



320126W9335 2.6368 HARKER

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REPORT ON A
MAGNETOMETER SURVEY
IN
HARKER TOWNSHIP
LARDER LAKE MINING DIVISION

By: Gilles Tousignant, Ing.

qual on this file

March 26, 1984

I. INTRODUCTION

The nine mining claims numbered L598857 to L598859 inclusive, and L598871 to L598873 inclusive, L610804, L610805 and L610953, located in Harker Township, Larder Lake Mining Division, were optioned by Camflo Mines Limited from Johns Manville Co. Ltd.

The center of this claim group is located 32 miles east of Matheson, 1.5 miles south of Highway 101, and 6000 feet west of the Harker - Holloway Township line. It covers part of the former Toronto Harker and Consular Harker properties. It is accessible from the north by a trail leading from Highway 101 to the adjoining Lenora property, or from the west by a bush road that leads to the Harker Gold Mine property, and passes .5 miles west of the west boundary.

II. GEOLOGY

The area is underlain by Keewatin sediments and volcanics, cut by Pre-Algoman basic and ultrabasic intrusives.

The volcanic rocks are basic to intermediate in composition, and are found as massive, fine to coarse grained flows, as pillow lavas, or as pillow or flow breccias with thin bands of associated pyroclastics. The formations are striking from 70° to 90° east, with a steep south dip, and the tops are facing south.

The intrusive rocks are usually diabasic in composition, and are often found as sills; however, the coarse grained center of flows have often been mistaken for diabasic intrusives, both the lavas and the sills being similar in composition. Minor syenitic dikes are also present, but they are usually of limited width and length. One major syenitic dike is interpreted in the central - western part of the Harker Township.

The few outcrops found on the property have been classified as basic to intermediate volcanics, sometimes pillowed, tops facing south, and with a steep south dip. Two strike faults, the Imperial fault to the north and the Ghostmount fault to the south have been inferred by the previous workers.

The major Porcupine - Destor fault lies one mile north of the property.

III. MAGNETOMETER SURVEY

17.7 miles of lines were cut and chained on the property, and a detailed ground magnetometer survey was completed, with readings taken at 25 meter intervals, and at 12.5 meters where anomalous, along lines 50 meters apart.

The instrument used was a scintrex M.P.-2 proton magnetometer, in conjunction with a compatible base station. Combined operator, instrument and recorder errors give a reliability of ± 10 gammas on individual readings.

The contoured residual values (total field minus 58,000 gammas) are shown on the accompanying map.

The major feature in the area, as shown by the survey, is the strong magnetic axis outlined in the south part of the property. This axis is oriented N.70°E., parallel to the interpreted and mapped lava flows, and is thought to reflect the presence of magnetic flows.

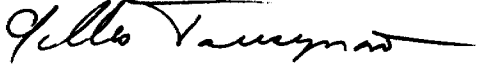
The strike of this strong axis is the same as the weaker axes to the north, which are due to less magnetic andesitic or basaltic flows, with the weaker zones possibly showing interbedded sediments or tuffs.

From the continuity of the magnetic axis, we assume that there are no major structures cross-cutting the property. The weakening of certain strong

axes as we go from west to east is coincidental with the outcropping area, and is probably due to the deepening of the overburden.

IV. CONCLUSION

The magnetic survey on this property confirms the general trend of the geological formation in this area, as outlined by Satterly in his report, and shows the presence of magnetic flows to the south.

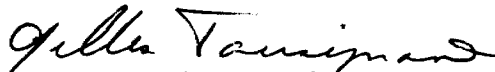

Gilles Tousignant, Ing.

CERTIFICATE OF QUALIFICATION

I, GILLES TOUSIGNANT, of 245 rue Canadienne, Val d'Or, Quebec, do hereby certify that:

- 1.- I am a graduate of l'Ecole Polytechnique de Montreal, having received the degree of Bachelor in Applied Science, major in geology, in 1973.
- 2.- I have, since graduation, practised in the fields of mineral exploration, development and mining.
- 3.- I am a member of 'L'Ordre des ingénieurs du Québec'.
- 4.- I am employed by Camflo Mines Limited, and I have a personal knowledge of the work performed and described in this report.

Dated this 26th day of March 1984.


Gilles Tousignant, ing.



(File # 598857)

The Mining Act

... the Expend. Days Cr. columns.
 - Do not use shaded areas below.

Type of Survey(s) Magnetometer, VLF-EM		Township or Area Harker	
Claim Holder(s) Camflo Mines Limited		Prospector's Licence No. T 834	
Address Suite 3001, Royal Bank Plaza, South Tower, P.O. Box 45, Toronto, Ontario, M5J 2J1			
Survey Company Camflo Mines Limited		Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 01 08 83 31 08 83	Total Miles of line Cut 15.7
Name and Address of Author (of Geo-Technical report) Gilles Tousignant, 245 La Canadienne, Val D'Or, Quebec, J9P 5T3			

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	20
	- Radiometric	
	- Other	
	Geological	
For each additional survey: using the same grid: Enter 20 days (for each)	Geochemical	
	Geological	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
Airborne Credits	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	598857				
	598858				
	598859				
	598871				
	598872				
	598873				
	610804				
	610805				
	610953				

RECEIVED
 FEB 10 1984
 MINING LANDS SECTION

LARDER LAKE
 MINING DIV.
 RECEIVED
 FEB 2 1984
 AM PM
 7 8 9 10 11 12 1 2 3 4 5 6

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Total number of mining claims covered by this report of work. **9**

Instructions
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
180	FEB 2 1984	<i>[Signature]</i>
	Date Approved as Recorded	Regional Director
	<i>[Signature]</i>	<i>[Signature]</i>

Date
 February 1, 1984

Recorded Holder or Agent (Signature)
[Signature]

Certification Verifying Report of Work
 I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
GILLES TOUSIGNANT

Date Certified
 February 1, 1984

Certified by (Signature)
[Signature]

Mining Lands Comments

No Qualifications

To: Geophysics *Mr. Barlow.*

Comments

Approved Wish to see again with corrections

Date *April 18/89* Signature *R. Barlow*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections

Date Signature

To: Geochemistry

Comments

[Signature]

Approved Wish to see again with corrections

Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

March 6, 1984.

Your File: #40
Our File: 2,6368

Camflo Mines Limited
Suite 3001
Royal Bank Plaza
South Tower
P.O. Box 45
Toronto, Ontario
M5J 2J1

Dear Sirs:

RE: Geophysical (Magnetometer) survey submitted on mining claims
L 598857 to 59 incl, 598871 to 73 incl, 610804-05 and
610953 in the Township of Harker.

We have received maps for the above-mentioned survey. Please note that you must provide to this office a written report to accompany these maps by April 2, 1984. If you fail to do so the Mining Recorder will be directed to delete the 20 days Magnetometer assessment credits recorded on February 2, 1984.

For further information, please contact Mr. F.W. Matthews at (416) 965-1380

Yours very truly,

J.R. Morton
Acting Director
Land Management Branch

Whitney Block
Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr:dg

cc: Mining Recorder
Kirkland Lake
cc: Gilles Tousignant

cc: Gilles Tousignant
245 La Canadienne
Val'D'or, Quebec
J9P 5T3



LES MINES CAMFLO LIMITÉE

DIVISION EXPLORATION MINIÈRE

615, Avenue Centrale, Val d'Or, Qué. - J9P 1P9

TÉLÉPHONE
RÉGION 819-825-~~622~~ 5122

March 26, 1984

Ministry of Natural Resources
Whitney Block
Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

Attention: Mr. J.R. Morton
Acting Director
Land Management Branch

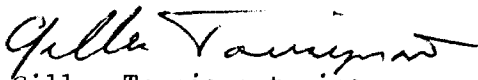
RE: Our file # 40
Your file # 2.6368

Dear Sir,

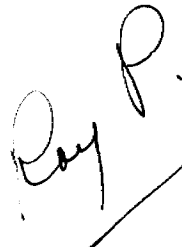
Included is a geophysical report to accompany the maps submitted on February 2, 1984, concerning a magnetometer survey conducted on claims L598857 to 59 inclusive, 598871 to 73 inclusive, 610804-05, and 610953 in the Township of Harker.

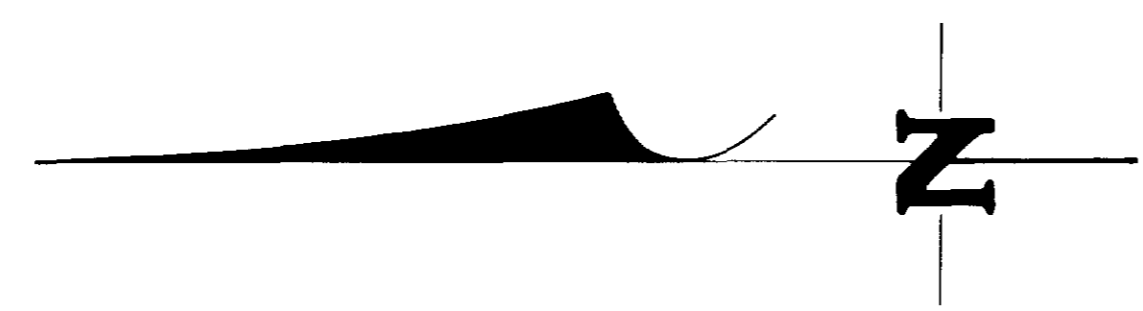
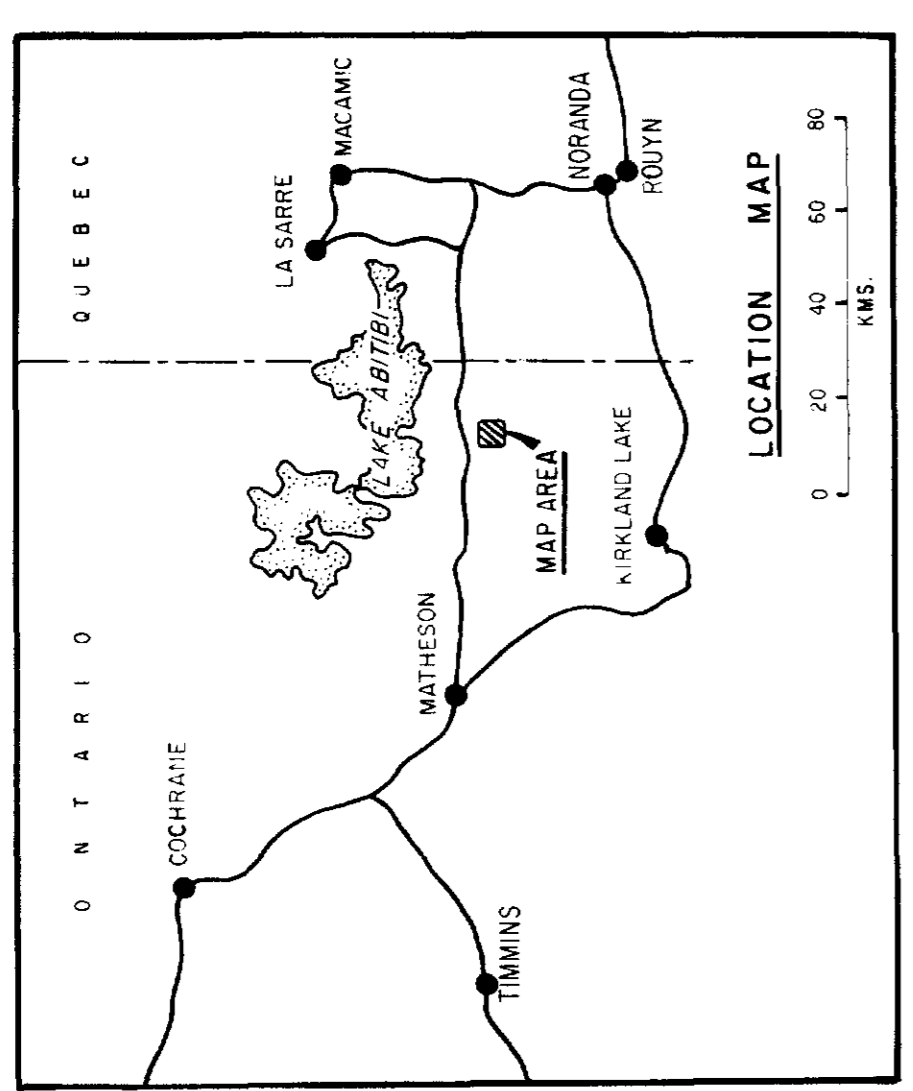
Hoping that this report will be to your satisfaction, I remain,

Yours truly,

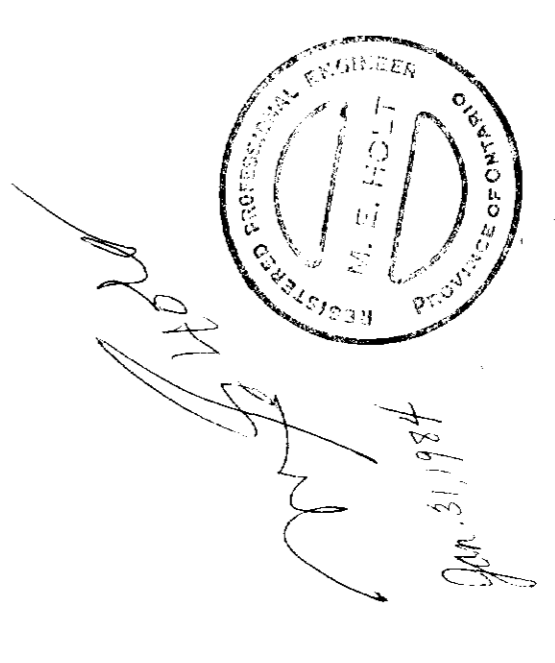

Gilles Tousignant, ing.
Project Manager

GT/lr

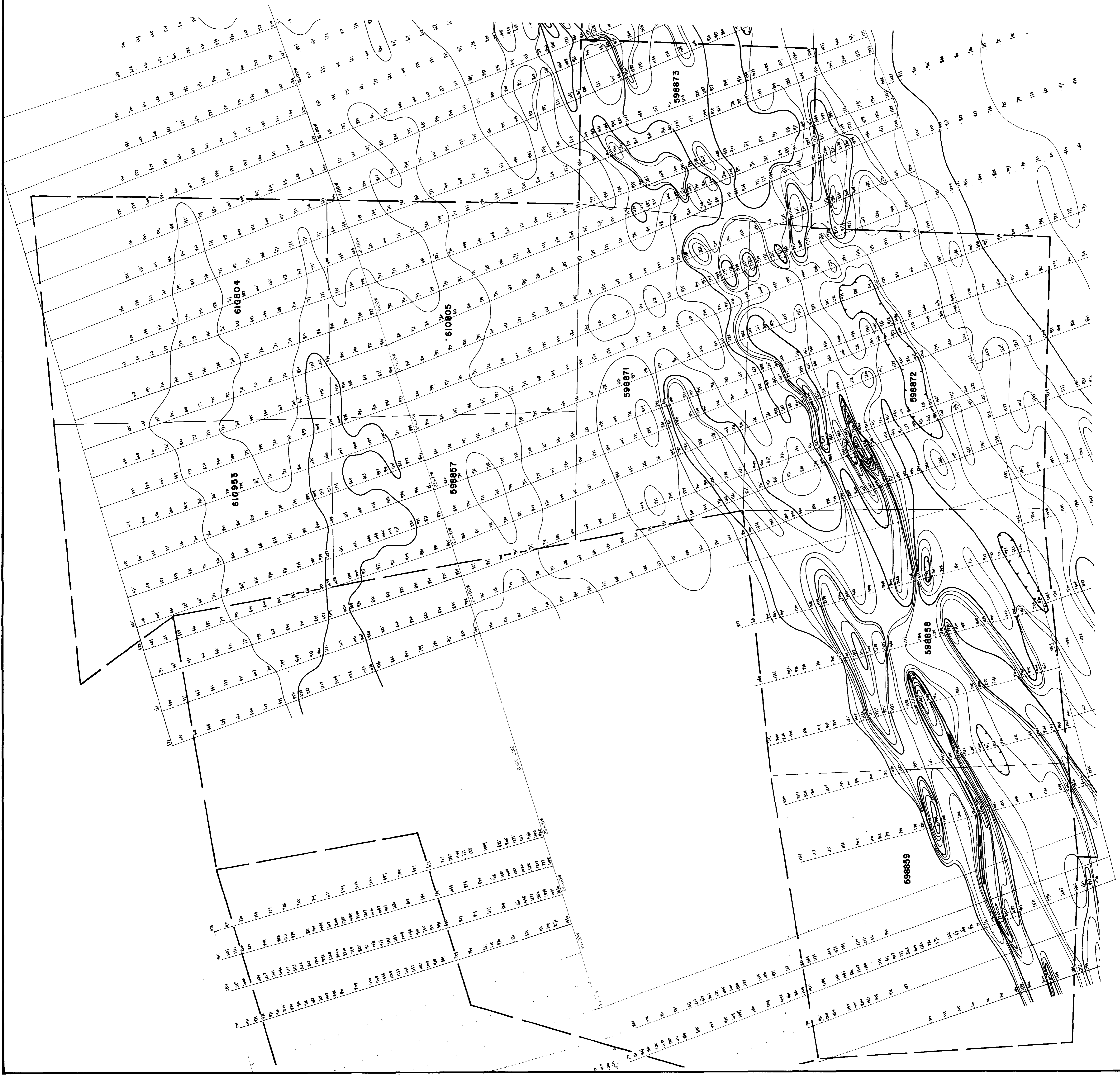

RECEIVED
MAR 29 1984
MINING LANDS SECTION



Lines cut and claimed
 Magnetometer readings, total field minus 58,000 gammas



JOHNS-MANVILLE OPTION
CAMFLO MINES LTD.
 McDERMOTT PROJECT
 HARKER TWP. ONTARIO
MAGNETOMETER SURVEY
 Scale 1:2500
 DATE: JAN. 84 DRAWN BY: R.J.H. NIS NO. 32.0/2 PROJ. NO. P-135



26368

