



41P14NE8398 2.10652 SEMPLE

010

PAMOREX MINERALS INC.

REPORT
ON
GEOPHYSICAL WORK

DECKER PROPERTY
SEMPLÉ TOWNSHIP

RECEIVED

DEC 16 1987

MINING LANDS SECTION

OCTOBER, 1987

D. LONDRY
TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

Magnetic and VLF-EM surveys were conducted on the Decker property, Semple Township during September of 1987.

Linear magnetic anomalies likely reflect folded volcanics containing disseminated magnetite, which are common adjacent to alteration zones in this area. It is recommended that east-west lines are cut over the southeast 1/4 of the grid to better define the zones of high magnetic susceptibility there.

A number of weak conductors were outlined in the VLF survey. Encouraging geological or geochemical information should be present before any are considered as drill targets. A detail IP survey along Lines 600 and 1200 West is recommended to give a better explanation of the source of the VLF anomalies.

A north-south striking fault, interpreted by Hollinger, is evident in both surveys by the termination of anomalies between 1000 and 1100 West.

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INTRODUCTION

During September, 1987 magnetic and very low frequency electromagnetic (VLF-EM) surveys were carried out for Pamorex Minerals Inc. on the Decker property. The property is located approximately 54 kilometers south of the city of Timmins in the northeast corner of Semple Township, Porcupine Mining Division (Figure 1). The surveys covered the following claims:

P 893491 - 893495 inclusive

P 893497 & 893498

The property can either be accessed by lumber roads which run south from Timmins and South Porcupine or by a road which continues from the end of Highway 566, west of Matachewan.

The field crew included S. Ryan and D. Londry.

PREVIOUS WORK

Previous authors have reported anomalous gold values associated with alteration zones in fractured intermediate volcanics (Savage, 1949 and Burke, 1959). The showings are described as carbonatized and silicified volcanics with intrusions of feldspar porphyry, syenite porphyry and quartz

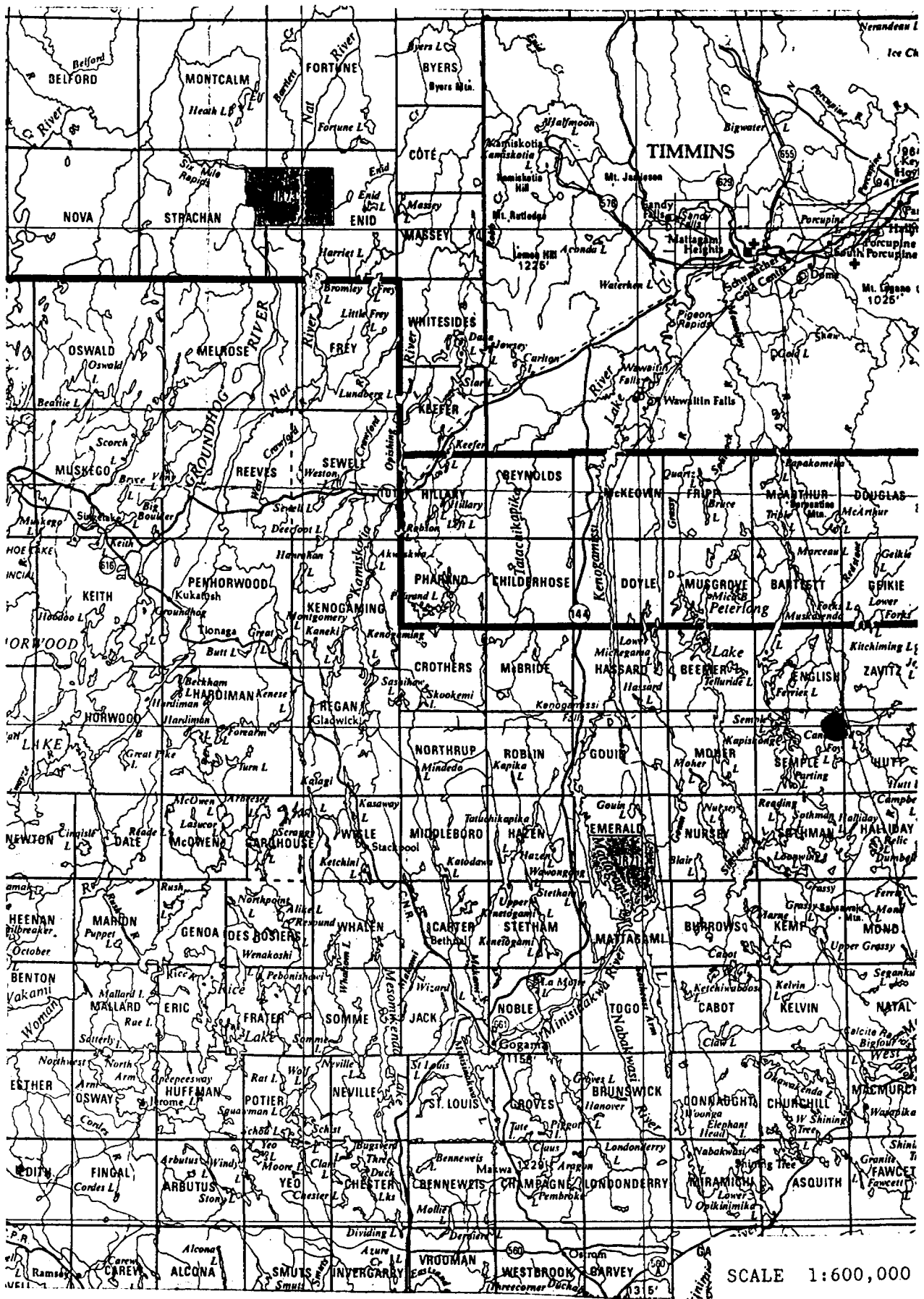


FIGURE 1: Location Map

veins. The values were obtained from samples of the quartz veins and adjacent pyritized volcanics. Magnetite is common within and adjacent to the altered zones.

The first geophysical work to be filed on the property was by Hollinger Gold Mines Ltd. In 1962 they ran magnetic and electromagnetic surveys over a large claim block in the northeast corner of Semple Township (Robinson, 1962).

Magnetic anomalies were explained by the presence of iron formations, diabase dikes and disseminated magnetite in altered intermediate volcanics.

Two holes, G1 and G2, drilled by Hollinger in the center of the present survey area, intersected intermediate volcanics with some carbonate alteration; disseminated magnetite was observed in the volcanics and in quartz calcite stringers. Mineralization in three holes (SE-1 to SE-3), drilled in the southeast corner of the present survey area, included disseminated pyrrhotite and minor ^W calcopyrite _A in serpentinite and in the interstitial graphitic material of a breccia. The target of all these holes is unknown since the magnetic and EM results were not filed for this area.

On the claims directly to the south, Hollinger drilled five holes to test a graphite conductor at the contact between volcanics to the north and sediments to the south. In 1972, following a vertical loop EM survey (Clayton, 1972), Dowa Mining Co. Ltd. drilled one hole to test the same horizon.

More recently, stripping and trenching were carried out

by A. Decker in 1986 and by Pamorex Minerals Inc. in 1987.

SURVEY DESCRIPTIONS

An existing grid of north-south lines was re-established. The lines are spaced every 100 meters and picketed every 25 meters.

The magnetic readings were taken with a Scintrex IGS-2/MP-4. This instrument is a proton precession magnetometer which measures the earth's total field to an accuracy of .1 gammas. The diurnal drift was monitored every 30 seconds with a Scintrex MP-3 base station magnetometer.

The VLF survey was carried out with the Scintrex IGS-2/VLF-4. This instrument measures the horizontal field strength and the in-phase and quadrature components of the vertical field, normalized to the field strength. Cutler Maine, which transmits at a frequency of 24.0 kHz was used as the transmitter. With this station maximum coupling occurs for east-west striking conductors. In the present survey, the horizontal field strength was not corrected for diurnal changes.

RESULTS

The magnetic results are contoured every 100 gammas on map 1. On map 2 the dip angle and quadrature component of

the vertical VLF field are profiled and the horizontal field is contoured.

The magnetic results outline three areas of high magnetic susceptibility.

The first anomaly strikes east-west between Lines 1400 and 1200 West in the northwest corner of the property. The highest reading, on Line 1200 West, is approximately 1200 gammas above background. A partially defined VLF anomaly (Anomaly A) coincides with the magnetic high, suggesting that the source is weakly conductive.

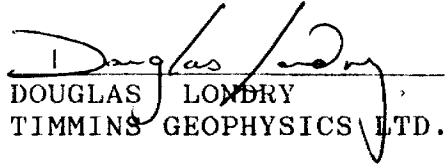
The second is a linear anomaly, up to 2000 gammas above background, which strikes northeast through the middle of the property. Detail readings between Lines 1100 and 900 West indicate that the zone is tightly folded. The source of this anomaly could be identified in the stripped area.

The third area consists of a number of linear zones which strike northeast across the southeast corner of the grid. At 325 South on Line 700 West the anomaly is 6000 gammas above background. A broad low magnetic field exists to the north of the high response. This may reflect alteration, however it is more likely a dipole effect from the zone of high magnetic susceptibility to the south. VLF anomaly D strikes northeast within this area of low magnetics. A similar magnetic low is located to the north of the high magnetic anomaly described in the previous paragraph.

Two other VLF anomalies are located on the west side of

the property. Anomaly B strikes east-west along the baseline between 1100 and 1400 West. The width of the anomaly may be explained by the presence of more than one conductor as indicated on map 2. Anomaly C strikes east southeast between 1100 and 1400 West at approximately 400 South. This anomaly is the strongest response on the property and may reflect sulphide mineralization.

The high VLF readings in the southeast corner of the grid are likely from a source just south of the property. This may have been the target of holes SE-1 to SE-3 drilled by Hollinger in 1963.


DOUGLAS LOMBRY
TIMMINS GEOPHYSICS LTD.

REFERENCES

- Burke, D.K., 1959, Seville Property, Semple Township. Timmins Assessment File T-310.
- Clayton, R.H., 1972, Geophysical Survey, Semple Township, Vertical Loop Electromagnetic Survey. Timmins Assessment File T-631.
- Robinson, G.D., 1962, Magnetometer Survey, Semple-English Claim Group, Hollinger Consolidated Gold Mines Ltd. Timmins Assessment File T-617.
- Savage, W.S., 1949, Alford-McCall Property, Semple Township. Timmins Assessment File T-313.

APPENDIX A

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 310 Number of Readings VLF: 312 MAG: 356
Station interval 25 m. Line spacing 100 m.
Profile scale VLF: 1cm=20%
Contour interval MAG: 100 GAMMAS

MAGNETIC

Instrument SCINTREX IGS-2/MP-4
Accuracy - Scale constant ± .1 GAMMA
Diurnal correction method SCINTREX MP-3 BASE STATION MAGNETOMETER
Base Station check-in interval (hours) 30 SECONDS
Base Station location and value 600 WEST 0 NORTH
58444 GAMMAS

ELECTROMAGNETIC

Instrument SCINTREX IGS-2/VLF-4
Coil configuration VERTICAL LOOP
Coil separation INFINITE
Accuracy ± .01%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency CUTLER, MAINE 24.0 KHz.
(specify V.L.F. station)
Parameters measured IN-PHASE AND QUADRATURE COMPONENTS OF THE VERTICAL FIELD AND THE
HORIZONTAL FIELD STRENGTH.

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 _____



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines



41P14NE8398 2.10652 SEMPLE

900

January 8, 1988

Your File: 290
Our file: 2.10652

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE

JAN 13 1988

RECEIVED

Dear Sir:

RE: Notice of Intent dated December 21, 1987
Geophysical (Electromagnetic and Magnetometer) Survey
on Mining Claims P 893492 et al in Semple Township

The assessment work credits, as listed with the above-mentioned
Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so
indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

rm

RM:p1

Enclosure: Technical Assessment Work Credits

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Pamorex Minerals Inc.
P.O. Box 2010
Timmins, Ontario
P4N 7X7



Recorded Holder
Pamorex Minerals Inc.

Township of ~~XXX~~
Semple

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>40</u> days Magnetometer <u>20</u> days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 893491 to 492 inclusive 893494 to 495 inclusive 893497 to 498 inclusive

Special credits under section 77 (16) for the following mining claims

10 Days Electromagnetic and 5 Days Magnetometer

P 935143
935155
935147

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

Type of Survey (s) GEOPHYSICAL		Township or Area SEMPLÉ TOWNSHIP	
Claim Holder(s) PAMOREX MINERALS INC.		Prospector's Licence No. T-1925	
Address P.O. BAG 2010, TIMMINS, ONTARIO, P4N 7X7			
Survey Company TIMMINS GEOPHYSICS LTD.	Date of Survey (from & to) 27 09 87 to 18 09 87		Total Miles of line Cut 8.4 km.
Name and Address of Author (of Geo-Technical report) D. LONDREY, BOX 1783, SOUTH PORCUPINE, ONT. P0N 1H0			

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	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
Man Days Complete reverse side and enter total(s) here RECEIVED NOV 11 1987 MINING LANDS SECTION	Geological	
	Geochemical	
	Geophysical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	893492				
	893494				
	893495				
	893497				
	893498				
	935143				
	935147				
	935155				
	893491				

Expenditures (excludes power stripping)

Type of Work Performed

Part of RECEIVED NOV 27 1987

Calculation of Expenditures 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.

RECORDED
NOV 27 1987

Total number of mining claims covered by this report of work. **9/8**

Date **OCT. 9/87** Recorded Holder or Agent (Signature) *Douglas Londrey*

For Office Use Only

Total Days Cr. Recorded **540** Date Recorded **Nov. 27/87** Mining Record *White*

Date Approved as Recorded _____ Branch Director _____

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
D. LONDREY, BOX 1783, SOUTH PORCUPINE, ONTARIO P0N 1H0

Date Certified **Oct. 9/87** Certified by (Signature) *Douglas Londrey*

GEOPHYSICAL TECHNICAL DATA

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Profile scale VLF: 1cm=20%
Contour interval MAG: 100 GAMMAS

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Diurnal correction method SCINTREX MP-3 BASE STATION MAGNETOMETER
Base Station check-in interval (hours) 30 SECONDS
Base Station location and value 600 WEST 0 NORTH
58444 GAMMAS

ELECTROMAGNETIC

Instrument SCINTREX IGS-2/VLF-4
Coil configuration VERTICAL LOOP
Coil separation INFINITE
Accuracy ± .01%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency CUTLER, MAINE 24.0 KHz.
(specify V.L.F. station)
Parameters measured IN-PHASE AND QUADRATURE COMPONENTS OF THE VERTICAL FIELD AND THE
HORIZONTAL FIELD STRENGTH.

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 _____

ENGLISH TWP. M-787

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 - of the Mining Act, (R.S.O. 1970)

Order	File	Date	Disposition
(1) W.19/78	188543	10/4/78	S.R.O.

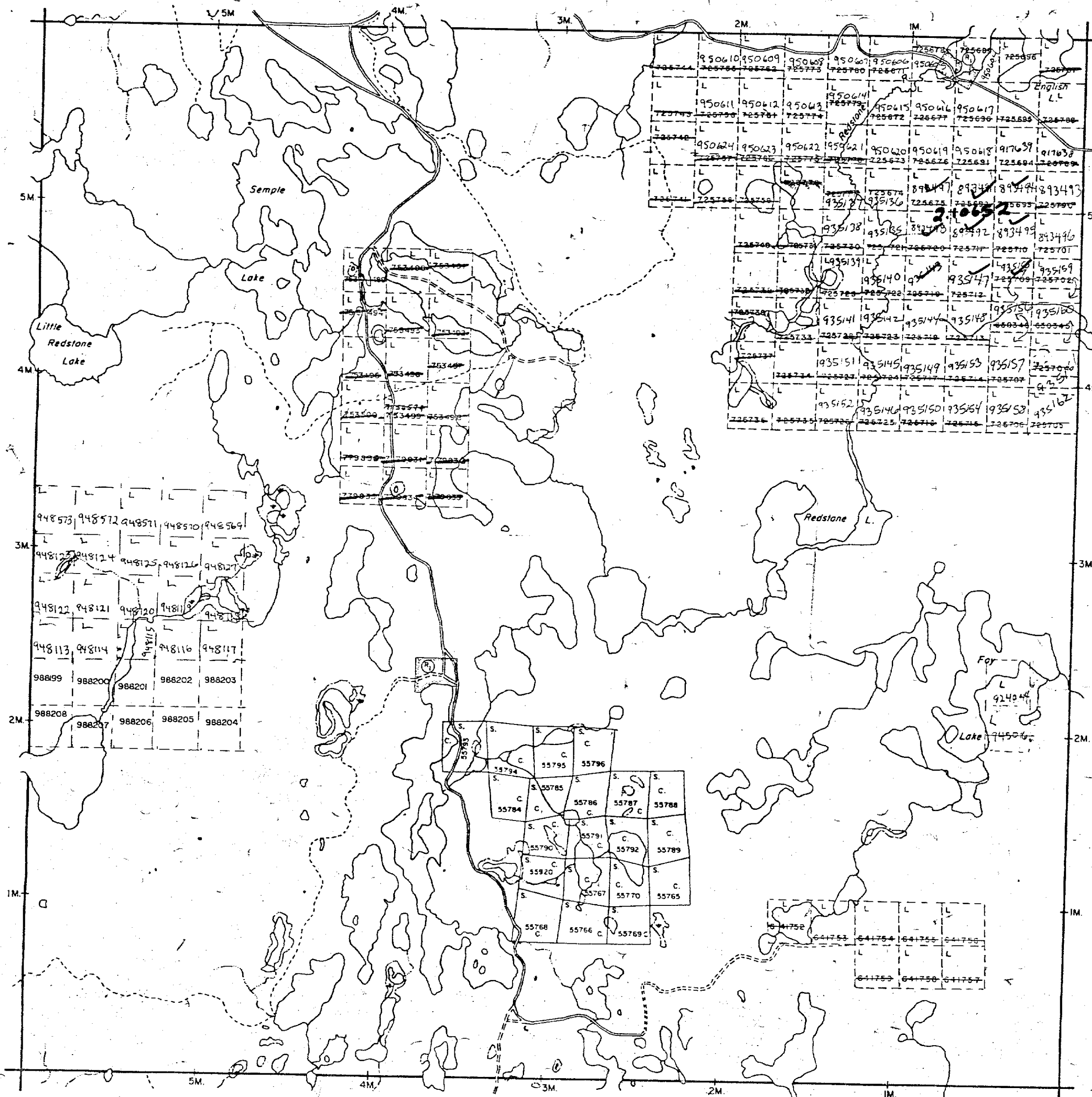
RECEIVED
AUG 5 1987

LEGEND

- PATENTED LAND (P or S)
 - PATENTED FOR SURFACE RIGHTS ONLY (S)
 - LEASE (L)
 - LICENSE OF OCCUPATION (L.O.)
 - CROWN LAND SALES (C.S.)
 - LCCATED LAND (Loc.)
 - CANCELLED (C.)
 - MINING RIGHTS ONLY (M.R.O.)
 - SURFACE RIGHTS ONLY (S.R.O.)
 - HIGHWAY & ROUTE NO. (17)
 - ROADS
 - TRAILS
 - RAILWAYS
 - POWER LINES
 - MARSH OR MUSKEG
 - MINES
- *used only with summer resort locations or when space is limited

MOHER TWP. M-868

HUTT TWP. M-943



SOTHMAN TWP. M-1121

TOWNSHIP OF
2.10652
SEMPLÉ

DISTRICT OF
SUDBURY
PORCUPINE

MINING DIVISION

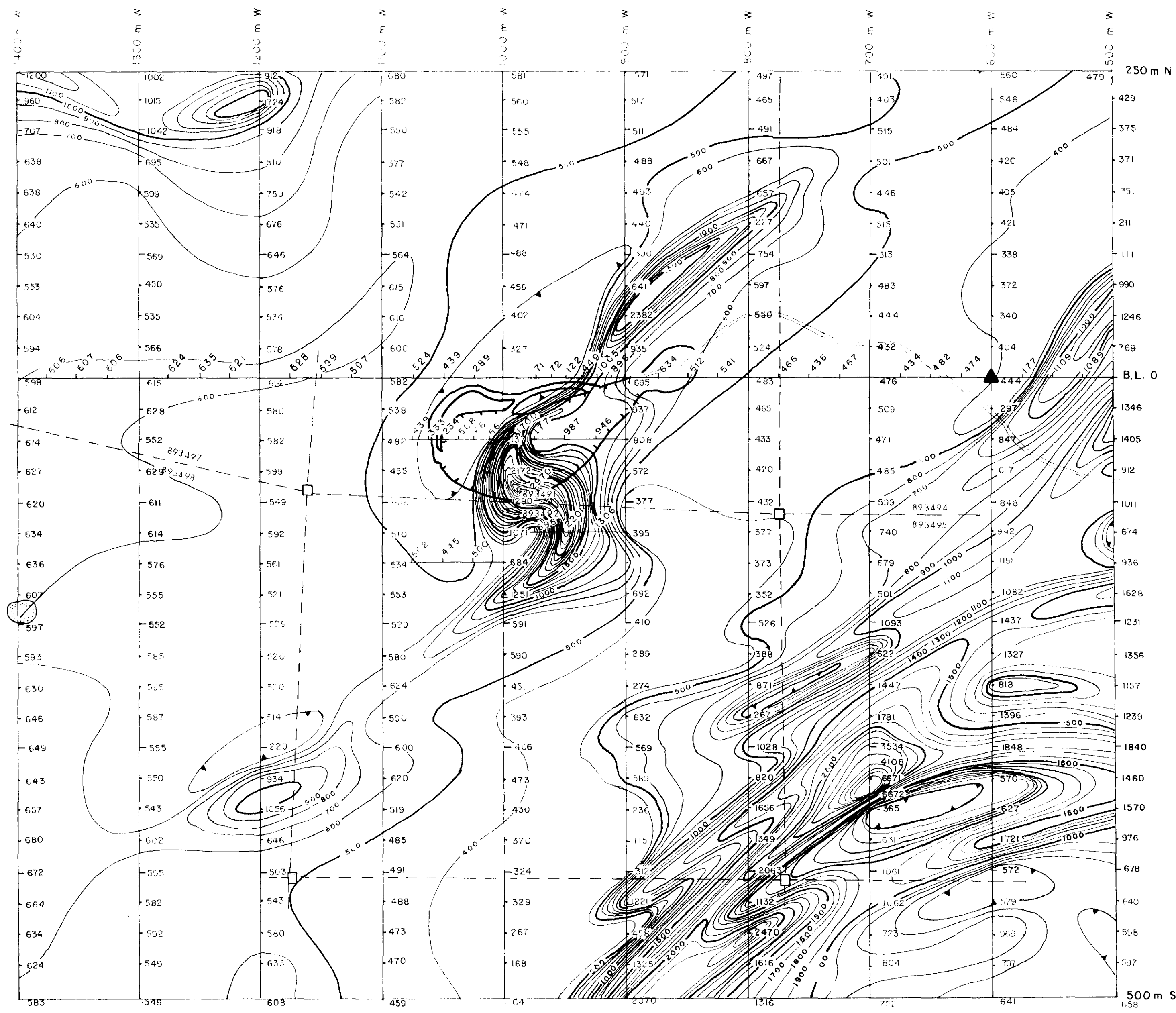
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DR. R.W. NOBLE
DATE APR. 22, 71
PLAN NO. **M-1100**

ONTARIO
MINISTRY OF NATURAL RESOURCES

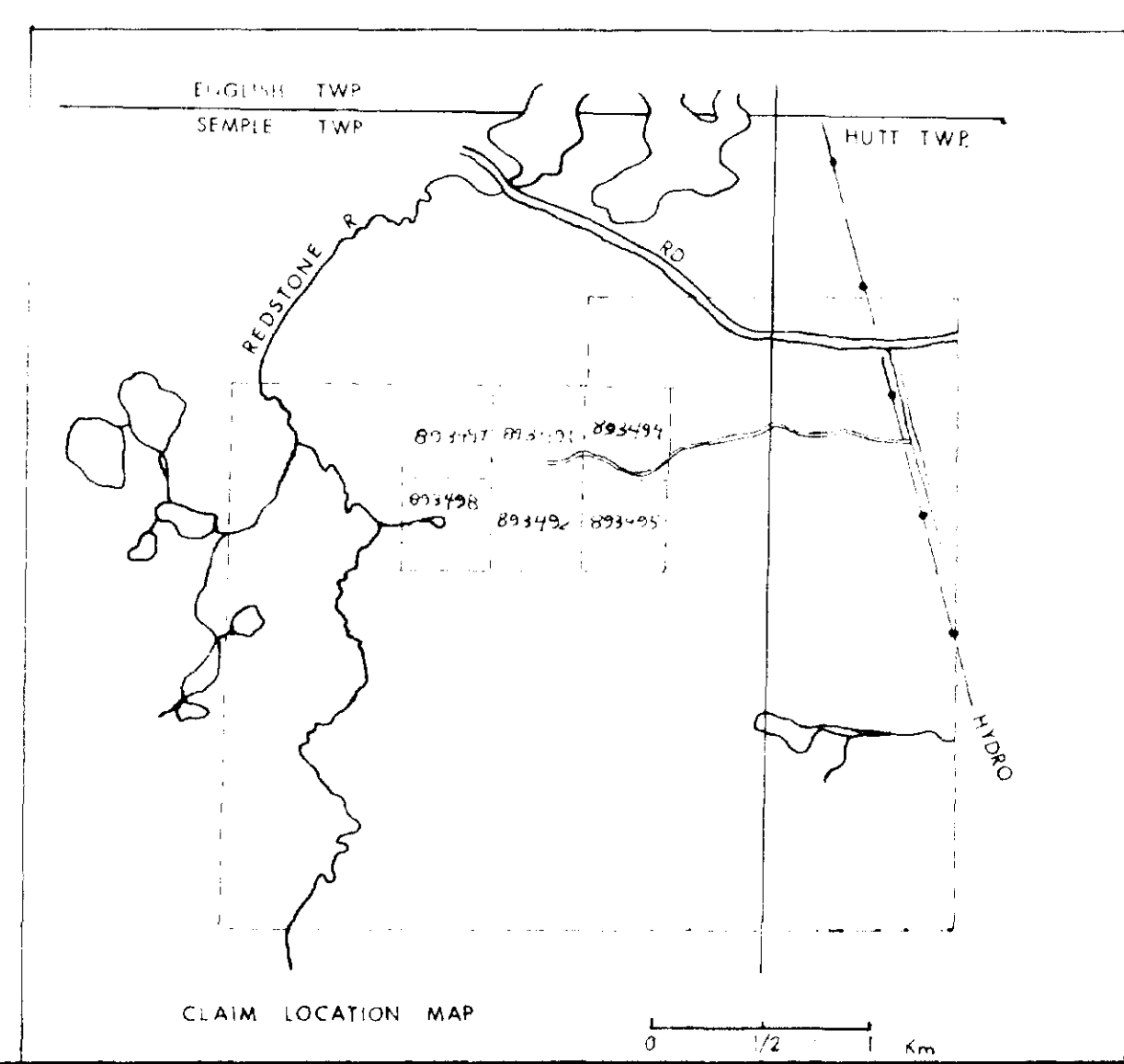
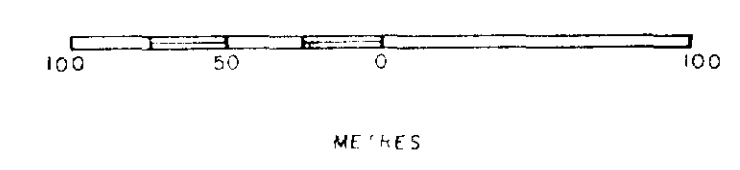


41P14NE8398 2.10652 SEMPLE



Instrument : Scintrex IGS-2/MP-4
 Type : Total Field Proton Precession
 Contour Interval : 100 Gammas
 Datum Line : 58000 Gammas
 ▲ Magnetic Base Station

- KEY**
- +--- CLAIM POST, CLAIM LINES (APPROX. LOCATION)
 - BUSH ROAD
 - POND
 - STRIPPED AREA
 - SURVEY LINES

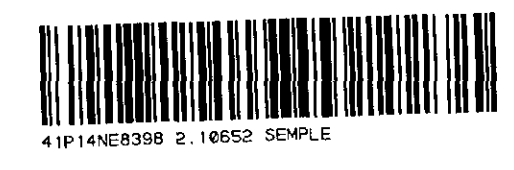


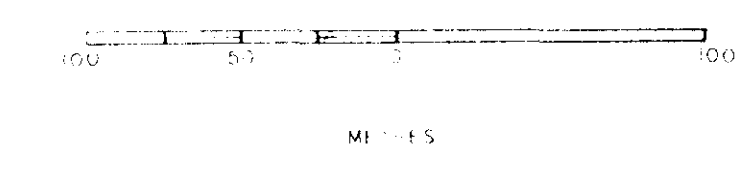
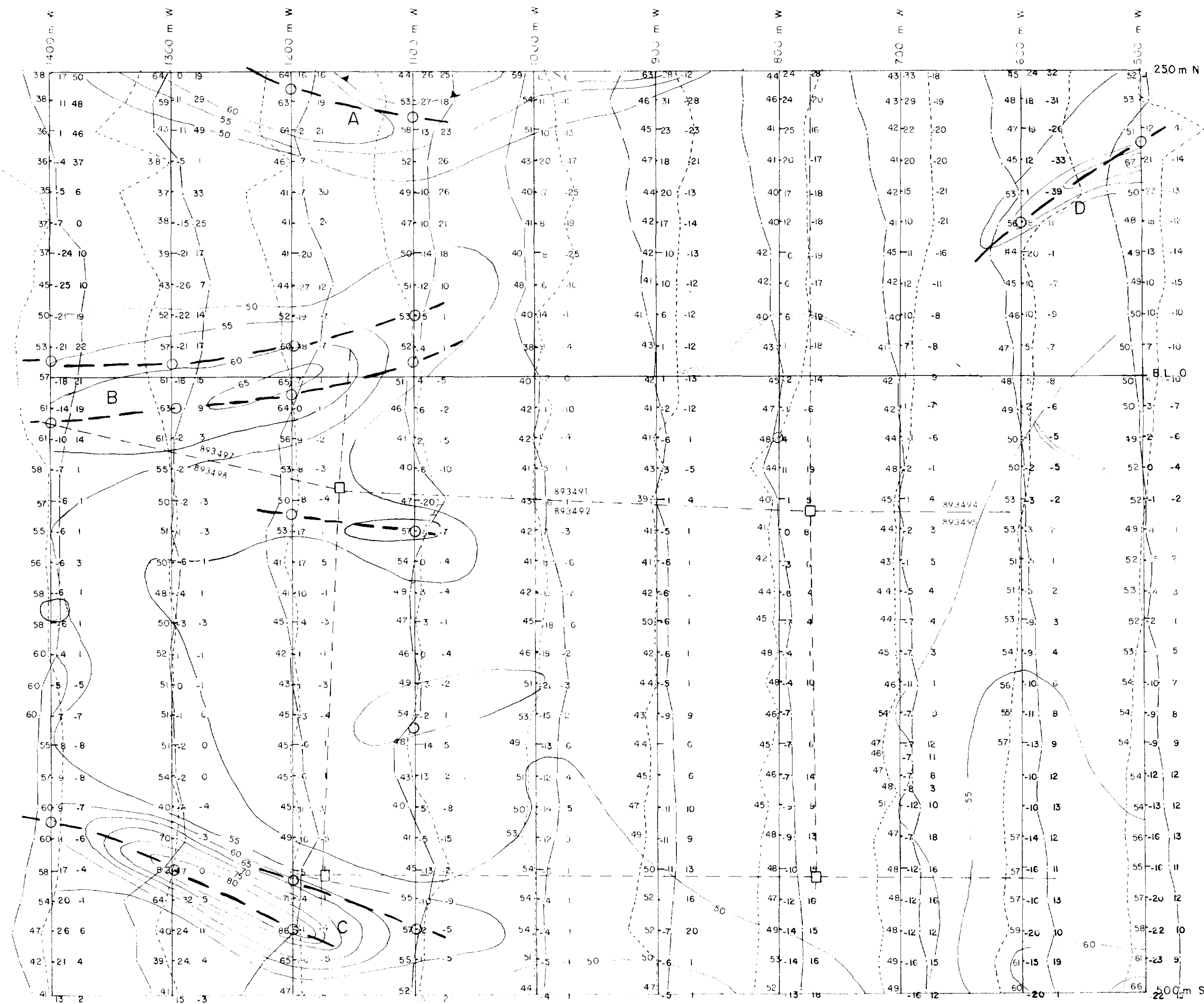
PAMOREX MINERALS INC.

DECKER PROPERTY
 SEMPLE TOWNSHIP
 MAGNETIC SURVEY

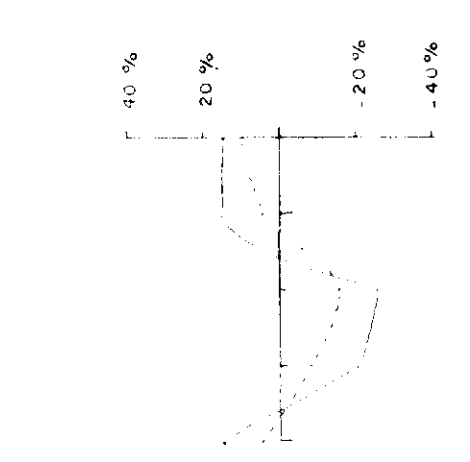
SCALE: 1:2500 DATE: AUG. 1987

TIMMINS GEOPHYSICS LTD.
 DRAWN BY: AJR *Douglas Lowry*

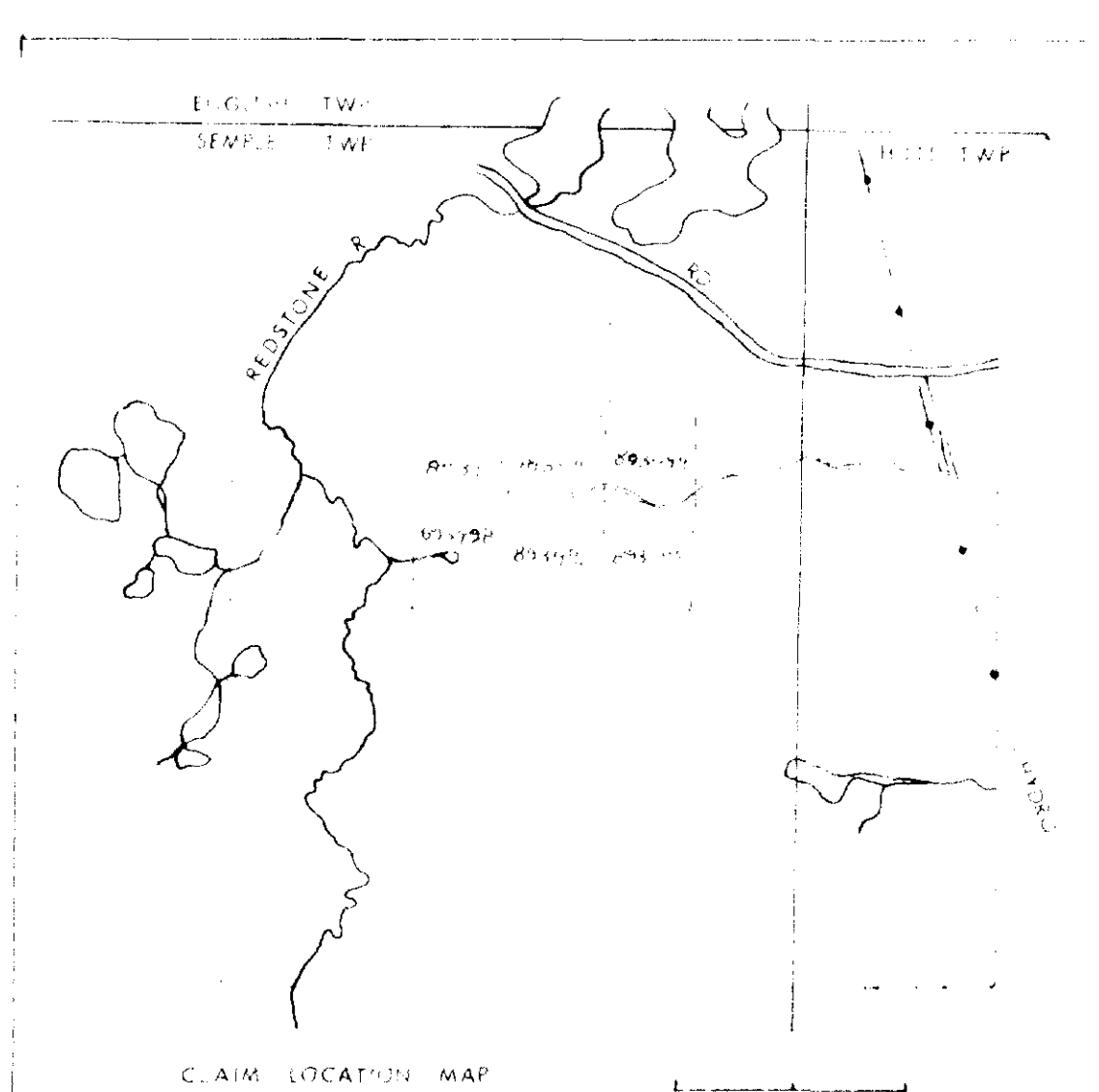




Instrument : Sointrex IGS-2/VLF-4
 Station : Cutler, Maine
 Frequency : 24.0 KHz



- KEY**
- CLAIM POST, CLAIM LINES (APPROX. LOCATION)
 - BUSH ROAD
 - POND
 - SURVEY LINES



PAMOREX MINERALS INC.

DECKER PROPERTY
 SEMPLE TOWNSHIP
VLF SURVEY

SCALE : 1:2500 DATE : AUG 1987
 TIMMINS GEOPHYSICS LTD.
 DRAWN BY: AJR *Douglas Lowry*

