



42A13SE0020 2.2380 GEARY

Young Davi
Crone CEM Survey of Young Davidson Claims
Geary Twp., Ontario

Property Location and Access:

The survey herein described covers 14 contiguous claims numbered P419068 - 419072, P419943 - 419945 and P476768 - 476773 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. Diamond drilling in the claim area has encountered between 105 ft. and 120 ft. of overburden consisting of sand and boulders. 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 & 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. Young Davidson has also done a magnetometer survey over the claims, part of which has been submitted to the O.D.N.R.

Crone CEM Survey

The survey was done over the same picket line system used for the company's magnetometer survey, a series of north-south lines at 300 ft.

MAY 11, 1977

TORONTO, ONTARIO

GRAND A TOY
PAPER

spacings. The vertical shootback configuration at 300 ft. coil separation was used mainly, with the horizontal shootback configuration being used where overburden conditions permitted. Readings were taken at 100 ft. intervals on the lines. Both medium frequency (1830 Hz) and low frequency (390 Hz) were used, the latter being employed over the higher ground where overburden effects were negligible. A total of 972 readings were obtained and are shown on the accompanying map.

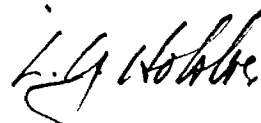
Results and Interpretation:

As shown on the accompanying map numerous conductors were detected within the survey area, many of them showing considerable length. From the known magnetic pattern (see Conimag Magnetometer Survey, by Young Davidson) the conductors lie in areas of relatively low magnetic readings between the interpreted diabase dikes, areas which are probably underlain by volcanic rocks with interbedded sediments. The strike pattern in the northern claims (P476768 eastward to P419944) is east-north-easterly, while that in the area to the south around the small lake is in more of an east-south-easterly direction. These trends probably reflect the strikes of the underlying rocks. The two areas are separated by a magnetically high area which extends from the west claim boundary to the creek just north of the lake, and which may represent a gabbro or other basic rock. Drill core found a short distance north-east of the camp site shows the presence of graphite and it is probable that this offers an explanation of the cause of conductors outlined. It is also known that iron formations occur in the general area of the claims and this offers an alternate explanation. Whether either of these possible causes are associated with valuable sulphide mineralization has not yet been determined. It is recommended that geochemical testing of the anomalous areas be carried out, with subsequent drill testing to follow if a programme appears warranted.

Three conductors, labelled A, B, and C, are shown on the map. These are the conductors with the strongest response and have the following characteristics: length of at least 1,000 ft.; dip vertical or steep; fair width; moderate to good conductivity; depth to top 50 to 75 ft.

All three are suspected as being due to graphite. It should be recognised that these three do not necessarily represent the best possibilities for base metal mineralization.

Respectfully submitted

A handwritten signature in cursive script that reads 'L.G. Hobbs'.

L.G. Hobbs, P.Eng.



42A13SE0020 2.2380 GEARY

Dalhousie C

020

Crone CEM Survey of Dalhousie Oil Corporation Claims
Geary Twp., Ontario

Property Location and Access:

The survey covered eight claims numbered P419955 - 962 located in central Geary Twp., Ontario, which lies about 25 miles north westerly of the city of Timmins, Ontario.

Ownership of Claims:

The claims are held by Dalhousie Oil Corporation of 303, 330 Bay Street, Toronto.

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 occurs on the claims and no drilling has apparently been reported, although some small diameter core pieces were found on the road which crosses the claims. Overburden is estimated to be at least 100 ft. in depth. An airborne magnetometer survey shows a magnetic high trending north-south and crossing the claims. Map P739, published by the Ontario Department of Mines and Northern Affairs, interprets the ground to be underlain by felsic to mafic metavolcanics, an east-west trending ultramafic body and a north-south diabase dike. All the above is apparently interpreted from airborne magnetics.

Previous Work:

The only previous work known to have been done on the group consists of an airborne magnetometer and electromagnetic survey done by Silver Men Mines Ltd., in 1965.

More recently Dalhousie has completed and submitted as assessment work a magnetometer survey over the claim group.

MAY 11TH, 1977

TORONTO, ONTARIO

Crone CEM Survey:

The survey was done on a line system of north-south lines cut at 300 ft. intervals, totalling approximately 10.5 miles including base line.

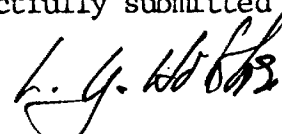
A Crone CEM electromagnetic instrument was used for the survey, the readings being in the vertical shootback configuration using low frequency (390 Hz) at a separation of 300 ft. In this way 518 readings were taken over the eight claim group in September 1976.

Results and Interpretation:

The accompanying map shows the survey results. No conductors with continuity between survey lines were detected. Individual irregularities, such as are shown at 3E 9+50 N; 6E 4+50 N; 15E 25+50 N; etc., may be due to operators error. Their lack of cross line continuity suggests they are not due to bedrock conductors. It is possible that overburden depths in the area are too great to permit conductor detection with the 300 ft. spread used in this survey.

No further work is presently recommended.

Respectfully submitted



L.G. Hobbs, P.Eng.



Ministry of Natural

GEOPHYSICAL - GEOLOGICAL
TECHNICAL DATA STATEMENT



42A135E0020 2.2380 GEARY

900

by hand

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.

Type of Survey(s) Time Electromagnetic
Township or Area Geary
Claim Holder(s) Young Davidson Miner
303 330 Bay St. Toronto.
Survey Company Young Davidson
Author of Report L.G. Hobbs P. Eng.
Address of Author 65 Westwood Ln Thornhill Ont.
Covering Dates of Survey July 1/76 - Mar 30/77
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

- P 41906.8 (prefix) (number)
- P 41906.9
- P 4190.70
- P 4190.71
- P 4190.72
- P 4190.73
- P 4190.74
- P 4190.75
- P 47676.8
- P 47676.9
- P 47677.0
- P 47677.1
- P 47677.2
- P 47677.3

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 20
 - Magnetometer _____
 - Radiometric _____
 - Other _____
- Geological _____
- Geochemical _____

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

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

DATE: May 16/77 SIGNATURE: L.G. Hobbs
Author of Report or Agent

Res. Geol. _____ Qualifications 63.1661

Previous Surveys

File No. Type Date Claim Holder

File No.	Type	Date	Claim Holder

RECEIVED

MAY 16 1977

PROJECTS UNIT

TOTAL CLAIMS 14

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 972 Number of Readings 972
Station interval 100' Line spacing 300'
Profile scale Med freq: 1 in = 20 sq. div.; low freq: 1 in = 10 sq. div.
Contour interval

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument Crane CEM.
Coil configuration Shoot back
Coil separation 300 ft.
Accuracy +/- 2 degrees tilt
Method: [] Fixed transmitter [x] Shoot back [] In line [] Parallel line
Frequency 1830 Hz & 390 Hz. (specify V.L.F. station)
Parameters measured Tilt angles

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



Ministry of Natural Resources

File 2.2380

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

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.

by hand

Type of Survey(s) Cross CEM Electromag.
Township or Area Geny
Claim Holder(s) Dalhousie O.I. Corp.
303 330 Bay St Toronto
Survey Company Dalhousie
Author of Report L.G. Hobbs P Eng.
Address of Author 65 Westwood Ln. Thornhill
Covering Dates of Survey Sept 26 - May 77
(linecutting to office)
Total Miles of Line Cut 10.5

MINING CLAIMS TRAVERSED
List numerically

- P 4199 55 (prefix) (number)
- P 4199 56
- P 4199 57
- P 4199 58
- P 4199 59
- P 4199 60
- P 4199 61
- P 4199 62

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 20
 - Magnetometer on
 - Radiometric _____
 - Other _____
- Geological _____
- Geochemical _____

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

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

DATE: May 14 77 SIGNATURE: L.G. Hobbs
Author of Report or Agent

Res. Geol. _____ Qualifications 63.1661

Previous Surveys

File No.	Type	Date	Claim Holder

RECEIVED

MAY 16 1977

PROJECTS UNIT

PROJECTS UNIT

MAY 15 1977

RECEIVED

TOTAL CLAIMS 8

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 578 Number of Readings 578
Station interval 100' Line spacing 300'
Profile scale 1 in = 2050 div.
Contour interval —

MAGNETIC

Instrument _____
Accuracy — Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument Crone CEM.
Coil configuration Shoot back
Coil separation 300'
Accuracy ± 2° tilt
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 390 Hz. (specify V.L.F. station)
Parameters measured Tilt angle.

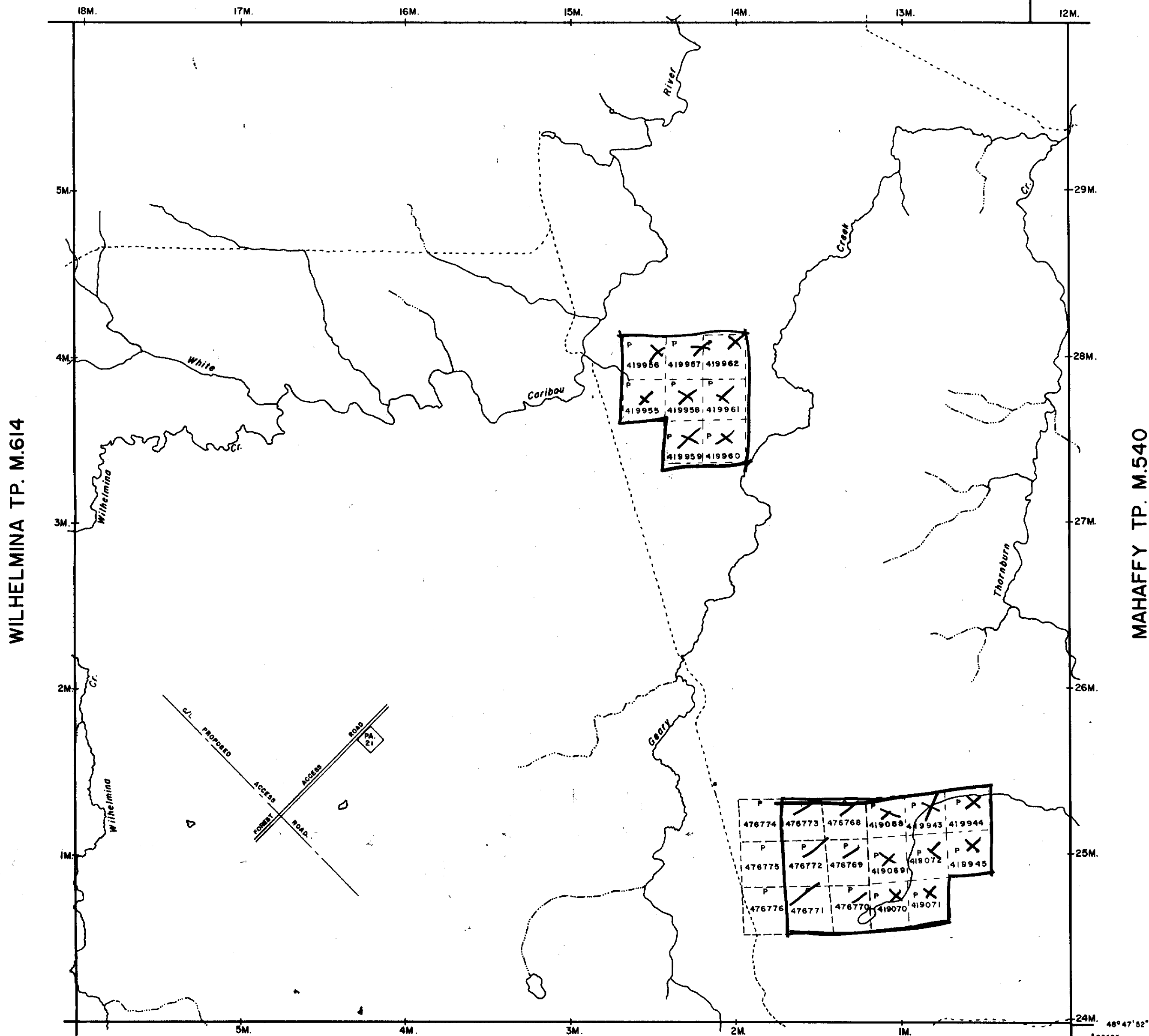
GRAVITY

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 _____

KINGSMILL TP. M.52I



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	

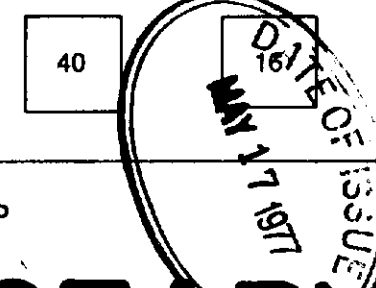
DISPOSITION OF CROWN LANDS

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	

SCALE : 1 INCH = 40 CHAINS



ACRES HECTARES



TOWNSHIP

GEARY

DISTRICT

2.2380

COCHRANE

MINING DIVISION

PORCUPINE



Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date MAY 15, 1973

Plan No.

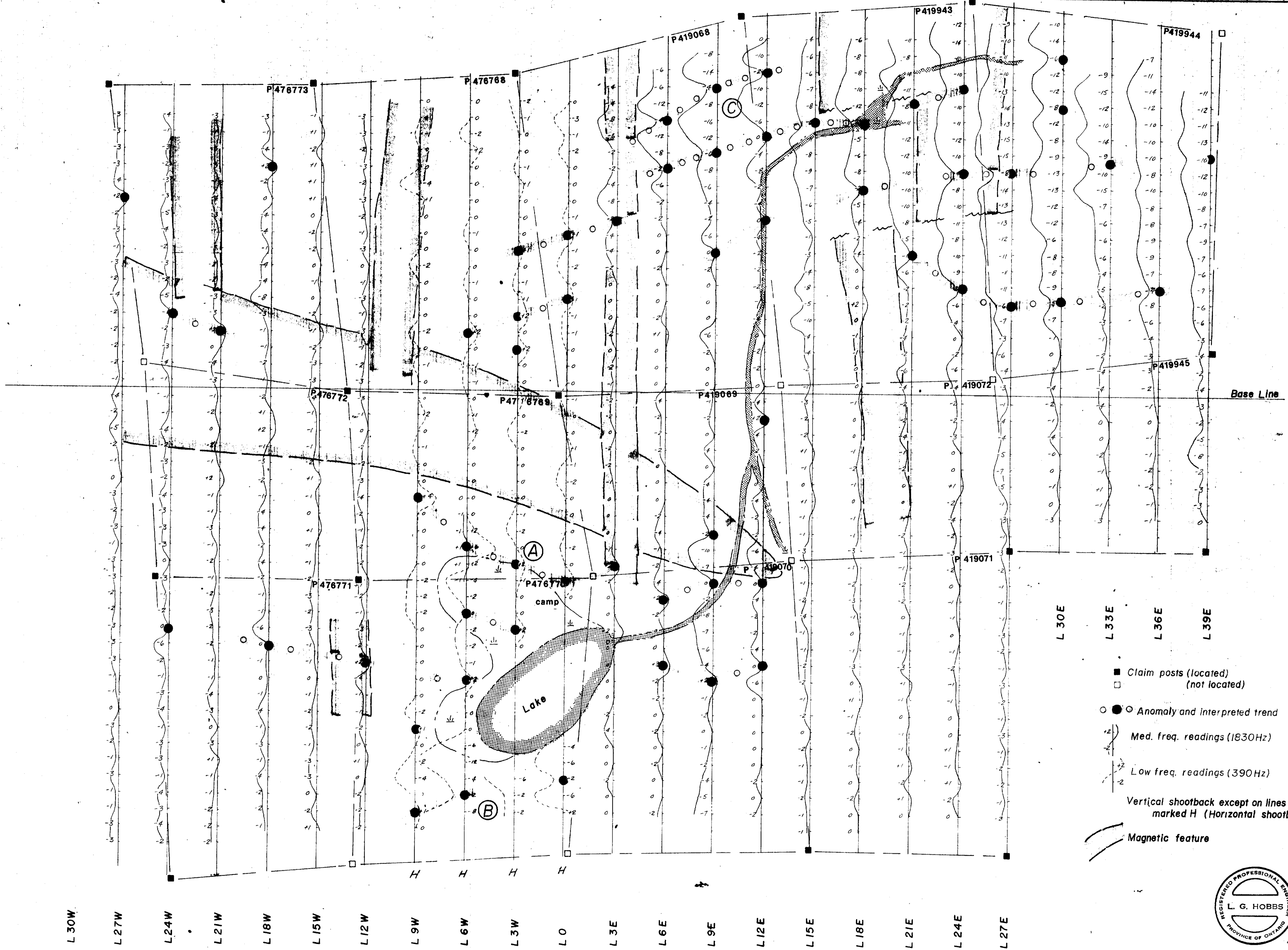
Whitney Block
Queen's Park, Toronto

M.482

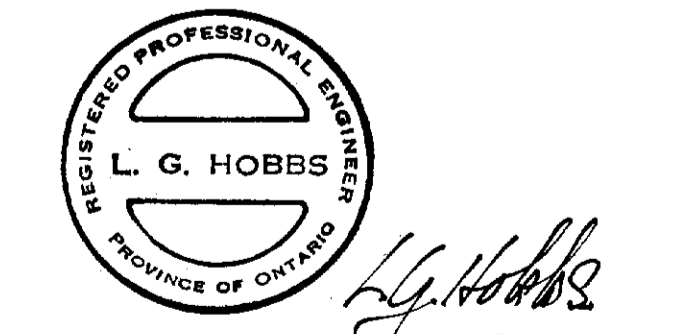
THORBURN TP. M.60I



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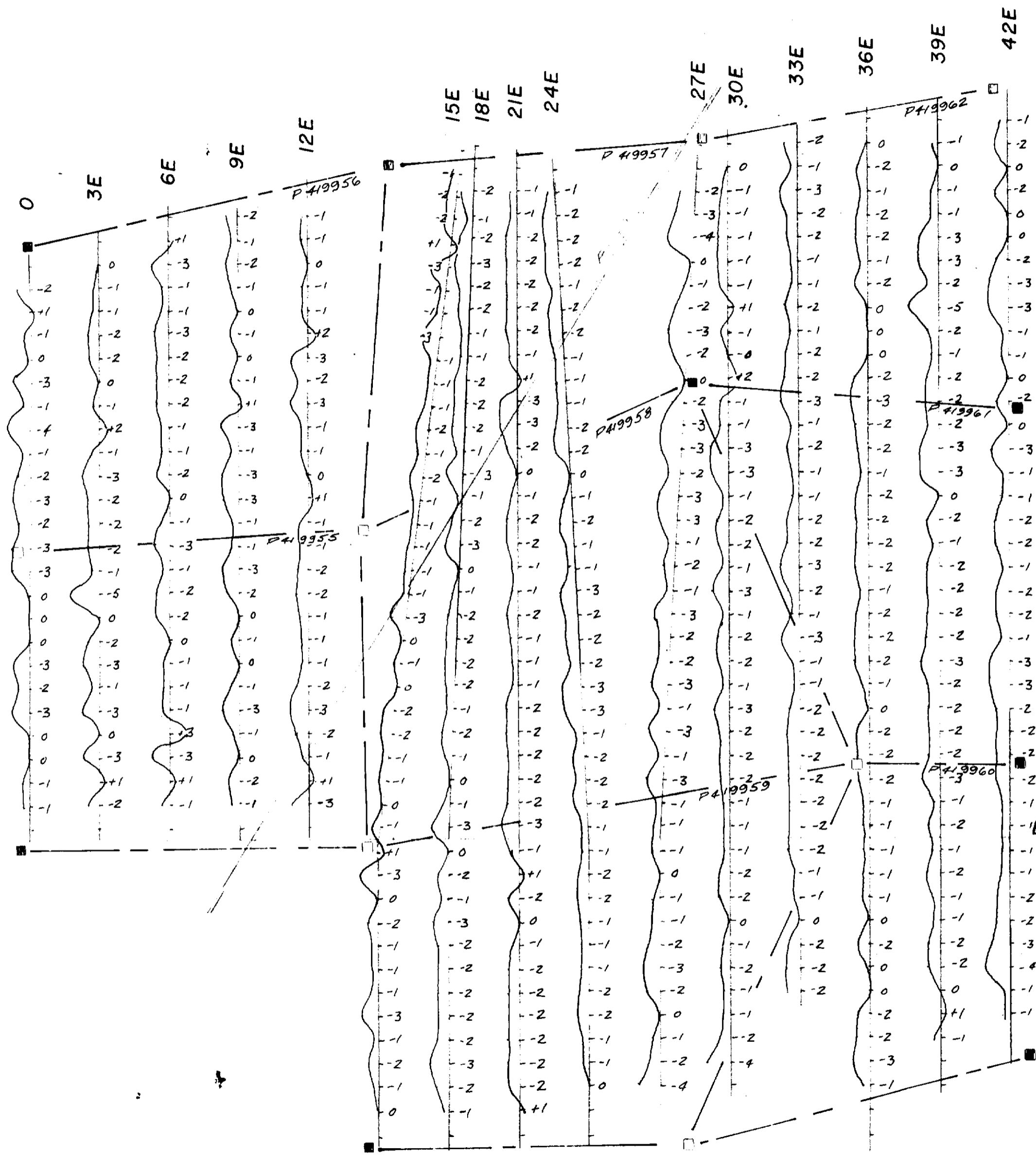
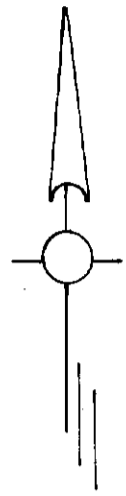


- Claim posts (located)
- Claim posts (not located)
- ● Anomaly and interpreted trend
- ● Med. freq. readings (1830Hz)
- ● Low freq. readings (390Hz)
- Vertical shootback except on lines marked H (Horizontal shootback)
- Magnetic feature



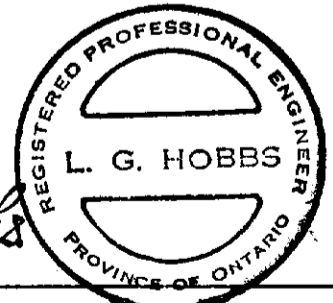
REVISIONS			YOUNG DAVIDSON MINES	
NO.	DATE	BY		
1			CRONE CEM SURVEY Gearsy Twp. 1 in = 300 ft March 1977 L.G. Hobbs	
2				
3				
4				
5				





- Reading and profile
- Anomaly
- All readings vertical shootback
low freq.(390Hz), Tx-Rx = 300 ft.
- Claim post located
- " " not located

Base Line



DALHOUSIE OIL CORP.	
CRONE CEM SURVEY GEARY TWP. ONT.	
drawn by LGH	scale 1" = 400'
	date Nov 1976
	LG HOBBS PEG

2.2380



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