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FEB 19 1982

MINING LANDS SECTION

MAGNETIC - ELECTROMAGNETIC SURVEY

on the

J. V. BONHOMME PROPERTY

Ogden Township, Ontario

**Timmins, Ontario,
February 10, 1982.**

**R. J. Bradshaw, P. Eng.,
Geologist.**

INTRODUCTION

Two claims in the easternmost sector of the J. V. Bonhomme property in Ogden Township have been covered by magnetic and electromagnetic surveys.

The picket lines and survey work were completed in early July, 1981.

The old De Santis gold mine is located several hundred feet west of the claims.

PROPERTY, LOCATION AND ACCESS

The two unpatented claims, numbered P525987 and P525988, are situated along the east boundary of a 48 claim block, in north-central Ogden Township, held by J. V. Bonhomme.

Within the city limits of Timmins, Ontario, the property is a few miles south of the downtown area.

An all-weather gravel road providing access to the De Santis mine crosses the claims. About a mile east this road connects to Pine Street South, a main thoroughfare through the city of Timmins.

PREVIOUS WORK

In July, 1980, a hole designated 80-1 was drilled north from the base line at 71+00 east. No gold values were detected in the hole drilled to 301 feet in carbonatized intermediate volcanic rocks.

GEOLOGY

The claims are expected to be underlain by dominantly intermediate to mafic volcanics striking generally east and dipping south at about 45 degrees.

MAGNETIC SURVEY RESULTS AND INTERPRETATION

The magnetic survey data is plotted and contoured on the accompanying plan at a scale of one inch to two hundred feet. The instrument and survey method are described in the Appendix to this report.

The minimal data available on a two claim block does not lend itself to a detailed interpretation.

A south-southeasterly trend of the underlying rocks is indicated by the magnetic contours which contrasts with an easterly trend several hundred feet further west. This deviation is supportive of a diabase dyke crossing the claims in a north-northwest direction.

ELECTROMAGNETIC SURVEY RESULTS AND INTERPRETATION

The electromagnetic survey data is plotted and profiled on the accompanying plan at a scale of one inch to two hundred feet. The instrument and survey method are described in the Appendix to this report.

An east-southeasterly trending conductor about the centre of claim F525988 probably represents a graphitic horizon as indicated by drilling to the west.

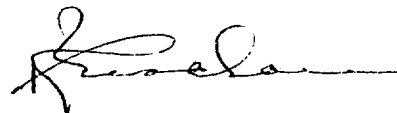
A weak crossover at station 11 south, line 80 east, corresponds to the diabase dyke contact.

CONCLUSIONS AND RECOMMENDATIONS

The geophysical data indicates that the stratigraphy, as outlined by drilling to the west, is continuous across the claims except where interrupted by a north-northwest trending diabase dyke.

It is suggested that no further work be undertaken on the claims at this time.

Respectfully submitted,
SHIELD GEOPHYSICS LIMITED,



R. J. Bradshaw, P. Eng.,

Geologist.

Timmins, Ontario,
February 10, 1982.

A P P E N D I X

INSTRUMENT METHOD AND SURVEY DATA

Electromagnetic Survey

Any alternating magnetic field will induce an electrical eddy current in the medium through which the magnetic field passes. If a source of an alternating magnetic field is located near a conductive body anomalously strong eddy currents will be induced in the deposit due to its high electrical conductivity. Electrical currents induced in the conductive body will produce a secondary magnetic field proportional to the intensity of current flow.

A receiver coil tuned to the frequency of the transmitting device will pick up both the directly transmitted signal and the eddy current signal.

The electromagnetic unit used in this survey is a McPhar unit and consists of a vertically mounted, motor-generator powered transmitting coil operating at frequencies of 5000 and 1000 cps. and a receiving coil, tuned to the transmitting frequencies, an inclinometer, an amplifier and a headset.

Throughout the survey, the transmitter and receiver were separated by distances of 400, 800 and 1200 feet. The plane of the transmitter coil was oriented so that the transmitter was vertical and pointed towards the receiver. Orientation was obtained using a plate on which predetermined receiver positions were plotted. Stations were read at one hundred foot intervals. At all times, the receiver "faced" the transmitter. The results

obtained are dip angles, measured in degrees. The dip angles are obtained by first orienting the receiver coil in the plane of the magnetic field by rotating the coil about a vertical axis until a null or minimum signal is obtained, and then rotating the coil about a horizontal axis until a null or minimum signal is obtained. The angle which the magnetic field makes with the horizontal is recorded as a "dip" or "tilt" angle. In the absence of a conductor the dip angle will be zero since no secondary field is present. In the presence of a conductor, the axis of the receiver coil points towards the conductor and the plane of the coil away from the conductor. In the presence of a conductor, the secondary magnetic field is usually displaced from the primary in-phase as well as direction so that the total field is elliptically polarized. The receiver cannot then be nulled completely but a minimum signal can be obtained, the width of the minimum being an indication of the phase displacement.

The tilt angles are plotted as profiles, the zero or "cross-over" point indicating the focus of the conductor axis.

Once a conductor axis has been established, the transmitter is set up over the conductor and lines are read on both sides of the transmitter and the conductor axis is traced out by "leap frogging" from "cross-over" to "cross over".

SPECIFICATIONS

Operating Frequencies: 1000 and 5000 cycles per second.

Range: 2000 foot separation between transmitter and receiver for a ± 10 degree null width.

Depth of Exploration: Roughly half the distance between transmitter and receiver.

Transmitter Power Supply: 500 watt alternator driven by a 1½ H.P. gasoline engine.

Weights:

Packboard-mounted engine generator	48 lbs.
Transmitter coil on packboard	49 lbs.
Coil mounting pole and spreader bar	22 lbs.
Receiver	7 lbs.

Magnetic Survey

A McPhar fluxgate magnetometer was used for the magnetic survey. The instrument measures the vertical component of the earth's magnetic field in gammas. A base station for determining the magnetic diurnal variation was established on Line 76E at Station 7+005. Magnetic readings were taken at 100 foot intervals along the cross lines.

C E R T I F I C A T E

I, Ronald J. Bradshaw, residing at R. R. 2, Airport Road, Timmins, Ontario, a consulting geologist with office at R. R. 2, Airport Road, Timmins, Ontario, do hereby certify that:

I attended Queen's University, Kingston, Ontario, and graduated with an Honours B.A. degree in Geological Sciences in 1958.

I am a Fellow of the Geological Association of Canada, a Member of the Canadian Institute of Mining and Metallurgy and of the Association of Professional Engineers of Ontario.

I have no interest either directly or indirectly in the property of J. V. Bonhomme.



A handwritten signature in cursive script, appearing to read "R. J. Bradshaw".

Timmins, Ontario,
February 10, 1982.

R. J. Bradshaw, P. Eng.,
Geologist.



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Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electro-magnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 525987 et al in the Township of Ogden.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

J. Skura/amc

cc: Shield Geophysics Limited
Timmins, Ontario



Ministry of Natural Resources

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

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525987

- Instructions: - Please type or print. - 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 "Expend. Days Cr." columns. - Do not use shaded areas below.

Ogden Twp.

The Mining Act 2.4559

Form header containing: Type of Survey(s) Magnetic & Electromagnetic; Claim Holder(s) J. V. Bonhomme, 168 Algonquin Blvd. E., Timmins, Ontario; Survey Company Shield Geophysics Limited; Name and Address of Author R. J. Bradshaw, P. O. Box 630, Timmins, Ontario; Township or Area Ogden Township; Prospector's Licence No. M19183; Survey Dates (linecutting to office) 1 Day, 7 Mo., 81 Yr.; Total Miles of line Cut 2 miles.

Special Provisions Credits Requested table with columns: Instructions, Geophysical, Days per Claim. Includes entries for Electromagnetic (40 days), Magnetometer (20 days), and Radiometric.

Mining Claims Traversed (List in numerical sequence) table with columns: Mining Claim Prefix, Mining Claim Number, Expend. Days Cr. Includes entries for claims 525987 and 525988.

Man Days table with columns: Instructions, Geophysical, Days per Claim. Includes entry for complete reverse side.

Airborne Credits table with columns: Note, Geophysical, Days per Claim. Note: Special provisions credits do not apply to Airborne Surveys.

Expenditures (excludes power stripping) section including Type of Work Performed, 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.

Report Completed section with Date of Report (Feb. 10, 1982) and Recorder/Holder or Agent (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.

RECORDED FEB 16 1982 Receipt No.

RECEIVED MAR 4 1982

MINING LANDS SECTION

FORCUPINE MINING DIVISION RECEIVED FEB 15 1982

For Office Use Only section with Total Days Cr. Recorded (120), Date Recorded (Feb 16/82), Date Approved as Recorded (Dec 8/82), and Mining Recorder signature.

SHIELD GEOPHYSICS LIMITED

MINING EXPLORATION CONSULTANTS & CONTRACTORS

AIRPORT ROAD, TIMMINS, ONTARIO

TELEPHONE (705) 264-9405
MAILING ADDRESS:
P.O. BOX 630
TIMMINS, ONTARIO
P4N 7G2

February 16, 1982.

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MINING LANDS SECTION

Lands Administration Branch,
Mining Lands Section,
Ministry of Natural Resources,
Room 1617, Whitney Block,
Queen's Park,
Toronto, Ontario M7A 1W3.

Attention: Mr. Fred W. Matthews

Dear Sir:

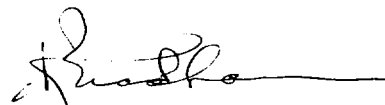
Re: Claims P525987 and P525988
Ogden Township

Enclosed please find two copies of magnetic and
electromagnetic surveys carried out on two claims of the
J. V. Bonhomme property in Ogden Township.

The Report of Work form has been filed with the
local Mining Recorder's office in Timmins.

Yours truly,

SHIELD GEOPHYSICS LIMITED,



R. J. Bradshaw.

pd
Encls.

qual. o. file 53.1323

MOUNTJOY TWP M-302

THE TOWNSHIP OF

OGDEN

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 20 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- 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
- CANCELLED
- QUARRY PERMIT

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

L.O. 6613 - Booming Grounds - covers the westerly half of the bed of the Mattagami River flowing through this township. File: 73543.

This township lies within the Municipality of CITY OF TIMMINS.

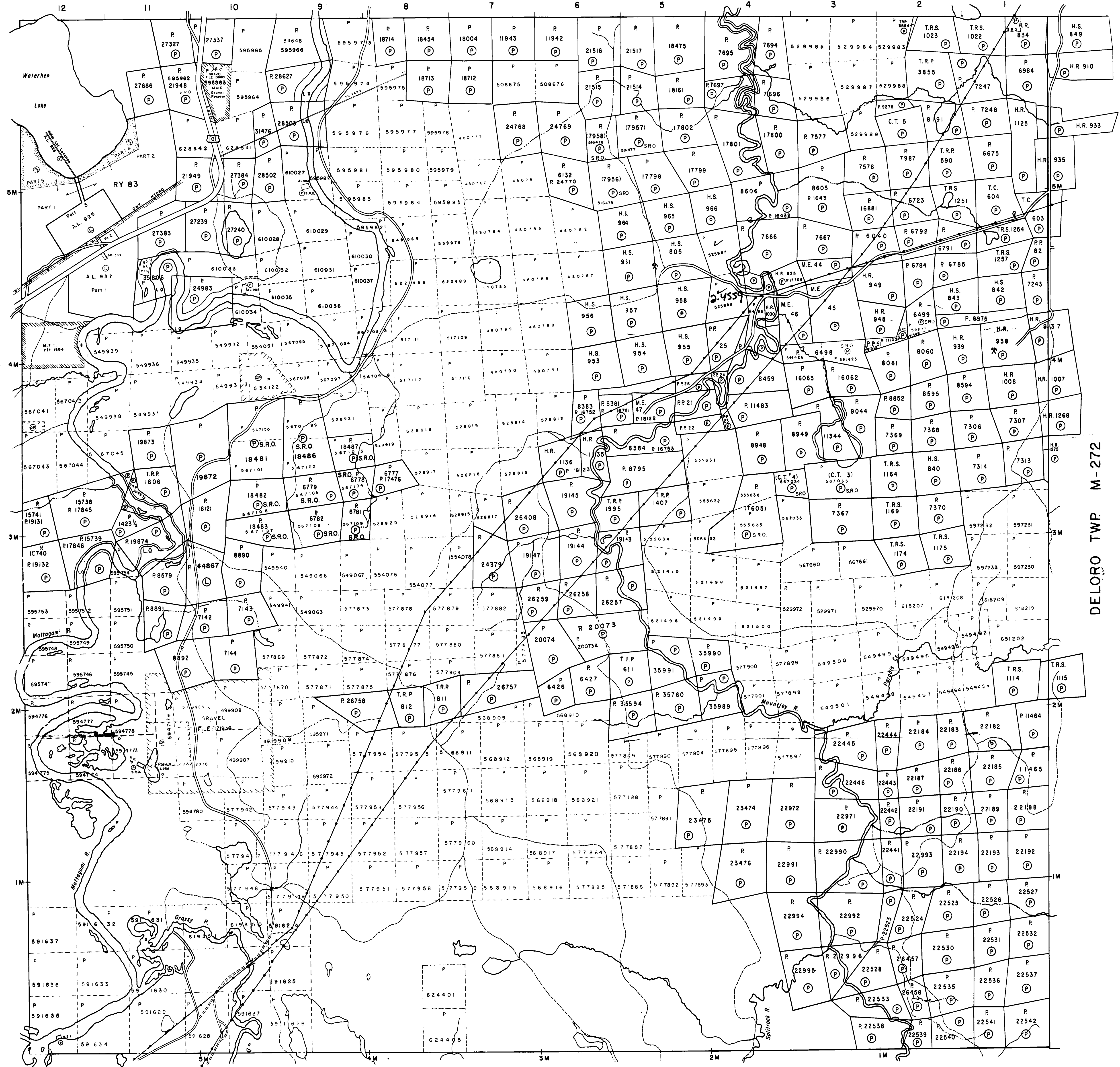
Areas withdrawn from staking under Section 43 of the Mining Act

File	Date	Disposition
HR. 5179	189427	2/11/79 S.R.O.

DATE OF ISSUE
 6-20-1982
 MINISTRY OF NATURAL RESOURCES

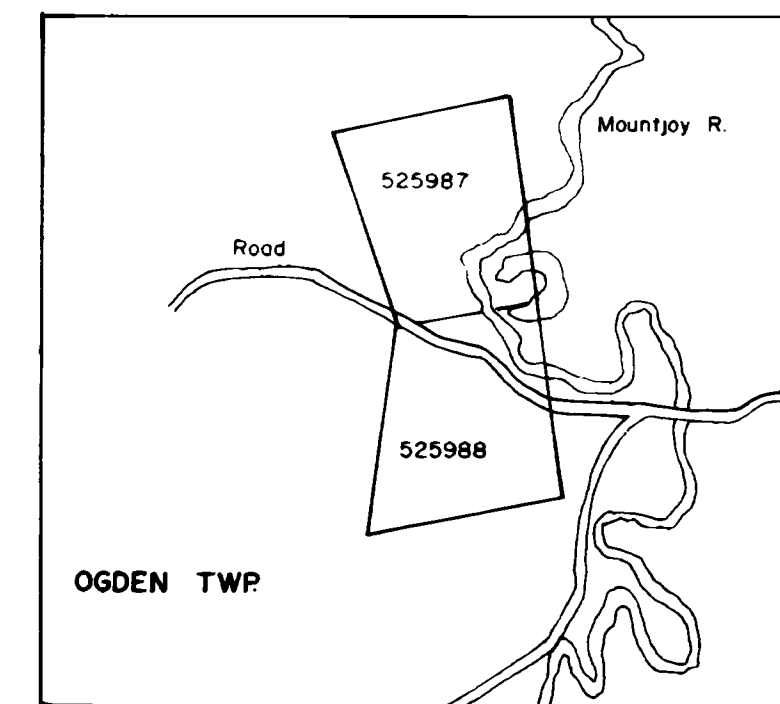
PLAN NO. M-305

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



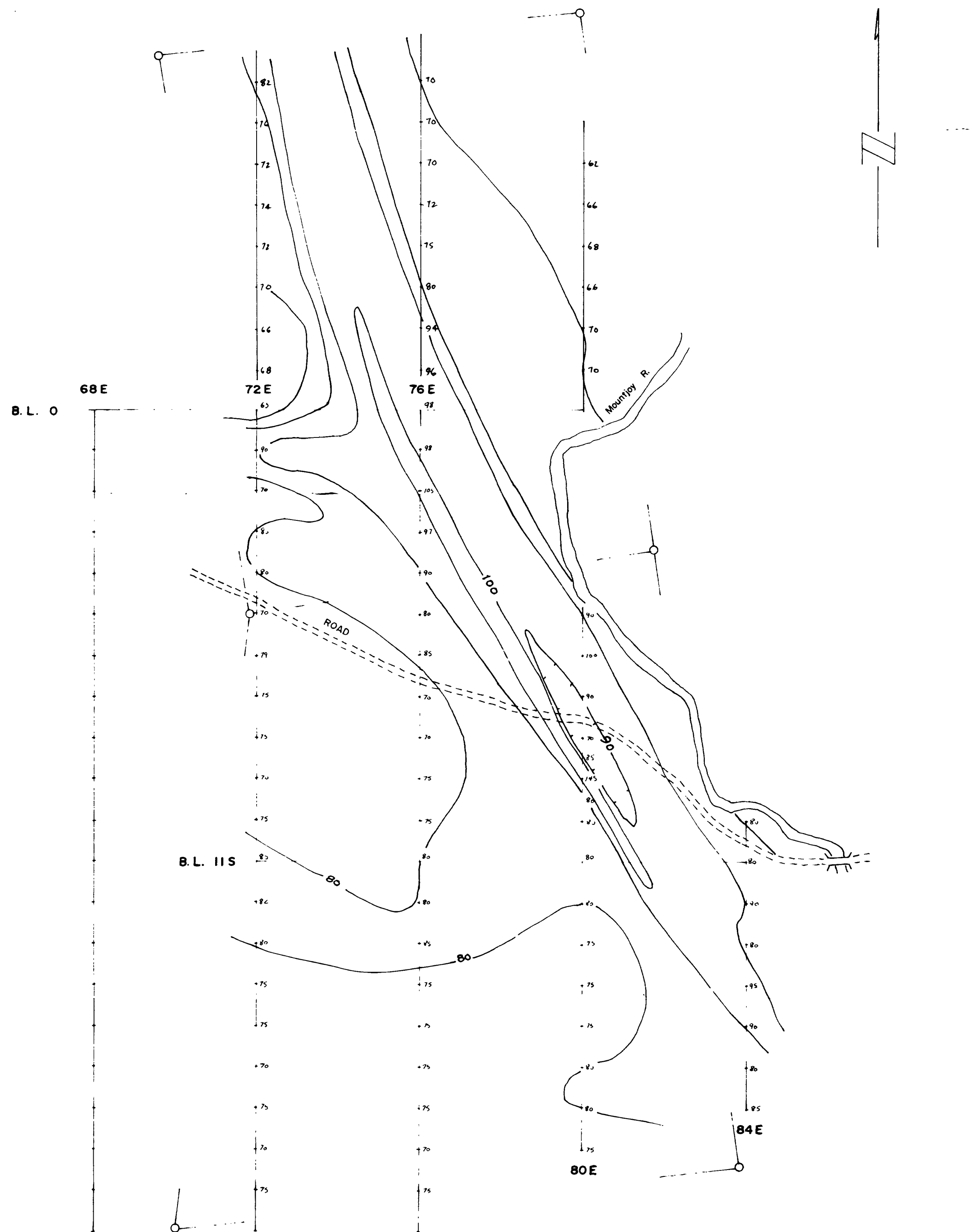
PRICE TWP M-307





KEY MAP

1 inch to 1/2 mile

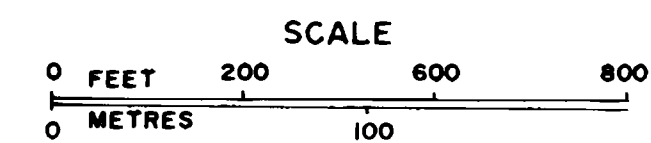


LEGEND

- Measurement station along picket line
- Relative value of the vertical component of the earth's magnetic field in gammas
- Magnetic contour
- Magnetic depression

INSTRUMENT: McPhar fluxgate magnetometer

MAGNETOMETER SURVEY
ON THE
J. V. BONHOMME PROPERTY
OGDEN TOWNSHIP, ONTARIO

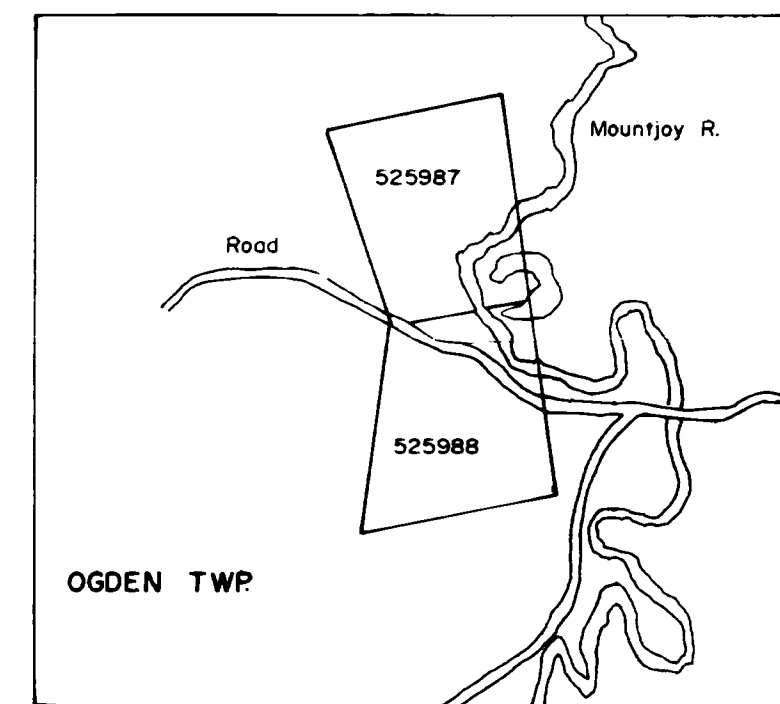


[Handwritten signature]
Feb. 11, 1982

FEBRUARY

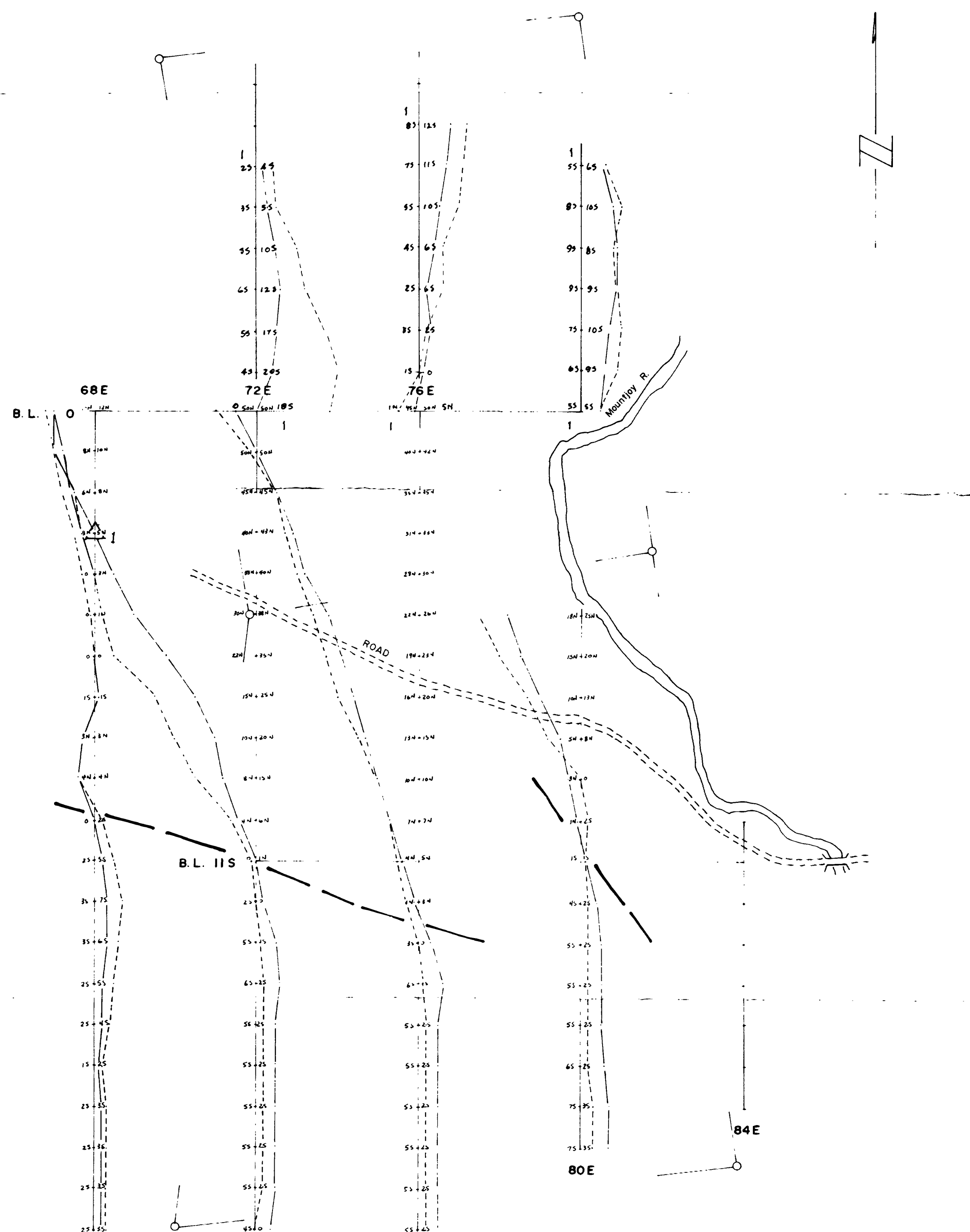
1982





KEY MAP

1 inch to 1/2 mile

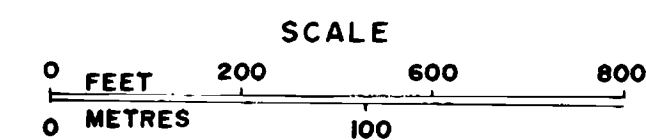


LEGEND

- |— Measurement station along picket line
 - 25 | 1000 cps plotted to left of line
 - |— 55 | 5000 cps plotted to right of line
 - ◁ Transmitter location
 - |— 1000 cps profile
 - |— 5000 cps profile
 - Profile scale 1" = 20°
 - |— Conductor
- INSTRUMENT McPhar 1000/5000 E.M.

ELECTROMAGNETIC SURVEY
ON THE
J. V. BONHOMME PROPERTY
OGDEN TOWNSHIP, ONTARIO

[Signature]
Feb 11, 82



FEBRUARY

1982



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