



42A08NW0087 2.1384 HISLOP

YOUNG-MILBURN MINES

MAGNETOMETER SURVEY OF HISLOP TWP. CLAIMS

INTRODUCTION:

The survey described herein was carried out in June and July 1973 to provide a basis on which to interpret a planned geochemical survey and possible future drilling.

AREA COVERED:

The survey covers claims 341394, 341395, 341396 and 341397 which cover the N $\frac{1}{2}$  of Lot 12, Conc. I Hislop Twp.

LINE SYSTEM:

A system of lines at 200-ft. spacings and in a north-south direction was cut and surveyed. Total lines cut equal 7 $\frac{1}{2}$  miles including base line. The base line from Line 0 to Line 14W coincides with the north line of Conc. I, Hislop Twp.

ACCESS:

Access to the property is easily obtained by foot west along the north edge of Conc. I from Hwy. #11, a distance of about 2000 ft., or alternately from the south through the property of Consolidated Golden Arrow Mine.

SURVEY:

A total of 387 stations were read and plotted. Values ranged from a low value of 93 gammas to a high of 6844 gammas.

INTERPRETATION:

Strikes of the magnetic trends exhibited vary from about N60°E in the northerly part of the survey to nearly E-W

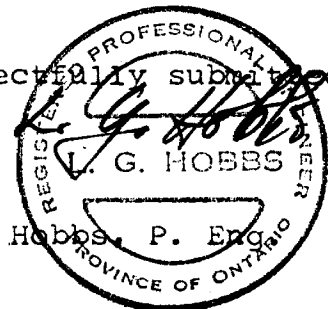
along the south edge. These are believed to reflect the trends of the volcanic series which probably underlies the property. The magnetic high in the north part of claim 341396 has been identified as diorite gabbro on map No. 1955-5 which accompanies report Vol. LXV part 5, 1956 (Geology of Hislop Twp.). A smaller high centered at L 10W, 3S on claim 341394 trends north easterly and may represent another gabbro body trending conformably with the volcanics.

The strongest readings obtained are on the south edge of the claims and may represent either iron formation as intersected in drilling east of the claims (ref. Map P832 Hislop Twp.) or another gabbroic or peridotite body such as outcrops on the magnetic high to the north.

The intervening areas of low magnetic intensity are presumed to reflect underlying relatively non-magnetic volcanics such as andesites or rhyolites.

It should be noted that no magnetic confirmation was obtained for the diabase dike shown on Map 1955-5 to be running southerly through the west half of the property or for any other diabase dikes in the coverage area for that matter.

Respectfully submitted,



L.G. Hobbs, P. Eng.

DEC. 28/73

LGH/ec

- References -
1. ODM annual report Vol. LXV Part 5 1956  
- Geology of Hislop Twp. by V.K. Prest.
  2. Preliminary map P832 - Hislop Twp.
  3. Magnetic Map 8433G Ramore.

GEOPHYSICAL - GEOLOG  
TECHNICAL DATA



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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.

JAN 7 - 1974

PROJECTS  
SECTION

Type of Survey Ground Magnetic

Township or Area Hislop Twp.

Claim holder(s) L. Hobbs.

Author of Report L. G. Hobbs

Address 65 Westwood Lane Thorabull W.

Covering Dates of Survey June 1 - Dec 28, 73  
(linecutting to office)

Total Miles of Line cut 7.19

MINING CLAIMS TRAVERSED  
List numerically

1	34-1399	(number)
1	34-1395	(number)
1	34-1396	(number)
1	34-1397	(number)

*not covered*

SPECIAL PROVISIONS CREDITS REQUESTED	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	- Electromagnetic	<u>40</u>
ENTER 20 days for each additional survey using same grid.	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Dec 28/73 SIGNATURE: L. G. Hobbs.  
Author of Report or Agent

PROJECTS SECTION  
Res. Geol. LD Qualifications 63.1.661  
Previous Surveys Nil

Checked by \_\_\_\_\_ date \_\_\_\_\_

GEOLOGICAL BRANCH \_\_\_\_\_

Approved by \_\_\_\_\_ date \_\_\_\_\_

GEOLOGICAL BRANCH \_\_\_\_\_

Approved by \_\_\_\_\_ date \_\_\_\_\_

TOTAL CLAIMS 4

OFFICE USE ONLY

If space insufficient, attach list

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

### GEOPHYSICAL TECHNICAL DATA

#### GROUND SURVEYS

Number of Stations 387 Number of Readings 387  
Station interval 100' on lines  
Line spacing 200'  
Profile scale or Contour intervals 500 - 1000 gamma's  
(specify for each type of survey)

#### MAGNETIC

Instrument Scintrex MFI Durgate  
Accuracy - Scale constant 10 g / 50 div.  
Diurnal correction method Time - linear  
Base station location Line 0, 04205

#### 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 \_\_\_\_\_

RECEIVED

2.1384

RECEIVED

APR 2 - 1974

APR 2 1974

PROJECTS UNIT

LANDS ADMINISTRATION BRANCH

65 Westwood Lane,  
Thornhill, Ontario.  
L4J 1P6  
March 27, 1974.

Mr. J.R. McGinn,  
Director,  
Lands Administration Branch,  
W 1617, Parliament Buildings,  
Toronto, Ontario. M7A 1X1

Dear Sir:

Re: Your letters to me dated February 18  
and March 19, 1974 re mining claims  
L341394 et al, Hislop Twp., File 2.1384

My apologies for not having answered before. I have only recently returned from the north country and found your letters awaiting me.

To answer to your questions about the survey -

1. The MF-1 magnetometer was operated in the standard way with readings for base line stations being first established and tied to the base station shown on the survey plan. Diurnal corrections were applied. Pairs of lines were then traversed and stations read in a looping pattern with tie-ins being made to the already established base line stations. These readings were also corrected for diurnal variation using time domaine.

Concerning the actual operation of the instrument I do not have available descriptive literature but this must be on file with your department for numerous other surveys on which the MF-1 was employed. The instrument is an early version of the present instrument manufactured by Scintrex Ltd. and is a standard field survey instrument.

2. Re geology of the area -

The scarcity of outcrop in the area of the claims makes inferences about the underlying rock somewhat speculative. However, referring to map P832 Hislop Twp., it appears that the claims are underlain by metavolcanics of varying compositions as is most of the south western quarter of Hislop Twp. Immediately south of the claims a syenite porphyry intrusive occurs on the Golden Arrow property and Map No. 1955-5 (Township of Hislop) shows a diabase dike of Matachewan age traversing the claims in a north-south direction. Faulting observed and inferred in the area appears to strike mainly north easterly and cut all rocks except the diabase.

The data location map accompanying map P832 refers to the following sources of information for the area of the claim group.

- Ref. No. 4 T.W. Birch 1935 assays, trending
- 9 Golden Arrow Mines Ltd. 1934, 1945 diamond drilling

This data was not available for inspection at the assessment work library in Toronto when recently checked.

I hope this supplies the information you requested.

Yours truly,

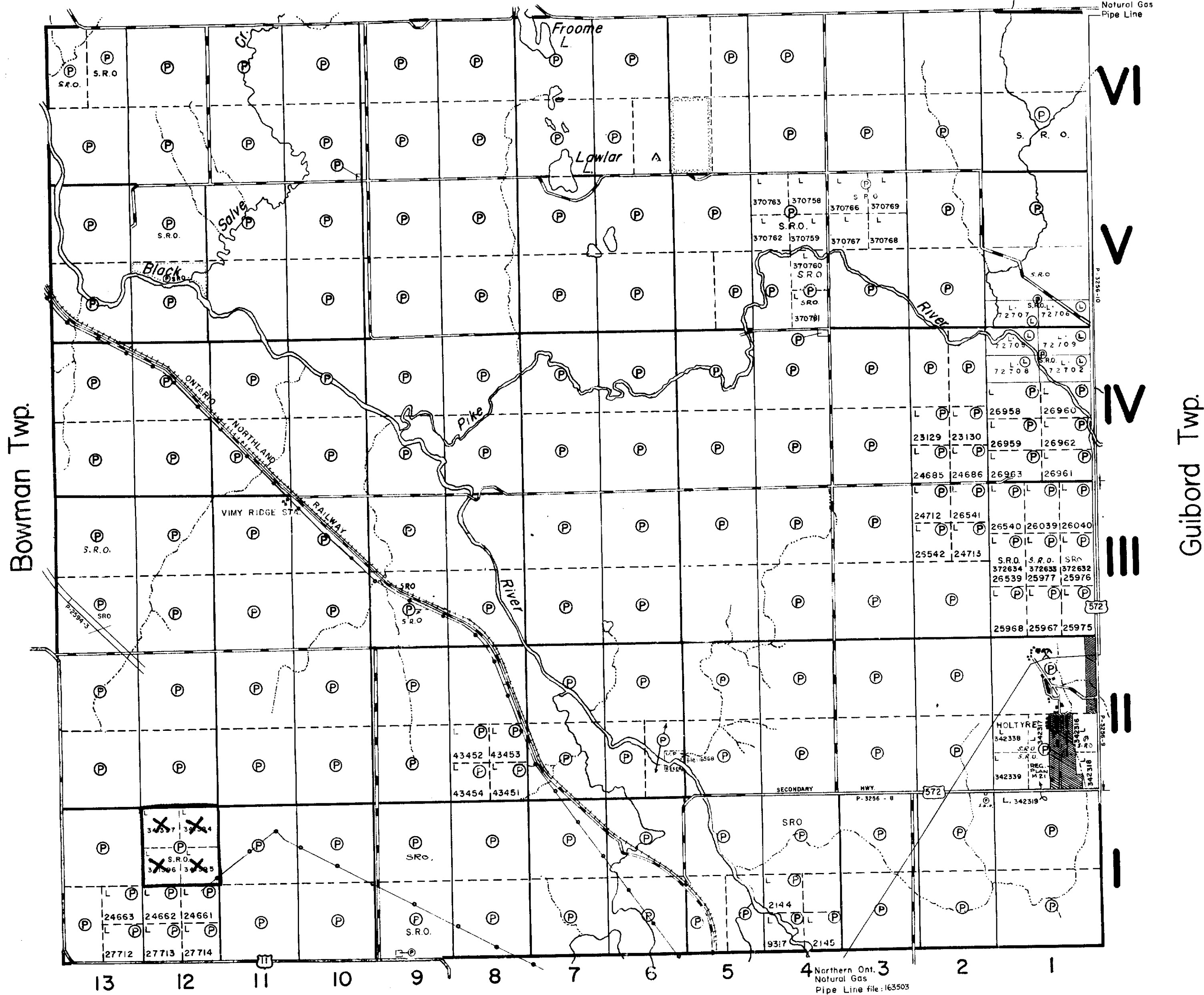


L.G. Hobbs, P. Eng.

LGH/ec

Beatty Twp.

Northern Ontario  
Natural Gas  
Pipe Line



THE TOWNSHIP OF  
OF

**HISLOP**

DISTRICT OF  
COCHRANE

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH= 40 CHAINS

LEGEND

- |                       |               |
|-----------------------|---------------|
| PATENTED LAND         | (P)           |
| CROWN LAND SALE       | (S) or (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                 | (=)           |
| GEODECTIC STATION     | (A)           |

NOTES

- Holtyre Townsite Shown Thus: (shaded box)
- Gravel Reserve Shown Thus: (dotted box)
- 400' Surface rights reservation around all lakes and rivers.

MINING LANDS -  
DATE OF ISSUE  
JAN - 8 1974  
MINISTRY  
OF NATURAL RESOURCES

File - 2.1384

PLAN NO.- M-355

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

Bowman Twp.

Guibord Twp.

Playfair Twp.



42A88NW0087 2.1384 HISLOP

YOUNG DAVIDSON MINES  
MAGNETOMETER SURVEY  
of  
HISLOP TWP. CLAIMS  
Scale 1 in = 100 ft  
Dec. 1973 L.G. Hobbs

Instrument: Scintrex MF1  
Readings in gammas  
— 1000 gamma contours  
— 500 " " "  
□ — Claim line & post

