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REPORT ON
MAGNETOMETER SURVEY
MATHESON AND GERMAN TOWNSHIPS, ONTARIO
FOR
EASTERN MINES LIMITED

PROSPECTING GEOPHYSICS LTD.,
Val d'Or, Quebec
July 20, 1984

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JUL 24 1984

MINING DIVISION

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REPORT ON
MAGNETOMETER SURVEY
MATHESON AND GERMAN TOWNSHIPS, ONTARIO
FOR
EASTERN MINES LIMITED

INTRODUCTION

Between May 26 to June 18, 1984, a ground magnetometer survey was carried out by Prospecting Geophysics Ltd. for Eastern Mines Limited over 31 unpatented claims in Matheson and German Townships, Ontario. The claim area constitutes seven claim groups, totalling approximately 1240 acres (502 hectares).

The purpose of the magnetic survey was to provide geological information and to assist in rating the priority of the VLF-EM conductors, outlined on some of the claim groups in a 1982 geophysical survey.

The following report and accompanying maps describe the results of the survey and give an interpretation of these results.

PROPERTY LOCATION AND ACCESS

The seven properties (Figure 1) referred to in this report are identified as M-1, and G-1 to G-6 inclusive and consists of 31 claims for approximately 1240 acres (502 hectares).

The 31 claims, registered with the Ontario Ministry of Natural Resources on Plan Nos. M-297 and M-283, are listed by townships in Appendix "A" at the end of the report.

The six properties designated by the letter G are in German Township, and the Matheson Township property is designated by the letter M.

HISTORY OF WORK

WORK PERFORMED

In 1982 a VLF-EM survey was done along pre-cut picket lines

at 200-foot intervals on all claim groups.

During 1983, a soil-sampling geochemical program was conducted along the same lines used in the electromagnetic survey.

GENERAL GEOLOGY

The claims are located in the southern part of the Abitibi volcanic belt of the Superior province of the Canadian Shield. The Precambrian volcanics; sedimentary and intrusive rocks of the area are Archean in age, except for late diabase dykes.

The general geology of the townships can be seen on O.D.M. Map 2205, the Timmins-Kirkland Lake Sheet, published in 1972. The bedrock similar to that of the Timmins area; much of it is covered by Pleistocene boulder-clay tills and deposits of sand and gravel. The oldest rocks are mafic meta-volcanics (commonly referred to as Keewatin) which are mostly andesitic in composition, and good pillows occur in some localities.

The Temiskaming sediments underlie most of the area. A medium grained greywacke is the most dominant rock type with interbedded siltstone, slate, argillite and pebble conglomerate.

These older formations have been intruded by small stocks, bosses, sills and dykes of igneous rocks ranging in composition from serpentinite to sialic porphyry. These igneous intrusions are not all of the same age; the youngest are north-trending olivine diabase dykes.

Gold mineralization in the area is generally associated with quartz-carbonate vein material along carbonatized zones which are most common in massive volcanics at or near the sedimentary-volcanic boundary. The carbonatized zones generally strike eastwest and dip vertically to steeply north.

SURVEY METHOD AND INSTRUMENT DATA

The instrument used for this survey was the McPhar Proton Magnetometer which measures the vertical component of the earth's magnetic field in gammas. Base stations for determining the magnetic diurnal variations were established along the base line for each claim group. Magnetic readings were taken at 100-foot intervals along the base lines and cross-lines established at 400-foot intervals. The results of the survey were contoured at 50-gamma intervals.

SURVEY RESULTS AND INTERPRETATIONS

It is immediately apparent from an inspection of the magnetic maps that the magnetic effects are constant for the small areas surveyed with little or no trend to the isomagnetics.

A magnetic low on Grid-G4, south of the base line on line 20W appears to be the result of man-made object.

CONCLUSIONS AND RECOMMENDATIONS

Surveys consisting of electromagnetic, magnetic and geo-chemical sampling have provided little or no additional data on structures associated with the known gold mineralization.

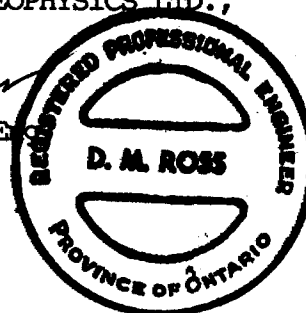
It is recommended that the next phase in the exploration program would be the diamond drilling of the known gold occurrences.

Respectfully submitted,

PROSPECTING GEOPHYSICS LTD.,

D. M. Ross

D.M. ROSS, P.Eng.



/cg

APPENDIX "A"

CLAIM LIST

GERMAN TOWNSHIP

<u>CLAIM NOS.</u>	<u>No. of Claims</u>	<u>GRID</u>	<u>CONCESSION</u>	<u>LOT</u>	<u>ANNIVERSARY DATE</u>
P-611435 - 37	3	G-1	IV	12	08/06/84
P-611431 - 34	4	G-2	IV	11	08/06/84
P-561591 - 94	4	G-3	IV	10	22/06/84
P-561599 - 602	4	G-4	IV	8	10/09/84
P-641332 - 33	2	G-5	IV	4	22/06/84
P-616534 - 37	4	G-5	IV	5	22/06/84
P-616558 - 60	3	G-6	V	3	22/06/84
P-616569	1	G-6	V	3	22/06/84

MATHESON TOWNSHIP

P-611424 - 25 ✓	2	M-1	III	1	06/04/84
P-611426 - 29 ✓	4	M-1	III	2	06/04/84

TOTAL CLAIMS:	31				
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NOTE: Claims P-611424 - 29 are on six month extension to October 6, 1984.

W.R.
#244/84
2.6916

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Mining Act

Type of Survey(s): Geophysical (Magnetometer) Township: German Twp.
 Claim Holder(s): Don McKinnon No. M-15389
 Address: P.O. Box 1130, 759 Denise St., Timmins, Ontario P4N 7S6
 Survey Company: Prospecting Geophysics Ltd Date of Survey (from & to): 27 05 84 to 04 06 84 Total Miles of line Cut: _____
 Name and Address of Author (of Geo-Technical report): David Ross, 169 Perreault Ave., Val d'Or, Que J9P 2H1

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	561591				
	561592				
	561593				
	561594				
	561599				
	561600				
	561601				
	561602				
	611431				
	611432				
	611433				
	611434				
	611435				
	611436				
	611437				
	616569				
	641332				
	641333				

RECEIVED
JUN 13 1984
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

RECEIVED
JUN 13 1984
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

RECEIVED
JUN 06 1984
MINING LANDS SECTION

RECORDED
JUN 13 1984

Receipt No. 30 Total number of mining claims covered by this report of work. 18

Expenditures (excludes power stripping)
 Type of Work Performed: _____
 Performed on Claim(s): _____
 Calculation of Expenditure Days Credits
 Total Expenditures \$ _____ ÷ 15 = Total Days Credits _____
 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.

Date: 6 June/84 Recorder Holder or Agent (Signature): David Ross

For Office Use Only
 Total Days Cr. Recorded: 360 Date Recorded: June 13, 1984
 Mining Recorder: [Signature]
 Date Approved as Recorded: 84.9.13 Mining Recorder: [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: DAVID ROSS, % Prospecting Geophysics Ltd., 169 Perreault Ave. Val d'Or, Que. J9P 2H1
 Date Certified: 6 June 1984 Certified by (Signature): David Ross

Mining Lands Section

File No 26976

Control Sheet

TYPE OF SURVEY **GEOPHYSICAL**
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

_____ *lgt.* *L.D.*

J. Hurst

Signature of Assessor

84-09-11

Date

PROSPECTING GEOPHYSICS LTD.

GEOPHYSICAL & GEOLOGICAL SURVEYS

169 PERRAULT AVENUE, VAL D'OR, QUEBEC J9P 2H1 • TEL. 819-824-3910

September 4, 1984

Ministry of Natural Resources,
Land Management Branch
Whitney Block, Queen's Park
Toronto, Ontario M7A 1W3

Dear Sir:

RE: Geophysical (Magnetometer) Survey submitted
on Mining claims P-561591 et al in Matheson
and German Townships.

Enclosed herewith are the seven plans
(in duplicate) for the above survey. As requested
in your letter of August 20, 1984, the claim
lines and numbers, and the magnetic base level
have been plotted on each plan.

RECEIVED

SEP 07 1984

MINING LANDS SECTION

yours very truly
David M. Ross
David M. Ross

Your File: 2.6976

RECEIVED	
Land Management Branch	
DATE	SEP - 7 1984
BY	
CLERK/DATE	
COMMENTS PLEASE	
W.L. GOOD	
W.L. JOHNSON	
BOOK	

August 20, 1984

File: 2.6976

Don McKinnon
P.O. Box 1130
759 Denise Street
Timmins, Ontario
P4N 7S6

Dear Sir:

RE: Geophysical (Magnetometer) Survey
submitted on Mining claims P 561591
et al in German Township

Returned herein are the plans (in duplicate) for the above-described survey. On each plan, please show all claim lines and numbers, and the magnetic base level. When returning this material, please quote file 2.6976.

For further information, please contact Mr. Ray Pichette at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

S. Hurst;Mc

cc: Mining Recorder
Timmins, Ontario

cc: David Ross
169 Perreault Avenue
Val d'Or, Quebec
J9P 2H1

Encl.

1984 08 02

Your File:
Our File: 2.6976

Mr. Bruce Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical
(Magnetometer) Survey submitted under Special Provisions
(credit for Performance and Coverage) on Mining Claims
P 561591 et al in the Townships of Matheson & German.

This material will be examined and assessed and
a statement of assessment work credits will be
issued.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-6918

S. Hurst:sc

cc: Prospecting Geophysical Limited
169 Perreault Avenue
Val d'Or, Quebec
J9P 2H1
Attn: David Ross.

cc: Don McKinnon
P.O. Box 1130
759 Denise Street
Timmins, Ontario
P4N 7S6

PROSPECTING GEOPHYSICS LTD.

GEOPHYSICAL & GEOLOGICAL SURVEYS

169 PERRAULT AVENUE, VAL D'OR, QUEBEC J9P 2H1 . TEL. 819-824-3910

July 20, 1984

Mr. E.F. Anderson
Land Management Branch
Ministry of Natural Resources
Queen's Park
Toronto, Ontario
M7A 1W3

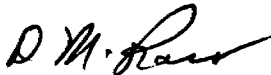
Dear Sir:-

RE: Assessment Work on mining claims
P-561591 et al in Matheson and
German Townships, Ontario

Enclosed please find in duplicate, our
report with accompanying maps on the magnetometer survey
on 31 claims in Matheson and German Townships, Ontario.

Yours truly,

PROSPECTING GEOPHYSICS LTD.,



D.M. Ross, P.Eng.

/cg
Encl.

RECEIVED	
Land Management Branch	
CIRCULATE	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
JUL 24 1984	
S. E. YUNET	
J. R. MORTON	
J. C. SMITH	✓
W. L. GOOD	
M. J. HOGAN	
W. A. BROOK	
R. 6643	

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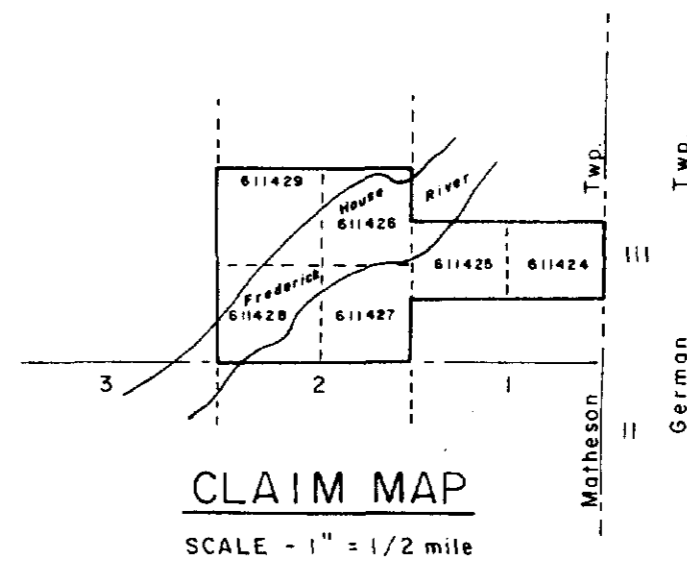
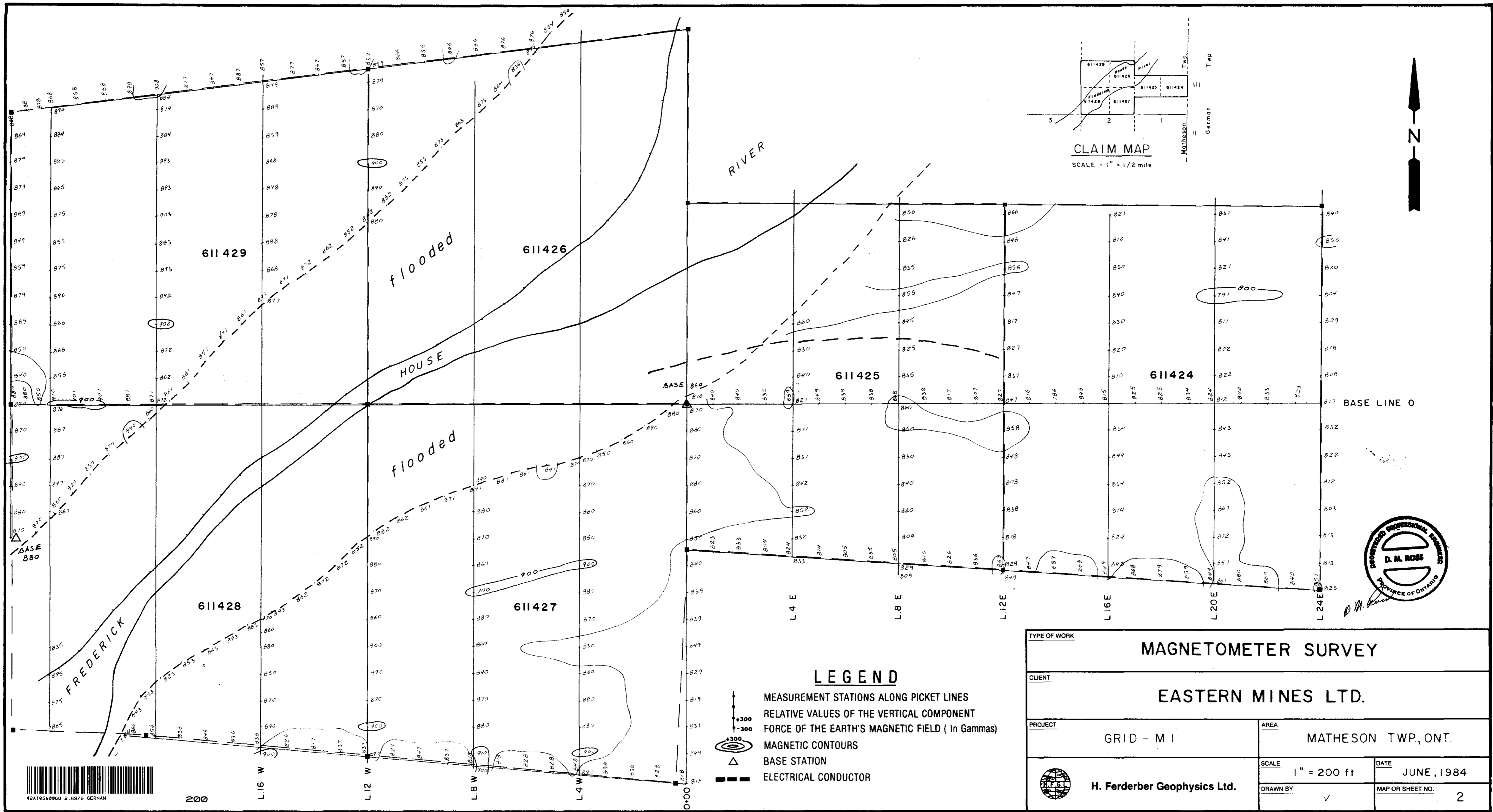
JUL 24 1984

MINING LANDS SECTION

2.6976

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59	✓			25	✓			92	✓	
60	✓			26	✓			93	✓	
641331	✓			27	✓			94	✓	
35	✓			28	✓			99	✓	
36	✓			29	✓			600	✓	
37	✓							01	✓	
								02	✓	
								611431	✓	
								32	✓	
								33	✓	
								34	✓	
								35	✓	
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								33	✓	

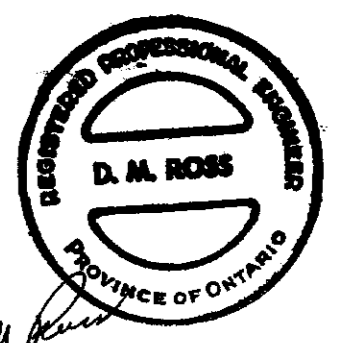
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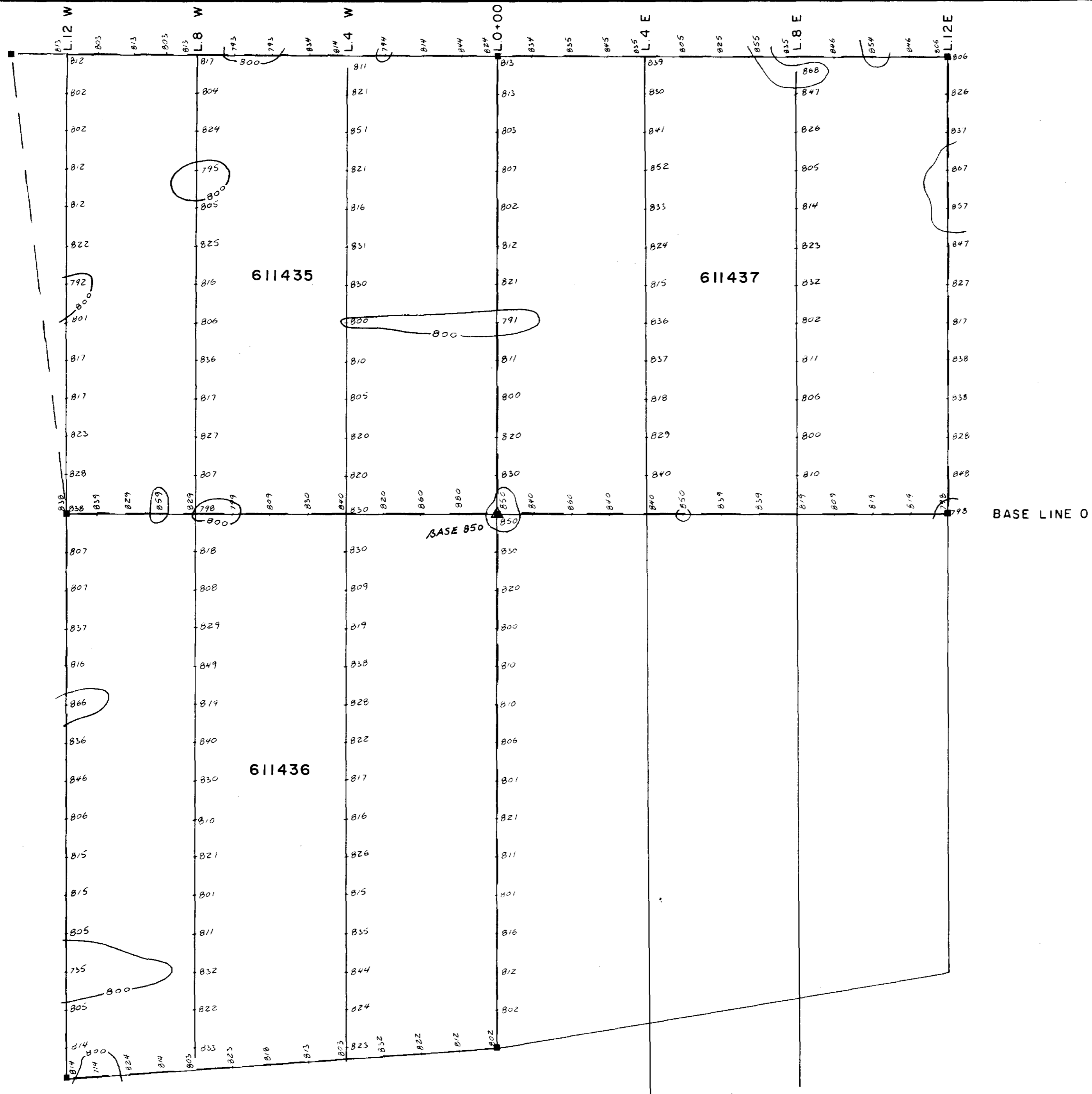


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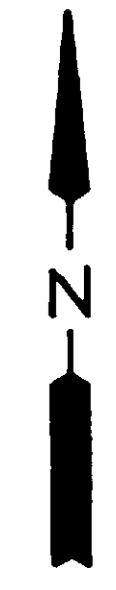
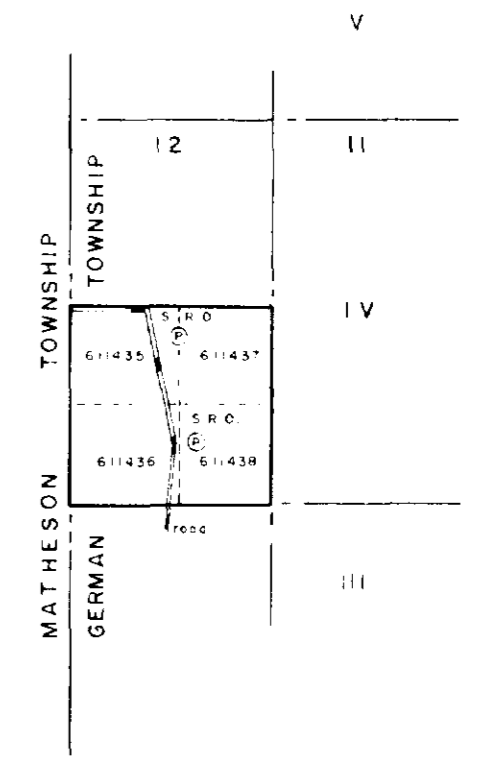
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- RELATIVE VALUES OF THE VERTICAL COMPONENT FORCE OF THE EARTH'S MAGNETIC FIELD (In Gammas)
- MAGNETIC CONTOURS
- BASE STATION
- ELECTRICAL CONDUCTOR

TYPE OF WORK		MAGNETOMETER SURVEY	
CLIENT		EASTERN MINES LTD.	
PROJECT	GRID - M I	AREA	MATHESON TWP, ONT.
SCALE	1" = 200 ft	DATE	JUNE, 1984
DRAWN BY	✓	MAP OR SHEET NO.	2





CLAIM MAP
SCALE 1" = 1/2 mile



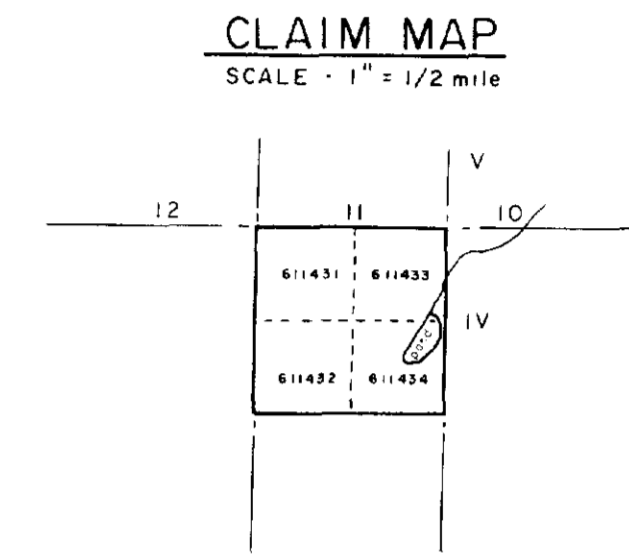
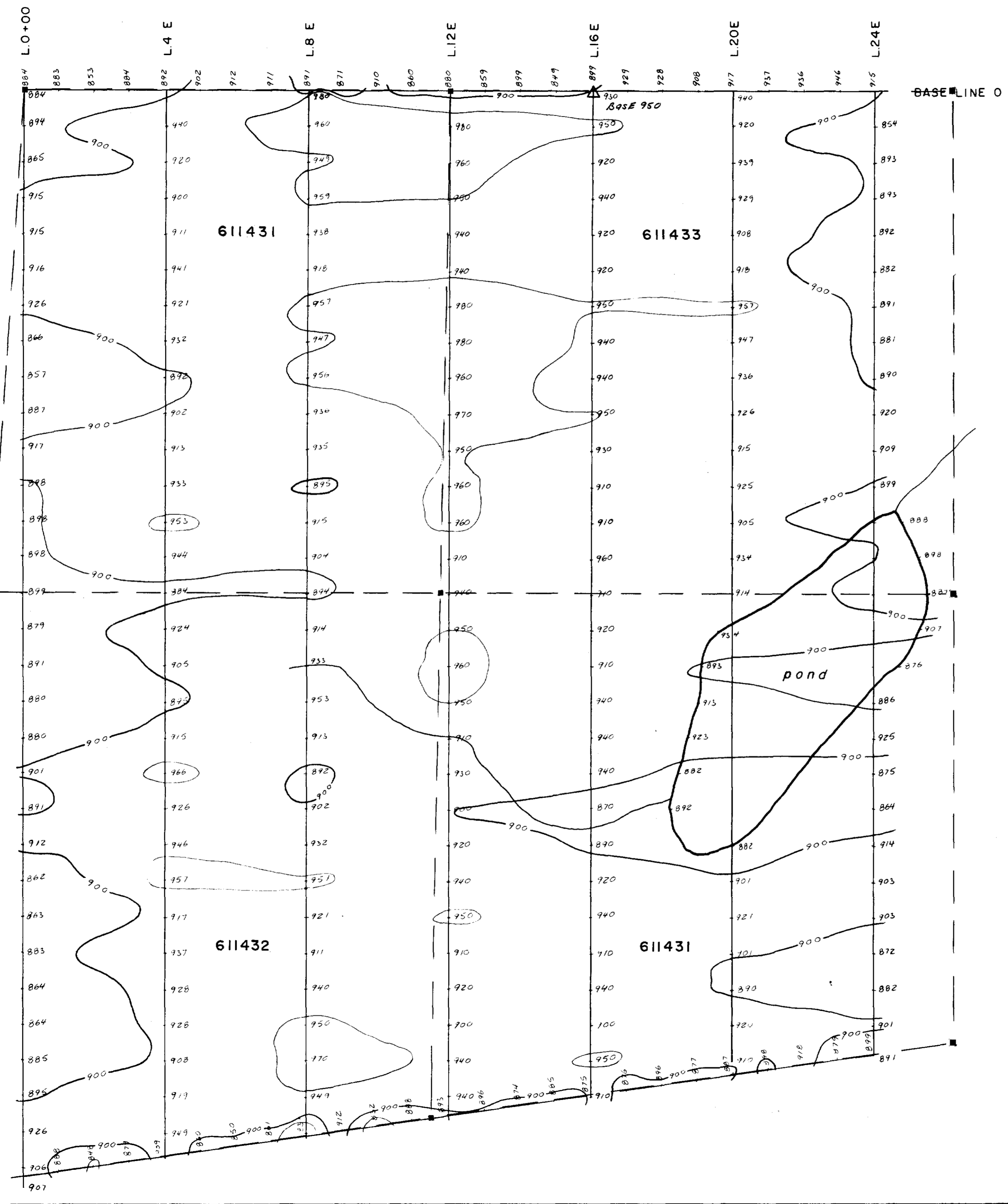
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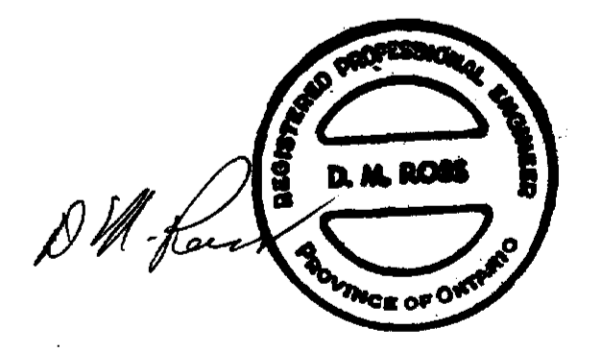
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CLIENT		EASTERN MINES LTD.	
PROJECT	GRID - G 1	AREA	GERMAN TWP, ONT.
SCALE	1" = 200 ft	DATE	JUNE, 1984
DRAWN BY	✓	MAP OR SHEET NO.	2
H. Ferderber Geophysics Ltd.			





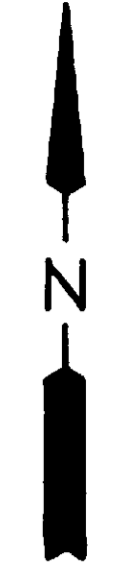
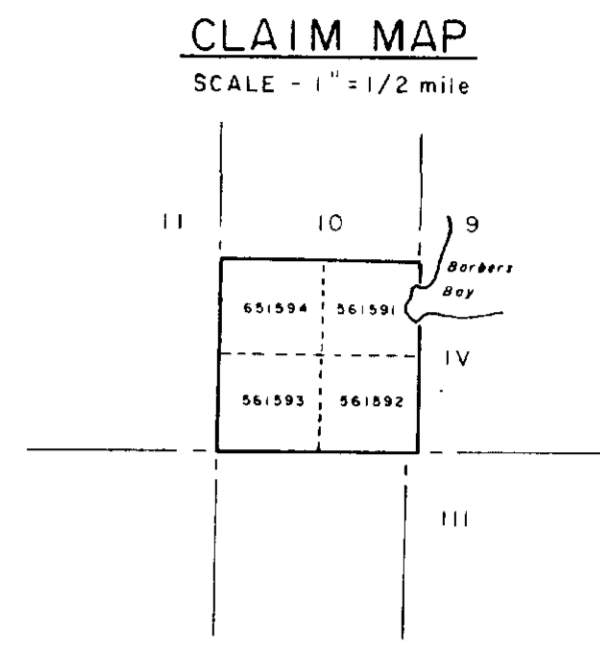
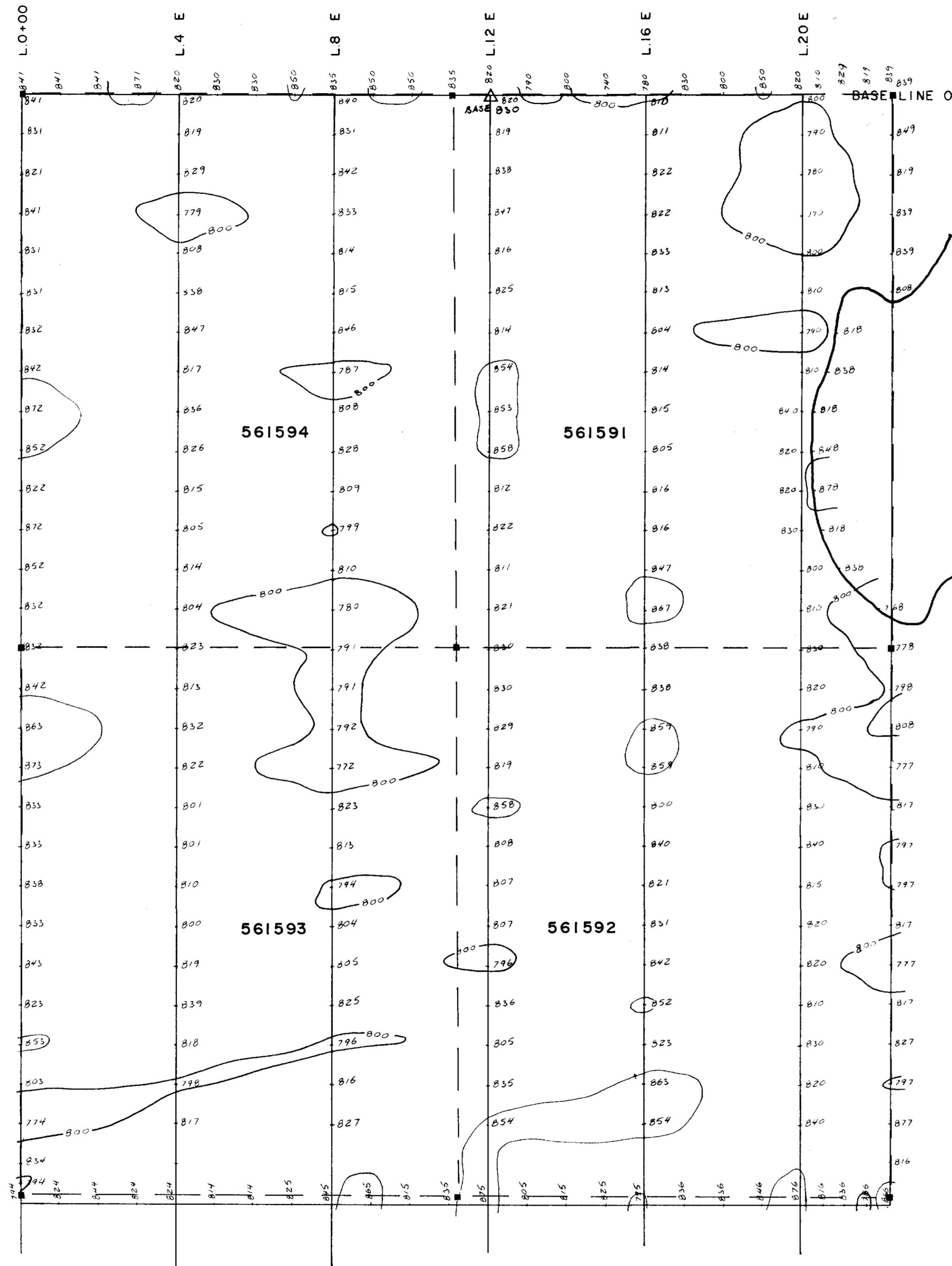
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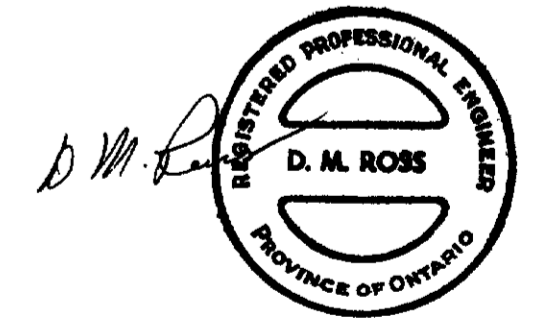
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CLIENT			
EASTERN MINES LTD.			
PROJECT		AREA	
GRID - G 2		GERMAN TWP., ONT.	
SCALE		DATE	
1" = 200 ft		JUNE, 1984	
DRAWN BY		MAP OR SHEET NO.	
✓		2	





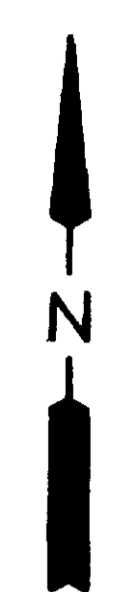
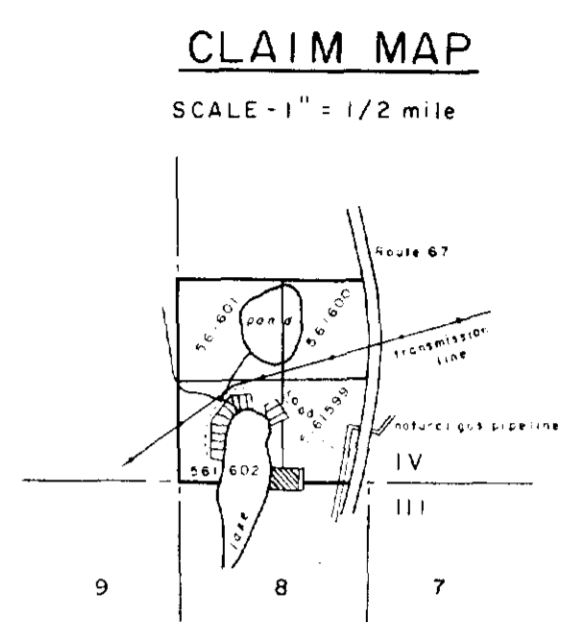
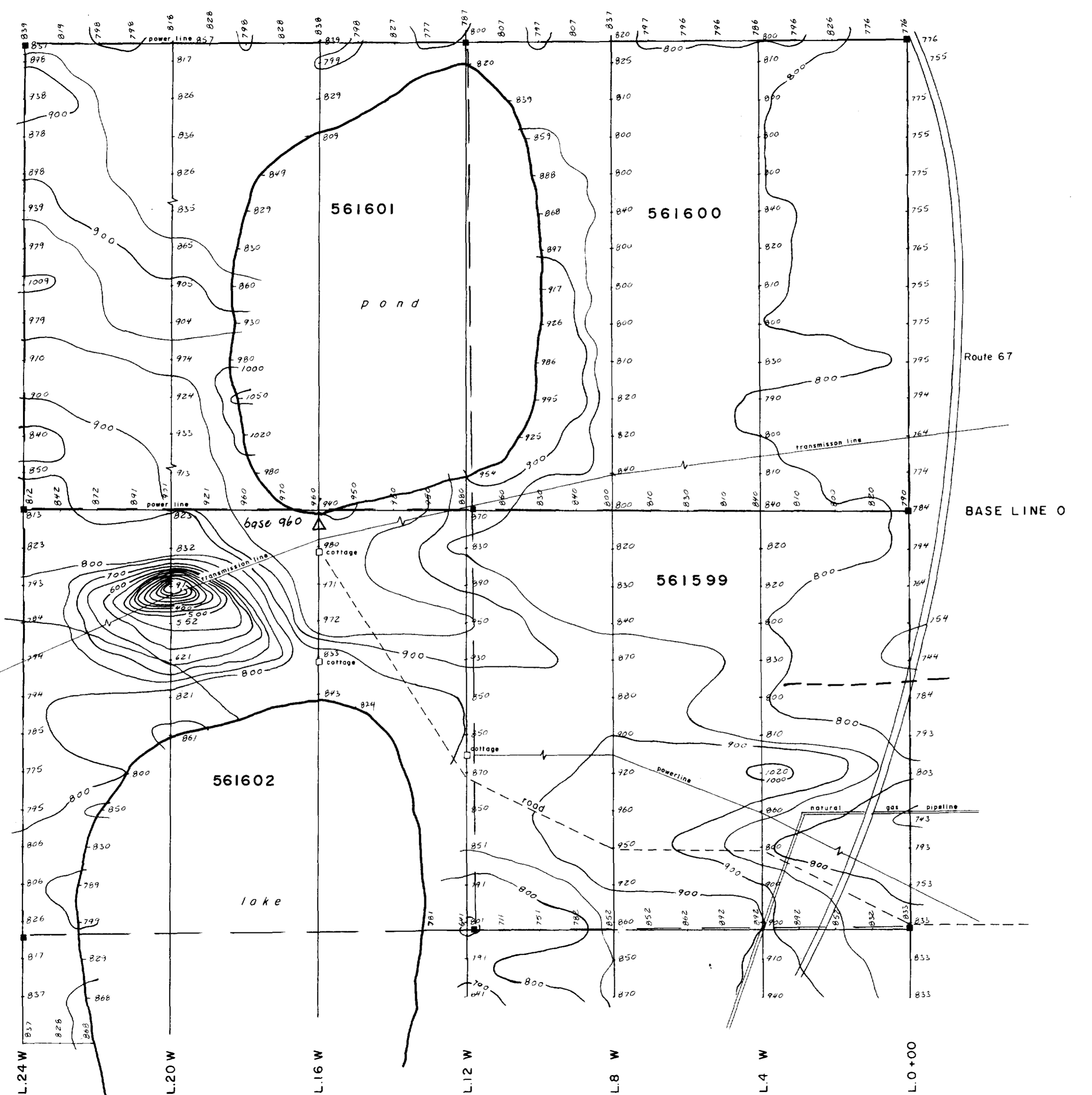
LEGEND

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- RELATIVE VALUES OF THE VERTICAL COMPONENT
- FORCE OF THE EARTH'S MAGNETIC FIELD (In Gammas)
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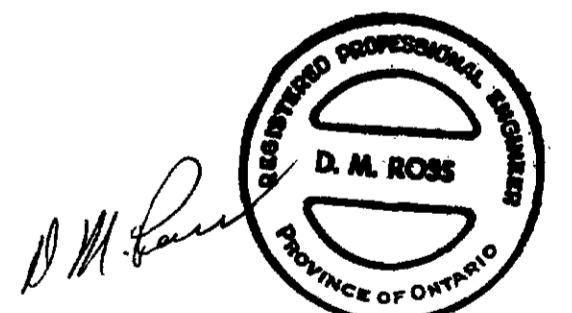
TYPE OF WORK		MAGNETOMETER SURVEY	
CLIENT		EASTERN MINES LTD.	
PROJECT	GRID - G 3	AREA	GERMAN TWP., ONT.
H. Ferderber Geophysics Ltd.	SCALE	1" = 200 ft	DATE
	DRAWN BY	✓	JUNE, 1984
		MAP OR SHEET NO.	2





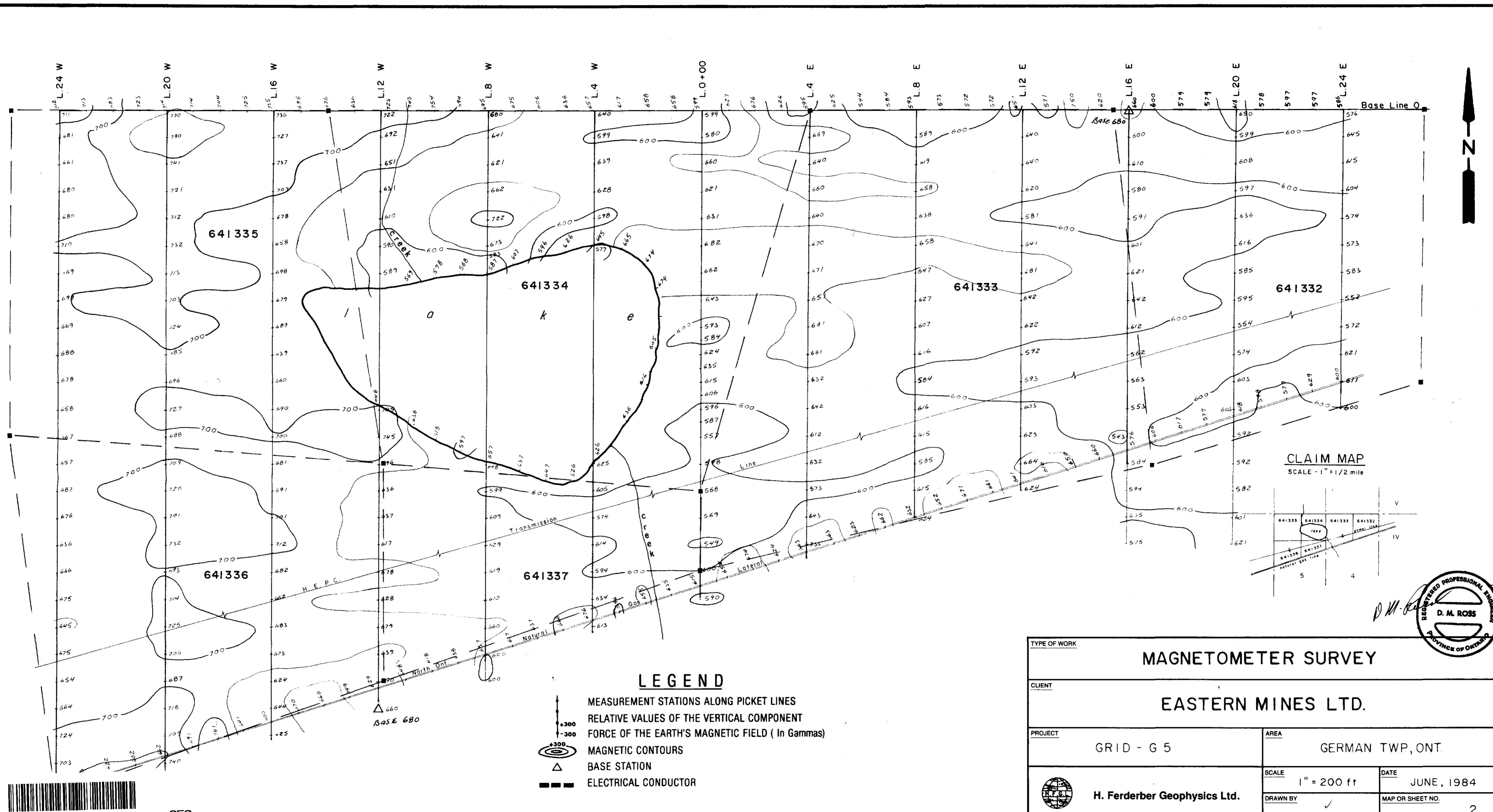
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TYPE OF WORK		
MAGNETOMETER SURVEY		
CLIENT		
EASTERN MINES LTD.		
PROJECT	AREA	
GRID - G 4	GERMAN TWP, ONT.	
 H. Ferderber Geophysics Ltd.	SCALE	DATE
	1" = 200 ft	JUNE, 1984
DRAWN BY	MAP OR SHEET NO.	
✓	2	

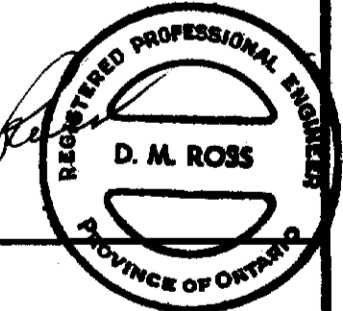




CLAIM MAP
SCALE - 1" = 1/2 mile

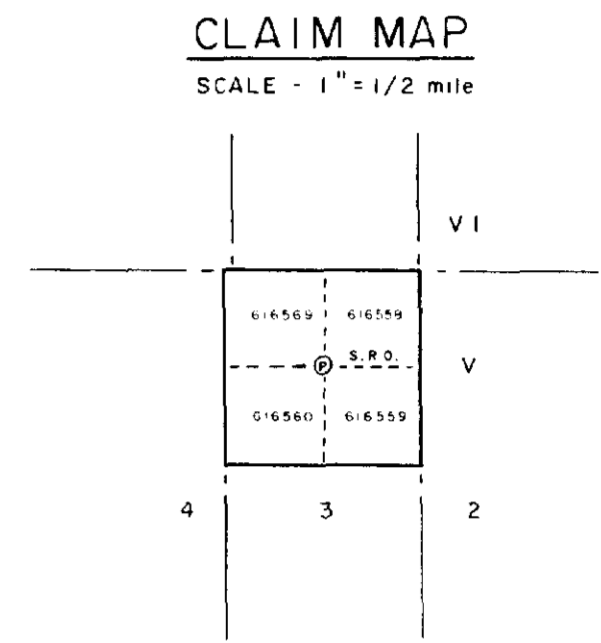
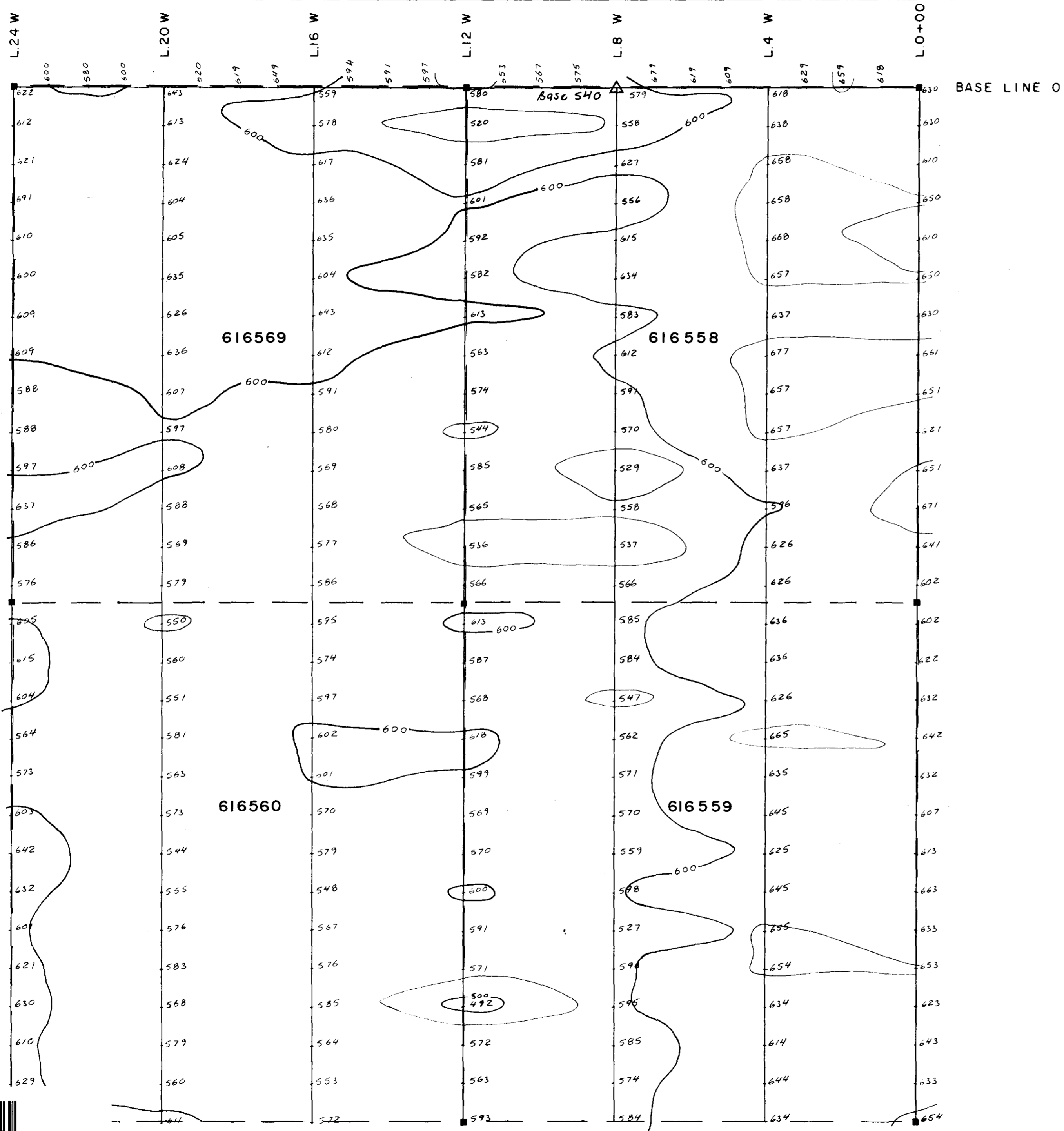
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TYPE OF WORK		MAGNETOMETER SURVEY	
CLIENT		EASTERN MINES LTD.	
PROJECT	AREA	GERMAN TWP, ONT.	
GRID - G 5		SCALE	DATE
H. Ferderber Geophysics Ltd.		1" = 200 ft	JUNE, 1984
DRAWN BY		MAP OR SHEET NO.	
✓		2	






LEGEND

- MEASUREMENT STATIONS ALONG PICKET LINES
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CLIENT			
EASTERN MINES LTD.			
PROJECT		AREA	
GRID - G 6		GERMAN TWP, ONT.	
SCALE		DATE	
1" = 200 ft		JUNE, 1984	
DRAWN BY		MAP OR SHEET NO.	
H. Ferderber Geophysics Ltd. 		✓ 2	

