



52F11NE0251 2.996 BUCHAN BAY (EAGLE LA

010

AUG 22 1972

PROJECTS
SECTION

REPORT OF THE MAGNETIC SURVEY
OHLMAN OPTION
BUCHAN BAY - AREA: EAGLE LAKE, ONT.
by
SELCO MINING CORPORATION LIMITED
EXPLORATION DIVISION

August 1972

INTRODUCTION

A programme of ground magnetic surveying was carried out over the Ohlman Option during the period March 20th, 1972 to April 20th, 1972. The Ohlman Option consists of three groups of claims located in the Buchan Bay - Eagle Lake area in the Kenora Mining Division of north western Ontario. These claims are as follows: Group 1 - 202316 - 202317, 202740 to 202742 and 202744; 274009 to 274013, and 274015.

Group 2 - 41767 to 41769; and 41946 .

Group 3 - 42895

These claims are found on claim map M 1288.

GENERAL

The coverage here involves readings on a contiguous grid of lines. Readings are generally at a fifty foot interval although occasionally at a 100 ft. interval. All data lines are directed east-west at an interval of 400 ft.

The coverage was effected using a Barringer Research GM 102 nuclear precession magnetometer. A regional background of 60,000 gammas has been removed.

DETAIL MAGNETICS

Group 1:

A large broad high is seen to lie north-south on the west-central portion of the grid. Several isolated strong responses are seen across the north and westerly portions of the grid. Elsewhere the magnetic response is subdued.

These formational responses, lying in volcanics are suggested to reflect more basic phases of the volcanics while the broad areas of subdued response reflect volcanics of more intermediate

composition.

The sharp strong highs as well as the long broad high may reflect basic to ultrabasic intrusives of gabbroic to peridotite composition.

Group 2:

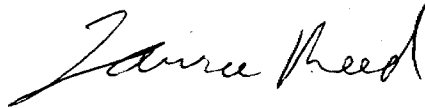
The magnetics of this area are generally subdued except for several isolated strong highs. Volcanics of intermediate composition are presumed to be through this area. Apparently very local concentrations of magnetite are present.

Group 3:

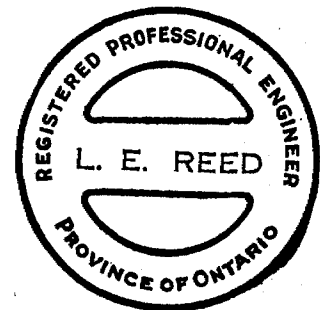
A fairly active magnetic response is seen in this area. The highs here are apparently extensions north-east of responses seen in group 1. Basic intrusives may be present although more basic phases of the volcanics may explain the higher magnetic response.

CONCLUSIONS

In an area of volcanics the magnetics appear to describe various phases of these volcanics with basic intrusives being indicated.



Laurie E. Reed
Chief Geophysicist



LER:bks

GEOPHYSICAL - GEOI
TECHNICAL I



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RECL... 900

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.

AUG 22 1972

PROJECTS
SECTION

Type of Survey Line Cutting & Magnetometer
Township or Area Buchan Bay - Eagle Lake
Claim holder(s) C. Doak
Pine Hollow Service, Vermillion Bay,
Author of Report Laurie E. Reed
Address 6th Floor - 55 Yonge St., Toronto, Ont.
Covering Dates of Survey March 20th, to April 20/72
(linecutting to office)
Total Miles of Line cut 8.9 miles

MINING CLAIMS TRAVERSED
List numerically

(prefix) <u>K</u>	<u>202316</u>	3 (number) covered
	<u>202317</u>	
	<u>202740</u>	
	<u>202741</u>	
	<u>202742</u>	
	<u>202744</u>	
	<u>274009</u>	
	<u>274010</u>	
	<u>274011</u>	
	<u>274012</u>	
	<u>274013</u>	
	<u>274015</u>	

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: Aug. 21/72 SIGNATURE: Laurie Reed
Author of Report

PROJECTS SECTION

Res. Geol. _____ Qualifications L. 62
Previous Surveys LD

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

Area of claims not covered
= $2\frac{1}{2}$

$12 \times 40 = 480 \div (12 + 2)$
= 34.3 days per claim

TOTAL CLAIMS 12

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 806 Number of Readings 806

Station interval _____

Line spacing _____

Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument Barringer GM 102 Nuclear Precession Magnetometer

Accuracy - Scale constant 10 gammas

Diurnal correction method Base Station Return - within two hours

Base station location at Camp (see map)

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 _____

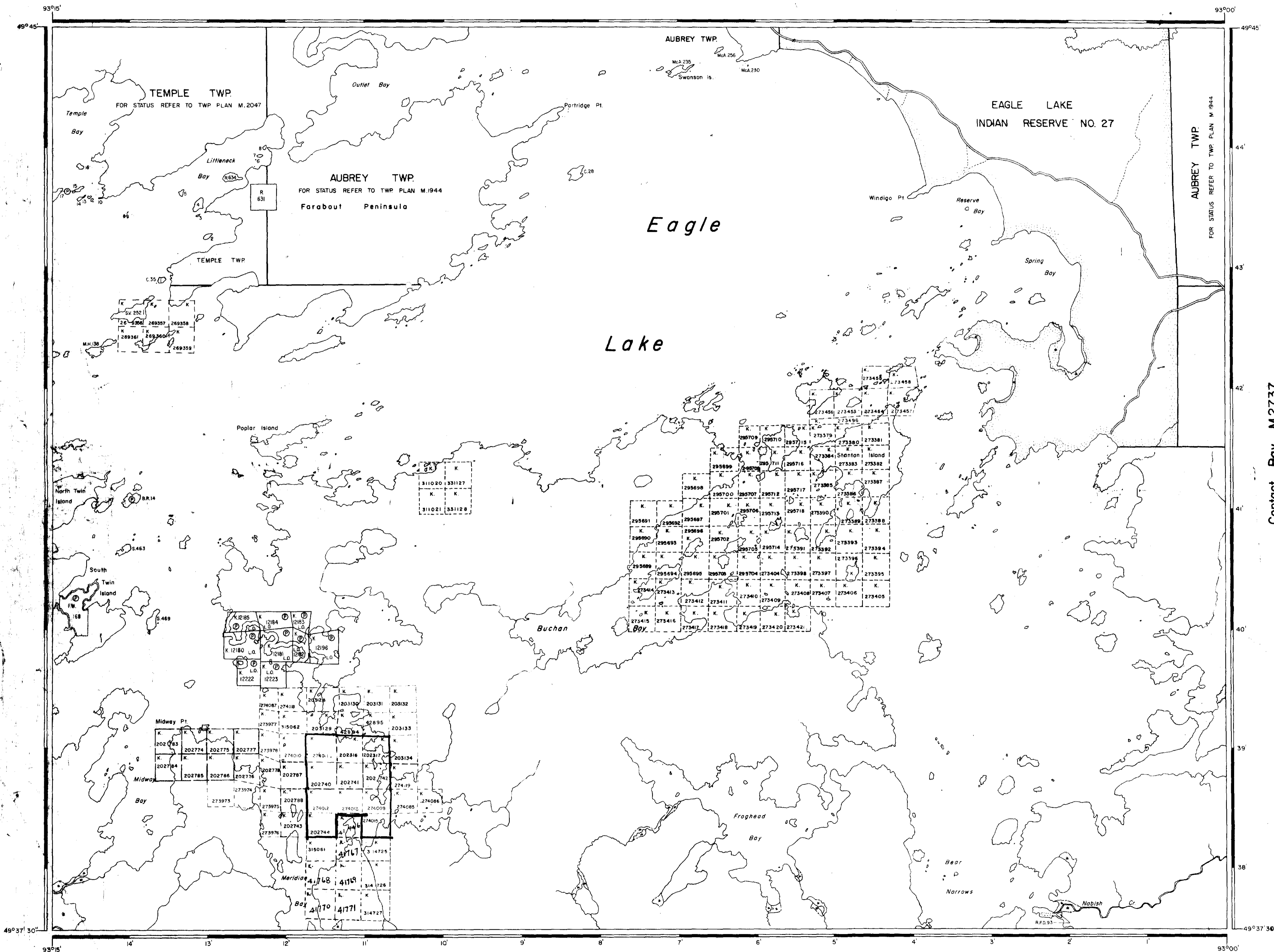
Frequency _____ Range _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____



AREA OF
BUCHANAN BAY
 EAGLE LAKE
claim map.
 DISTRICT OF
 KENORA
 KENORA
 MINING DIVISION
 SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	⊙
CROWN LAND SALE	C.S.
LEASES	⊖
LOCATED LAND	⊕
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.

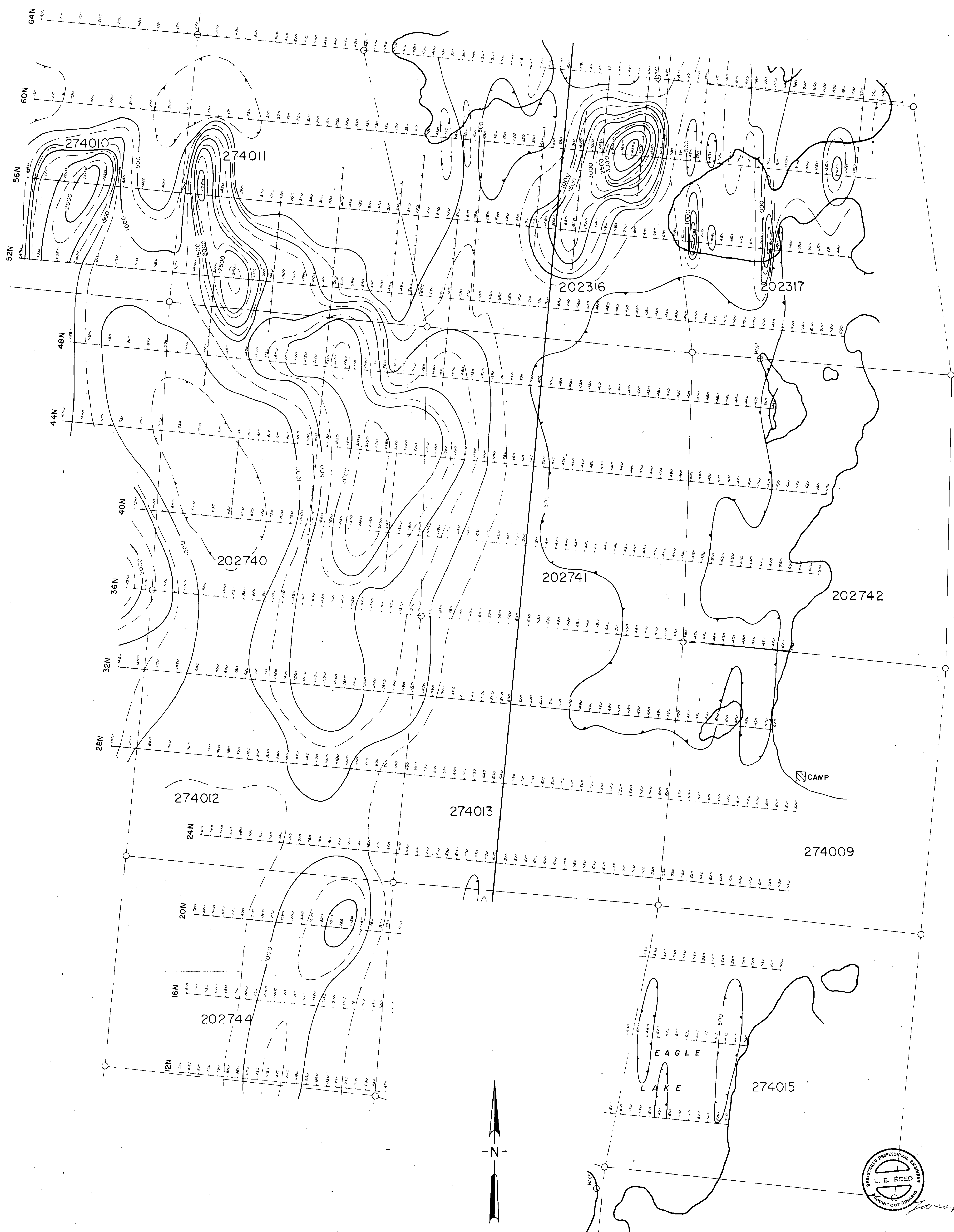
NOTES
 400' surface rights reservation around
 all lakes & rivers.

DATE OF ISSUE
 AUG 25 1972
 ONT. DEPT. OF MINES
 AND NORTHERN AFFAIRS

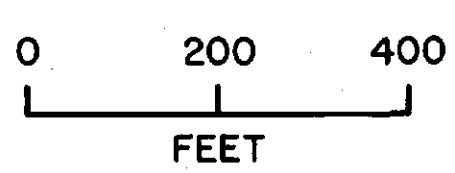
2.996
 NATIONAL TOPOGRAPHIC SERIES 52F11
 PLAN NO. **M.1288**
 ONTARIO
 DEPARTMENT OF MINES
 AND NORTHERN AFFAIRS

Osbourne Bay M.2691





MAGNETOMETER INSTRUMENT
 TYPE: BARRINGER GM-102 (Total Field)
 Readings in Gammas: [300
 Base: 60,000
 Contour Interval: Every 250 gammas to 3000 gammas
 Profile: Every 500 gammas thereafter.



SELCO MINING CORPORATION
 (EXPLORATION DIVISION) LIMITED

OHLMAN OPTION
 VERMILION BAY—ONT.

MAG. SURVEY

DRAWN BY	DATE	PLAN NO
TRACED BY C.C.	DATE MAY '72	SM. 838

