



42A10SW0130 2.3147 STOCK

2.3147

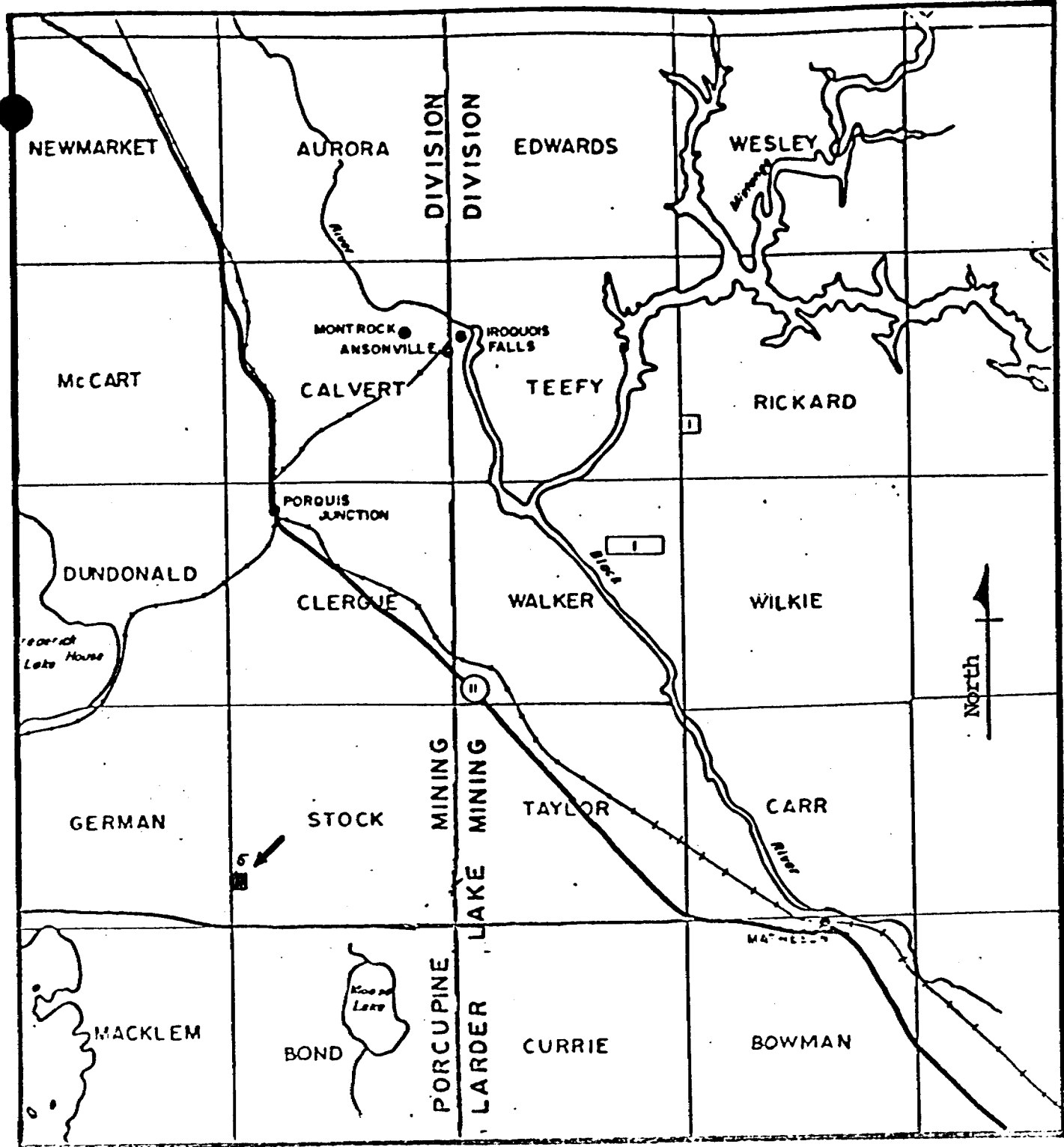
010

GEOPHYSICAL REPORT
on
a
MAGNETOMETER SURVEY
on
STOCK No. 5 GROUP
Stock Township, Ontario

Timmins, Ontario
November 14, 1979

H. Z. Tittley

RECEIVED
DEC 03 1979
MINING LANDS SECTION



INDEX MAP

Scale, 1:253,440

INTRODUCTION

During October 1979, a magnetic survey was performed over two claims in the southwest corner of Stock Township, Ontario.

A major structure known as the Destor-Porcupine Fault lies immediately south of these claims.

PROPERTY, LOCATION and ACCESS

The property consists of two adjacent claims, numbered P.516676 and P.522220. They occupy the west part of the north of lot 12 in the first concession of Stock Township, Porcupine Mining Division, District of Cochrane, Ontario.

Access is via highway 101 west of Matheson.

GENERAL GEOLOGY

From published government compilation maps, the property lies within a sedimentary basin, immediately north of the Destor-Porcupine Fault.

The overburden cover here, situated along the eastern edge of a glacial outwash plain, is mainly fine sand mixed with pleistocene clays. No outcrop was found on the property.

SURVEY METHOD

The survey was conducted along pace and compass lines approximately 400 feet apart in a north-south direction.

Readings were taken at marked stations 100 feet apart, using a proton model G-816 magnetometer manufactured by Geometrics Limited of California.

Monitoring of the magnetic diurnal was accomplished by reading closed loops and finally repeating the original morning reading along the township line, 350 feet south of the property corner.

RESULTS

Results of the survey are plotted and contoured on the accompanying plan entitled Magnetic Survey at a scale of 1 inch to 400 feet.

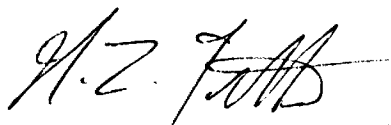
Selected contours of 5, 10, 15 and 25-gamma intervals were plotted to outline a maximum change of only 115 gammas.

The magnetic low to the northeast is likely due to the presence of north trending diabase dykes. One is beneath line 8E to the north and extends through the southeast corner of the group. Another dyke may exist at the township line.

CONCLUSIONS

Little new information can be gleaned from these data, but the suggested presence of diabase dykes, though narrow, can be of importance in future drill programmes.

Respectfully submitted,



H. Z. Tittley, P.Eng.





GEOPHYSICAL - GEOTECHNICAL



42A10SW0130 2.3147 STOCK

900

TO BE ATTACHED AS AN
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geophysical Magnetic
Township or Area Stock Township
Claim Holder(s) Hollinger Mines Limited
P.O.Box 32, Timmins, Ont. P4N 7E2
Survey Company Hollinger Argus Limited
Author of Report H. Z. Tittley
Address of Author Box 320, Timmins, Ont.
Covering Dates of Survey October 9, 1979
(linecutting to office)
Total Miles of Line 2.3 miles

MINING CLAIMS TRAVERSED
List numerically

Table with columns (prefix) and (number). Contains entries: P - 522220, P - 516676

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED
Geophysical
- Electromagnetic
- Magnetometer 20
- Radiometric
- Other
Geological
Geochemical

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

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

DATE: Nov. 29, 1979 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. L.D. Qualifications 63-2513

Previous Surveys

Table with columns: File No., Type, Date, Claim Holder

TOTAL CLAIMS 2

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 127 Number of Readings 135
Station interval 100 feet Line spacing 400 feet
Profile scale N/A
Contour interval

MAGNETIC

Instrument Geometrics G-816 proton magnetometer
Accuracy - Scale constant 1 gamma
Diurnal correction method Closed Loop
Base Station check-in interval (hours) 2 hours
Base Station location and value 260 ft. north of highway 101 on
German-Stock township boundary = 59,576 gammas.

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

Clergue Twp.

THE TOWNSHIP
OF 2.3147

STOCK

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE Ⓢ or C.S.
- LEASES Ⓛ
- 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.

RESERVATIONS:
Ⓟ - Reserved for recreational purposes under Sec. 3 P.L.A. File 180543.

DATE OF ISSUE
 DEC - 5 1979
 SURVEYS AND MAPPING
 BRANCH

PLAN NO. - M. 388

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

German Twp.

Taylor Twp.

VI

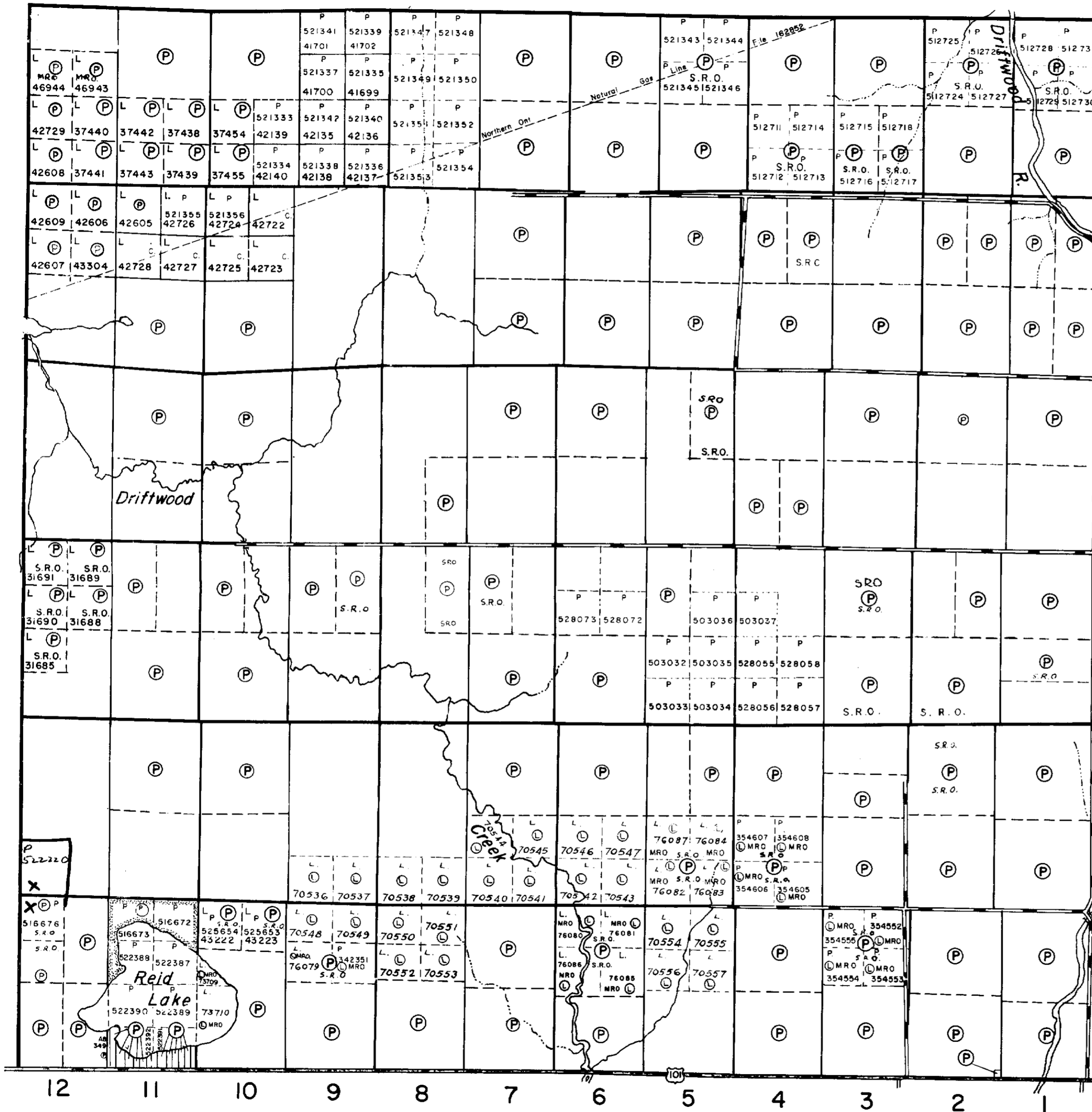
V

IV

III

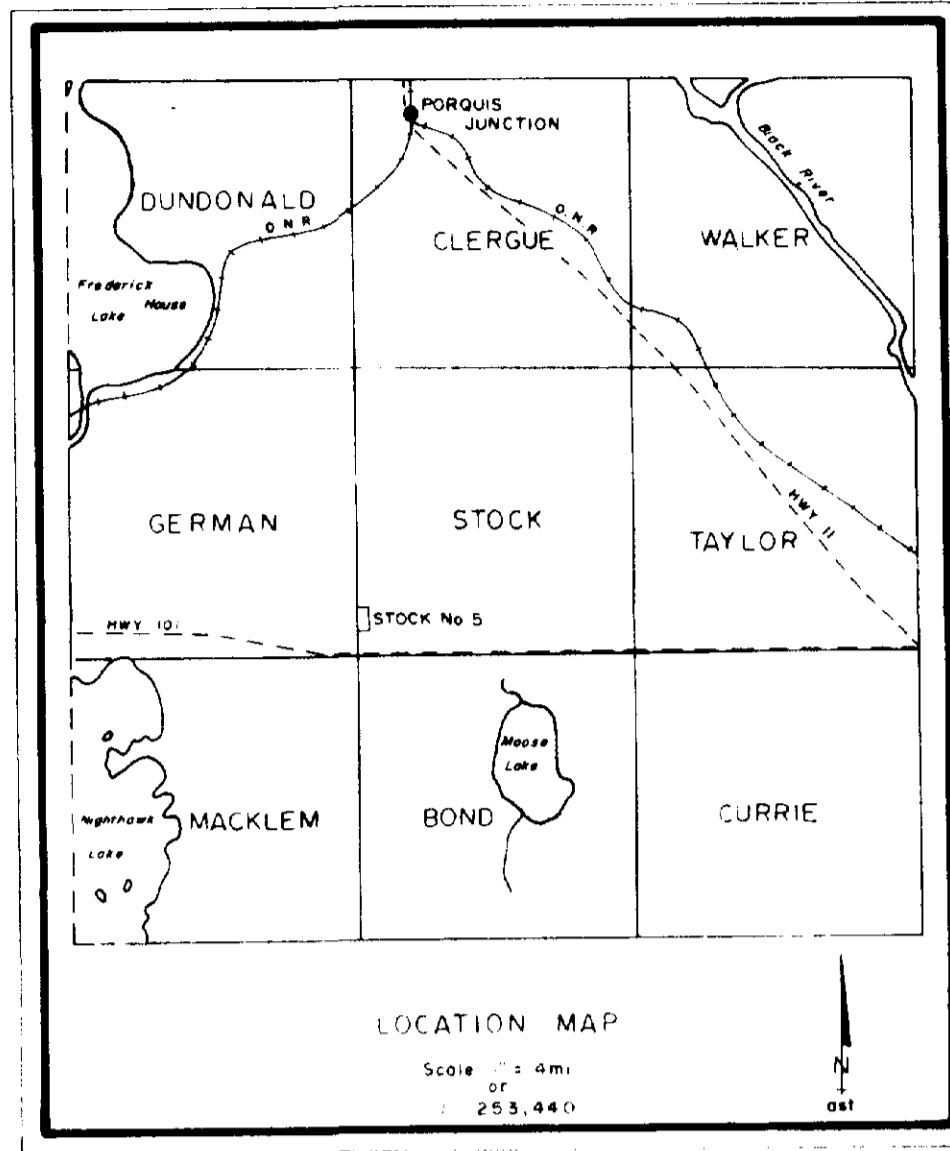
II

I



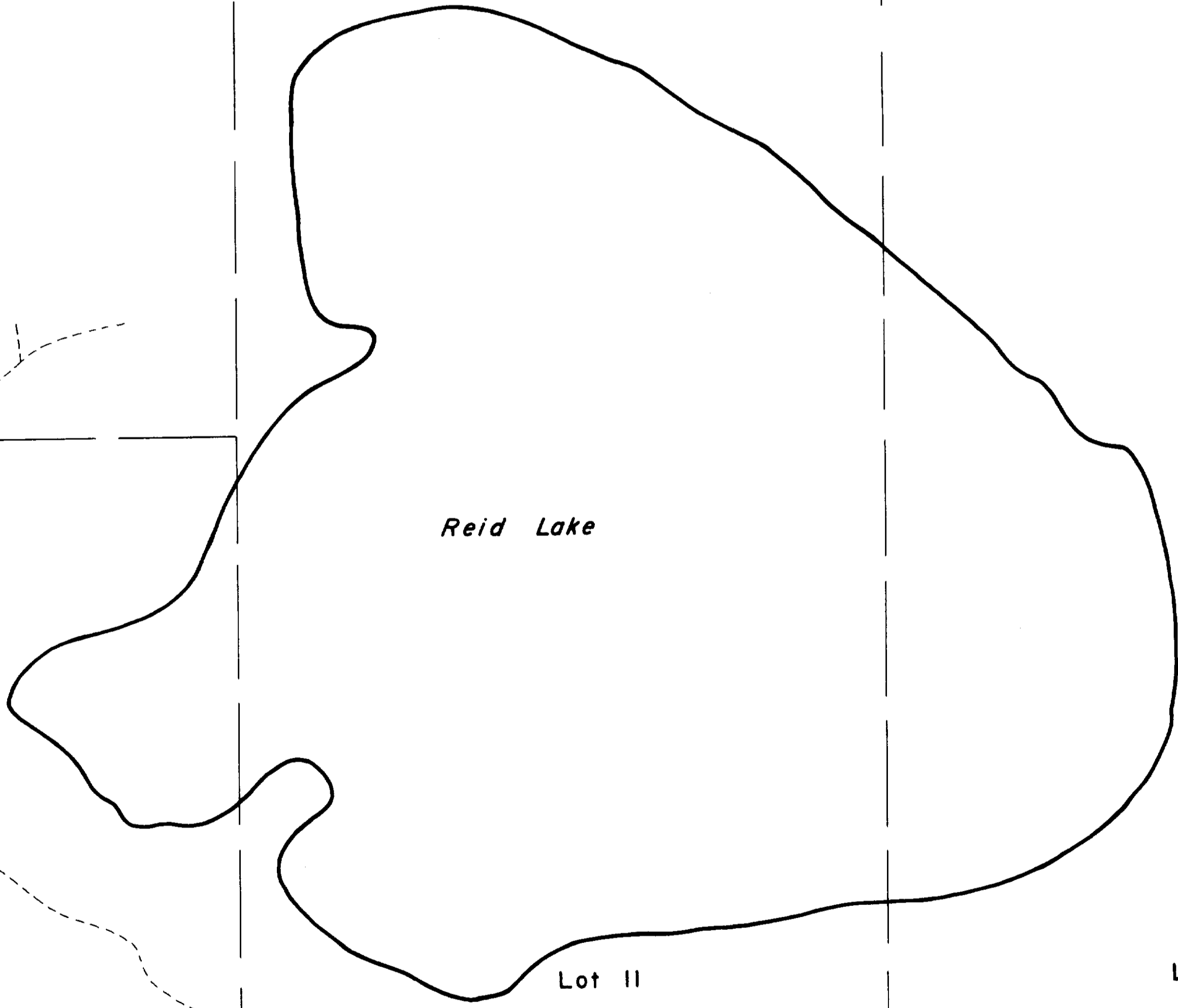
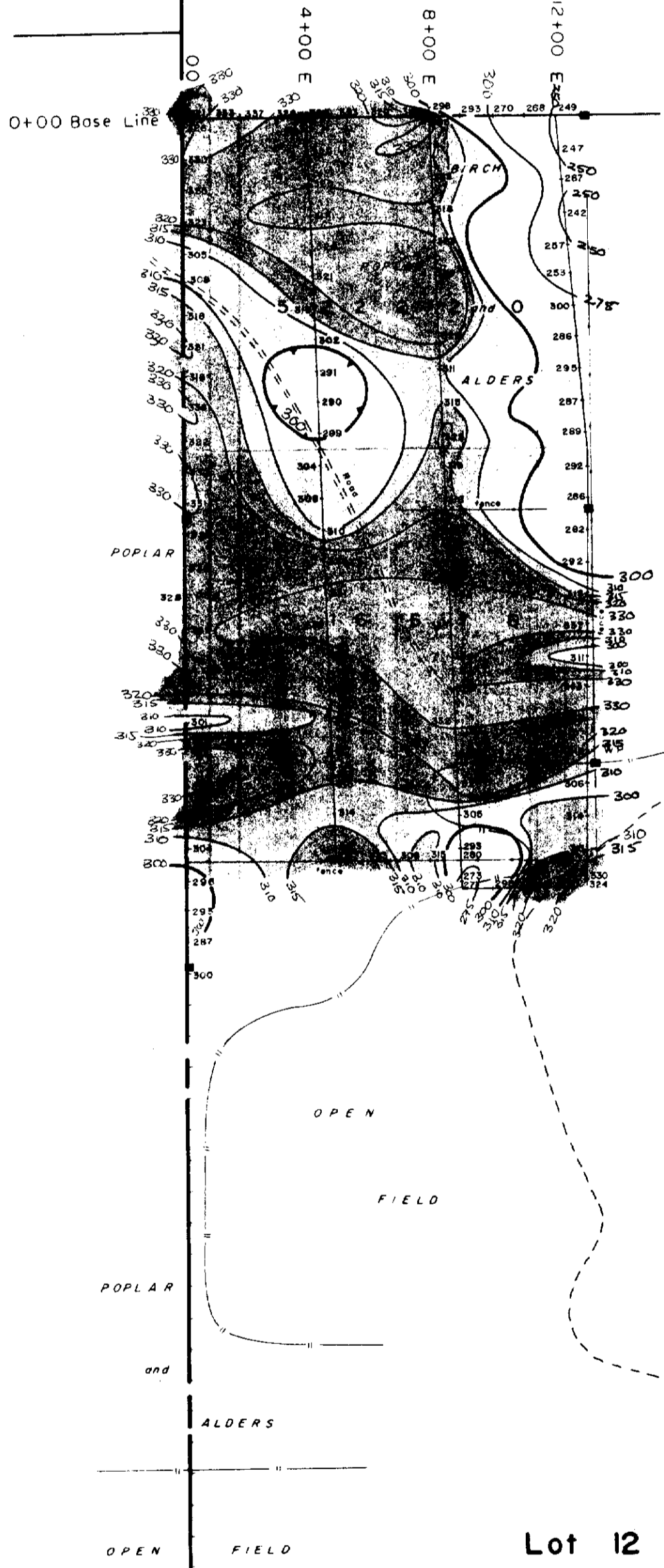
Bond Twp.





CON. II
CON. I

CON. II
CON. I



Lot 1

Lot 12

Lot 11

Lot 10

Lot 9

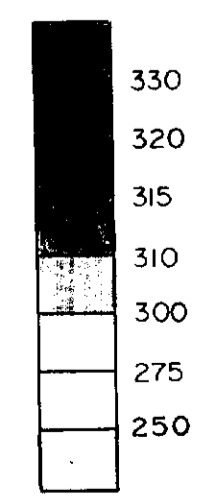
GERMAN TWP.
MACKLEM TWP.

STOCK TWP.
BOND TWP.

HWY. 101

LEGEND

Contour Intervals - in gammas



HOLLINGER MINES LTD.
MAGNETIC SURVEY

STOCK No. 5

Stock Twp. Ont.

SCALE = 1:4800
or
1"=400'

