

2.1466 RECEIVED

REPORT ON MAGNETOMETER SURVEY

FEB 1974

CARLSON CLAIMS - DELORO TOWNSHIP

MINING DIVISION



INTRODUCTION

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This report describes a magnetometer survey which has been performed over two (2) contiguous, unpatented mining claims, recorded as P. 353649 and P. 353648, in Deloro Township, Porcupine Mining Division, Ontario. The recorded holder of these claims is H. J. Carlson, the writer of this report.

LOCATION AND ACCESS

The two claims are located in the west-central part of Deloro Township about one and one-quarter miles west of the north end of McKay Lake. They are accessible from the southern extension of City of Timmins, Pine Street, from a point near the Denilworth Mines cut-off, via an old bush road which is possible by motor vehicles as far as the Delnite Mines waterline; thereafter this bush road can be travelled on foot to the northwest side of claim P. 353648.

TOPOGRAPHY

The surface of the central and southern parts of Deloro Township is rather uniformly flat except for the presence of a few broad low sand ridges. One of these occupies much of the northern part of claim P. 353648, and another covers a small part of the northeast corner of claim P. 353649. The remainder of the property is covered by black muck, swamp and muskeg.

HISTORY OF EXPLORATION

There is no record in the assessment work files of the Ontario Department of Natural Resources concerning past exploration work done on this property, and the writer has no knowledge of the nature and extent of previous prospecting efforts here. During 1973 the writer submitted a report describing an electromagnetic survey of these claims for assessment work credit.

GEOLOGY

The geology of Beloro Township is shown on Ontario Department of Natural Resources Preliminary Map No. P. 342. Airborne magnetic survey coverage of this township is indicated on Geological Survey of Canada Aeromagnetic Series Map 293G, Timmins Sheet. These maps indicate that the property is underlain by mafic to intermediate volcanic flow rocks, which may contain either intercalated banded, siliceous iron formation units, or be intruded by small sills or plugs of ultra-mafic rocks. A small stock of granite lies about one-half mile east of the claims, and a prominent, north-south-trending fault passes some 500 feet west of the west boundary of the property. During line-cutting operations on this ground during October and November, 1973, after leaves had left the trees and shrubs, several small outcrops (moss-covered) were found in the central and south-central parts of claim P. 353-40; cursory examination of these under conditions of light snow cover indicated that several consisted of andesitic flow rocks with intercalated lenses of lean siliceous iron formation.

MAGNETOMETER SURVEY

A grid of cut lines was established on the property to provide control for the survey; the north, south, west and south-east boundaries were cut out, and four north-south interior lines.

spaced roughly 400 feet apart, completed the grid. A total of 12,700 feet of lines were established in this way. Survey stations were set-up on the north-south cut lines at 100 foot intervals. The magnetometer survey was performed in the second half of November, 1973; the instrument operator was H. D. Carlson, 110 Martin Street, Porcupine, Ontario, the writer of this report. The instrument used was a Craelius I image magnetometer which has an overall accuracy of ± 50 gammas on the most sensitive scale range used during the survey. A main magnetic base station with a value of +1,000 gammas was established at station 5+00 south on the west boundary of claim P. 3534b, and subsidiary magnetic base stations were established at regular intervals along the survey control system. In plotting the survey results the usual corrections were made for diurnal variations, etc.

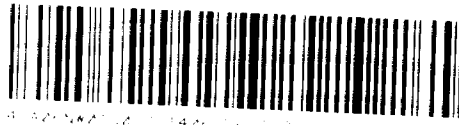
A total of 119 magnetic stations were read during the course of the survey. These ranged in value from a high of +7,500 gammas to a low of -14,500 gammas. The extreme magnetic relief of the property appears to be due to the presence of bands and lenses of lean siliceous magnetite iron formation enclosed in andesitic flow rocks in the central and south-central parts of claim P.3534b.

A more accurate delineation of the size, shape and attitude of these lean iron formation units will depend on geological mapping of the rock outcrop areas after the winter snows have gone, plus additional detailed magnetometer survey work in appropriate areas.

January 17, 1974.

H. D. Carlson
H. D. Carlson, Ph. D., P. Eng.

GE



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TO BE FILLED IN BY THE SURVEYOR
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey Map & Profile

Township or Area D & E Twp. Range 1

Claim holder(s) H.D. & L.H. B.

Author of Report H.D. & L.H. B.

Address H.D. & L.H. B., 1000 Main St., Pitt.

Covering Dates of Survey Sept 1 - 17/1974
(line cutting to office) Jan 15 17/74

Total Miles of Line cut 12.7

MINING CLAIMS TRAVERSED
List numerically

P. 353649
(prefix) (number)

P. 353646

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

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: _____ SIGNATURE: _____
Author of Report or Agent

PROJECTS SECTION

Res. Geol. _____ Qualifications _____

Previous Surveys D, E, F, G, H

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

TOTAL CLAIMS 2

OFFICE USE ONLY

If space insufficient, attach list

TISDALE TWP. M-315

THE TOWNSHIP OF
DELORO

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 20 CHAINS

LEGEND

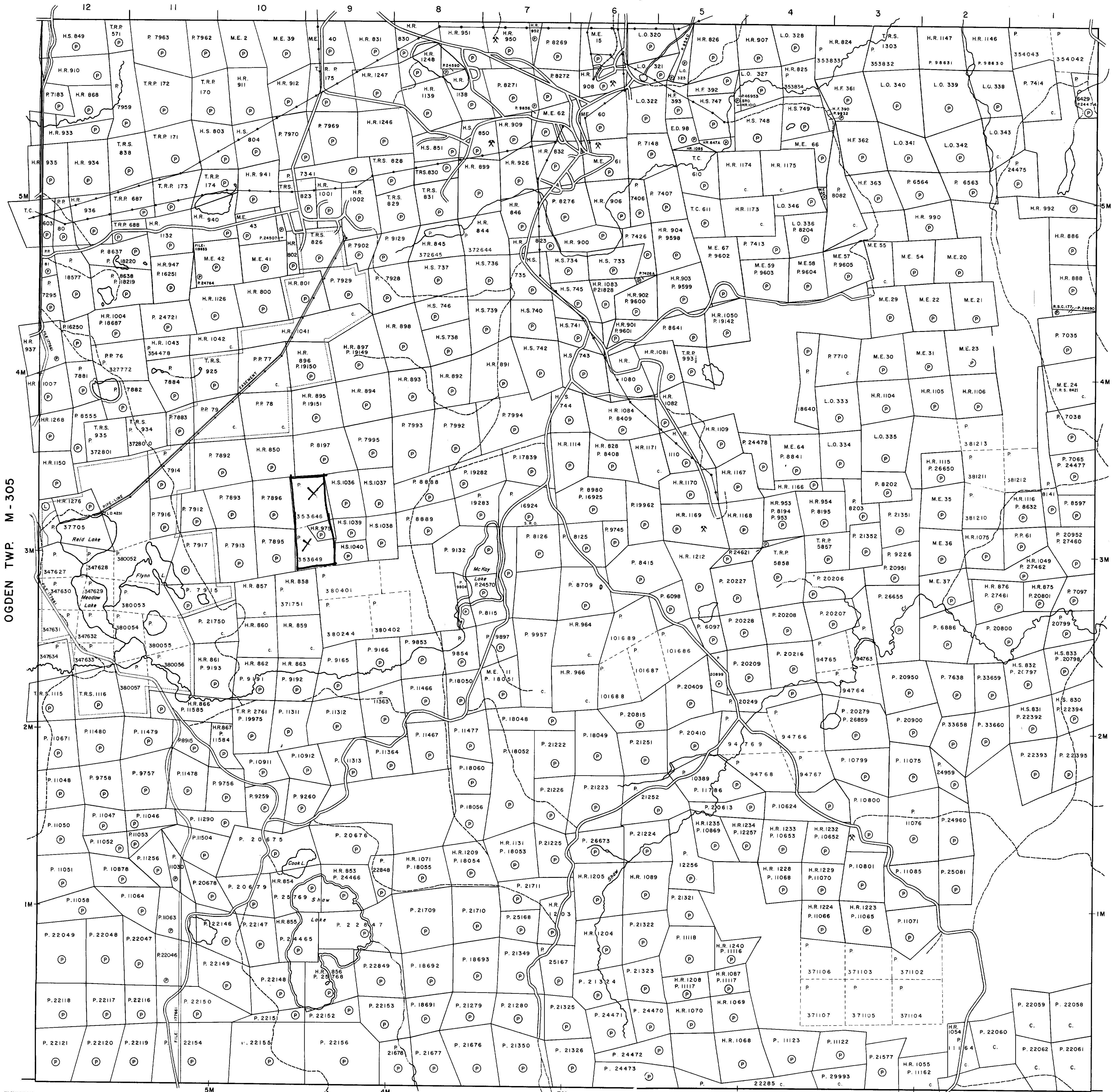
- PATENTED LAND (P)
- CROWN LAND SALE (CS)
- LEASES (L)
- LOCATED LAND (Loc.)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED (C)

NOTES

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

For status of fraction situated between Mg. Claims: H.R.1132; H.R.947 & M.E.42 see File No.119653

Mining claims within the area shown thus are subject to rights & privileges granted under an Easement Order dated May 19, 1937 to Delnite Mines Ltd.



OGDEN TWP. M-305

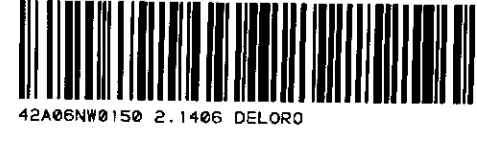
SHAW TWP. M-311

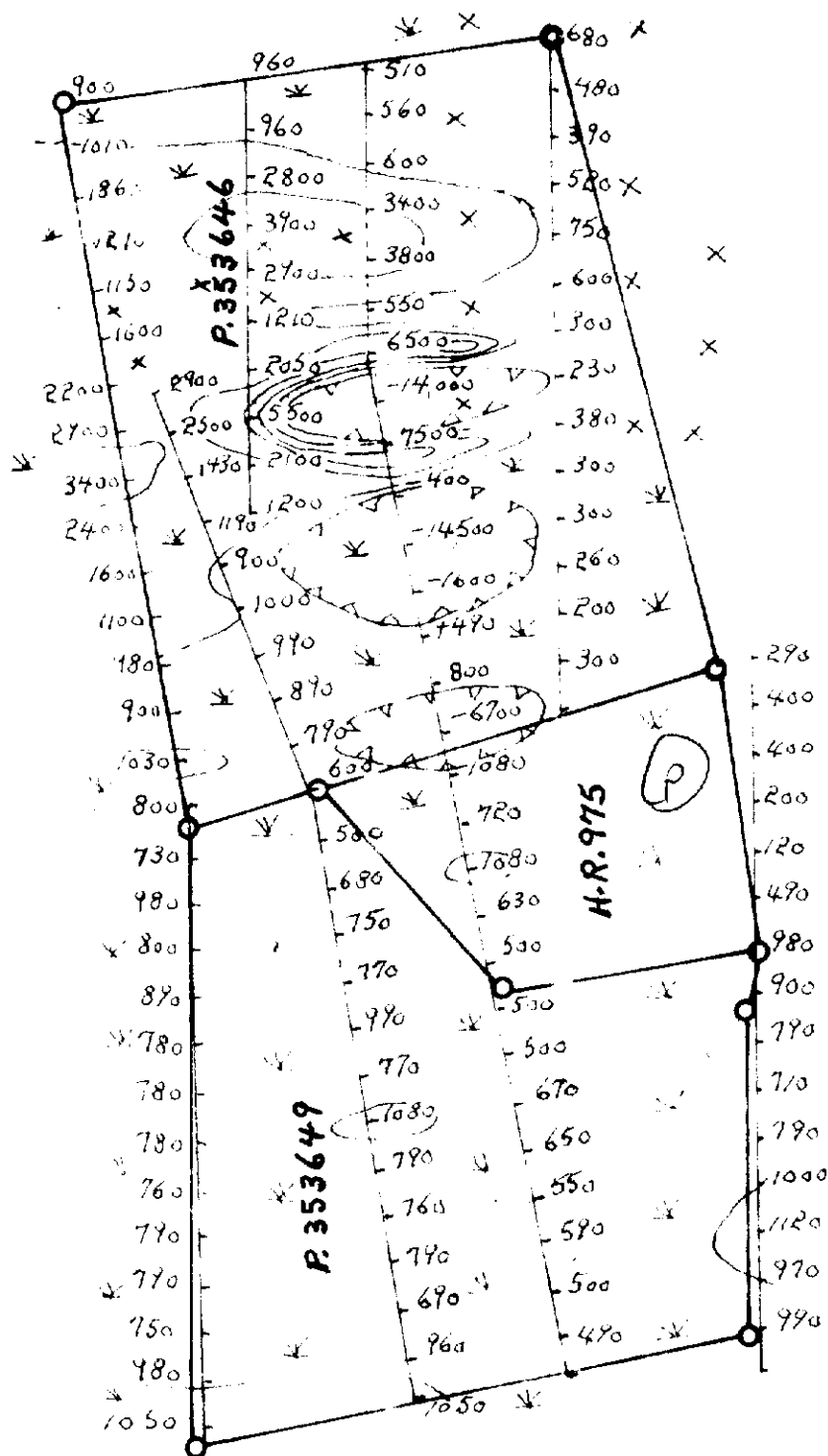
MINING LANDS -
DATE OF ISSUE
FEB 6 1974
MINISTRY
OF NATURAL RESOURCES

File - 2.1406

PLAN No. - M-272

ONTARIO
MINISTRY OF NATURAL RESOURCES





Legend

- x ← sand ridge and plain with pine, poplar, spruce.
- v ← black muck swamp with cedar, alders, balsam, spruce.

Symbols

- claim post and claim line
- traverse line and survey station
- 760
-1450
+300
680
970
2400
- readings in gammas positive unless otherwise indicated.
- contour interval 2000 gammas.

