The Ontario Northland Railway line passes through South Porcupine.

The four unpatented mining claims are numbered 624691 to 624694 inclusive.

A map showing location of the property is shown in Figure 1.



SCALE

100 0 100 200 300 400



KILOMETRES

100 50 0 100 200



MILES

PETROMET RESOURCES LTD.

SHAW PROPERTY
LOCATION MAP

Project No	C-512	By	WE BRERETON
Date	18,870,000	Drawn	GCS Ltd
Drawing No	1	Date	MARCH 1984



MPH Consulting Limited

3.0 REGIONAL GEOLOGY AND MINERAL OCCURRENCES

In a regional context, the Allerston claims occur in the north portion of the Shaw Dome. This imperfectly understood feature is the main structural element south of the Porcupine-Destor Fault in the Porcupine gold camp.

The older of the two rock groups currently recognized in the camp, the Deloro Group, forms the outcrop in the Shaw Domal Structure.

Rocks of the Deloro Group are primarily of calc-alkaline affinity. They comprise mainly andesite and basalt flows in the lower part with dacitic to rhyolitic flows and pyroclastics, often with abundant iron formation towards the top. Large, generally sill-like, bodies of ultramafic rocks intrude Deloro Group metavolcanics along with minor granitic rocks and some later cross-cutting diabase dikes.

There are two well-known magnesite + talc occurrences in the Shaw Dome, the Allerston-Whitney and the Canadian Magnesite deposits.

The former is a major talc-magnesite deposit in carbonatized ultramafic rocks intrusive into the Deloro Group located approximately 3 miles to the north of the present occurrence in southwest

Whitney Township. The mineralization occurs in two zones, "North" and "South", with total reported tonnage in excess of 30 million tons of talc-magnesite rock. There is potential for substantially more tonnage (R. Allerston, pers. comm.).

The Canadian Magnesite deposit of magnesitic rock is located in south Deloro Township to the southwest of the present property. Extensive quartz veining is reported to be a problem in the production of a magnesia product. The deposit again represents a carbonatized zone in ultramafic intrusive rocks.

4.0 EQUIPMENT AND SURVEY PROCEDURES

4.1 Survey Parameters

The magnetic survey was conducted using an EDA PPM 350 proton precession magnetometer. Diurnal variations in the geomagnetic field were recorded with an EDA PPM-375 base station magnetometer. Total field reading, line, station number and other relevant information is recorded during the survey in solid state memory of the magnetometers.

Diurnal corrections are performed, at the end of each survey day automatically by joining the two instruments.

A total of about 2.5 km of line were surveyed, at station interval of 25 m. After the instruments are mated, the diurnally corrected field, as well as other survey parameters, are downloaded to a HP-85 Computer to be plotted and contoured by hand.

Detailed technical specifications of the EDA PPM 350 and PPM 375 are included in Appendix I of this report.

4.2 Personnel

Personnel connected with the survey include:

W.E. Brereton, Consulting Geologist, Toronto, Ontario

D. Bradley, Geophysicist, Toronto, Ontario

D. Hall, Operator, Toronto, Ontario

5.0 TOTAL FIELD MAGNETIC SURVEY

The total field magnetic survey outlined an area of high magnetic relief, in the northern part of claim 624691, traversing claim 624693 and the upper part of claim 624694. The southern-most portion of these closures form a distinct east-west trend, while on claim 624693, they trend north-west to south-east.

A relatively uniform background magnetic field of about 59,100 to 59,400 nT is observed in the survey area, although because the observation window here is small, relative to the size of the anomalous region, the background value quoted may be tenuous at best. Magnetically anomalous readings range from about 61,000 nT to as high as 63,000 nT.

The anomalies are linear in nature, for the most part. The large relief, which in some areas is as high as 2,000 nT in 25 meters, suggests the presence of faults and/or contacts.

Two parallel interpreted contacts (at about 0+50S and 2+00S respectively) run east of 2+75E to about 7+50E. Perpendicular to these, an interpreted fault/contact at 2+75E runs from about 1+00N southwards.

Traversing claim 624693 in a north-west direction the truncation and deviation observed in the data indicate 3 parallel faults and/or contacts. One of these interpreted contacts crosses the entire property from about 3+25N to the baseline. The contact north of this extends from about 2+40E to 6+00E and 3+50N to about 3+00N. The southern-most of this group of contacts intersects the north-south running contact mentioned earlier and runs west by north-west, off the property. The region between these contacts returns to the background density of about 59,000 nT.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Examination of the magnetic survey results on the property indicate a distinct magnetically anomalous region towards the centre, and also to the north, and northwest on the group of claims.

In light of the geological survey, conducted in June of 1983, it is clear that the magnetic survey outlines an area of ultrabasic intrusive, within a relatively uniform background of serpentinite. The region is divided into distinctly anomalous zones, which appear to be separated by several north-west trending faults/contacts, as well as the contact running directly north-south.

The extreme magnetic high in the north-west section of claim 624691, and a lesser high in the south-east section of claim 624693 correlate well with known outcrops containing asbestos.

To further explore the economic potential of this property it is recommended that the geophysical information be evaluated in light of the previous exploration data base. Following this, further recommendations can be made to evaluate the property.

Respectfully submitted,

A handwritten signature in cursive script that reads "Diana Bradley".

Diana Bradley, Geophysicist

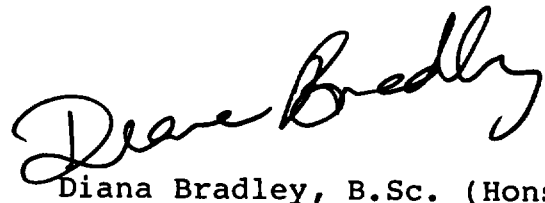
MPH CONSULTING LIMITED

CERTIFICATE

I, Diana Bradley of Toronto, Ontario, hereby certify that:

- 1) I hold a Bachelor of Science (Honours) degree in Geophysics from the University of Toronto, Toronto, Ontario.
- 2) I have practiced my profession in exploration continuously since graduation.
- 3) I have based conclusions and recommendations contained in this report on my knowledge of geophysical interpretation techniques, as well as knowledge of the regional geology.
- 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.

Toronto, Canada
March 1984


Diana Bradley, B.Sc. (Hons.)

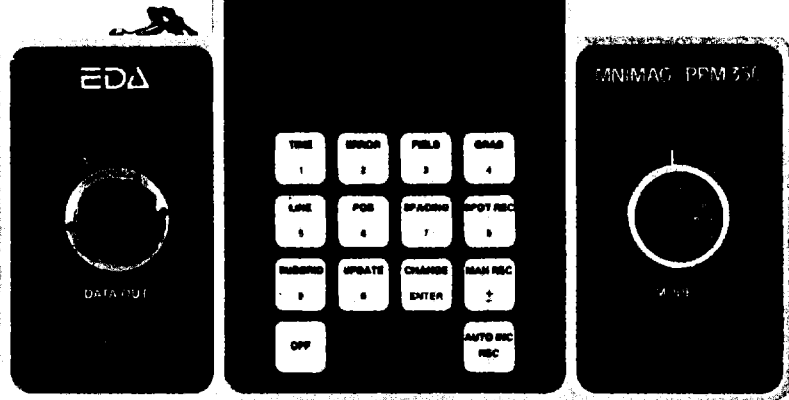
References

W.E. Brereton, "Summary Report on the Allerston-Shaw Property,
Shaw Township, Ont. for Petromet Resources Ltd."

APPENDIX 1

OMNIMAG PPM-350 Total Field Magnetometer

EDA



The PPM-350 is the latest addition to EDA's OMNIMAG*™ series of magnetometers and gradiometers. It is engineered to provide users with the latest state-of-the-art advances in microprocessor technology, including many features that are unique in the field.

Major benefits and features include:

- Significant increase in productivity
- Lowered survey costs
- Automatic diurnal correction
- Programmable grid coordinates
- Highly reproduceable data
- Ergonomic design
- Simplified fieldwork
- Computer-compatible

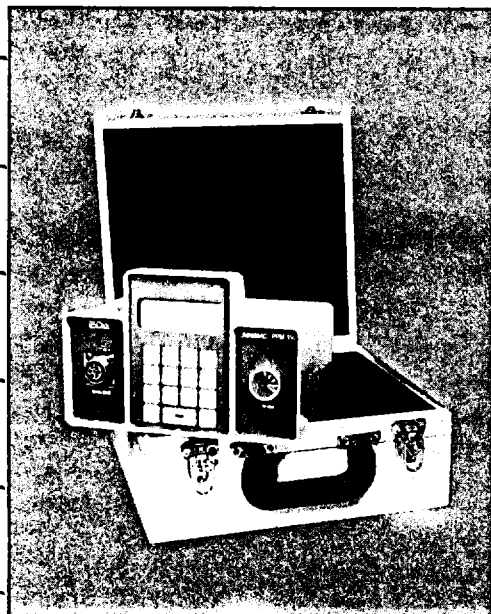
OMNIMAG PPM-350 Total Field Magnetometer

Description

The EDA OMNIMAG PPM-350 is a high-technology, proton precession total field magnetometer that measures and records the earth's magnetic field at the simple touch of a key. It identifies and records the location, time of each measurement, computes the statistical error, and records the decay and strength of the signal being measured.

The PPM-350 is a microprocessor-based system and employs a memory magnetometer concept pioneered by EDA.

Packaged in a compact, lightweight, rugged housing, the PPM-350 incorporates ergonomic-design features that provide maximum comfort and ease-of-operation in the field. It is used in a chest-mounted mode with a shoulder-harness. It has a large Liquid Crystal Display for easy reading, even in direct sunlight, and its oversized touch-sensitive keyboard permits cold-weather operation without having to remove gloves.




Functions

In a typical field survey operation, the PPM-350 can perform all of the following functions:

- A visual readout and storage of the following information *in an absolutely secure memory that prevents data loss or tampering*:
 - total magnetic field magnitude
 - time of measurement
 - grid coordinates for every reading
 - statistical error of total field reading
 - signal strength and decay measurement
- Users have a choice of three **input**, or data storage, modes:
 - manual record
 - spot record
 - automatic update record
- Users also have a choice of three **output** modes:
 - to a DCU-200 magnetic cassette recorder
 - to a DCU-040 or DCU-400 thermal printer
 - to any RS-232C-compatible microcomputer
- Each reading is automatically assigned a record number which can also be used to identify locations of measurements taken off the grid. This also serves to recall data, as well, simply by keying in the record number.
- Sub-grid coordinates and position up-date are given, permitting more detailed study within the main grid, without altering main grid data.
- Many readings can be taken at one point to verify a reading, without updating the position.

Features and Benefits

Productivity Up, Costs Down



Users of the OMNIMAG PPM-350 can enjoy increases in survey productivity by as much as 50% because of the solid-state features that are designed into it. This increase in productivity, with resultant lower survey costs, is made possible because it enables the operator to take measurements faster and with greater accuracy than conventional techniques permit. This, in turn, allows the survey operator to spend more time in the field surveying significantly more area than would be otherwise possible.

Automatic Diurnal Correction

Diurnal variations are corrected automatically and in just a few minutes, instead of the two or three hours required in manual operation. The raw total field data collected and stored in the PPM-350 is corrected by the PPM-400 Base Station Magnetometer through a single cable link. Using the linear interpolation method, corrected data is produced faster and more accurately, because the possibility of human error is reduced.

Programmable Grid Coordinates

Measurements are also made faster and more accurately because the location of each reading is taken automatically on an incremental basis, and recorded along with the time of that measurement. An additional benefit of this feature is that it can provide the basis for computer plotting to obtain survey profiles.

Highly Reproduceable Data

The PPM-350 provides users with the highest confidence level in the

Other Features

Industry. Its highly reproduceable data is a result of four leading-edge design features that minimize the need for taking multiple readings:

- An exclusive Signal Processing Technique*
- Constant Energy Polarization that maintains equal energy to the sensor even when the main battery supply decreases
- Sensitivity to ± 0.02 gamma that ensures repeatability of readings
- Automatic Fine-Tuning that takes the previous reading as the base for the next

Ergonomic Design

Operator comfort and efficiency are prime considerations in the design of the new PPM-350. It is lightweight and is encased in a rugged housing that permits operation in a wide variety of field conditions. The oversize keyboard enables the operator to take measurements without removing gloves. Large LCD's make reading much easier, even in bright sunlight.

Fieldwork Simplified

Since each reading is automatically stored in a non-volatile memory, the need to make handwritten notebook entries on total field magnitude, time of reading, line and station numbers, etc. is eliminated. This reduces the need for notebook usage by the operator, thereby improving productivity. Also, it allows field surveys to be made under all weather conditions.

Computer Compatible

All EDA OMNIMAG systems can interface with any computer using RS-232C standard. This enables generation of profiles, contour maps, etc.

- **Data Recall.** Daily readings can be recalled either by record number or in sequence.
- **Non-Volatile Memory.** A lithium battery with a life-expectancy of 4 years provides total protection of data stored in memory and of the real-time clock in case the primary battery runs down or is removed.
- **Environmental Dependability.** PPM-350 operates in temperature extremes of -35°C to 55°C . At -25°C , a heater automatically activates to ensure LCD performance. Environmental sealing allows operation in very high humidity and in driving rain.
- **Higher Gradient Tolerance.** More accurate readings are obtained because the PPM-350's optimized sensor geometry and reduced size result in higher tolerances to local gradients.
- **Power Supply Versatility.** Users can choose from a variety of power packages:
 - rechargeable sealed lead acid
 - battery belt or cartridge
 - disposable alkaline "C" cell battery belt or cartridge.

- **Error Analysis.** This unique feature is a great time saver because the calculation of the statistical error of each reading lets the operator make an on-the-spot decision whether that reading should be stored or not.
- **Memory Upgrade.** The standard memory of 1383 readings is optionally expandable up to 2555 readings.
- **Decimal Spacing.** Intermediate readings can be stored every 12.5 units, while using the usual 25-unit station interval.
- **Internal Real-Time Clock.** More accurate and reliable measurements can be made and stored because time is taken to the nearest second. Also, the operator need not wear a wrist-watch, which is a common and often overlooked source of magnetic interference.

PPM300 #30023 B=75					
08-04 15:00:39					
OP #7					
15:00:35	57508.4	.10		#1	88
15:00:43	57508.3	.08		#2	88
15:00:47	57508.0	.08		#3	88
			G 5400	3250	#4
15:00:51	57501.9	.10	G 5400	3250A	88
15:00:56	57504.1	.08	G 5400	3300A	88
15:01:00	57503.1	.07	G 5400	3350A	88
15:01:05	57511.1	.07	G 5400	3400A	88
15:01:09	57514.9	.09	G 5400	3450A	88
15:01:17	57511.1	.08	G 5400	3500A	88

PPM400 #330072 B=73					
08-04 14:54:14					
OP #2					
15:00:33	57500.0			0	0
15:00:38	57517.8	0.4		17.8	77
15:00:38	57508.6	-9.2		8.6	78
15:00:43	57511.7	3.1		11.7	79
15:00:48	57510.5	-1.2		10.5	80
15:00:53	57518.0	7.5		18.0	81
15:00:58	57525.9	7.9		25.9	82
15:01:03	57514.8	-11.1		14.8	83
15:01:08	57508.4	-6.4		8.4	84
15:01:13	57512.9	4.5		12.9	85
15:01:18	57512.7	-0.2		12.7	86

Uncorrected Data
PPM-350

Corrected Data
PPM-400

PPM300 #30023 B=75					
08-04 15:00:39					
OP #7					
57514.1	-5.7	.10		0	#1 88
57511.7	-5.4	.08			#2 88
57510.7	-5.7	.08			#3 88
			5400	3250	#4
57515.0	-13.1	.10	5400	3250A	88
57522.7	-18.6	.08	5400	3300A	88
57521.5	-18.4	.07	5400	3350A	88
57512.2	-1.1	.07	5400	3400A	88
57509.3	5.6	.09	5400	3450A	88
57512.7	-1.6	.08	5400	3500A	88

Corrected data built
field reading, applied drift file
line & position numbers

* Patent Pending



Specifications

Dynamic Range	18,000 to 93,000 gammas
Sensitivity	± 0.02 gamma
Statistical Error Resolution	0.01 gamma
Standard Memory Capacity	1383 data blocks or readings
Absolute Accuracy	± 15 ppm at 23°C, 50 ppm over the operating temperature range
Display Resolution	0.1 gamma
Capture Range	$\pm 25\%$ relative to ambient field strength of last stored value
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -35°C to $+55^{\circ}\text{C}$
Gradient Tolerance	5,000 gammas per meter
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy
Sensor Cable	Remains flexible in temperature range; includes low strain connector
Operating Environmental Range	-35°C to $+55^{\circ}\text{C}$; 0–100% relative humidity; weather-proof
Power Supply	Non-magnetic rechargeable sealed lead acid battery cartridge or belt; or, Disposable "C" cell battery cartridge or belt
Battery Cartridge Life	2,000 to 5,000 readings, depending upon ambient temperature and rate of readings
Weight and Dimensions	
Instrument Console only	3.4 kg, 238 x 150 x 250 mm
Lead Acid Battery Cartridge	1.9 kg
Sensor	1.2 kg, 56 mm diameter x 200 mm
System Complement	Electronics console; sensor with 3-meter cable; sensor staff; power supply; harness assembly; operation manual.

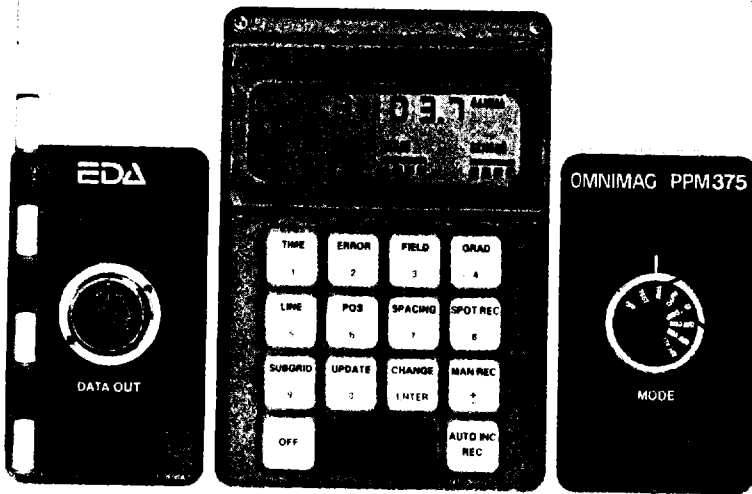
EDA is a pioneer in the development of advanced geophysical systems and has created many innovations that increase field productivity and lower survey costs.

EDA's OMNIMAG series consists of the PPM-350 Total Field Magnetometer, PPM-400 Base Station Magnetometer, and the PPM-500 Vertical Gradiometer. Contact us *now* for details.

E D A Instruments Inc.
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Canada M4H 1G9
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Cable: Instruments Toronto
(416) 425-7800

In U.S.A.
E D A Instruments Inc.
5151 Ward Road
Wheat Ridge, Colorado
U.S.A. 80033
Telex: 00 450681 DVR
(303) 422-9112

OMNIMAG® PPM-375 Portable/Base Station Magnetometer



As a portable field unit . . .

- Faster Surveys
- Simplified Fieldwork
- Highly Repeatable Data
- Easier Data Interpretation
- Computer Compatible



As a base station . . .

- Automatic Diurnal Corrections
- Programmable Base Field
- Automatic Base Field Calculations
- Calculates Differential Field Variations
- Programmable Cycling Interval
- Computer Compatible

- The PPM-375 is the most recent addition to EDA's OMNIMAG series of magnetometers and gradiometers. It combines features of EDA's PPM-350 Total Field Magnetometer and PPM-400 Base Station Magnetometer in one dual-purpose unit. This user oriented approach exemplifies EDA's pioneering efforts in the development of advanced geophysical systems.
- This approach is another reason why EDA has shipped more microprocessor-based proton precession ground magnetometers in the highly competitive Canadian market than any other company in recent years.

OMNIMAG® PPM-375 Portable/Base Station Magnetometer

As a portable field unit...



the PPM-375 OMNIMAG is a portable proton precession survey magnetometer that measures and records in memory the earth's magnetic field at the touch of a key. It identifies and records the location, time of each measurement, computes the statistical error of the reading and records the decay and strength of

the signal being measured.

Features

Packaged in a compact, lightweight rugged housing, the PPM-375

provides:

A visual readout and storage of the following information in an absolutely secure memory that

prevents data loss or tampering:

- total field magnitude
- time of measurement
- grid coordinates for every reading
- direction of travel along grid lines
- statistical error of the total field reading
- signal strength and decay measurement

• Users have a choice of three data storage modes:

- manual record
- spot record
- automatic update record

Each reading is automatically assigned a record number which can also be used to identify readings measured off the grid. This also serves to recall data, simply by entering the record number.

• More than one reading can be taken at one point without updating the current station number.

Sub-grid coordinates and position update are given, permitting more detailed study within the main grid, without altering main grid data.

Major Benefits

Faster Surveys

Survey productivity is significantly increased with the PPM-375 because:

- a reading can be taken and stored in only 4 seconds
- a second reading is normally not required because the data is so repeatable
- the statistical error is calculated for each reading providing an indication of whether an additional reading may be required.

Using the PPM-375, operators have covered as much as 15km per day in ideal conditions.

Simplified Fieldwork

The PPM-375 solid state memory makes surveys easier to conduct because:

- the need to write down results is eliminated. Time, field reading, grid co-ordinates, etc., are simultaneously stored.
- diurnal corrections can be done automatically with the use of another PPM-375 or PPM-400 to eliminate 2-3 hours of tedious calculations.

Highly Repeatable Data

The PPM-375 provides users with repeatable data that significantly reduces the requirement for multiple station readings. Typical tie-line accuracies of ± 0.5 gammas are obtained.

This data quality is due to:

- a patented* Signal Processing Technique
- Constant Energy Polarization that maintains equal energy to the sensor
- processing sensitivity to ± 0.02 gamma
- Automatic Fine Tuning which uses the previous reading as the base for the next.

*the signal processing technique utilized in the OMNIMAG series is protected by patents granted in various countries.

Easier Data Interpretation

The PPM-375 makes geophysical interpretation easier because:

- more information such as statistical error, the signal strength and decay rate measurement is displayed and stored with every reading
- line profiles can be obtained immediately with portable field computers such as the HP-85 through available software.

Computer Compatible

All EDA OMNIMAG systems can be interfaced with many commercial computers which are compatible with RS-232C. This enables the operator to:

- obtain contour or other maps, immediately after the end of survey
- store permanently in the DCU-200 or field computer cassettes the data for further analysis.

Other Benefits

• Error Analysis

This unique feature is a great time saver because the calculation of the statistical error of each reading lets the operator make an on-the-spot decision whether that reading should be stored or not.

• Higher Gradient Tolerance

Higher tolerance to local gradients is possible due to a patented signal processing method and to a miniature sensor design utilizing a highly optimized sensor geometry.

• Complete Data Protection

Field data stored in memory is totally protected for 4 years by the lithium backup battery. This battery also provides power to the real-time clock.

• Data Recall

Daily readings can be recalled either by record number or in sequence.

• Power Supply Versatility

Users can choose from non-magnetic rechargeable sealed lead-acid battery cartridges or belts and disposable "C" cell battery cartridges or belts.

• Decimal Spacing

Intermediate readings can be stored every 12.5 units, while using the usual 25-unit station interval.

As a base station . . .



the PPM-375 OMNIMAG measures and stores in its memory the daily fluctuations of the earth's magnetic field. Used with other OMNIMAG units, the PPM-375 base

station corrects automatically, in just a few minutes, total field data for diurnal variations.

Features

The PPM-375 OMNIMAG in the base station mode:

- Automatically corrects magnetic field data for diurnal variations and base field values.
- Records each base station value in the following format:
 - time of measurement
 - magnitude of total field
 - difference from the base field value
 - difference from the previous reading
 - sequential record number
- Stores 2550 sets of readings, the equivalent to 10.6 hours of continuous unattended monitoring at 15-second sample interval.
- Simultaneously outputs data to a choice of data collection units as it is being stored in memory.
- Outputs data in a choice of three (3) formats:
 - corrected total field data
 - uncorrected total field data
 - base station data only

Major Benefits

Automatic Diurnal Corrections

The PPM-375 OMNIMAG Base Station corrects automatically the field data for diurnal variations when used with another PPM-375, with a PPM-350 or with a PPM-500 Vertical Gradiometer. A linear interpolation algorithm is used for corrections.

Programmable Base Field

Once the operator has identified the ideal base field value at the end of the first day, he can reprogram the base field and the PPM-375 will recalculate all stored readings with reference to the new base field.

Automatic Base Field Calculations

The PPM-375 calculates automatically for each reading the difference between the measured earth's field and the base field value previously entered in by the operator.

Calculates Differential Field Variations

The PPM-375 calculates automatically the difference between the current reading and the previous one, to 0.1 gamma.

Programmable Cycling Interval

The operator can have the PPM-375 cycle at any interval, in one second increments, from a minimum of 5 seconds to a maximum of 60 minutes.

Computer Compatible

All EDA OMNIMAG systems can be interfaced with many commercial computers which are compatible with RS-232C.

Other Benefits

• Stores & Prints Data Simultaneously

The PPM-375 can record and print out data simultaneously. Printed data can still be retained in memory.

• Three Data Output Capabilities

Linked with another OMNIMAG the PPM-375 provides a choice of 3 data formats as shown below.

• Power Supply Flexibility

The PPM-375 Base Station can be operated from:

- a 12 volt DC car battery
- rechargeable sealed lead-acid battery cartridge or belt
- disposable "C" cell battery cartridge or belt

• Versatile Charging Options

The sealed lead-acid batteries can be recharged with:

- a 12 volt DC car battery, through the DCU-400 Thermal Printer, or
- any other AC power source

• Expanded Memory Capability

The PPM-375 memory capability of 2550 sets of readings can be expanded to 11,475 readings when used with the DCU-200 Digital Magnetic Recorder.

• Internal Real Time Clock

Real time clocks can be synchronized to the nearest second when using the PPM-375 with any other OMNIMAG unit.

• Environmental Dependability

PPM-375 operates in temperature extremes of -40°C to +55°C. At -25°C, a heater is automatically activated to ensure LCD performance.

```

PPM300 #30023 B=75
08/04 15:00:39
OP #7
15:00:35 57508.4 .10 #1 88
15:00:43 57506.3 .08 #2 88
15:00:47 57505.0 .08 #3 88
5:00:51 57501.9 .10 G 5400 3250 #4
5:00:56 57504.1 .08 G 5400 3250A 88
5:01:00 57503.1 .07 G 5400 3300A 88
15:01:05 57511.1 .07 G 5400 3400A 88
15:01:09 57514.9 .09 G 5400 3450A 88
15:01:17 57511.1 .08 G 5400 3500A 88
    
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PPM-375 Uncorrected Data

```

PPM400 #330072 B=73
08/04 14:54:14
OP #2
15:00:33 57517.8 0.4 17.8 77
15:00:38 57508.6 -9.2 8.6 78
15:00:43 57511.7 3.1 11.7 79
15:00:48 57510.5 -1.2 10.5 80
15:00:53 57518.0 7.5 18.0 81
15:00:58 57525.9 7.9 25.3 82
15:01:03 57514.8 -11.1 14.8 83
15:01:08 57508.4 -6.4 8.4 84
15:01:13 57512.9 4.5 12.9 85
15:01:18 57512.7 -0.2 12.7 86
    
```

PPM-375 Data in Base Station Mode

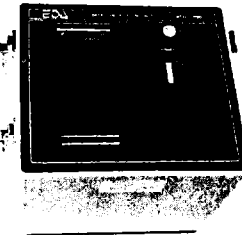
```

PPM300 #30023 B=75
08/04 15:00:39
OP #7
57514.1 0.0 0 0 #1 88
57511.7 -5.7 .10 #2 88
57510.7 -5.7 .08 #3 88
57515.0 -13.1 .10 5400 3250 #4
57522.7 -18.6 .08 5400 3250A 88
57521.5 -18.4 .07 5400 3300A 88
57512.2 -1.1 .07 5400 3400A 88
57509.3 5.6 .09 5400 3450A 88
57512.7 -1.6 .08 5400 3500A 88
    
```

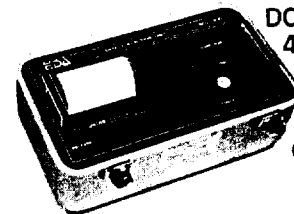
Corrected Data Output Format: Corrected total field reading; applied drift direction; statistical error; line & position numbers; recording mode; normalized decay rate and amplitude of sensor signal.



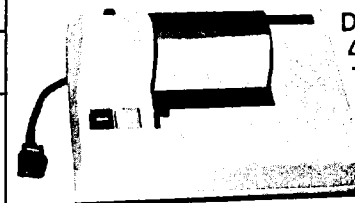
The OMNIMAG PPM-375 interfaces with a variety of data collection units, including . . .



DCU-200 Digital Magnetic Recorder, AC and internal DC operation.



DCU-400 40-Character Thermal Printer, AC and internal/external DC operation.



DCU-040 40-Character Thermal Printer, AC operation only.

Specifications	
Dynamic Range	18,000 to 103,000 gammas
Capture Range	± 25% relative to ambient field strength of last stored value
Tuning Method	Tuning value is calculated accurately utilizing a specially developed tuning algorithm.
Display Resolution	0.1 gamma.
Processing Sensitivity	± 0.02 gamma.
Mathematical Truncation Error	± 0.02 gamma.
Statistical Error Resolution	0.01 gamma.
Absolute Accuracy	± 15 ppm at 23°C, 50 ppm over the operating temperature range.
Standard Memory Capacity	2550 data blocks or readings
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
Gradient Tolerance	5,000 gammas per meter (typical).
Test Mode	A) Diagnostic testing (data and program-mable memory) B) Self Test (hardware)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Sensor Cable	Remains flexible in temperature range specified; includes strain-relief connector.
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	-40°C to +55°C; 0-100% relative humidity; weatherproof.
Power Supply	Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; or Disposable "C" cell battery cartridge or belt; or 12V DC power source option for base station operation.
Battery Cartridge/Belt Life	2,000 to 5,000 readings, depending upon ambient temperature and rate of readings.
Weight and Dimensions	
Instrument Console only	3.4kg, 238 × 150 × 250mm
Lead-Acid Battery Cartridge	1.9kg, 235 × 105 × 90mm
Sensor	1.2kg, 56mm diameter × 200mm
System Complement	Instrument console; sensor; 3-meter cable, 30-meter cable for base station (for sales only), aluminum sectional sensor staff, power supply, harness assembly, operations manual.

EDA Instruments Inc.
1 Thornciffe Park Drive
Toronto, Ontario
Canada M4H 1G9
Telex: 06 23222 EDA TOR
Cable: Instruments Toronto
(416) 425-7800

In U.S.A.
EDA Instruments Inc.
5151 Ward Road
Wheat Ridge, Colorado
U.S.A. 80033
Telex: 00 450681 DVR
(303) 422-9112

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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) Magnetic
Township or Area Shaw Township
Claim Holder(s) R.E. Allerston

Survey Company MPH Consulting
Author of Report D. Bradley
Address of Author 2406-120 Adelaide St. W. Toronto,
Ont. M5H 1T1
Covering Dates of Survey 2/1/84 to 2/2/84
(linecutting to office)
Total Miles of Line Cut 5

MINING CLAIMS TRAVERSED
List numerically

P..... 624691.....
(prefix) (number)
P..... 624692.....
P..... 624693.....
P..... 624694.....

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: March 29, 1984 SIGNATURE: Dave Bradley
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 262 Number of Readings 262
Station interval 25 m Line spacing 120 m
Profile scale NA
Contour interval 100 nT to 500 nT

MAGNETIC

Instrument EDA PPM 350 EDA PPM 375 (Base Station)
Accuracy -- Scale constant .1 nT
Diurnal correction method Automatic - By Mating the Two Instruments
Base Station check-in interval (hours) Base Station Recorder Used
Base Station location and value Base Station Recorder Used

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 _____

D.P.C. RIZ 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 _____



Mining Lands Comments

-okay-

To: Geophysics *Mr. P. Barlow*

Comments

Approved Wish to see again with corrections Date *May 14/89* Signature *RRL*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections Date Signature

To: Geochemistry

Comments

H.D. lga

Approved Wish to see again with corrections Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1984 04 05

Your File: 57
Our File: 2.6571

Mr. Bruce Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 624691 et al in the Township of Shaw.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

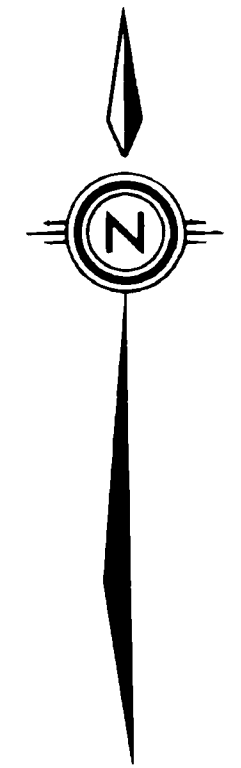
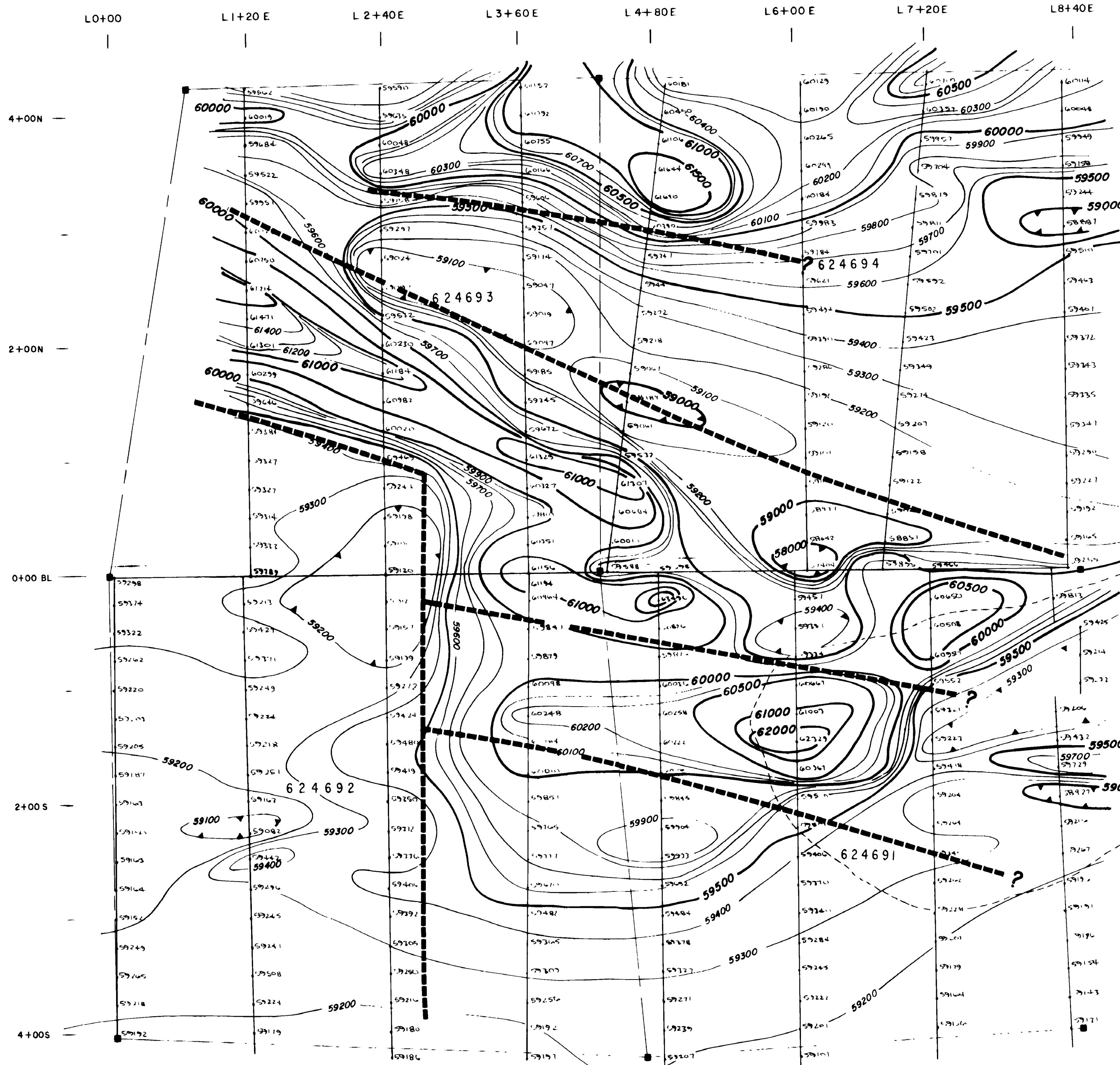
S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-6918

A.Barr:mc

cc: R.E. Allerston
543 Pine Street North
Timmins, Ontario
P4N 6L9

cc: W.E. Brereton
Suite 2406
120 Adelaide Street West
Toronto, Ontario
M5H 1T1



LEGEND

INSTRUMENT: EDA Model PPM 350
 BASE STATION RECORDER EDA Model PPM 375

- Absolute Magnetic Value (nT)
- Magnetic Contour
- Magnetic Depression

- CONTOUR INTERVAL: 100 nT
- 500 nT
 - 100 nT
 - Claim Post, Located
 - Claim Post, Extrapolated
 - Limit of lumber yard (stock piled logs)
 - Contact / Fault

SCALE 1:2500



Don Brady

PETROMET RESOURCES LTD.
SHAW PROPERTY
TOTAL FIELD MAGNETICS

Project No: C-512	By: WE BRERETON
Scale: 1:2500	Drawn: GCS Ltd
Drawing No: 1	Date: MARCH 1984

MPH Consulting Limited

