



REID PROJECT
ELECTROMAGNETIC AND MAGNETOMETER
SURVEYS
GEARY, LOVELAND, MAHAFFY, MOBERLY, REID,
THORBURN AND WILHELMINA TOWNSHIPS

RECEIVED

APR - 7 1982

MINING LANDS SECTION

Stanley D. Robinson
Minerals
March 1982
NTS 42A



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BOUND IN REPORT

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ENCLOSED IN POCKETS

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1:15,840

ENCLOSED IN APPENDIX III

Geophysical Plans

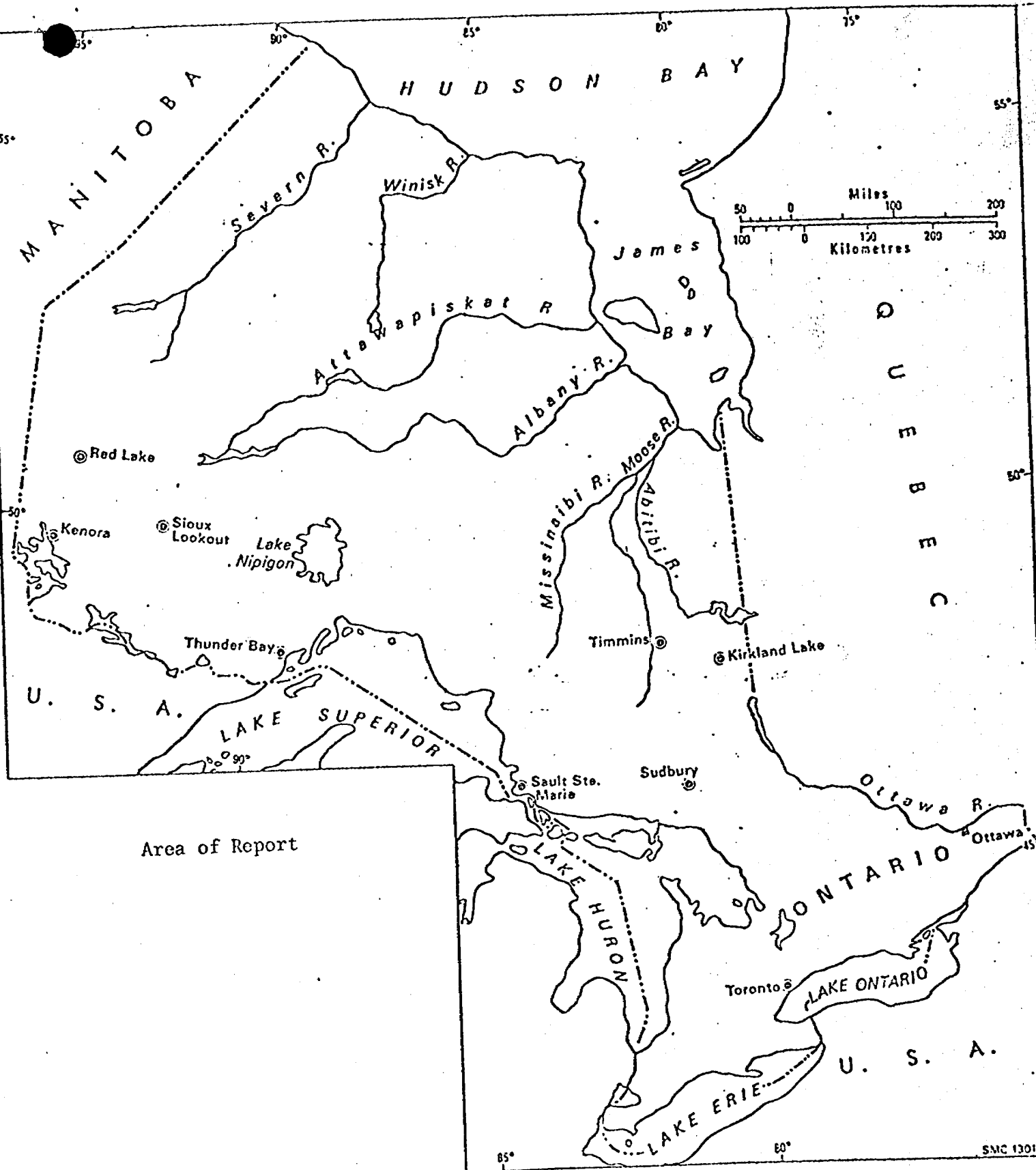


1.0 INTRODUCTION

A horizontal loop electromagnetic and magnetic survey was carried out on grids (F to K inclusive, M to Q inclusive, R and T to V inclusive) covering 146 claims in Geary, Loveland, Mahaffy, Moberly, Reid, Thorburn and Wilhelmina townships. (Figure 1, Table I). A horizontal loop electromagnetic survey was carried out on grids P and Q covering 20 claims in Geary Township. The surveys were carried out by Techterrex Inc., Omeme, Ontario from February to May 1981.

All the claims are held by Gulf Minerals Canada Limited. The claims are plotted on the geophysical planes in Appendix III. The plotted position of a few of the claims is approximate.





Area of Report

Figure 1 Location Map

Table I

List of Claims

<u>Grid F</u>		<u>Grid I</u>	
Mahaffy Twp.	Days	Reid Twp.	Days
P.596129	60	P.530167	60
P.596130	60	P.530168	60
P.596131	60	P.530169	60
P.596132	60	P.530170	60
P.596133	60	P.530171	60
P.596134	60		
		<u>Grid J</u>	
		Reid Twp.	
		P.530188	60
		P.530189	60
		P.530191	60
		P.530192	60
		P.530193	60
		P.530194	60
		P.530195	60
		P.530196	60
		P.596158	60
		P.596159	60
		P.596160	60
		P.596161	60
		Thorburn Twp.	
		P.596162	60
		P.596163	60
		P.530590	60
		P.530591	60
		P.530596	60
		P.530597	60
		P.515500	60
		P.515505	60
		P.515509	60
		P.515510	60
		P.515511	60
		P.515512	60
		P.515516	60
		P.515517	60
<u>Grid G</u>			
Mahaffy Twp.			
P.530092	60		
P.530093	60		
P.530094	60		
P.596102	60		
Geary Twp.			
P.530083	60		
P.596099	60		
P.596100	60		
<u>Grid H</u>			
Mahaffy Twp.			
P.530088	60		
P.530089	60		
P.530090	60		
P.530581	60		
P.530582	60		
P.530585	60		
Geary Twp.			
P.530078	60		
P.530079	60		
P.530086	60		
P.530087	60		



Table I (cont'd)List of ClaimsGrid J (cont'd)

Thorburn Twp.	Days
P.515521	60
P.515522	60
P.515527	60
P.515528	60
P.515529	60
P.515530	60
P.515536	60
P.596239	60
P.596240	60
P.596241	60

Loveland Twp.

P.508807	60
P.508810	60

Grid K

Thorburn Twp.

P.530045	60
P.530046	60
P.530047	60
P.530053	60
P.530054	60
P.530058	60
P.530059	60
P.530064	60
P.530065	60
P.530068	60
P.530069	60
P.597396	60
P.597397	60
P.597398	60
P.597399	60
P.597406	60
P.597407	60
P.597418	60
P.597419	60
P.597420	60
P.597421	60
P.597422	60
P.597427	60
P.597428	60
P.597429	60
P.597431	60
P.597449	60

Grid O

Geary Twp.	Days
P.530139	60
P.596153	60
P.596154	60

Grid P

Geary Twp.	Days
P.530134	20
P.530135	20
P.530136	20
P.530137	20
P.530138	20
P.530141	20
P.530142	20
P.530144	20

Grid Q

Geary Twp.	Days
P.530115	20
P.530116	20
P.530117	20
P.530118	20
P.530119	20
P.530120	20
P.530121	20
P.530122	20
P.530123	20
P.596125	20
P.596126	20

Grid R

Wilhelmina Twp.	Days
P.596211	60
P.596212	60
P.596217	60
P.596218	60
P.596221	60
P.596222	60



29

Table I (cont'd)

List of ClaimsGrid T

Moberly Twp.	Days
P.596228	60
P.596229	60
P.596230	60
P.596231	60
P.596232	60
P.596234	60
P.596235	60

Grid U

Wilhelmina Twp.	Days
P.596185	60
P.596186	60
P.596187	60

Geary Twp.

P.596175	60
P.596176	60
P.596178	60
P.596179	60
P.596180	60
P.596181	60
P.596182	60
P.596183	60
P.506184	60

Grid V

Wilhelmina Twp.	Days
P.596193	60
P.596194	60
P.596195	60
P.596196	60
P.596197	60
P.596198	60
P.596199	60
P.596200	60
P.596201	60
P.596202	60

Grid M

Thorburn Twp.	Days
P. 596118	60
P. 596119	60
P. 596150	60
P. 596151	60
P. 596152	60

Grid N

Geary Twp.	Days
P. 596140	60
P. 596141	60
P. 596142	60
P. 596143	60
P. 596144	60
P. 596145	60
P. 596146	60
P. 596147	60
P. 596148	60
P. 596149	60



2.0 ACCESS

The property is accessible from Timmins via highway #576 and tracked vehicle during the winter months. A helicopter is necessary for access in the summer.



3.0 GEOLOGY

Unfortunately, due to the scarcity of outcrops, the geology is not well known.

The area covered by the surveys is considered to be several northwest to southeast trending rhyolite bands flanked on both sides by mafic volcanics. Several ultramafic horizons are thought to be present.



4.0 SURVEY METHOD

4.1 Electromagnetic Survey

The horizontal loop electromagnetic survey was conducted with Apex Max Min II equipment. Transmitter to receiver separation was 200 metres at 444 Hz and 1,777 Hz and readings were taken at the picketed 25 metre stations. Approximately 300 kilometres of cut line were surveyed.

4.2 Magnetometer Survey

The magnetic survey was carried out with a Gem-8 magnetometer. In order to maintain magnetic control a central base station with a continuous daily magnetic printout was set up. Diurnal corrections were made according to the magnetic printout. A base value of 59,000 gammas was used throughout the survey.

Approximately 290 kilometres of line were surveyed. Readings were taken at 25 metre intervals throughout, however, in anomalous areas the readings were taken at 12.5 metre intervals.



5.0 RESULTS

All the results are presented on the geophysical plans in Appendix III, therefore, only a few brief comments are presented here.

The magnetic surveys are generally relatively flat with a few northwest trending magnetic highs considered to be diabase dykes. A few magnetic highs oblique to the northwest trend are present and these are considered to be due to either lithologic changes, magnetite or sulphides.

The electromagnetic survey delineated numerous conductors throughout the area surveyed. The interpretation of the anomalies is presented on the geophysical planes.



6.0 RECOMMENDATIONS

It is recommended that all the electromagnetic conductors that have not previously been drilled, be drill tested.

*J.D. Robinson
April 6, 1982*



APPENDIX I

Technical Data Statement



Technical Data Statement

The technical data statement contains all the pertinent information.

Table I lists the claims for which assessment credits are being applied. Table I also includes the number of days per claim being applied for.





Ministry of Natural Resources

File _____

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.

Type of Survey(s) Geophysical

Township or Area Geary Loveland, Mahaffy, Moberly, Reid,

Claim Holder(s) Thorburn & Wilhelmina
GULF MINERALS CANADA LIMITED

Survey Company Techterrex Inc.,

Author of Report S. D. Robinson

Address of Author 29 Silverton Ave., Downsview, Ont

Covering Dates of Survey February to May, 1981
Kilometres (linecutting to office)

Total ~~MILES~~ of Line Cut 300 kilometres

MINING CLAIMS TRAVERSED
List numerically

(See Table I)

(prefix)

(number)

Table with 2 columns: (prefix), (number). Multiple rows for listing claims.

If space insufficient, attach list

**SPECIAL PROVISIONS
CREDITS REQUESTED**

Geophysical

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

-Electromagnetic 20

ENTER 20 days for each
additional survey using
same grid.

-Magnetometer 40

-Radiometric _____

-Other _____

Geological _____

Geochemical _____

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

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

DATE: April 6, 1982 SIGNATURE: S. D. Robinson
Author of Report or Agent

Res. Geol. _____ Qualifications 22709.

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ N/A _____ Number of Readings _____ N/A _____
Station interval _____ 25 metres _____ Line spacing _____ 100 metres _____
Profile scale _____ N/A _____
Contour interval _____ 25 gammas _____

MAGNETIC

Instrument _____ GEM-8 magnetometer _____
Accuracy – Scale constant _____ 1 gamma _____
Diurnal correction method _____ Mathematical with base station printout _____
Base Station check-in interval (hours) _____ Continuous magnetic printout at base station _____
Base Station location and value _____ Base camp-Loveland Township, 59,000 gamma _____

ELECTROMAGNETIC

Instrument _____ Apex MaxMin II _____
Coil configuration _____ Horizontal _____
Coil separation _____ 200 metres _____
Accuracy _____ + 1% _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____ 444Hz. _____ 1.777 Hz. _____
(specify V.L.F. station)
Parameters measured _____ Inphase and quadrature _____

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 _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

APPENDIX II

Attestation of Qualifications



Attestation of Qualifications

- 1) I received a B.Sc. in geology from Sir George Williams University, Montreal, in 1971.
- 2) I received an M.Sc. in geology from the Univeristy of Ottawa, Ottawa, in 1974.
- 3) I have been actively employed in the mining industry since May, 1974, with McIntyre Mines Ltd., Shell Canada Resources Ltd. and presently with Gulf Minerals Canada Limited.
- 4) I have not and presently do not hold any interests in the mining claims in Geary, Loveland, Mahaffy, Moberly, Reid, Thorburn and Wilhelmina Townships, Ontario.
- 5) I reside at 29 Silverton Avenue, Downsview, Ontario.

S. D. Robinson

S.D. Robinson
Project Geologist
March 1982





Report of Work *Reid's*
(Geophysical, Geological,
Geochemical and Expenditures)



42A135E0013 2.4673 GEARY

900

K. 10/13 Mahaffy, Moberly, Reid, Thorburn
Mining Act in the "Expend. Days Cr. columns."
- Do not use shaded areas below.

Type of Survey(s) Geophysical #114	Wilhelmina,	Township or Area Geary, Loveland, Mahaffy, Moberly, Reid, Thorburn
Claim Holder(s) Gulf Minerals Canada Limited	Prospector's Licence No. T-403	
Survey Company Techterrex Inc.	Survey Dates (linecutting to office) Day Mo. Yr. Day Mo. Yr. 02 81 05 81	Total Miles of line Cut 300 Km
Name and Address of Author (of Geo-Technical report) S. D. Robinson, 29 Silverton Ave., Downsview, Ontario M3H 3E7		

Special Provisions Credits Requested

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
(see Table I)					
<p>RECEIVED MAY 25 1982 MINING LANDS SECTION</p>					
<p><i>see reversed statements</i></p>					
<p>RECORDED APR 26 1982 Receipt No.</p>					

Man Days

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

Airborne Credits

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

Expenditures (excludes power stripping)

Type of Work Performed PROSPECTION MINING DIVISION
Performed on Claim(s) 11
Calculation of Expenditure Days Credits Total Expenditures \$ <input type="text"/> + 15 = <input type="text"/>

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.

Report Completed

Date of Report Apr. 6/82	Recorded Holder or Agent (Signature) S. D. Robinson
------------------------------------	---

For Office Use Only

Total Days Cr. Recorded 9900	Date Recorded April 18/82	Total number of mining claims covered by this report of work. 165
Date Approved by Recorded	Regional/branch Director <i>[Signature]</i>	Regional Mining Recorder

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
S. D. Robinson, 29 Silverton Ave., Downsview, Ontario

Date Certified April 6 1982	Certified by (Signature) <i>[Signature]</i>
---------------------------------------	--

Table I

List of ClaimsGrid F

Mahaffy Twp. ✓

Days

P.596129 60
 P.596130 60
 P.596131 60
 P.596132 60
 P.596133 60
 P.596134 60

Grid G

Mahaffy Twp. ✓

P.530092 60
 P.530093 60
 P.530094 60
 P.596102 60

Geary Twp. ✓

P.530083 60
 P.596099 60
 P.596100 60

Grid H

Mahaffy Twp. ✓

P.530088 60
 P.530089 60
 P.530090 60
 P.530581 60
 P.530582 60
 P.530585 60

Geary Twp. ✓

P.530078 60
 P.530079 60
 P.530086 60
 P.530087 60

Grid I

Reid Twp. ✓

Days

P.530167 60
 P.530168 60
 P.530169 60
 P.530170 60
 P.530171 60

Grid J

Reid Twp. ✓

P.530188 60
 P.530189 60
 P.530191 60
 P.530192 60
 P.530193 60
 P.530194 60
 P.530195 60
 P.530196 60
 P.596158 60
 P.596159 60
 P.596160 60
 P.596161 60

Thorburn Twp. ✓

P.596162 60
 P.596163 60
 P.530590 60
 P.530591 60
 P.530596 60
 P.530597 60
 P.515506 60
 P.515505 60
 P.515509 60
 P.515510 60
 P.515511 60
 P.515512 60
 P.515516 60
 P.515517 60



Table I (cont'd)

List of Claims

Grid J (cont'd)

Thorburn Twp. ✓	Days
P.515521	60
P.515522	60
P.515527	60
P.515528	60
P.515529	60
P.515530	60
P.515536	60
P.596239	60
P.596240	60
P.596241	60

Loveland Twp. ✓

P.508807	60
P.508810	60

Grid K

Thorburn Twp. ✓

P.530045	60
P.530046	60
P.530047	60
P.530053	60
P.530054	60
P.530058	60
P.530059	60
P.530064	60
P.530065	60
P.530068	60
P.530069	60
P.597396	60
P.597397	60
P.597398	60
P.597399	60
P.597406	60
P.597407	60
P.597418	60
P.597419	60
P.597420	60
P.597421	60
P.597422	60
P.597427	60
P.597428	60
P.597429	60
P.597431	60
P.597449	60

Grid O

Geary Twp. ✓	Days
P.530139	60
P.596153	60
P.596154	60

Grid P

Geary Twp. ✓

P.530134	20
P.530135	20
P.530136	20
P.530137	20
P.530138	20
P.530141	20
P.530142	20
P.530144	20

Grid Q

Geary Twp. ✓

P.530115	20
P.530116	20
P.530117	20
P.530118	20
P.530119	20
P.530120	20
P.530121	20
P.530122	20
P.530123	20
P.596125	20
P.596126	20

Grid R

Wilhelmina Twp. ✓

P.596211	60
P.596212	60
P.596217	60
P.596218	60
P.596221	60
P.596222	60



Table I (cont'd)

List of ClaimsGrid T

Moberly Twp.	Days
P.596228	60
P.596229	60
P.596230	60
P.596231	60
P.596232	60
P.596234	60
P.596235	60

Grid U

Wilhelmina Twp. ✓	
P.596185	60
P.596186	60
P.596187	60
Geary Twp. ✓	
P.596175	60
P.596176	60
P.596178	60
P.596179	60
P.596180	60
P.596181	60
P.596182	60
P.596183	60
P.506184	60

Grid V

Wilhelmina Twp. ✓	
P.596193	60
P.596194	60
P.596195	60
P.596196	60
P.596197	60
P.596198	60
P.596199	60
P.596200	60
P.596201	60
P.596202	60

Grid M

Thorburn Twp. ✓	Days
P. 596118	60
P. 596119	60
P. 596150	60
P. 596151	60
P. 596152	60

Grid N

Geary Twp. ✓	Days
P. 596140	60
P. 596141	60
P. 596142	60
P. 596143	60
P. 596144	60
P. 596145	60
P. 596146	60
P. 596147	60
P. 596148	60
P. 596149	60



Recorded Holder
GULF MINERALS

Township ~~XXXX~~
GEARY, LOVELAND, MAHAFFY, MOBERLY, REID, THORBURN AND WILHELMINA.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic <u>nil</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days	See attached lists.
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

No credit for electromagnetic survey as maps not provided as required by letters of January 25, 1983 and July 11, 1983.

Recorded Holder GULF MINERALS
Township or XXX GEARY, LOVELAND, MAHAFFY, MOBERLY, REID, THORBURN AND WILHELMINA.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer <u>24</u> _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	for each claim as shown on the attached lists except those claims listed below.

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

<input checked="" type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> Insufficient technical data filed
P 530053-69 597449 596235 596185	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:



Ministry of
Natural
Resources

Sept 15, 1983

Your file: #114

1983 08 31

Our file: 2,4673

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

7/29
S. Hurst:sc

Encls:

cc: Gulf Minerals Canada Limited
Suite 1400
110 Yonge Street
Toronto, Ontario
M5C 1T4 Attn: Mr. S.D. Robinson.

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

845

FILE



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1983 08 31

2.4673

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

July 11, 1983

REGISTERED

2.4673

Gulf Minerals Canada Limited
Suite 1400
110 Yonge Street
Toronto, Ontario
M5C 1T4

Dear Sirs:

RE: Geophysical (Electromagnetic & Magnetometer)
Survey submitted on Mining Claims P 515521 et
al in the Townships of Geary, Loveland, Mahaffy
Moberly, Reid, Thorburn and Wilhelmina.

Enclosed is a copy of our letter dated January 25, 1983
requesting additional information for the above mentioned survey.

Unless you can provide the required data by July 22, 1983, the
Mining Recorder will be directed to cancel the work credits
recorded on April 8, 1982.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

S. Hurst:sc

Encls:

cc: Mining Recorder
Timmins, Ontario

1983 01 25

2.4673

Gulf Minerals Canada Limited
Suite 1400
110 Yonge Street
Toronto, Ontario
M5C 1T4

Attention: Mr. S. Brower.

Dear Sirs:

RE: Geophysical (Electromagnetic & Magnetometer)
Survey submitted on Mining Claims P 515521 et al
in the Townships of Geary, Loveland, Mahaffy,
Moberly, Reid, Thorburn and Wilhelmina

Enclosed are all the EM maps (in duplicate) for the above mentioned survey. Please plot the raw data at each station point and return the maps to this office.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr:sc

Encls:

cc: Mining Recorder
Timmins, Ontario

Mining Lands Comments

EM maps need raw readings
Approved not confirmed

To: Geophysics *Mr Barlow*

Comments
EM maps need raw readings

Approved Wish to see again with corrections Date Signature

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections Date Signature

To: Geochemistry

Comments *UD*

Approved Wish to see again with corrections Date Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1360)

1982 04 13

2.4673

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical
(Electromagnetic & Magnetometer) Survey submitted under Special
Provisions (credit for Performance and Coverage) on Mining Claims
P 515521 et al in the Townships of Geary, Loveland, Mahaffy,
Moberly, Reid, Thornburn and Wilhelmina.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

J. Skura/amc

cc: Gulf Minerals Canada Limited
Toronto, Ontario

cc: S.D. Robinson
Downsview, Ontario

Gulf Minerals Canada Limited

SUITE 1400, 110 YONGE STREET, TORONTO, ONTARIO M5C 1T4. (416) 362-6825

April 5, 1982.

Mr. Fred W. Matthews,
Ministry of Natural Resources,
Room 6450,
Whitney Block,
Queen's Park,
Toronto, Ontario.

RECEIVED

APR - 7 1982

MINING LANDS SECTION

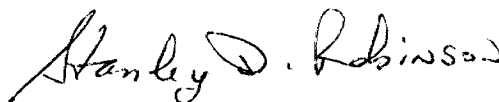
Dear Mr. Matthews:

Enclosed herewith are two copies of a magnetometer and electro-magnetic survey dated March, 1982, performed by Techterrex Inc., (Omeme, Ontario) for Gulf Minerals Canada Limited (Toronto, Ontario) on property in Geary, Loveland, Mahaffy, Moberly, Reid, Thorburn and Wilhelmina Townships. A property location map and Technical Data statement are included in each copy of the report.

The above mentioned report is being filed in duplicate by the undersigned for 9,140 days of assessment credits to be distributed as outlined in Table I of the report.

Would you please acknowledge receipt of the report and address all correspondence to Mr. S. Brower.

Yours truly,



Stanley D. Robinson
Project Geologist

SDR/js

Encl.

cc S. R. Brower

RECEIVED

APR - 7 1982

MINING LANDS SECTION



2.4673

#114

1983 09 16

2.4673

Mr. William L. Good
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer)
Survey on mining claims P 515521 et al in the
Townships of Geary, Loveland, Mahaffy, Moberly,
Reid, Thorburn and Wilhelmina

The Geophysical (Electromagnetic and Magnetometer) Survey
assessment work credits as listed with my Notice of Intent
dated August 31, 1983, have been approved as of the above
date.

Please inform the recorded holder of these mining claims
and so indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

S. Hurst:mc

Encl.

cc: Gulf Minerals Canada Limited
Suite 1400
110 Yonge Street
Toronto, Ontario
M5C 1T4

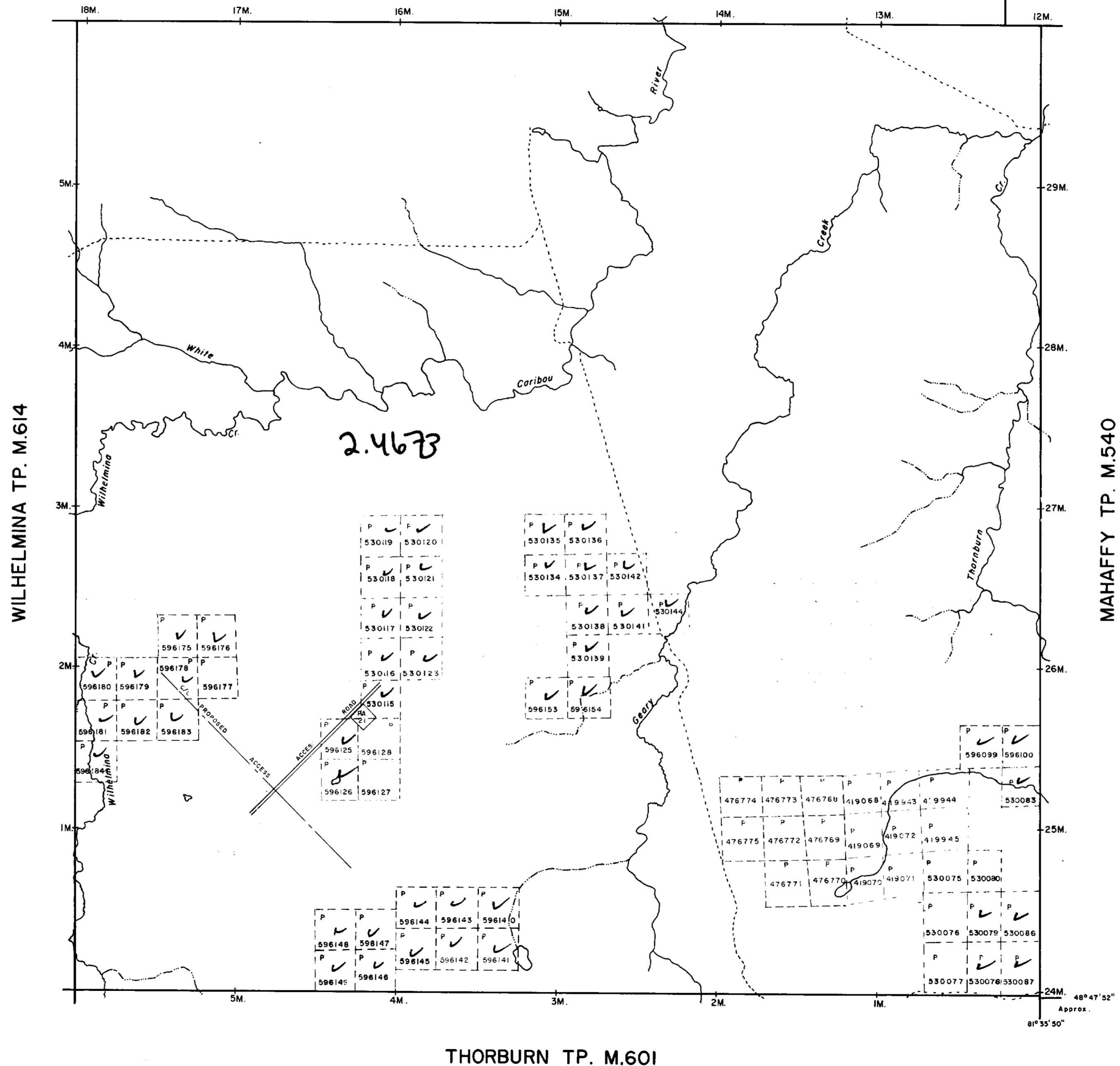
cc: Resident Geologist
Timmins, Ontario

NOTES

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

DATE OF ISSUE
DEC 16 1982
Ministry of Natural Resources
TORONTO

KINGSMILL TP. M.521



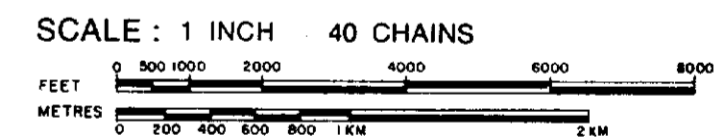
THORBURN TP. M.601

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	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊕



ACRES	HECTARES
40	16

TOWNSHIP
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



MOBERLY TWP.

PORCUPINE MINING DIVISION

DISTRICT OF COCHRANE.

Scale, 40 chains to an inch.

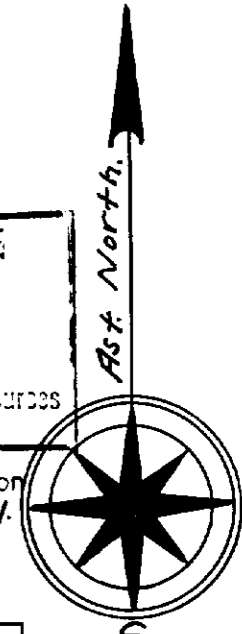
DATE OF ISSUE

DEC 10 1982

Ministry of Natural Resources
TORONTO

NOTE

400' Surface Rights Reservation
around all Lakes and Rivers.

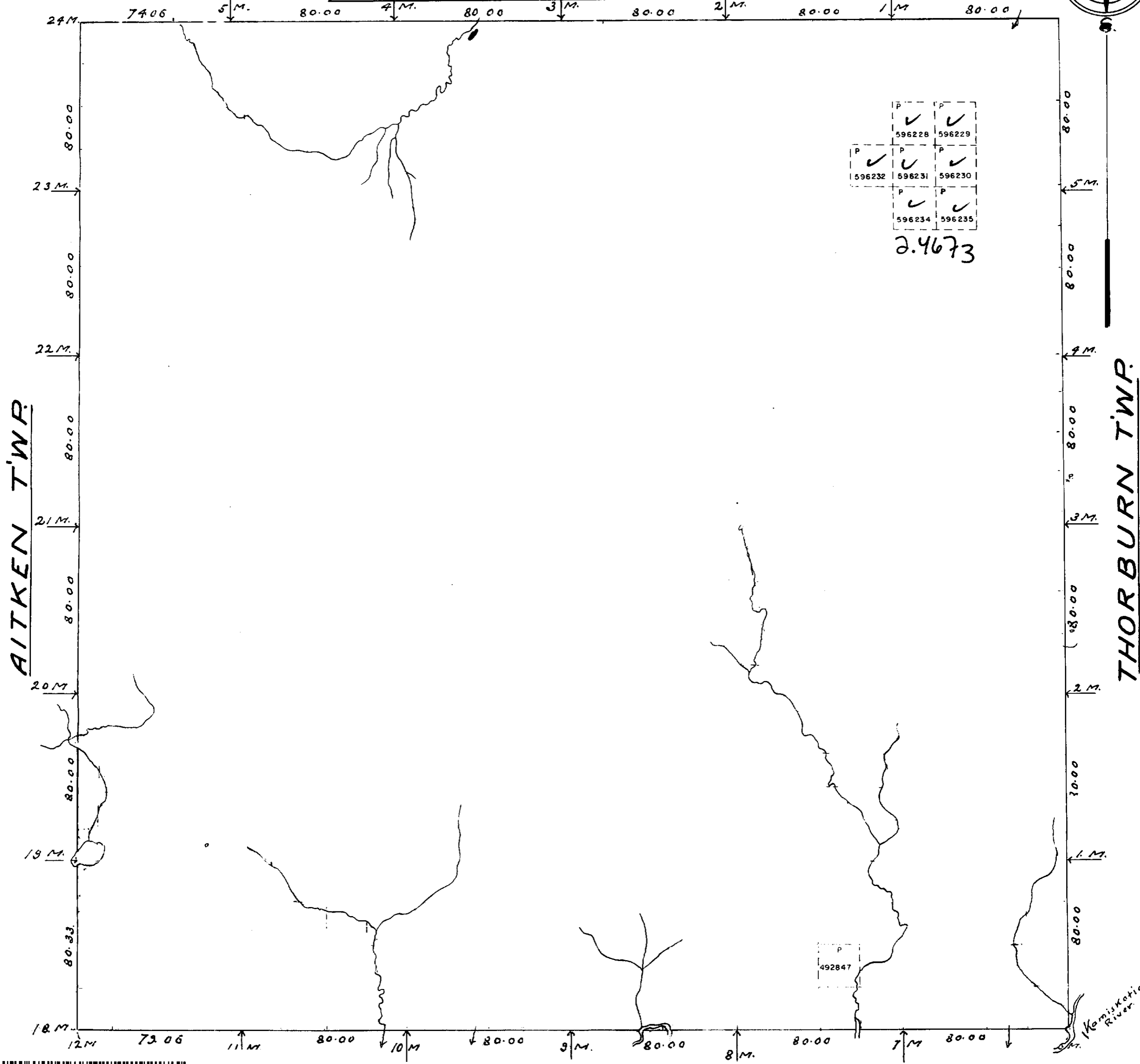


LEGEND

- CANCELLED
- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY

- C.
- Ⓟ
- C.S.
- Ⓛ
- LOC.
- L.O.
- M.R.O.
- S.R.O.

WILHELMINA TWP.



P	✓	P	✓
596228		596229	
P	✓	P	✓
596232		596231	
P	✓	P	✓
596234		596235	

2.4673

P
492847



BYERS TWP.

Thorburn Twp. (M.601)

THE TOWNSHIP OF
LOVELAND

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	* *
MINES	Ⓜ
CANCELLED	C.

NOTES

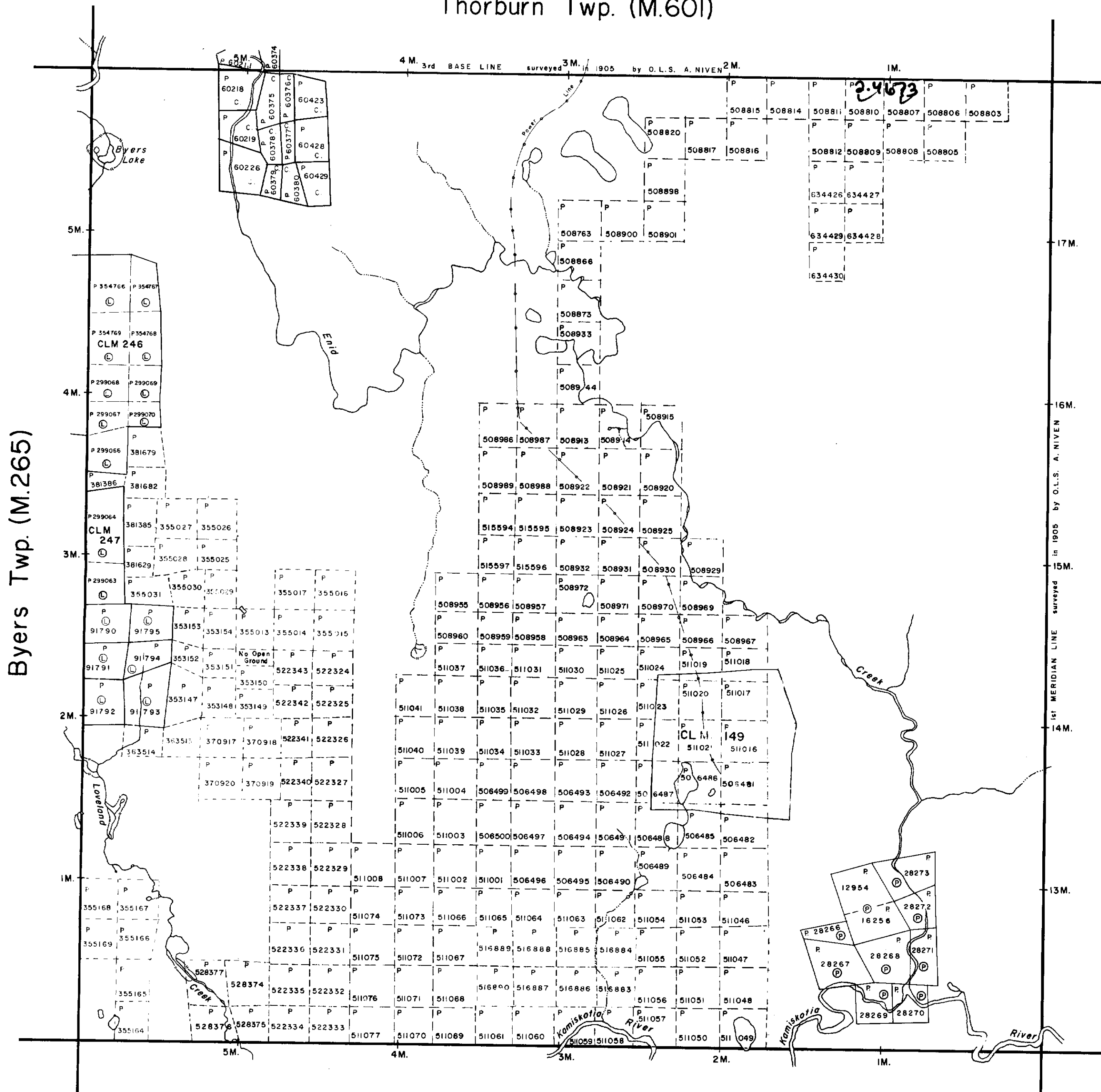
400' Surface Rights Reservation along the shores of all lakes and rivers

This township lies within the Municipality of CITY of TIMMINS.

DATE OF ISSUE
DEC 10 1982
Ministry of Natural Resources
TORONTO

PLAN NO. M-293

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



42A135E0013 2.4673 GEARY

THORBURN

PORCUPINE MINING DIVISION
 DISTRICT OF COCHRANE

M.601

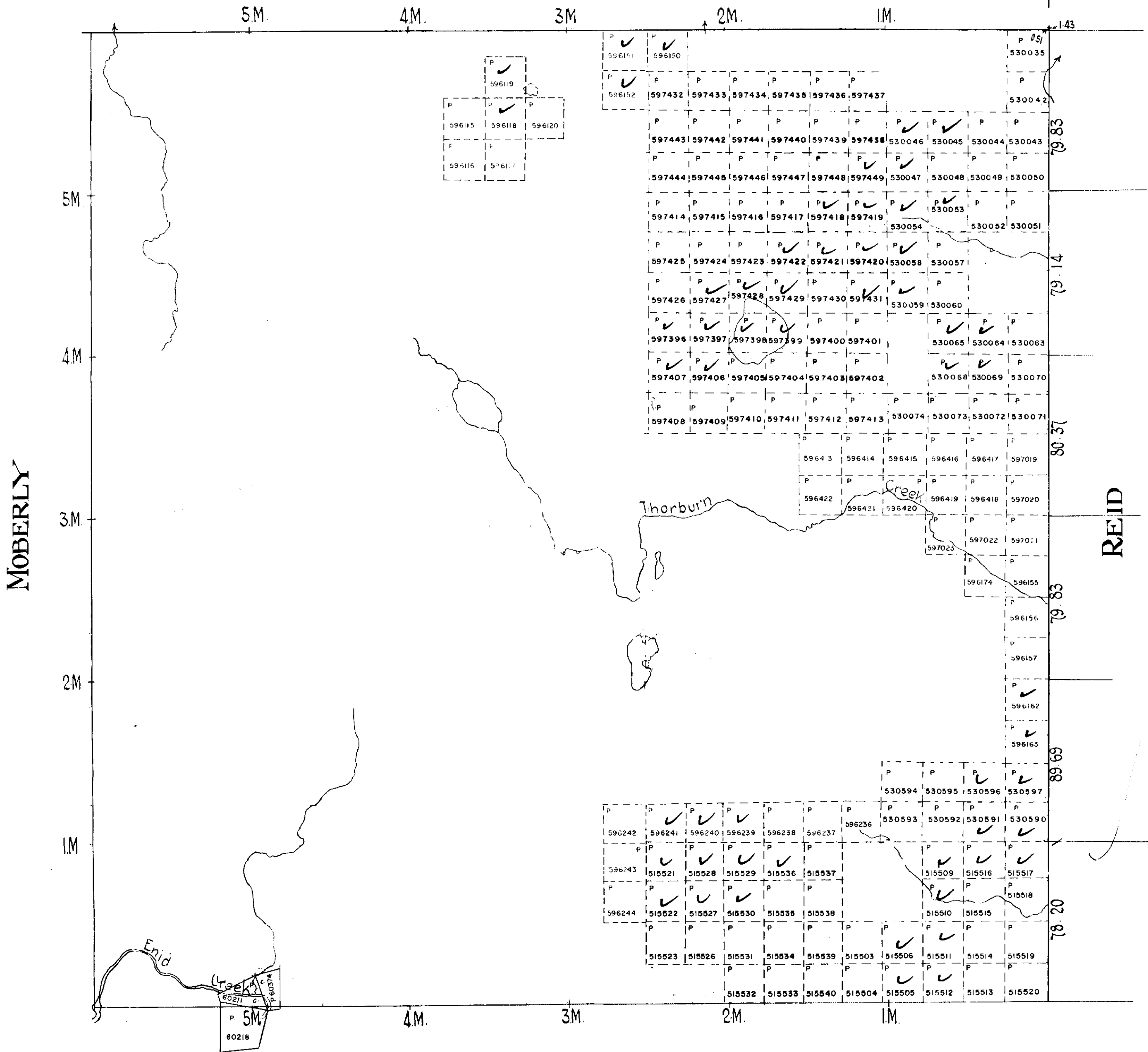
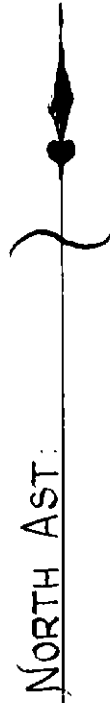
DATE OF ISSUE
 DEC 10 1982
 Ministry of Natural Resources
 TORONTO

Scale - 40 Chains = 1 Inch

NOTE

400' Surface Rights Reservation
 around all Lakes and Rivers.

GEARY



42A13SE0013 2.4673 GEARY

WILHELMINA

PORCUPINE MINING DIVISION
DISTRICT OF COCHRANE

Scale - 40 Chains = 1 Inch

DATE OF ISSUE
DEC 16 1982
Ministry of Natural Resources
TORONTO

NOTE

400' Surface Rights Reservation
around all Lakes and Rivers.

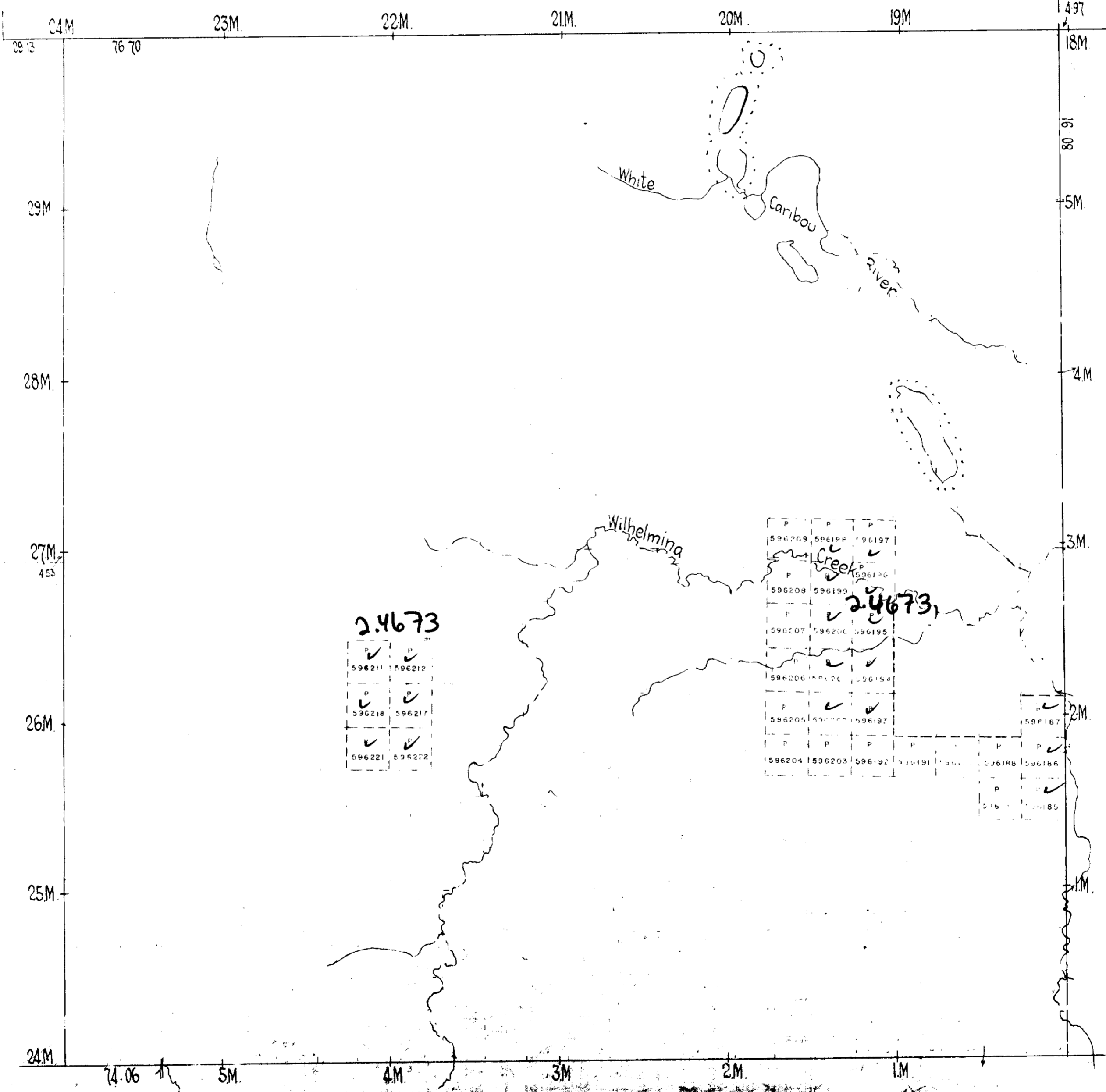
KIRKLAND

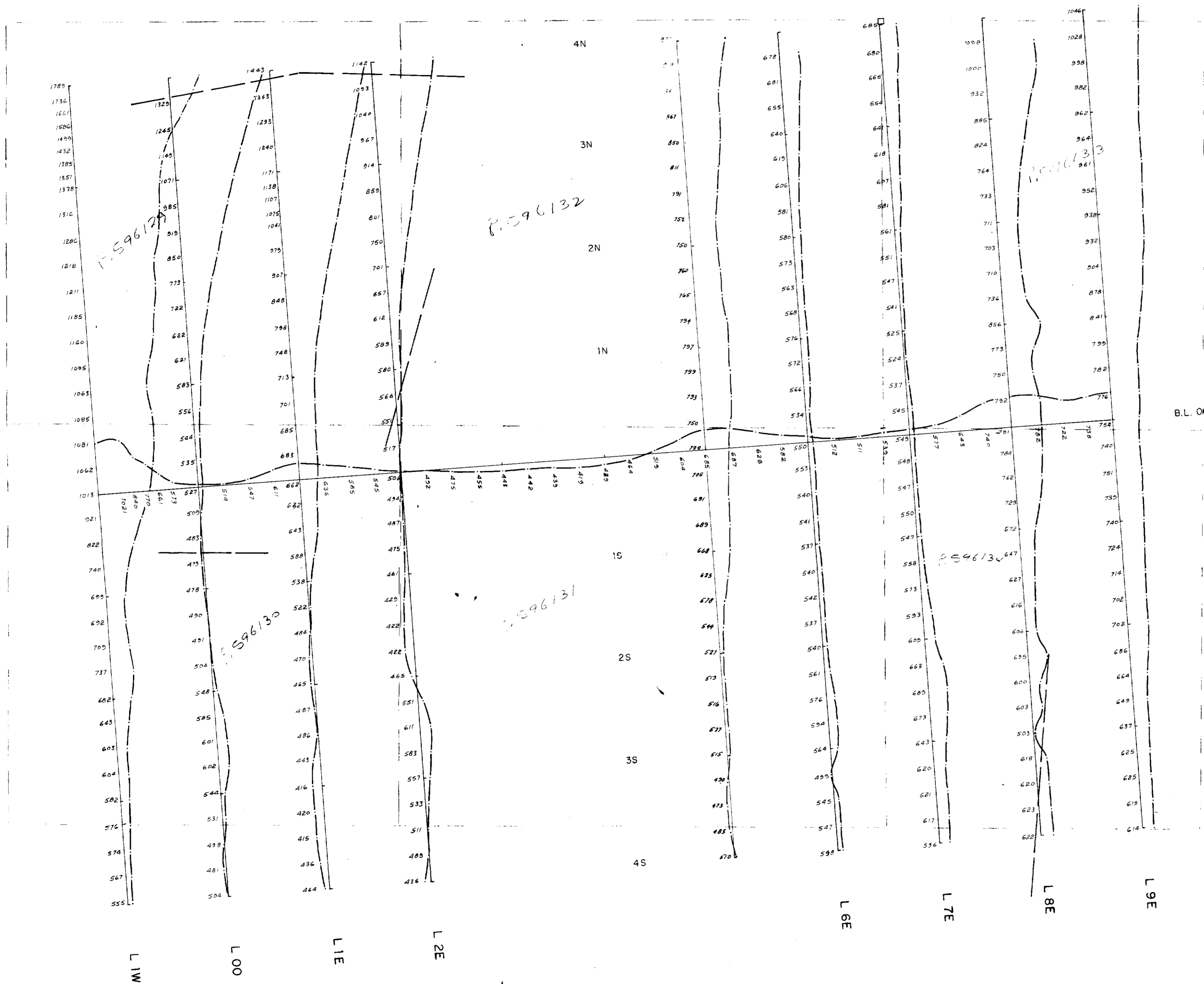
OKE

AITKEN

GEARY

North Ast





B.L. 00

LEGEND

Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile scale 1cm = 250gammas
 (base level 59,500 B)

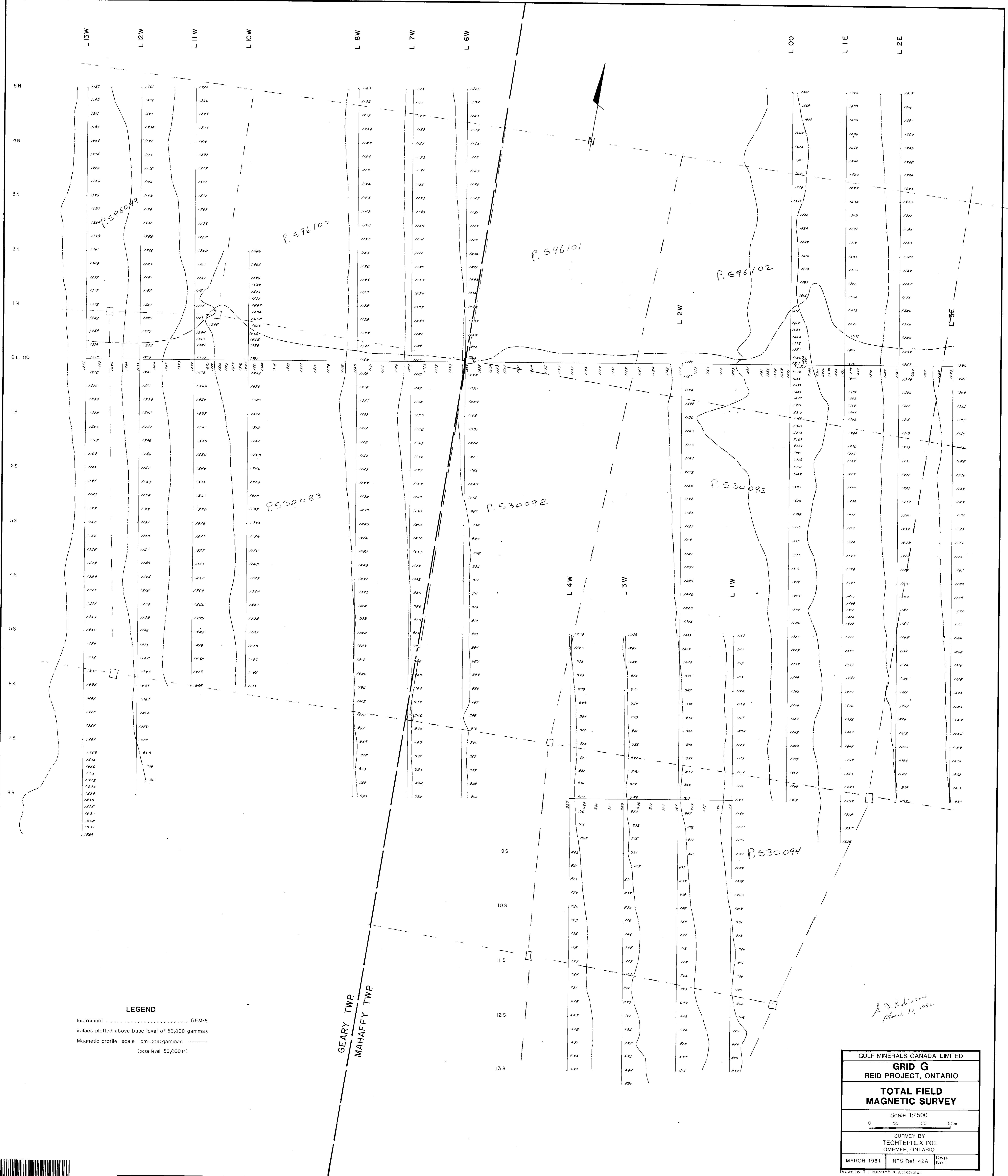
*S.D. Robinson
 March 12, 1982*

MAHAFFY TWP.

GULF MINERALS CANADA LIMITED		
GRID F		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No. :

Drawn by R. T. Marcroft & Associates





LEGEND

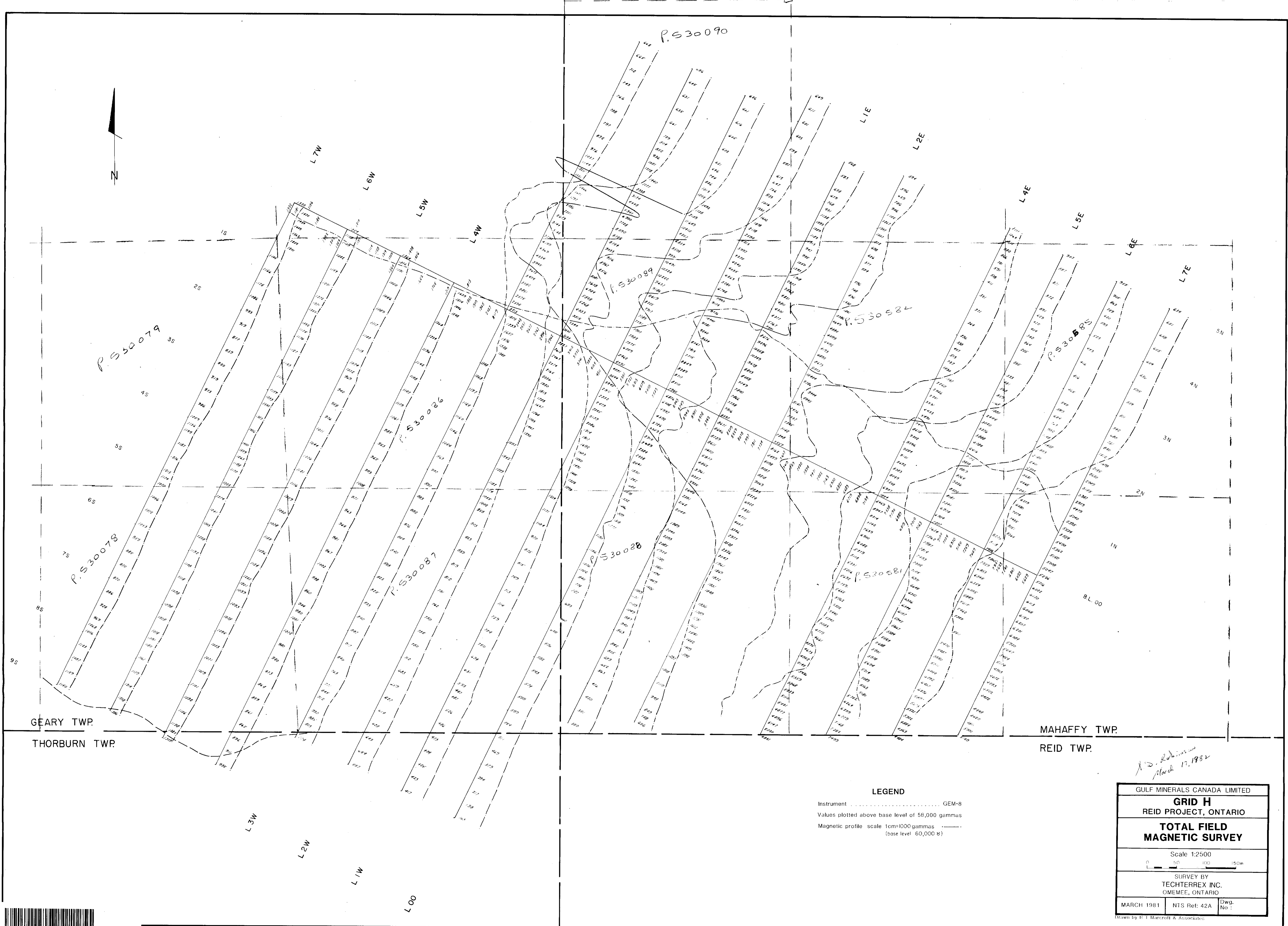
Instrument GEM-8
 Values plotted above base level of 58,000 gammas
 Magnetic profile scale 1cm=200gammas
 (base level 59,000γ)

GEARY TWP.
 MAHAFFY TWP.

A. D. Johnson
 March 17, 1984

GULF MINERALS CANADA LIMITED		
GRID G		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
0 50 100 150m		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	DWG. No. :
Drawn by R. I. Macroft & Associates		





GEARY TWP.
THORBURN TWP.

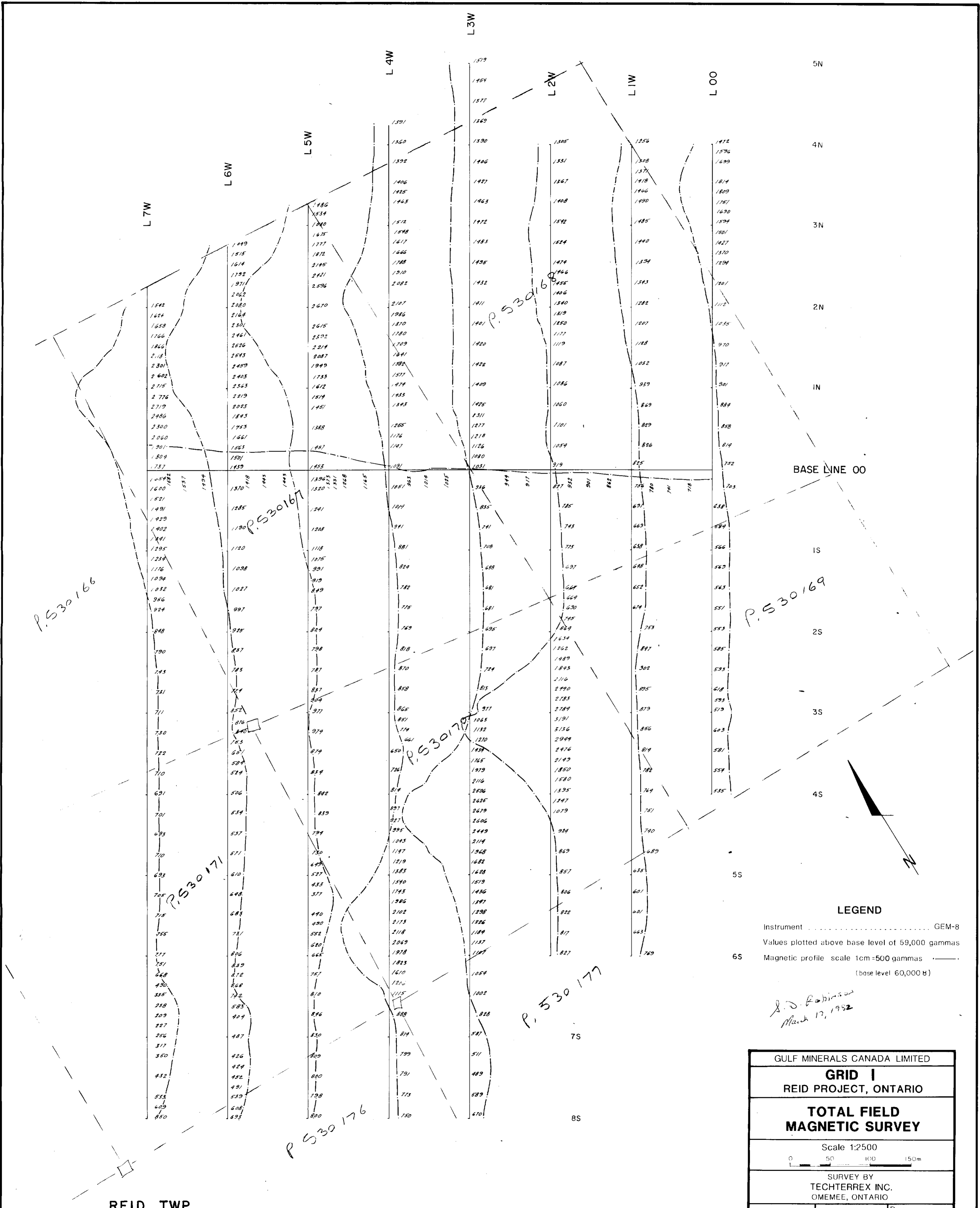
MAHAFFY TWP.
REID TWP.

LEGEND

Instrument GEM-8
Values plotted above base level of 58,000 gammas
Magnetic profile scale 1cm=1000 gammas (base level 60,000 γ)

A.D. Robinson
March 17, 1982

GULF MINERALS CANADA LIMITED		
GRID H		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	N1S Ref: 42A	Dwg. No.:
Drawn by R. J. Macroft & Associates		



5N
4N
3N
2N
IN
1S
2S
3S
4S
5S

BASE LINE 00

LEGEND

Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 6S Magnetic profile scale 1cm=500 gammas
 (base level 60,000 G)

S.D. Robinson
 March 17, 1982

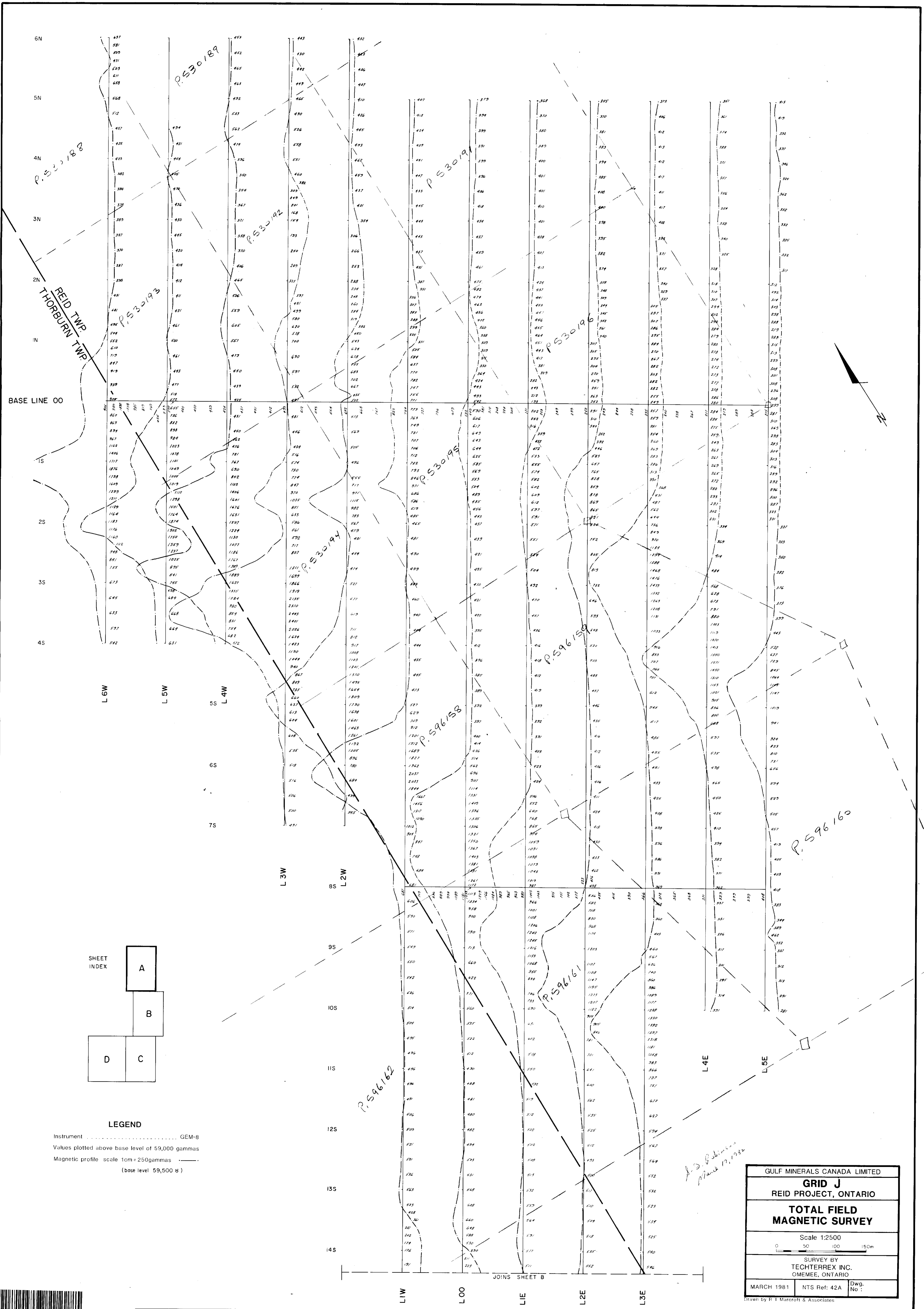
GULF MINERALS CANADA LIMITED		
GRID I		
REID PROJECT, ONTARIO		
TOTAL FIELD		
MAGNETIC SURVEY		
Scale 1:2500		
0 50 100 150m		
SURVEY BY		
TECHTEREX INC.		
OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No: 1

Drawn by R. J. Marcroft & Associates

REID TWP

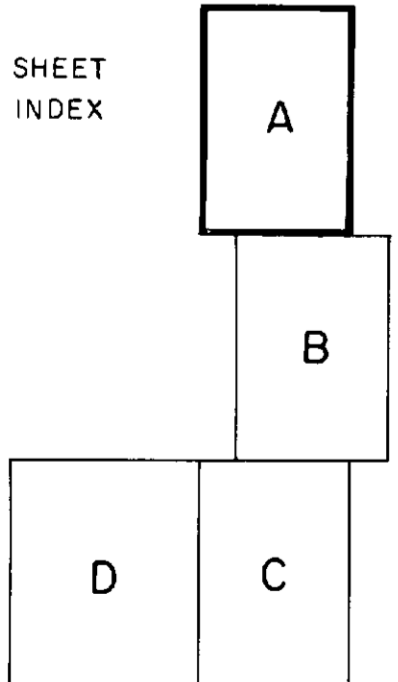


42A135E0013 2.4673 GEARY



REID TWP
THORBURN TWP

BASE LINE 00

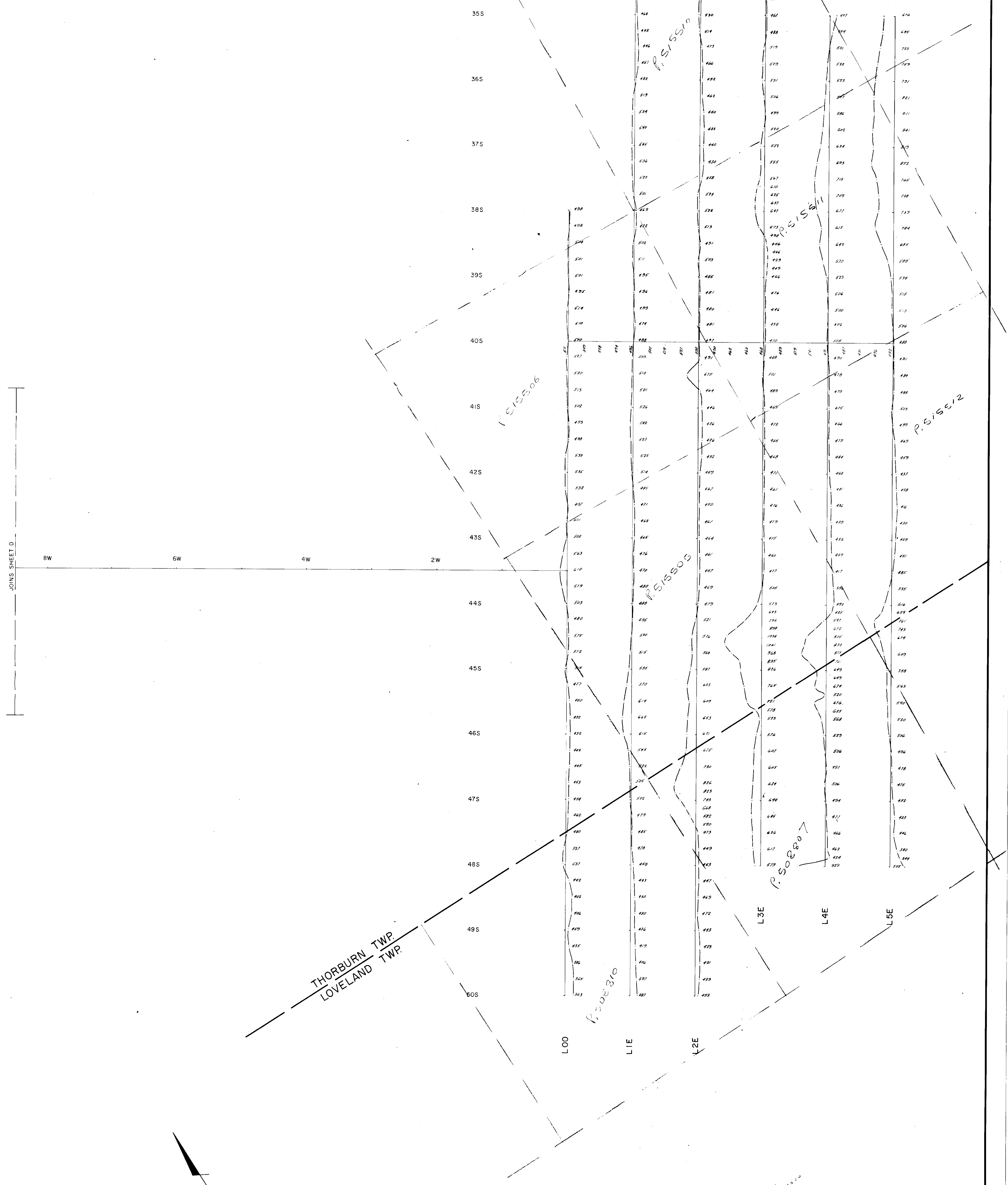


LEGEND
 Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile scale 1cm = 250gammas
 (base level 59,500 g)

GULF MINERALS CANADA LIMITED		
GRID J		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
0 50 100 150m		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No.:

Drawn by R T Marcroft & Associates



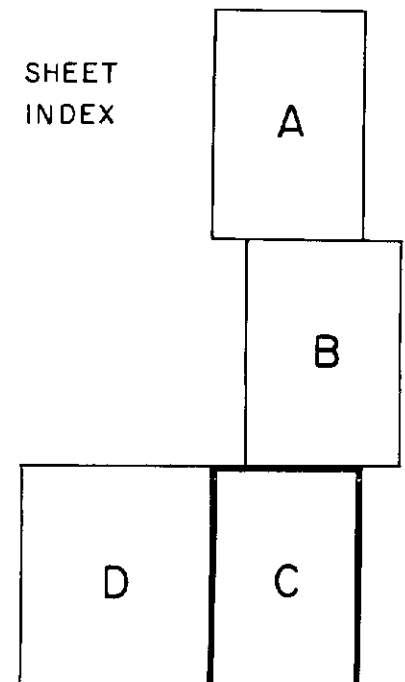


JOINS SHEET D

8W 6W 4W 2W

THORBURN TWP.
LOVELAND TWP.

L00 L1E L2E L3E L4E L5E



LEGEND

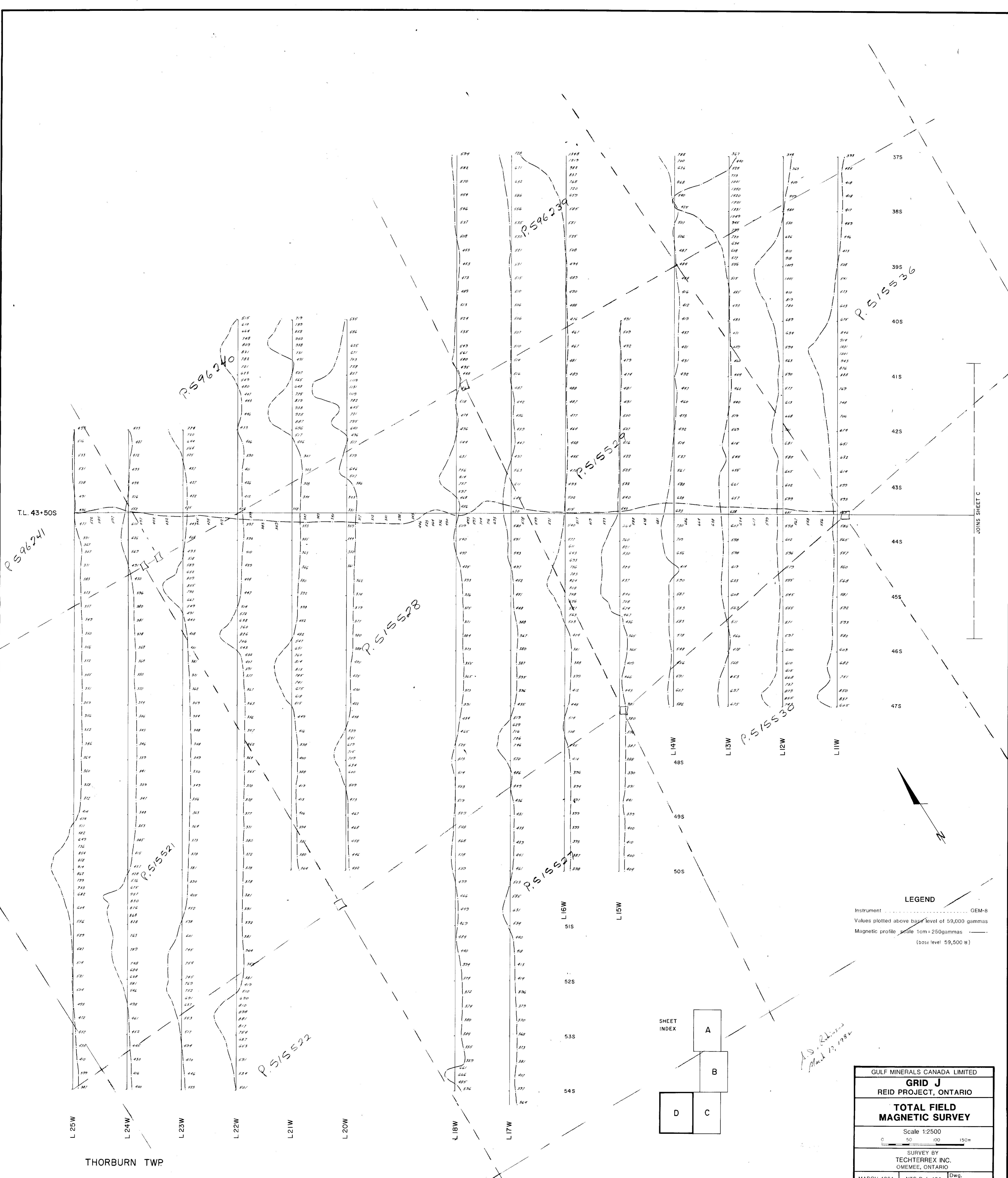
Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile scale 1cm = 250gammas (base level 59,500 g)

*A. D. Robinson
 March 17, 1982*

GULF MINERALS CANADA LIMITED		
GRID J		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
0 50 100 150m		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No:

Drawn by H. T. Marcroft & Associates





TL. 43+50S

P.515521

P.515520

P.515528

P.515529

P.515529

P.515536

P.515530

P.515521

P.515522

P.515521

L 25W

L 24W

L 23W

L 22W

L 21W

L 20W

L 18W

L 17W

L 16W

L 15W

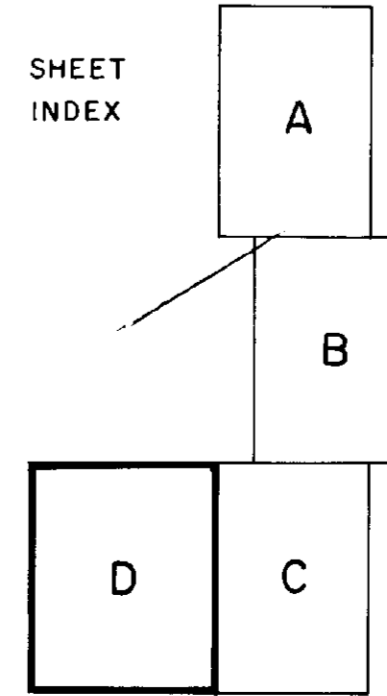
L 14W

L 13W

L 12W

L 11W

SHEET INDEX



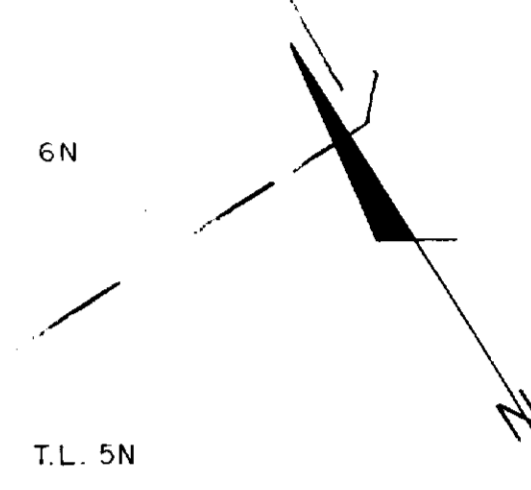
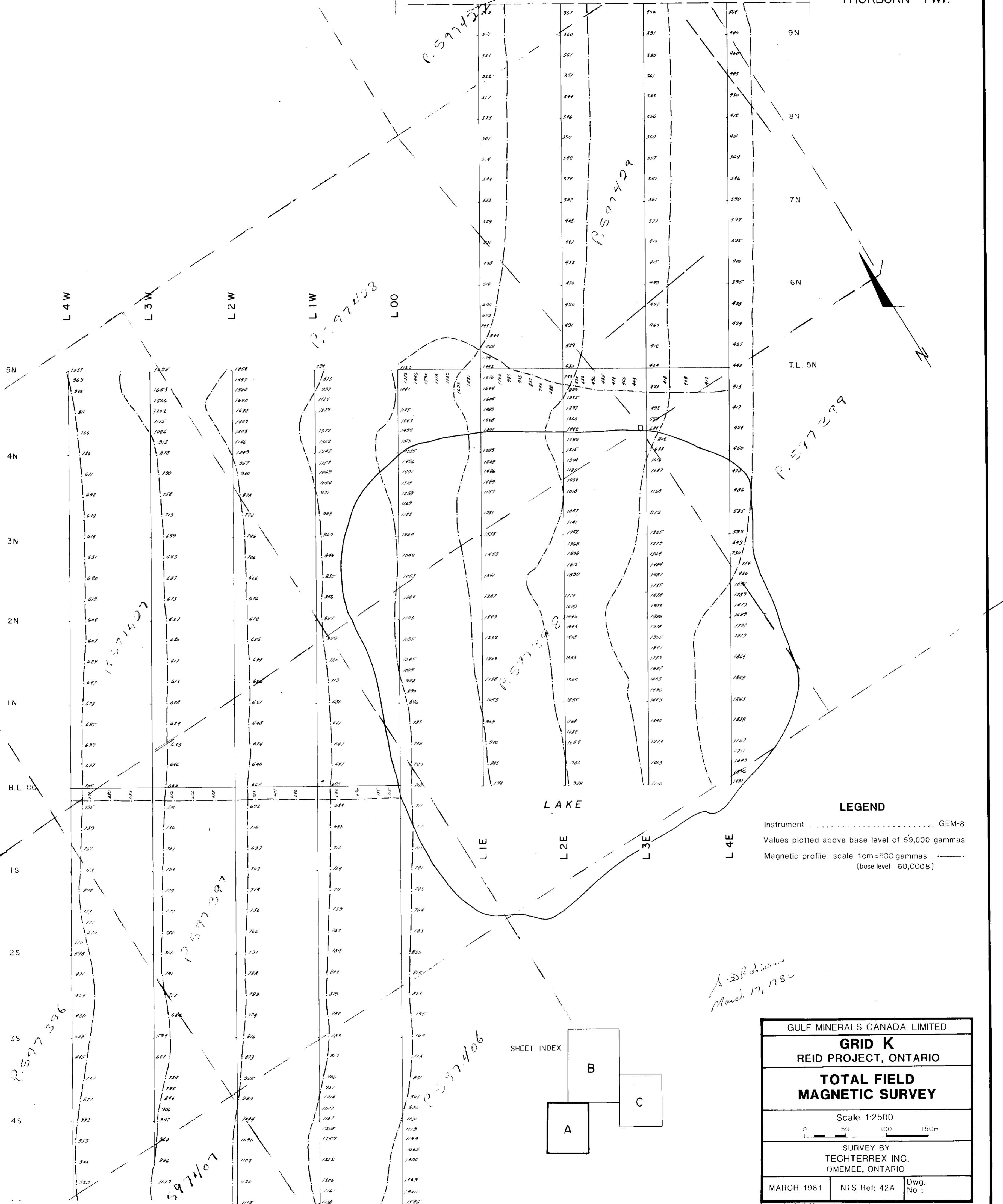
LEGEND

Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile Scale 1cm = 250gammas
 (base level 59,500 g)

GULF MINERALS CANADA LIMITED		
GRID J		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No.:

Drawn by R. I. Marcori & Associates



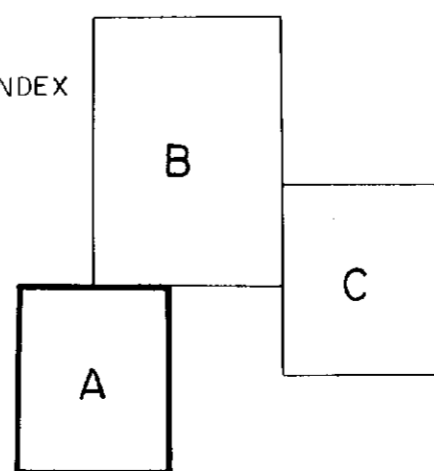


LEGEND

- Instrument GEM-8
- Values plotted above base level of 59,000 gammas
- Magnetic profile scale 1cm=500 gammas
(base level 60,000g)

*A. D. R. Johnson
March 17, 1982*

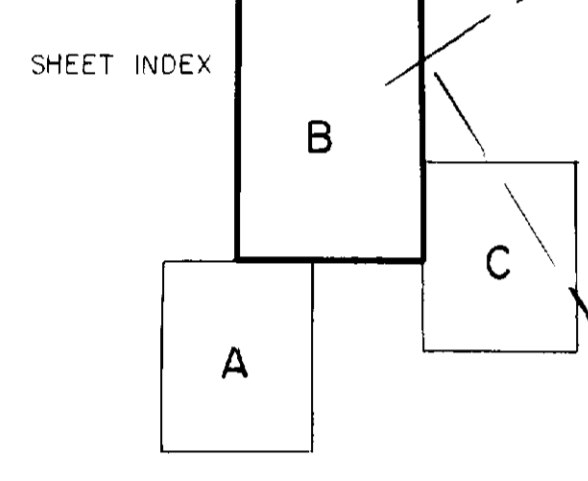
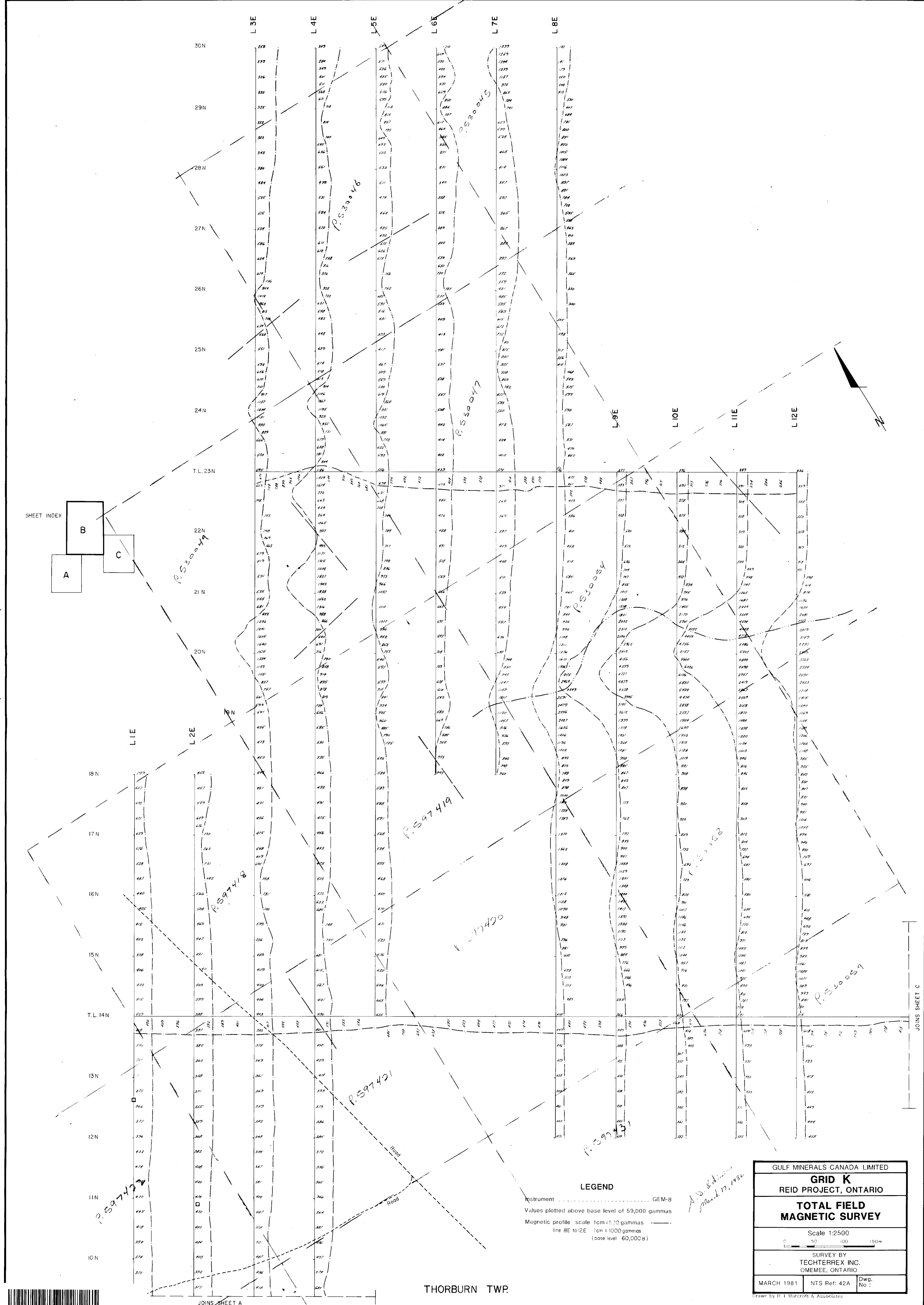
SHEET INDEX



GULF MINERALS CANADA LIMITED		
GRID K		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No :

Drawn by R. I. Marcroft & Associates





LEGEND

Instrument GEM-8

Values plotted above base level of 59,000 gammas

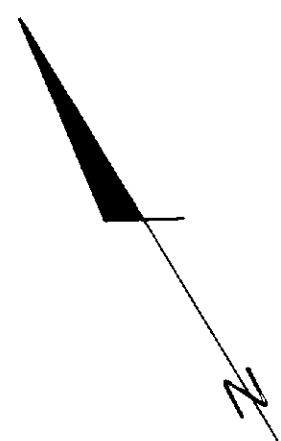
Magnetic profile scale 1cm = 5.00 gammas

line 8E to 12E 1cm = 1000 gammas
(base level 60,000 γ)

*A.S. Robinson
March 17, 1982*

GULF MINERALS CANADA LIMITED		
GRID K		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No. :
Drawn by H. J. Macroft & Associates		





L 19E

L 20E

L 21E

L 22E

16 N

15 N

TL. 14N

13 N

12 N

11 N

10 N

9 N

8 N

7 N

JOINS SHEET B

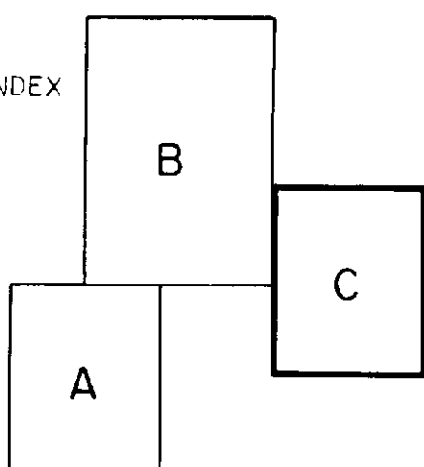
P. 530059

P. 530065

P. 530064

Road

SHEET INDEX



LEGEND

Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile scale 1cm=500 gammas
 (base level 60,000 γ)

GULF MINERALS CANADA LIMITED

GRID K
REID PROJECT, ONTARIO

TOTAL FIELD
MAGNETIC SURVEY

Scale 1:2500



SURVEY BY
TECHTERREX INC.
OMEMEE, ONTARIO

MARCH 1981 NTS Ref: 42A Dwg. No. :

Drawn by R. I. Marscroft & Associates

THORBURN TWP.

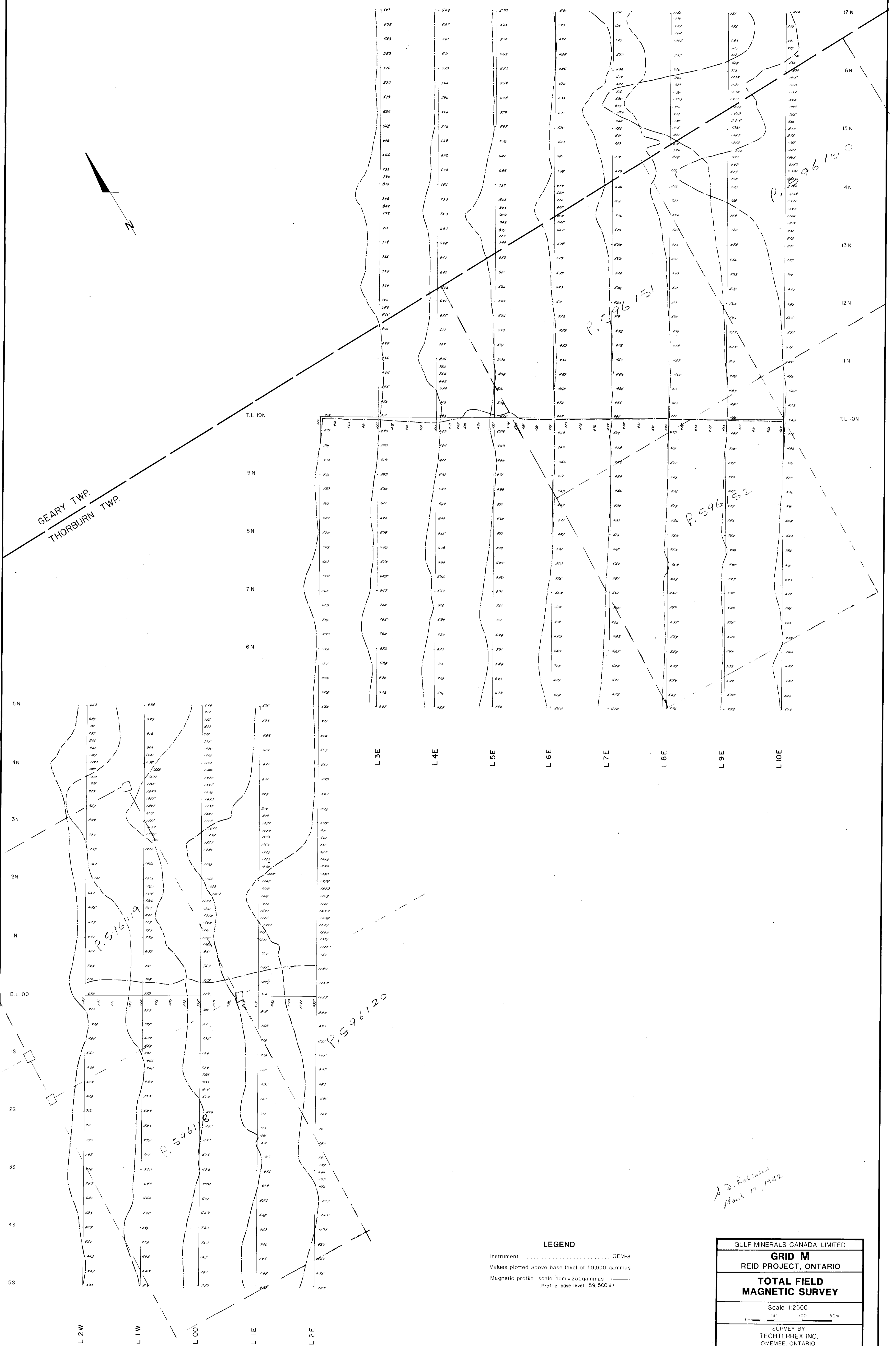
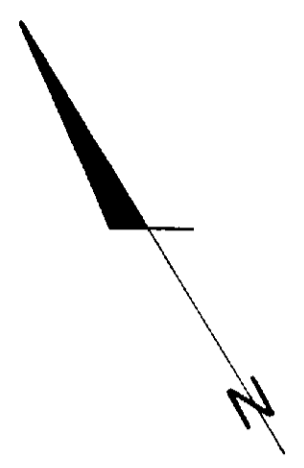


42A135E0013 2.4673 GEARY

360

2 4273

2



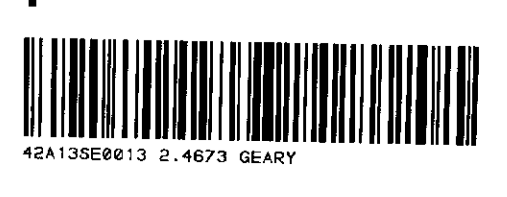
LEGEND

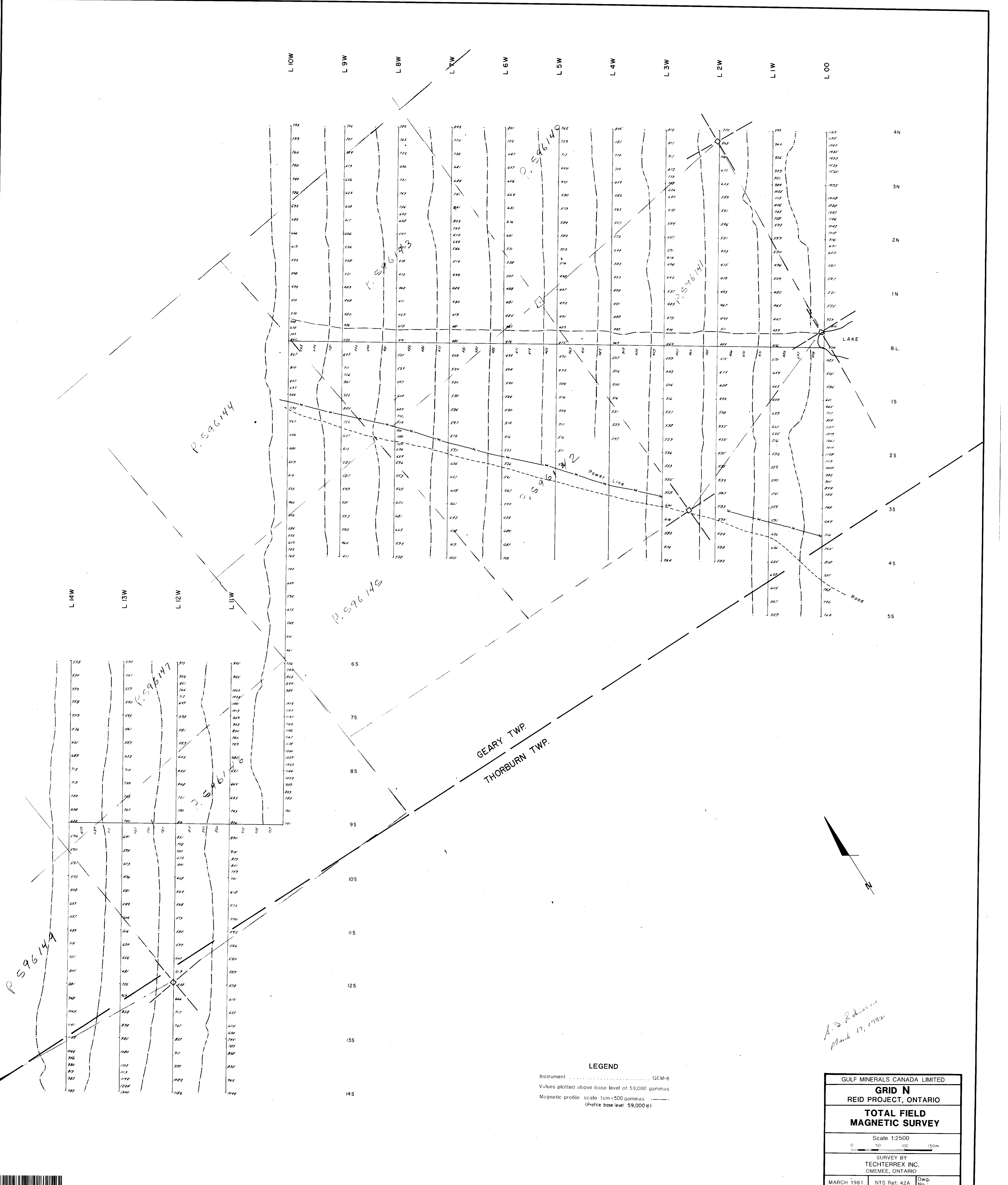
Instrument GEM-8
Values plotted above base level of 59,000 gammas
Magnetic profile scale 1cm=250gammas
(Profile base level 59,500g)

*A. D. Robinson
March 17, 1982*

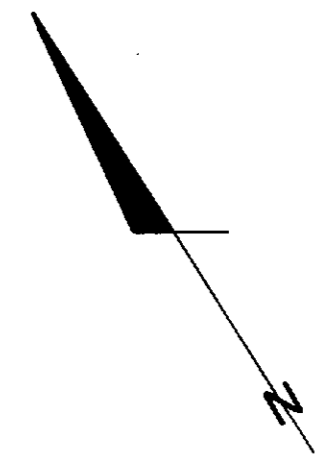
GULF MINERALS CANADA LIMITED		
GRID M		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No. :

Drawn by H. T. Marrett & Associates





GEARY TWP.
THORBURN TWP.



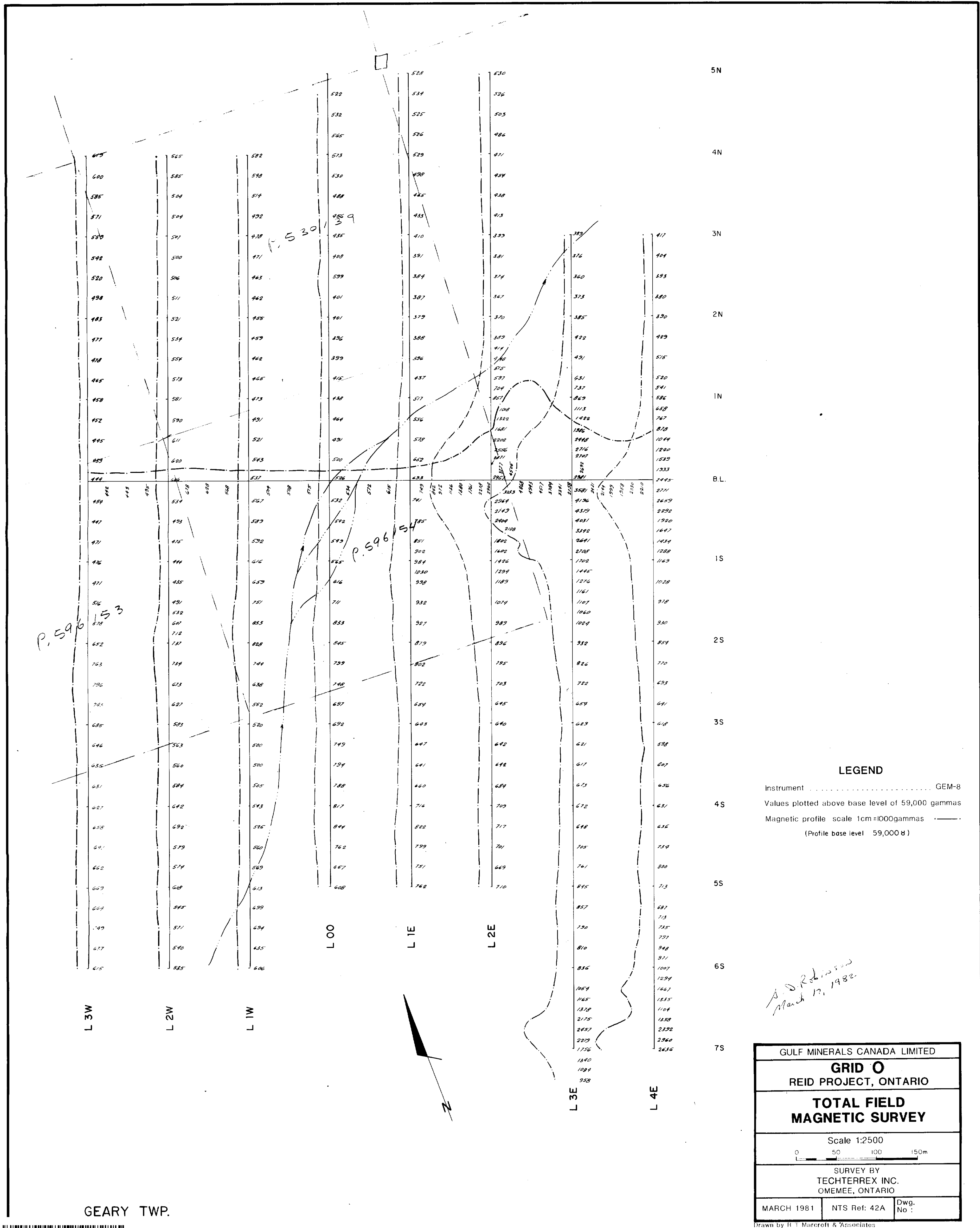
LEGEND

Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile scale 1cm = 500 gammas
 (Profile base level 59,000 g)

A. S. Robinson
 March 17, 1982

GULF MINERALS CANADA LIMITED		
GRID N		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
0 50 100 150m		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No.:





5N
4N
3N
2N
1N
B.L.
1S
2S
3S
4S
5S
6S
7S

LEGEND

Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile scale 1cm = 1000gammas
 (Profile base level 59,000 g)

*P.D. Robinson
 March 17, 1982*

GEARY TWP.

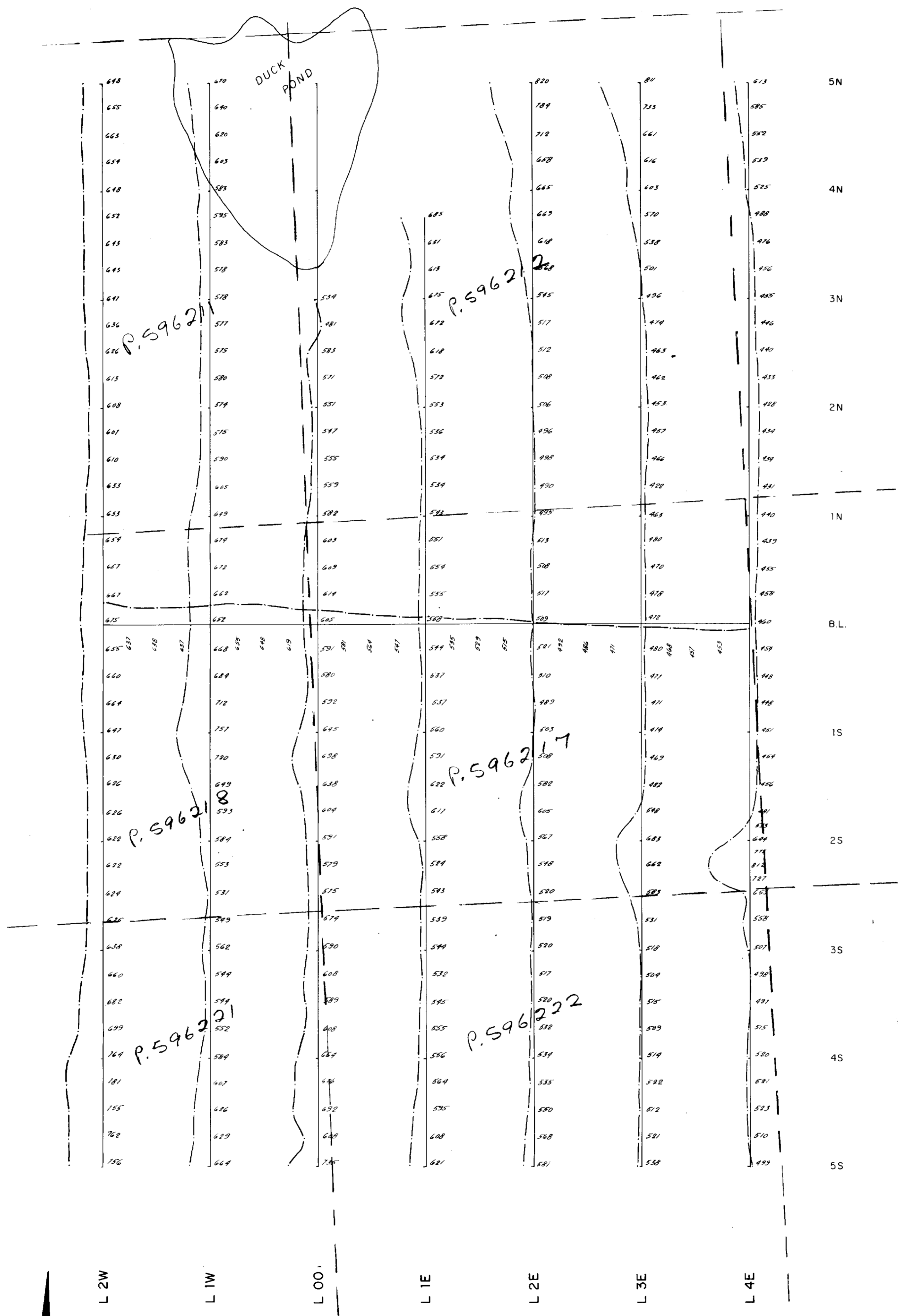
GULF MINERALS CANADA LIMITED		
GRID O		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No. :



42A13SE0013 2.4673 GEARY

390

24673



LEGEND

Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile scale 1cm = 200 gammas
 (Profile base level 59,500B)

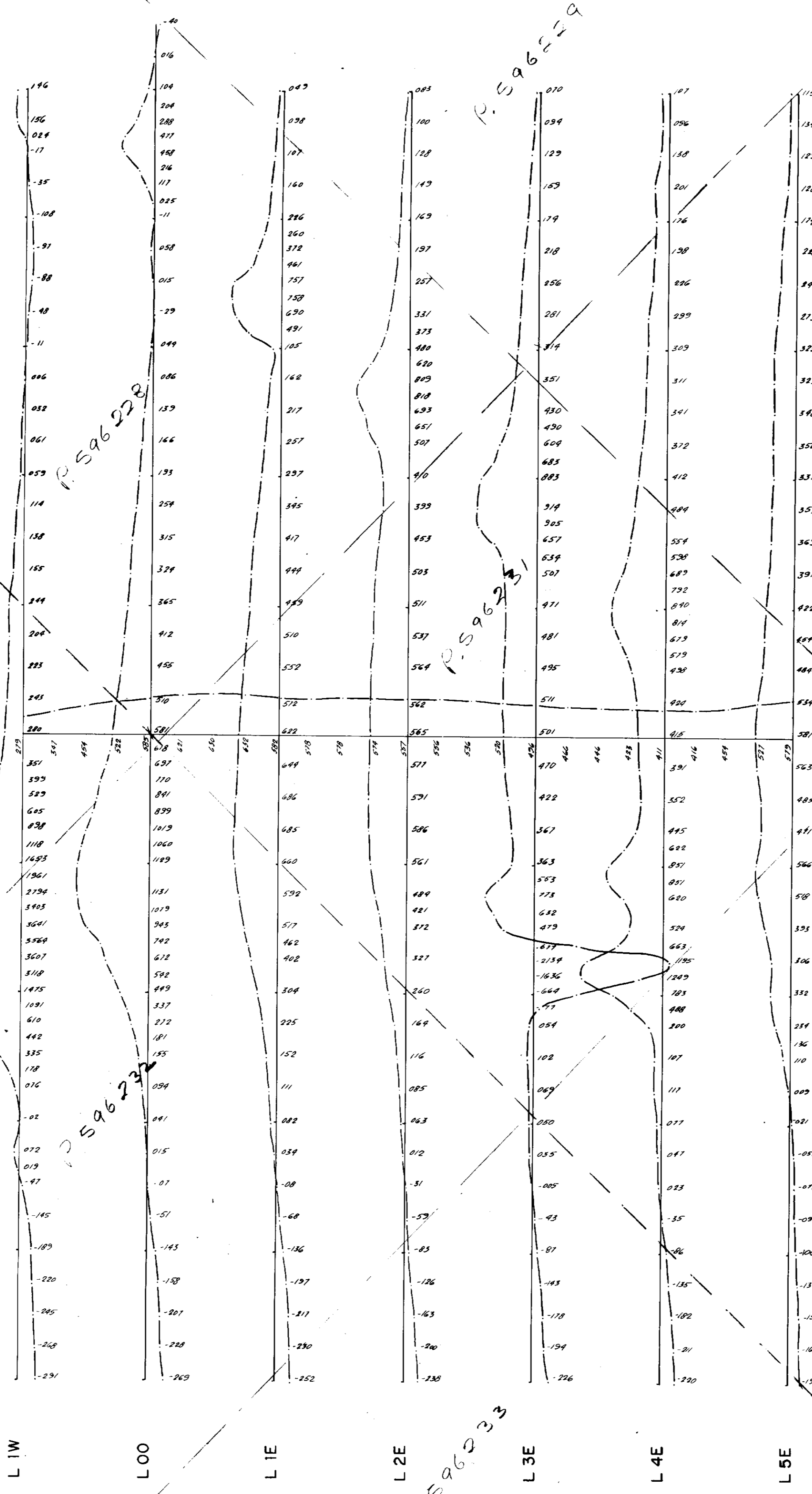
J. S. Robinson
 March 17, 1982

GULF MINERALS CANADA LIMITED		
GRID R		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
0 50 100 150m		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No :

Drawn by R. J. Macroft & Associates



5N
4N
3N
2N
1N
BL.
1S
2S
3S
4S
5S



LEGEND
 Instrument GEM-8
 Values plotted above base level of 60,000 gammas
 Magnetic profile scale 1cm=500gammas
 (Profile base level 60,000 g)

*J. Robinson
 March 17, 1982*

MOBERLY TWP.



GULF MINERALS CANADA LIMITED		
GRID T		
REID PROJECT, ONTARIO		
TOTAL FIELD MAGNETIC SURVEY		
Scale 1:2500		
SURVEY BY TECHTERREX INC. OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No :

Drawn by R. I. Marcroft & Associates

24673

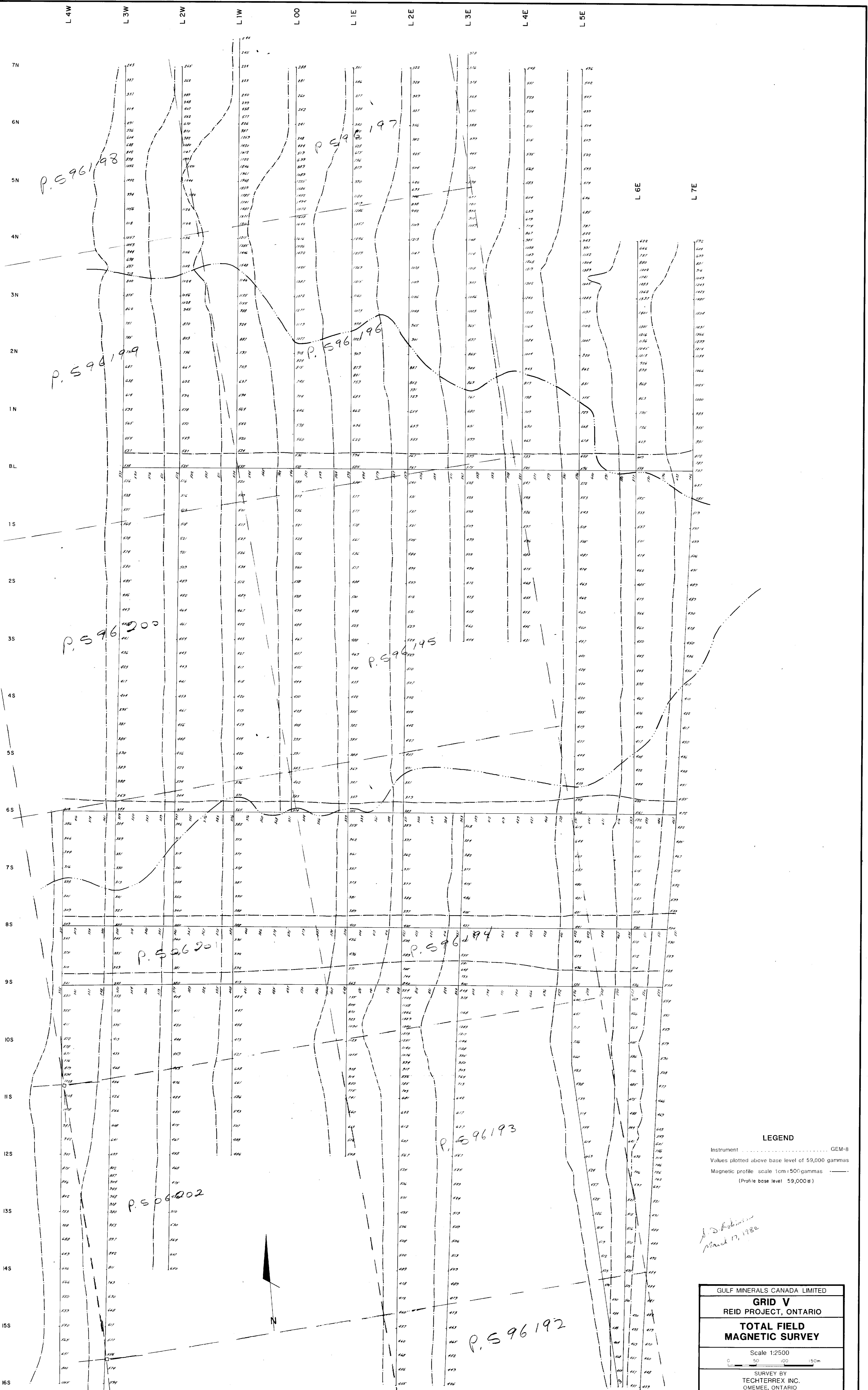


LEGEND

Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile scale 1cm = 500 gammas
 (base level 60,000 G)

*J.D. Robinson
 March 17, 1981*

GULF MINERALS CANADA LIMITED		
GRID U		
REID PROJECT, ONTARIO		
TOTAL FIELD		
MAGNETIC SURVEY		
Scale 1:2500		
SURVEY BY		
TECHTERREX INC.		
OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No: 1
Drawn by: J. T. Macroft & Associates		



WILHELMINA TWP.

LEGEND
 Instrument GEM-8
 Values plotted above base level of 59,000 gammas
 Magnetic profile scale 1cm=500gammas
 (Profile base level 59,000g)

*J. D. Robinson
 March 17, 1982*

GULF MINERALS CANADA LIMITED		
GRID V		
REID PROJECT, ONTARIO		
TOTAL FIELD		
MAGNETIC SURVEY		
Scale 1:2500		
0 50 100 150m		
SURVEY BY		
TECHERREX INC.		
OMEMEE, ONTARIO		
MARCH 1981	NTS Ref: 42A	Dwg. No.:

Drawn by R. T. Mircroft & Associates.

