



42A13SE0017 2.2503 GEARY

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Young Davidson Mines
Magnetometer Survey of Nine Claims
Geary Twp., Ontario

By

L.G. Hobbs, P.Eng.

October 4, 1977

Toronto, Ont.

Young Davidson Mines
Magnetometer Survey of Nine Claims
Geary Twp., Ontario

Property Location and Access:

The survey covered in this report describes work done on nine (9) claims numbered P 476768 - 776 located in the south-east quarter of Geary Twp., Ontario.

Access is via helicopter from the city of Timmins, a distance of 25 miles south easterly from the claims.

Ownership of Claims:

The claims are held by Young Davidson Mines of 303, 330 Bay Street, Toronto, Ontario.

Supervision:

The work was done under the supervision of the company's geologist L.G. Hobbs, P.Eng., who also prepared this report and accompanying map.

Geology:

No outcrop is known to occur on the claims. Recent diamond drilling has indicated up to 135 feet of sand and gravel overburden. Map P739, Geary Township, published by the Ontario Department of Mines and Northern Affairs, suggests the group to be underlain by mafic to felsic metavolcanics and diabase dikes.

Previous Work:

The Consolidated Mining and Smelting Co. (Canada) has previously worked in the area of the claims. Magnetometer, EM and Turam surveys were done in 1964 and 1965, and some drilling was done in 1965. The results of this work are on file at the O.D.N.R. offices, Queens Park, Toronto. More recently, a Crone CEM Survey was done over the group by Young Davidson.

Magnetometer Survey:

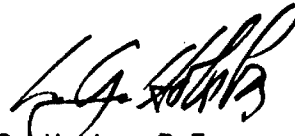
The survey covered in this report is an extension of work done on the eight claims adjoining to the east and also belonging to Young Davidson. Most of the readings were taken with a Conimag magnetometer, a vertical field instrument with accuracy of ± 15 gammas, but line 30 W south of the base line and lines 33 W, 36 W and 39 W were read using a Geometrics ~~8~~816 total field magnetometer with a one gamma repeatability. Base levels were corrected for compatibility and diurnal corrections were applied on a time linear basis.

The survey was done on a set of north south picket lines at 300 ft. spacing and one hundred foot intervals were read. In this way 643 readings were taken and are plotted and contoured on the accompanying map. The work was completed in early August 1977.

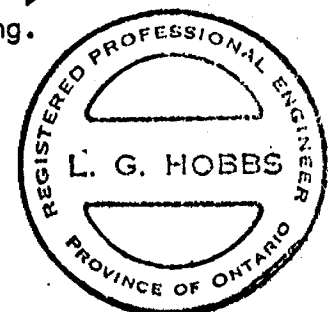
Results and Interpretation:

Background levels of 400 - 600 gammas appear in the north central and south central areas of the survey separated by a more highly magnetic zone (or zones) which enters the survey area near the north west corner and strikes slightly south of each st across the claims to about L 12E, 12S. The pattern possibly reflects an underlying series of volcanic rocks with low magnetic susceptibility cut by a zone of iron formation or possibly gabbro or peridotite. Superimposed on this pattern are the more magnetic north-south trends observable on the north part of line 39 W and on line 36 W south of the base line; on line 27 W; and on line 12 W and 9 W north of the base line. These are interpreted as diabase dikes as were the similar patterns observable on the east half of the map area reported on previously. The area of magnetic lows centered at L 6 W, 9 S and 13 S appears to represent an intrusive diorite body as indicated by recent drilling.

Respectfully submitted,



L.G. Hobbs, P.Eng.





Ministry of Nature

GEOPHYSICAL - GEOLOGIC
TECHNICAL DATA



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900

PROJECTS UNIT

OCT 11 1977

LANDS ADMINISTRATION
BRANCH

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.

RECEIVED
OCT 11 1977

MINING LANDS SECTION

Type of Survey(s) Magnetometer Geophysical
Township or Area Geary Twp.
Claim Holder(s) Walter Foster.

Survey Company Young Davidson Mines
Author of Report L.G. Hobbs P. Eng.
Address of Author 65 Westwood Ln. Thorahill
Covering Dates of Survey Aug 30, 76 Aug 4, 1977
(linecutting to office)
Total Miles of Line Cut 12 3/4

MINING CLAIMS TRAVERSED
List numerically

- P 476768 ✓
(prefix) (number)
- P 476769 ✓
- P 476770 ✓
- P 476771 ✓
- P 476772 ✓
- P 476773 ✓
- P 476774 ✓
- P 476775 ✓
- P 476776 ✓

If space insufficient, attach list

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

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

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

DATE: Oct 7/77 SIGNATURE: L.G. Hobbs
Author of Report or Agent

Res. Geol. _____ Qualifications 63.1661

File No.	Type	Date	Claim Holder

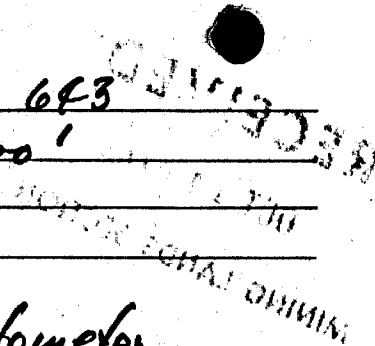
TOTAL CLAIMS 9

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 643 Number of Readings 643
Station interval 100' Line spacing 300'
Profile scale _____
Contour interval 200 gmmms



MAGNETIC

Instrument Conimag + G 816 Magnetometer
Accuracy - Scale constant Conimag ± 158 ; G 816 ± 18
Diurnal correction method Time Linear
Base Station check-in interval (hours) 1 1/2 ±
Base Station location and value Base line, line 0
Value 500 8

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

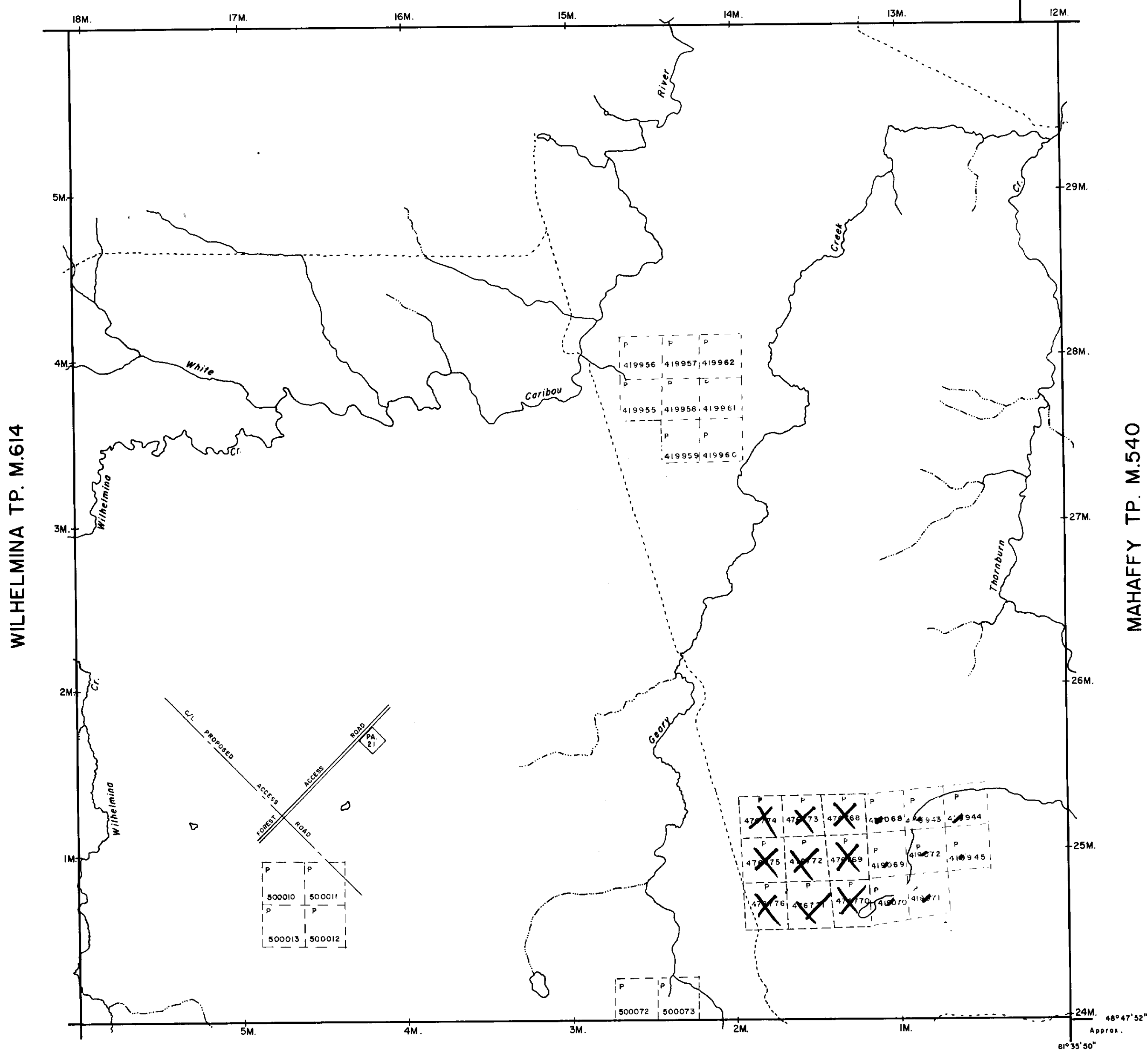
Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

DATE OF ISSUE
OCT 13 1977
 SURVEYS AND MAPPING
 BRANCH

KINGSMILL TP. M.521



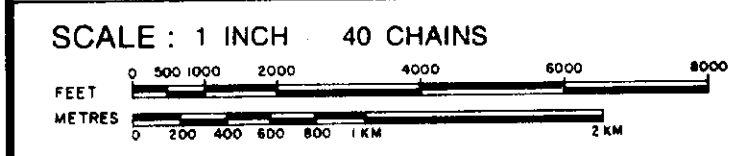
THORBURN TP. M.601

LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES:	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES:	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS SUBDIVISION	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
CROWN LAND SALE	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	



ACRES	HECTARES
40	16

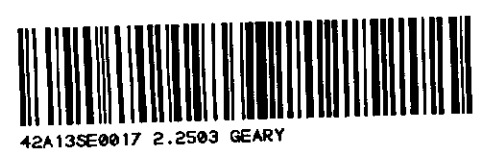
TOWNSHIP 2.2503

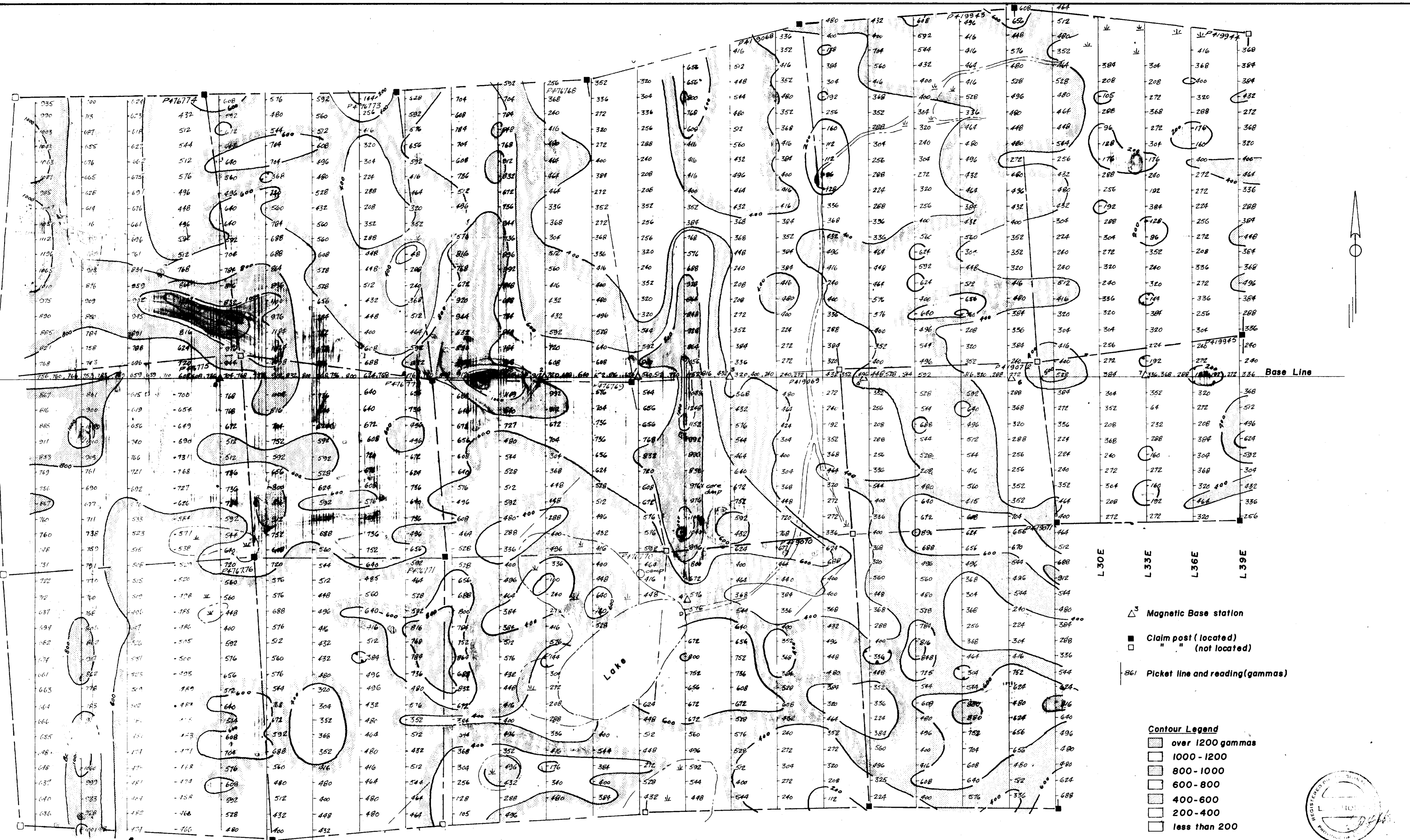
GEARY

DISTRICT COCHRANE
 MINING DIVISION PORCUPINE

Ministry of Natural Resources
 Ontario Surveys and Mapping Branch

Date MAY 15, 1973 Plan No. M.482
 Whitney Block Queen's Park, Toronto





L 39W L 36W L 33W L 30W L 27W L 24W L 21W L 18W L 15W L 12W L 9W L 6W L 3W L 0 L 3E L 6E L 9E L 12E L 15E L 18E L 21E L 24E L 27E

- △^s Magnetic Base station
- Claim post (located)
- " " (not located)
- 861 Picket line and reading (gammas)

- Contour Legend**
- over 1200 gammas
 - 1000 - 1200
 - 800 - 1000
 - 600 - 800
 - 400 - 600
 - 200 - 400
 - less than 200



2.2503

REVISIONS			YOUNG DAVIDSON MINES	
NO.	DATE	BY	CONIMAG SURVEY	
1	0CF77	LGH	Geary Twp	
2			Drawn by	LGH Scale 1" = 300' Material
3			Chk'd.	Date Nov. 1976 Drawing No.
4			Traced	App'd.
5				

