GEOPHYSICAL SURVEY

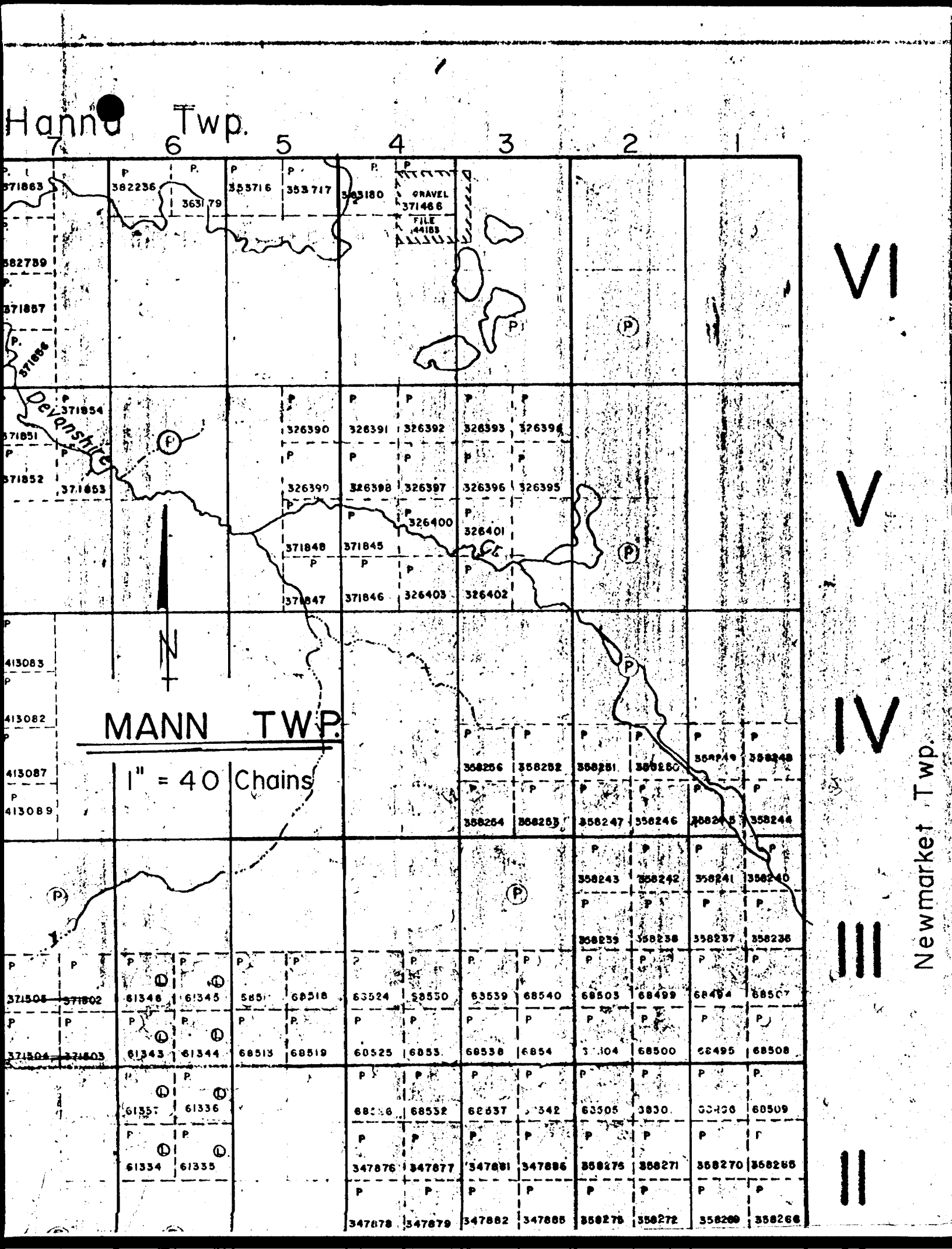
on the

MANN #1 GROUP

Hollinger Mines Limited
Mann Township, Ontario

H.Z. Tittley, P.Eng.

Timmins, Ontario
January 8, 1975


Hanna Twp.
7
6
5
4
3
2
1
VI
V
IV
III
II
Newmarket Twp.
MANN TWP.
1" = 40 Chains
N
Devonshire
GRAVEL
371466
FILE
44183

INTRODUCTION

Between October 1974 and January 1975, 4 mining claims, in Mann Township north of Timmins, Ontario, were gridded and surveyed with a portable magnetometer in order to obtain additional information about the underlying geology.

An intrusive, possibly of ultramafic composition, extending across the north part of the claims was outlined.

PROPERTY, LOCATION and ACCESS

Mann #1 Group consists of 18 unpatented mining claims, situated in the township of Mann, Porcupine Mining Division, held by Hollinger Mines Limited under option from Mr. Ty Randa of Cochrane, Ontario.

The scope of this report is a square block of four claims that occupies the W½ of the S½ of lot 4 and the E½ of the S½ of lot 5 in concession 5. The claims are numbered P-371845 to P-371848 inclusively.

TOPOGRAPHY

The area of the property is a relatively flat wooded plain typical of the undeveloped parts of the 'clay-belt' (Barlow-Ojibway formation). In the northern part of the claims, Devonshire creek has eroded a channel 400 feet wide to a depth of 20 feet. While alders abound near the creeks, the higher ground is forested with spruce, poplar and fir.

SURVEY METHOD

Linecutting

A base line originating from a diamond drill collar situated east of the northeast corner of the group was extended westerly for 3,300 feet near the north boundary of the claims. From this base line cross lines, 200 feet apart, were extended

normally, south to the creek. A second base line parallel to the first was extended across the group 1,600 feet to the south. Similarly, lines were extended north to the creek and south to the claim boundary. Stations were established at 100 foot intervals along the cross lines.

Magnetics

Variations of the earth's total magnetic field between stations were recorded with a model G-816 proton magnetometer. Control stations were established along the base lines at the even 200 foot intersections by averaging repeat loops that encompassed all these points. A curve of the diurnal was recorded by repeating the control points at convenient time intervals. From the curve, the correction for every reading could be interpolated and applied to the reading. Finally, 59,000 gammas were subtracted from the readings to make for clearer presentation of the data.

RESULTS

The results of the magnetic survey were plotted and contoured as shown on the accompanying plan entitled "Magnetic Survey" at a scale of 1 inch to 200 feet.

Considerable magnetic relief was encountered ranging in intensity from less than 500 to nearly 7,000 gammas. These higher magnetic values are thought to be due to ultramafic intrusives similar to peridotites in composition.

The outlines of the magnetic units superimposed on the magnetic contours are derived from gradient magnetic data that were obtained in conjunction with the survey.

CONCLUSIONS

Although all the lines were not read with the magnetometer, the distribution of the magnetic units underlying the property has been successfully demonstrated.

Further magnetic work does not appear warranted at this time.

Respectfully submitted,

H. Z. Tittley P. Eng.

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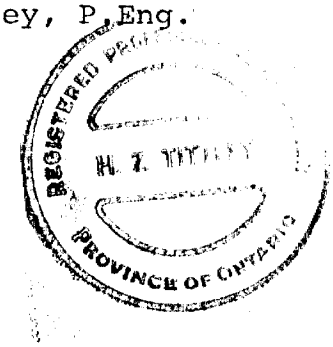


November 15, 1974.

Statement showing distribution of Assessment Days as a result of a Geophysical Mag. Survey (including line-cutting) performed on Claims P.371845-48 inclusive, Mann Township, October 11 - November 13, 1974

Claim Number	Assessment Days
P-371845	40
371846	40
371847	40
371848	40

File 2.1691

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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: Geophysical Mag Survey
Township or Area: Mann Township
Claim holder(s): Hollinger Mines Limited,
Box 320, Timmins, Ontario.

Author of Report: H. Z. Tittley
Address: Hollinger Mines Limited, Box 320, Timmins, Ontario

Covering Dates of Survey: Oct.11,1974 to Jan. 8,1975
(linecutting to office)

Total Miles of Line cut: 7.98 miles

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	20 (40)
- Radiometric	
- Other	
Geological	
Geochemical	

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: _____ SIGNATURE: _____
Author of Report or Agent

MINING CLAIMS TRAVERSED
List numerically

(prefix)		(number)
P	-	371845
P	-	371846
P	-	371847
P	-	371848

If space insufficient, attach list

TOTAL CLAIMS 4

OFFICE USE ONLY

PROJECTS SECTION

Res. Geol. _____ Qualifications 63.2513

Previous Surveys 2.1704 geological received
No Geophysical

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 249 Number of Readings 247

Station interval 100 feet

Line spacing 200 feet

Profile scale or Contour intervals 50, 100, 200, 300, 500 and 1000
(specify for each type of survey)

MAGNETIC

Instrument Geometric Model G-816 Proton Magnetometer

Accuracy - Scale constant 1 gamma

Diurnal correction method closed loops

Base station location 16S B.L. at 16+00'W

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency
(specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION - RESISTIVITY

Instrument

Time domain Frequency domain

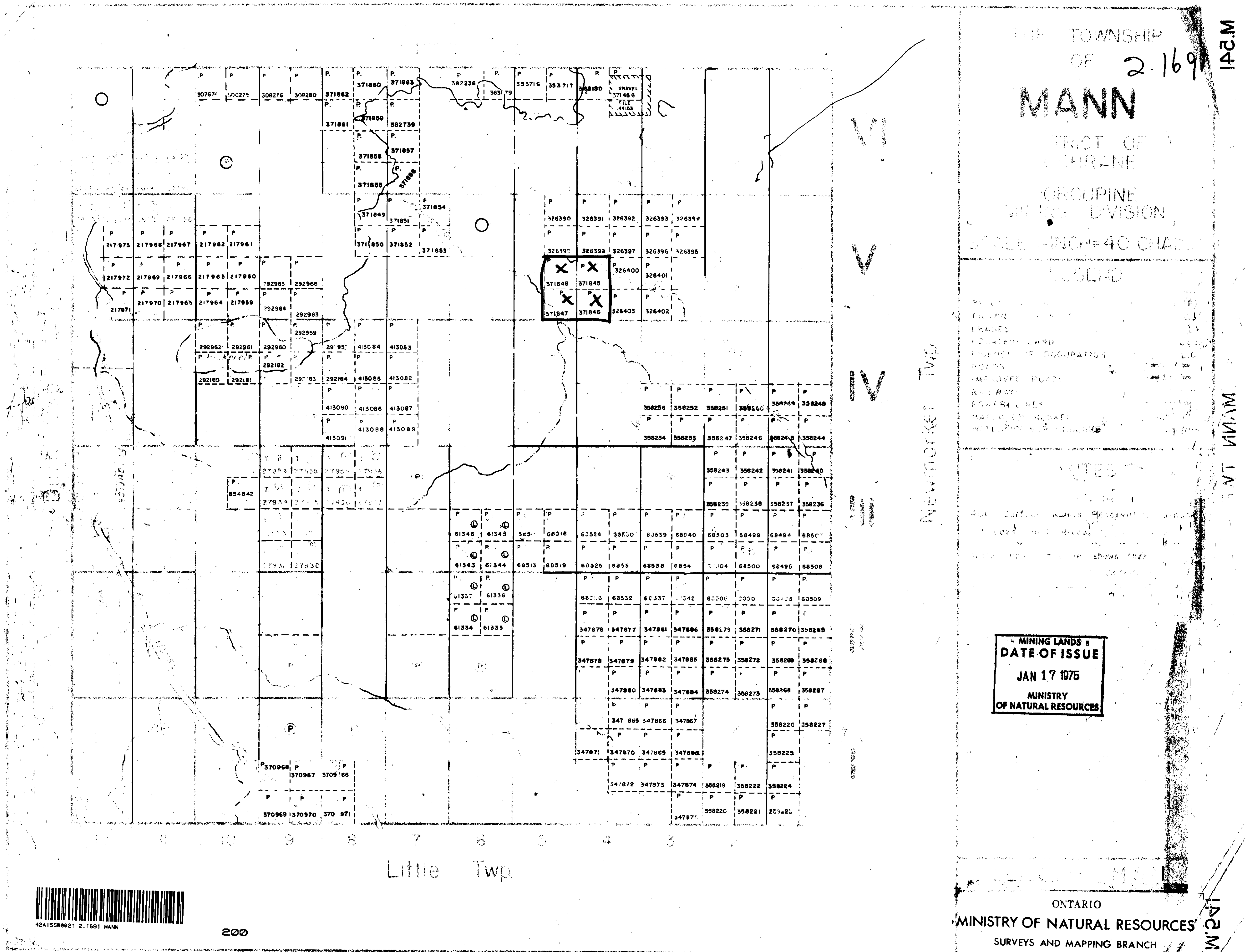
Frequency Range

Power

Electrode array

Electrode spacing

Type of electrode


THE TOWNSHIP OF
MANN
2.1691
M.241
DISTRICT OF COCHRANE
PORCUPINE MINING DIVISION
SCALE 1 INCH = 40 CHAINS
LEGEND
NOTES
VI
V
IV
III
Newmarket Twp
Little Twp
371848
371845
371847
371846
MINING LANDS
DATE OF ISSUE
JAN 17 1975
MINISTRY OF NATURAL RESOURCES
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH
42A15SW0021 2.1691 MANN
200