

REPORT ON

MACNETOMETER SURVEY

MATHESON AND GERMAN TOWNSHIPS, ONTARIO

FOR

EASTERN MINES LIMITED

RECEIVED

JUL 24 1984

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

MINING LANDS STOLLON

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

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 geochemical 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_LID.

D.M. Ross, P.E.g

/cg

APPENDIX "A"

CLAIM LIST

GERMAN TOWNSHIP

CLAIM NOS.	No. of Claims	GRID	CONCESSION	LOT	ANNIVERSARY DATE
P-611435 - 37	3	G-1	IV	12	08/06/84
P-611431 - 34	4	G-2	VI	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 V	4	M-1	III	2	06/04/84
TOTAL CLAIMS:	31			•	

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

Ministry of Natural Resources Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

or witnessed same during and/or after its completion and the annexed report is true.





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DAUID ROSS, % Prospecting Genphysics Ltd. 169 Perreault Ave Val d'Or Quebec JSP 2H1 4 June 1984 Kowie Rose

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Ministry of Natural Regources

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Instructions: - Please type or print.

256/84 6916N

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.

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Mining Lands Section

File No 2.6976

Control Sheet

TYPE OF SURVEY	GEOPHYSICAL
	GEOLOGICAL
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	EXPENDITURE
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	J. Hurst
	Signature of Assessor
	84-09-11

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PROSPECTING GEOPHYSICS LTD.

GEOPHYSICAL & GEOLOGICAL SURVEYS

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

September 4, 1984

Ministry of Natural Resources, Lond Monagement Bronch Whitney Block, Queen's Park Toronto, Onterio MTA IW3

Deor Sir!

RE: Geophysical (Magnetometer) Survey submitted on Mining claims P-561591 et al in Mathesen 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 0 7 1984

MINING LANDS SECTION

David M. Ross

TOTAL 2.6976

WILGOOD

August 20, 1984

File: 2.6976

Don McKinnon P.O. Box 1130 759 Denise Street Timmins, Ontario P4N 756

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: 0ur 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 GeophysicalLimited
169 Perreault Avenue
Val d'Or, Quebec
J9P 2H1
Attn: D&vid 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 2HI . 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.

RECEIVED

JUL 24 1984

MINING Lands Section

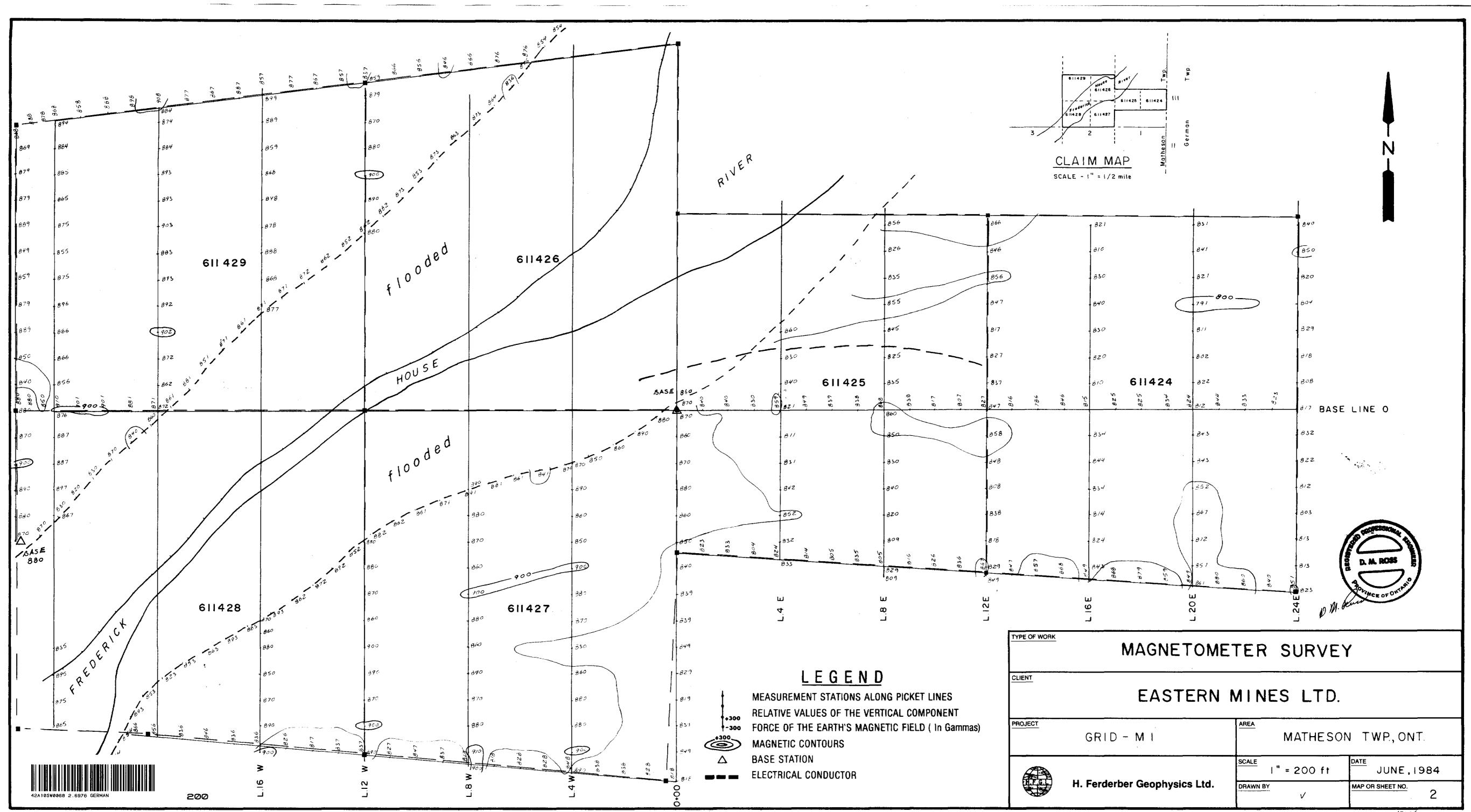
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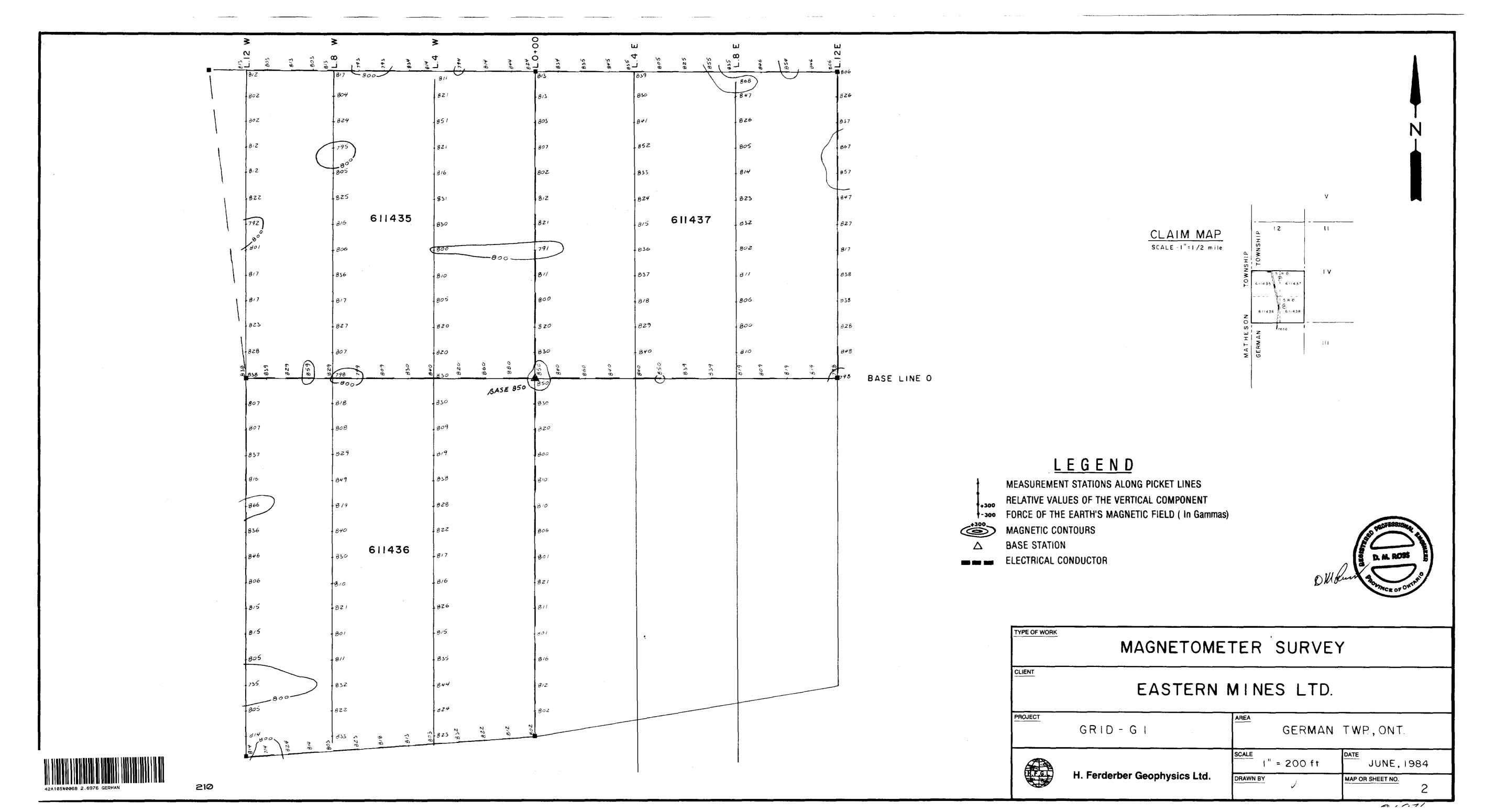
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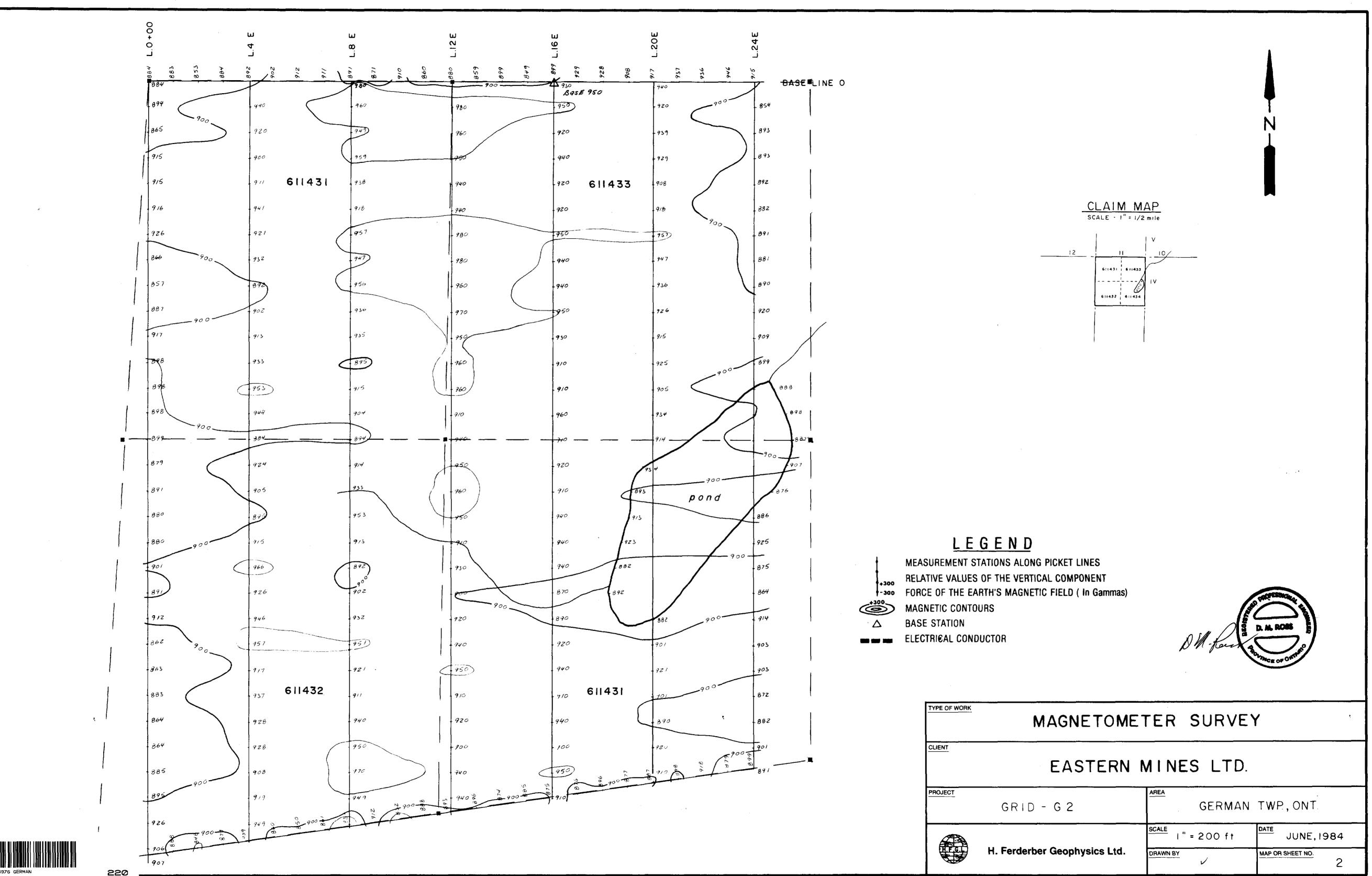
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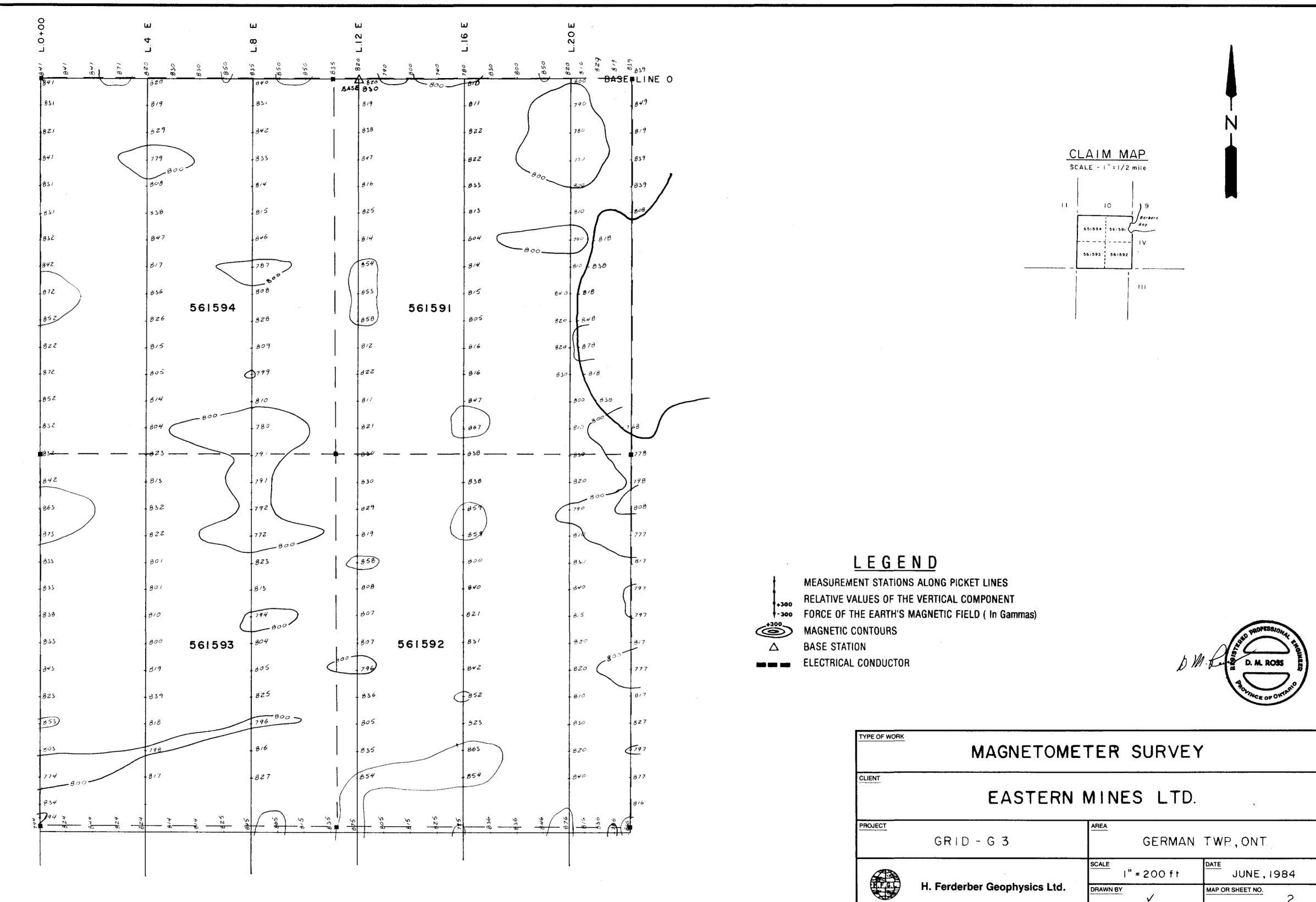
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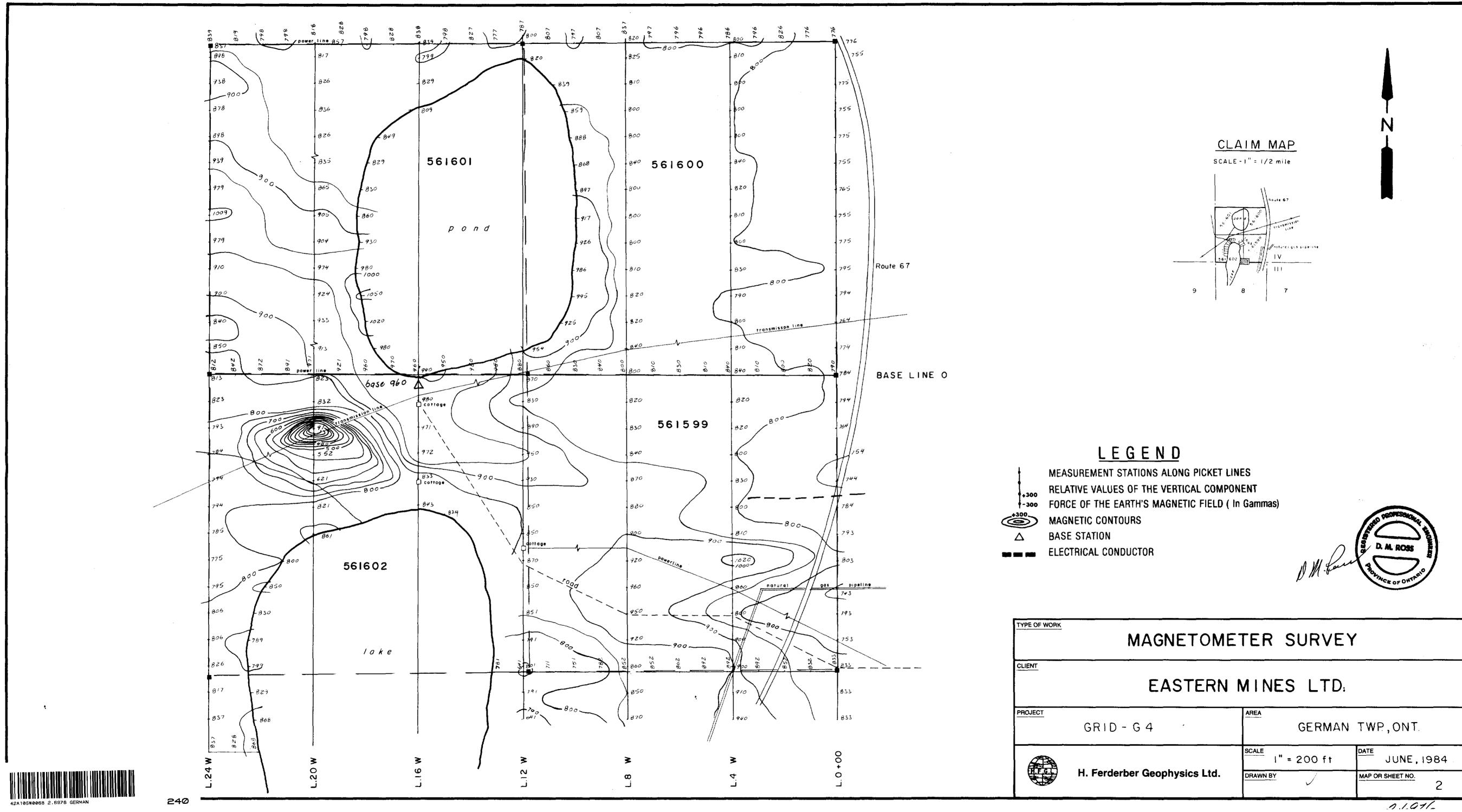


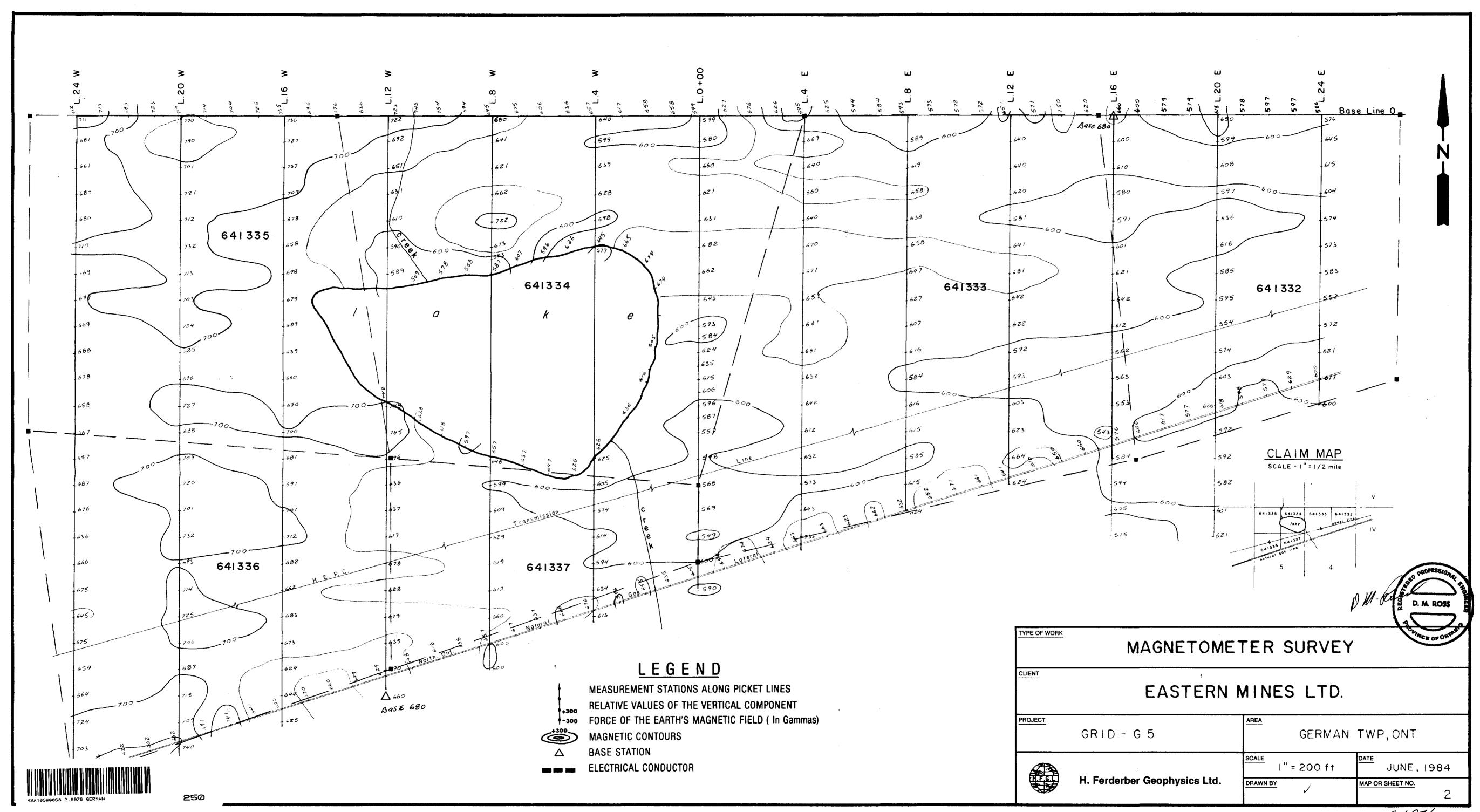


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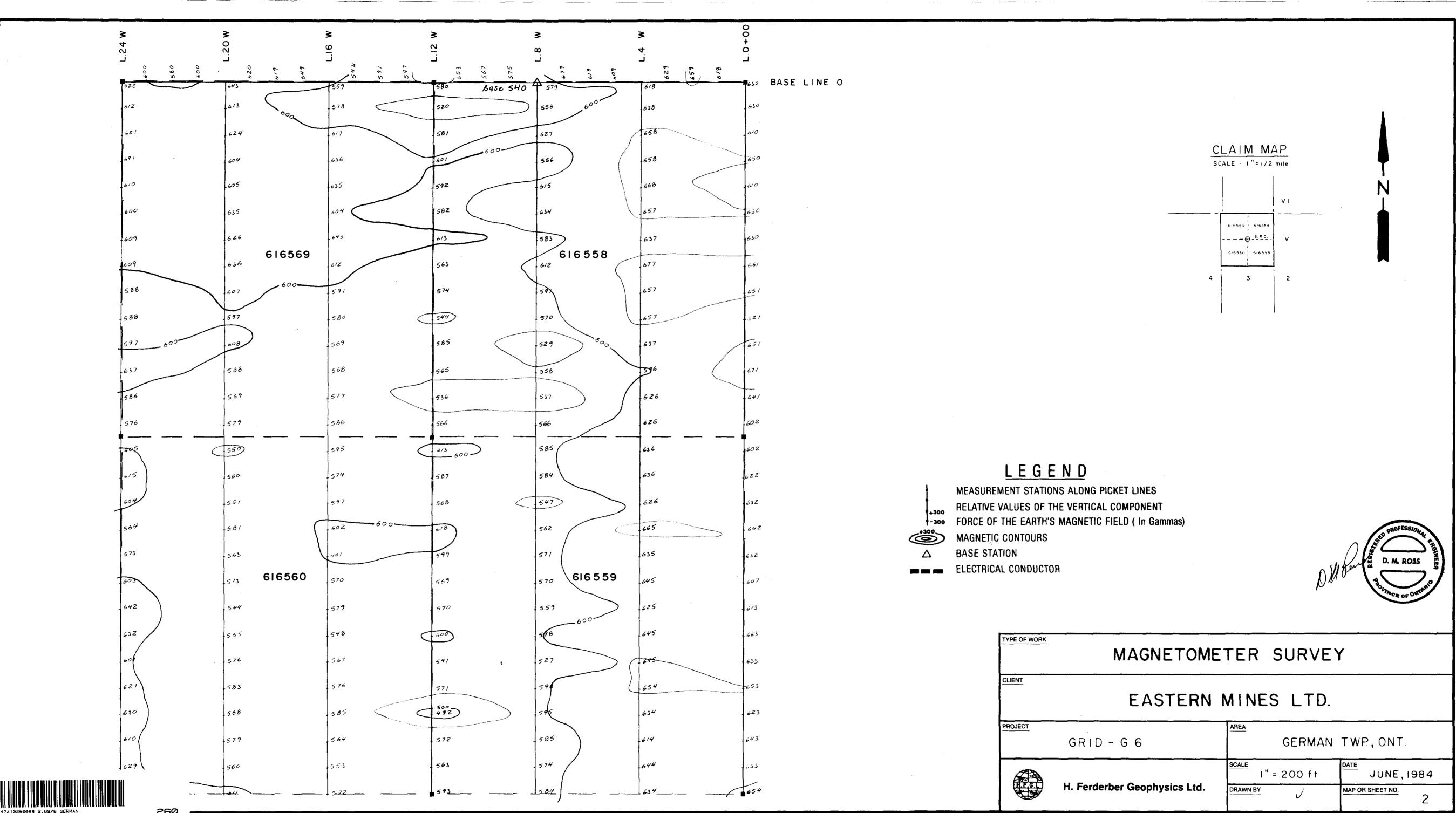
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