



42A10SW0108 2.4324 MATHESON

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TEXASGULF CANADA LTD.

REPORT ON GEOPHYSICAL WORK

MATHESON TOWNSHIP

N.T.S.: 42-A-~~10~~/11

CLAIMS: P-585548 - P-585551

NOVEMBER, 1981

W.A. GASTEIGER

RECEIVED

NOV 25 1981

MINING LANDS SECTION

TEXASGULF CANADA LTD.
REPORT ON GEOPHYSICAL WORK
MATHESON TOWNSHIP
N.T.S.: 42-A-9/10

INTRODUCTION:

Geophysical surveys consisting of Proton Precession magnetometer and Horizontal Loop electromagnetic traverses were performed on a group of four contiguous claims located in the north half of Lot 8, Concession I, Matheson Township.

The only previous work recorded on this claim group was a drill hole by INCO Metals Limited drilled on what presently is claim P-585551. This hole was drilled to test a conductive zone detected by geophysical methods. A graphitic zone was intersected.

The claim group is located directly south of Highway 101 and is bounded on the west side by a lot road making access to the claim group quite simple.

SURVEY DETAILS:

Grid lines were cut in a due north orientation at 100 metre intervals. Stations were established every twenty metres along the lines. Horizontal Loop electromagnetic traverses were run using a 160 metre coil separation with values recorded every 40 metres. Magnetic readings were taken at 20 metre intervals along the lines.

SURVEY RESULTS:

The Horizontal Loop results show a major conductive zone trending east-west across the property at approximately 200 North. This appears to be the same zone that INCO Metals detected and tested. According to the INCO log the zone is graphitic with volcanics to the north and sediments to the south. On the average, the conductor has a width of 30 metres and has a conductivity thickness of approximately 35 mhos. Overburden depths are from 20 to 25 metres.

The magnetic survey results are fairly flat except for a 300 metre long magnetic high situated in the centre of the property. There is a very subtle difference in magnetics between volcanics immediately to the north of the conductor and the sediments immediately to the south. The sediments have background values 20 to 30 gammas higher than the volcanics. The zone of higher magnetic susceptibility in the centre of the property is probably due to a ultramafic horizon in the volcanic sequence.

CONCLUSIONS AND RECOMMENDATIONS:

The main conductive zone has been tested by INCO and certainly has no potential for massive sulphides. The graphitic horizon, however, may represent the contact on which gold deposits occur further to the west.

A program of overburden drilling should be run to check the various magnetic features as well as to detect any anomalous gold geochemical values in the till horizons immediately above bedrock.


W.A. Gasteiger



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)



42A10SW0108 2.4324 MATHESON

900

8108.00418

The Mining Act

0.4527

Type of Survey(s) Geophysical		Township or Area Matheson	
Claim Holder(s) Texasgulf Canada Ltd.		Prospector's Licence No. T-1	
Survey Company Texasgulf Canada Ltd.		Survey Dates (linecutting to office) Day Mo. Yr.	Total Miles of line Cut
Name and Address of Author (of Geo-Technical report) W. A. Gasteiger P.O. Box 1140, 571 Moneta Ave., Timmins, Ontario P4N 7H9			

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	EM Electromagnetic	20
	MAG 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)

Prefix	Mining Claim		Expend. Days Cr.	Prefix	Mining Claim		Expend. Days Cr.
	Number				Number		
P	585548		60				
	585549		60				
	585550		60				
	585551		60				

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

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.

Report Completed

Date of Report: Oct 6.81

Recorded Holder or Agent (Signature): *Will Gasteiger*

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
W.A. Gasteiger

P.O. Box 1140, 571 Moneta Ave., Timmins, Ontario

For Office Use Only

Total Days Cr. Recorded: 240

Date Recorded: Oct 8/81

Date Approved or Recorded: OCT 9 1981

Mining Recorder: *W. Gasteiger*

Regional Director: *W. Gasteiger*

Total number of mining claims covered by this report of work: 4

RECORDED
OCT 08 1981
Receipt No.

RECEIVED
OCT 22 1981
MINING LANDS SECTION

GEOPHYSICAL TECHNICAL DATA

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

Mag: 360 Mag 360
EM : 160 E.M.160
Number of Stations _____ Number of Readings _____
Station interval Mag: 20 metres EM: 40 metres Line spacing 100 metres
Profile scale 1cm = 10% (E.M.)
Contour interval 50 gammas (Mag)

MAGNETIC

Instrument Geometrics G-816 Proton Precession Magnetometer
Accuracy - Scale constant + 1 gamma
Diurnal correction method Baseline loops at 100 metres intervals
Base Station check-in interval (hours) to correct all base line values to base station at
Base Station location and value Line 0 (59396 gammas).
Subsequent line loops corrected to base line values.

ELECTROMAGNETIC

Instrument Apex Parametrics Max Min II
Coil configuration Coplanar
Coil separation 160 metres
Accuracy + 1%
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency 1777Hz (specify V.L.F. station)
Parameters measured In Phase and quadrature response of secondary field as a percentage of primary transmitted field.

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 _____

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L.D.

Mining Lands Comments

U.L.F. map - need raw data

To: Geophysics *Mr Barlow*

Comments

Approved Wish to see again with corrections

Date: *Oct 30/82* Signature: *R. Barlow*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections

Date: Signature:

To: Geochemistry

Comments

Approved Wish to see again with corrections

Date: Signature:

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

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December 14, 1981

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Office of the 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 and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P.585548 et al, in the Township of Matheson.

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: 416/965-1380

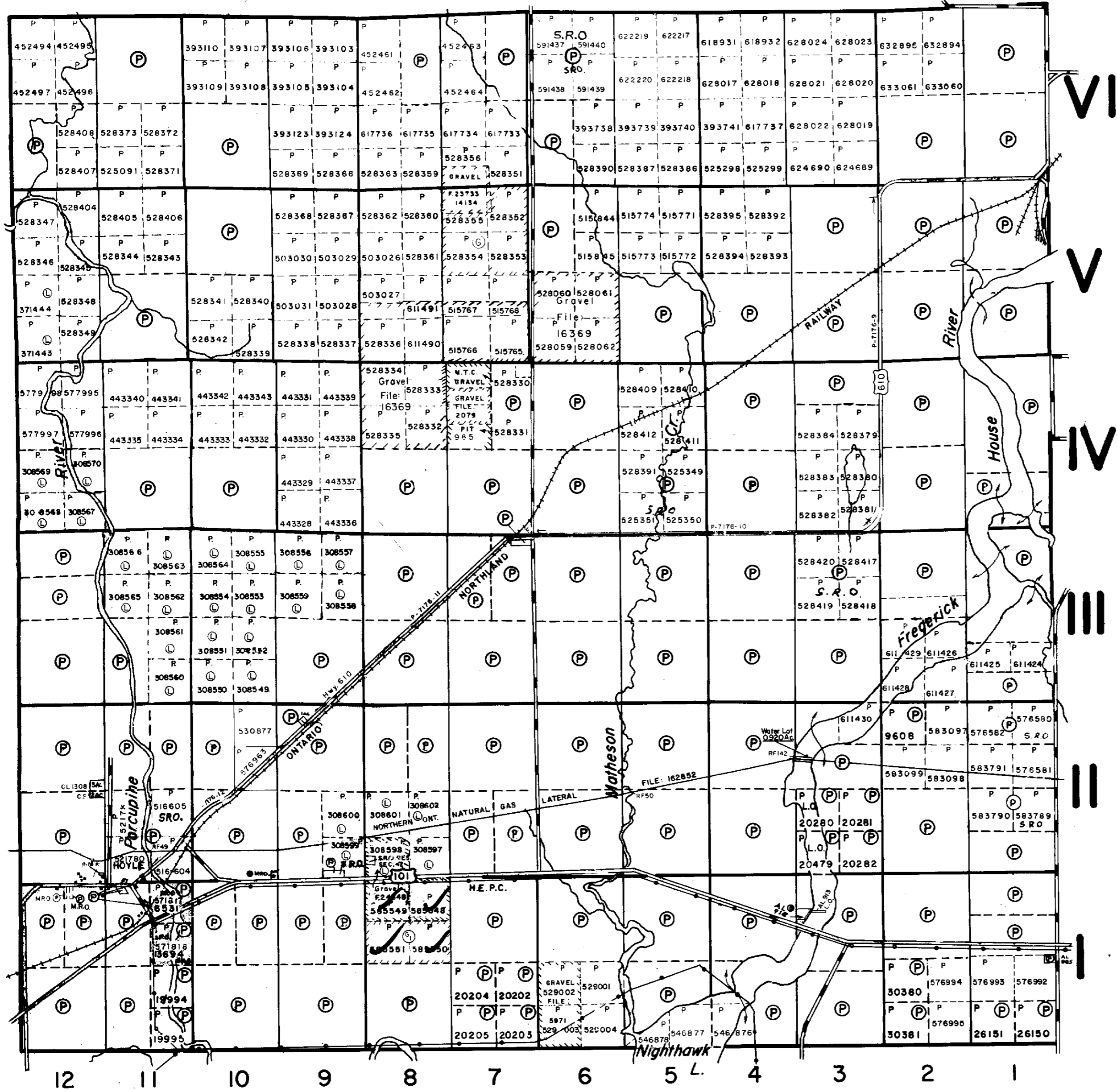
J. Skura/bk

cc: Texasgulf Canada Ltd.
Timmins, Ontario
Attention: W.A. Gasteiger

Evelyn Twp.

Hoyle Twp.

Cody Twp.



THE TOWNSHIP OF
OF
MATHESON

DISTRICT OF
COCHRANE
PORCUPINE
MINING DIVISION
SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (S) or (C.S.)
- LEASES (L)
- 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 MUSKIEG (—)
- MINES (—)

NOTES

Reserve Flooding Rights to 903' Contour to H.E.P.C. on Frederick House River.

400' Surface rights reservation around all lakes & rivers.

This township lies within the Municipality of CITY of TIMMINS.

RESERVATIONS:

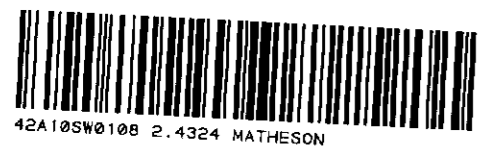
DATE OF ISSUE
MAR 10 1982
Ministry of Natural Resources
SAND AND GRAVEL

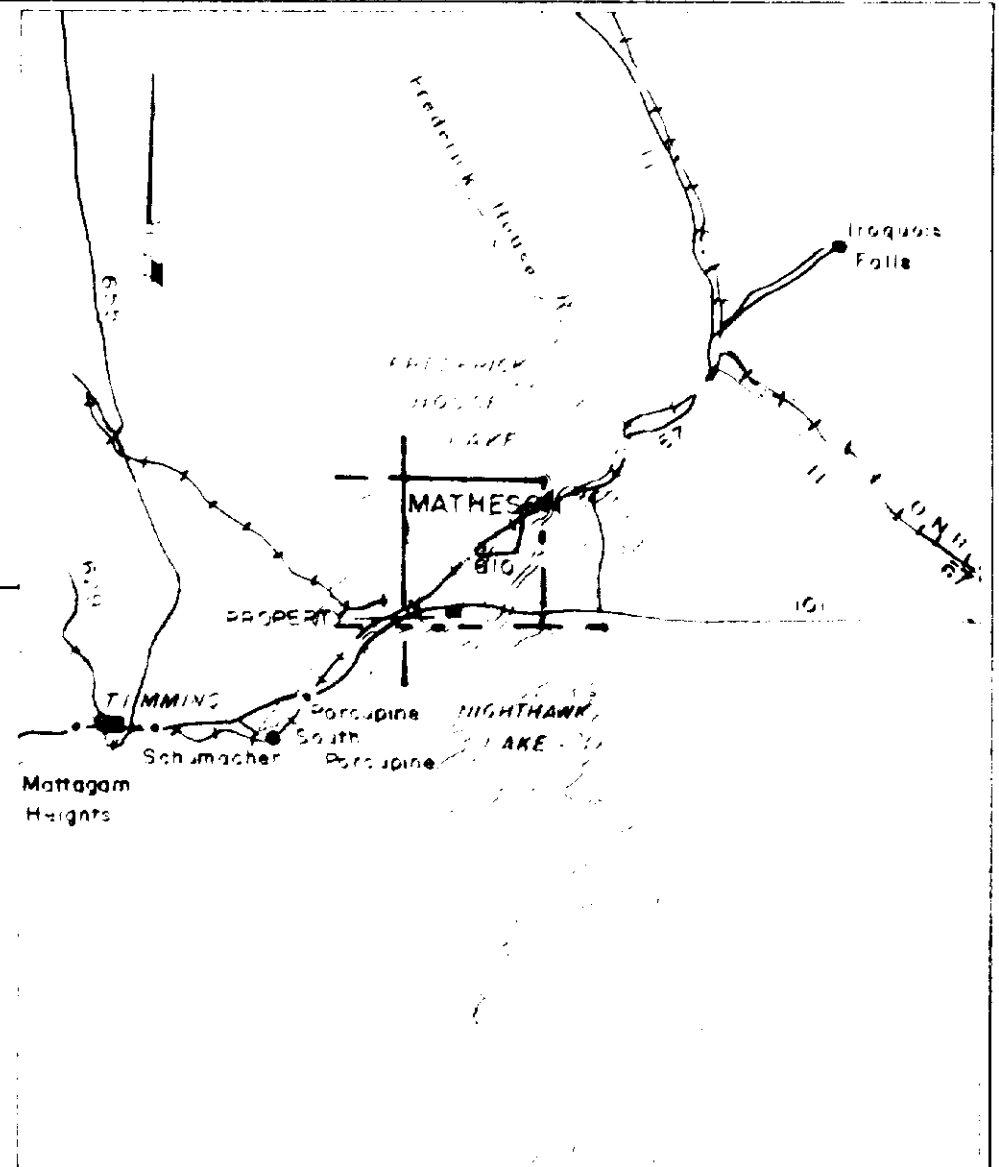
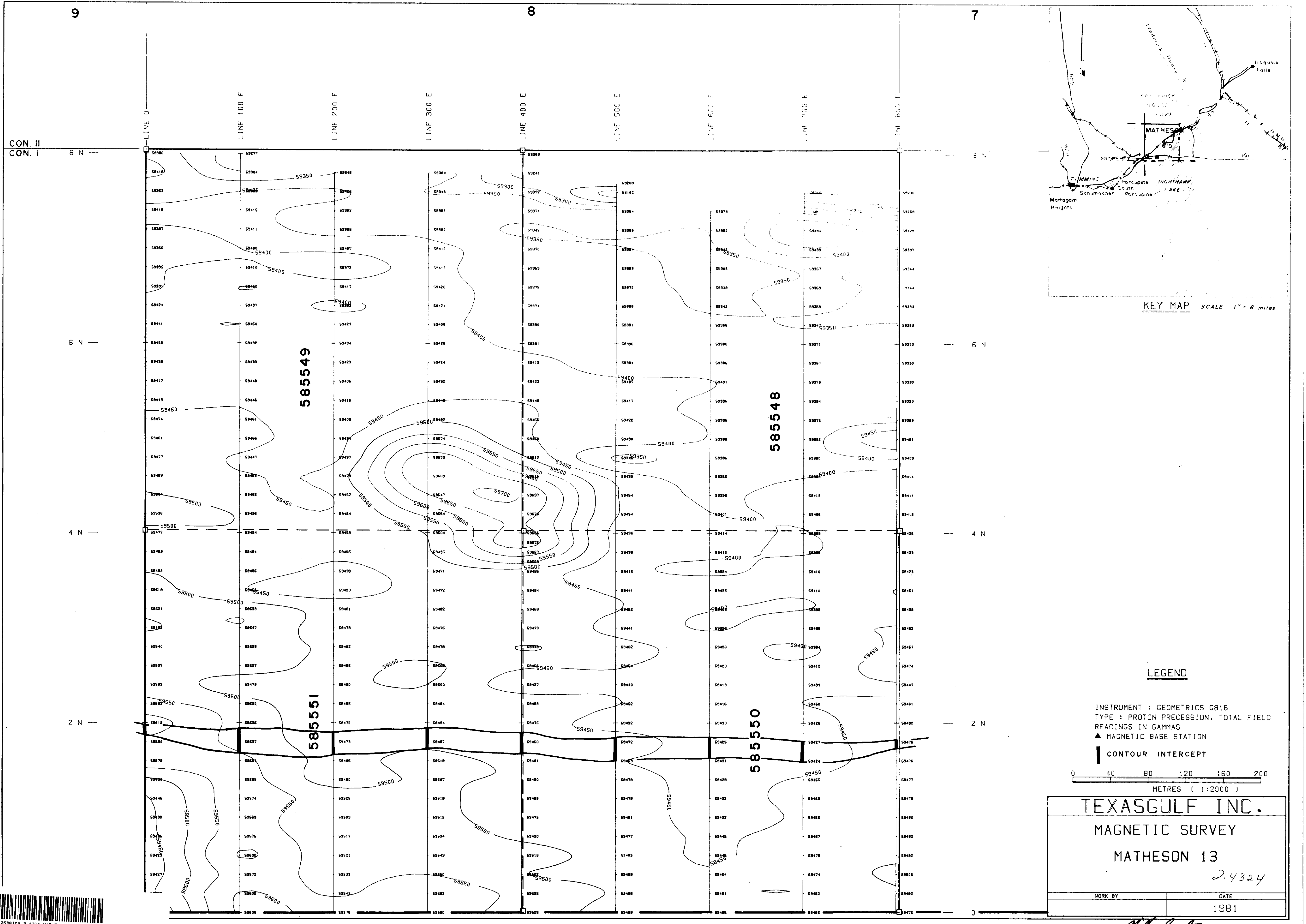
- (Q) QUARRY PERMIT
- (R) MNR GRAVEL RESERVE FILE 24648

24324

PLAN NO.- M-297

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEY AND MAPPING BRANCH



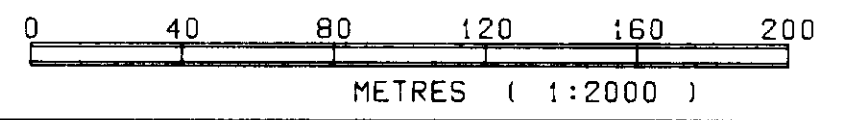


KEY MAP SCALE 1" = 8 miles

LEGEND

INSTRUMENT : GEOMETRICS G816
 TYPE : PROTON PRECESSION, TOTAL FIELD
 READINGS IN GAMMAS
 ▲ MAGNETIC BASE STATION

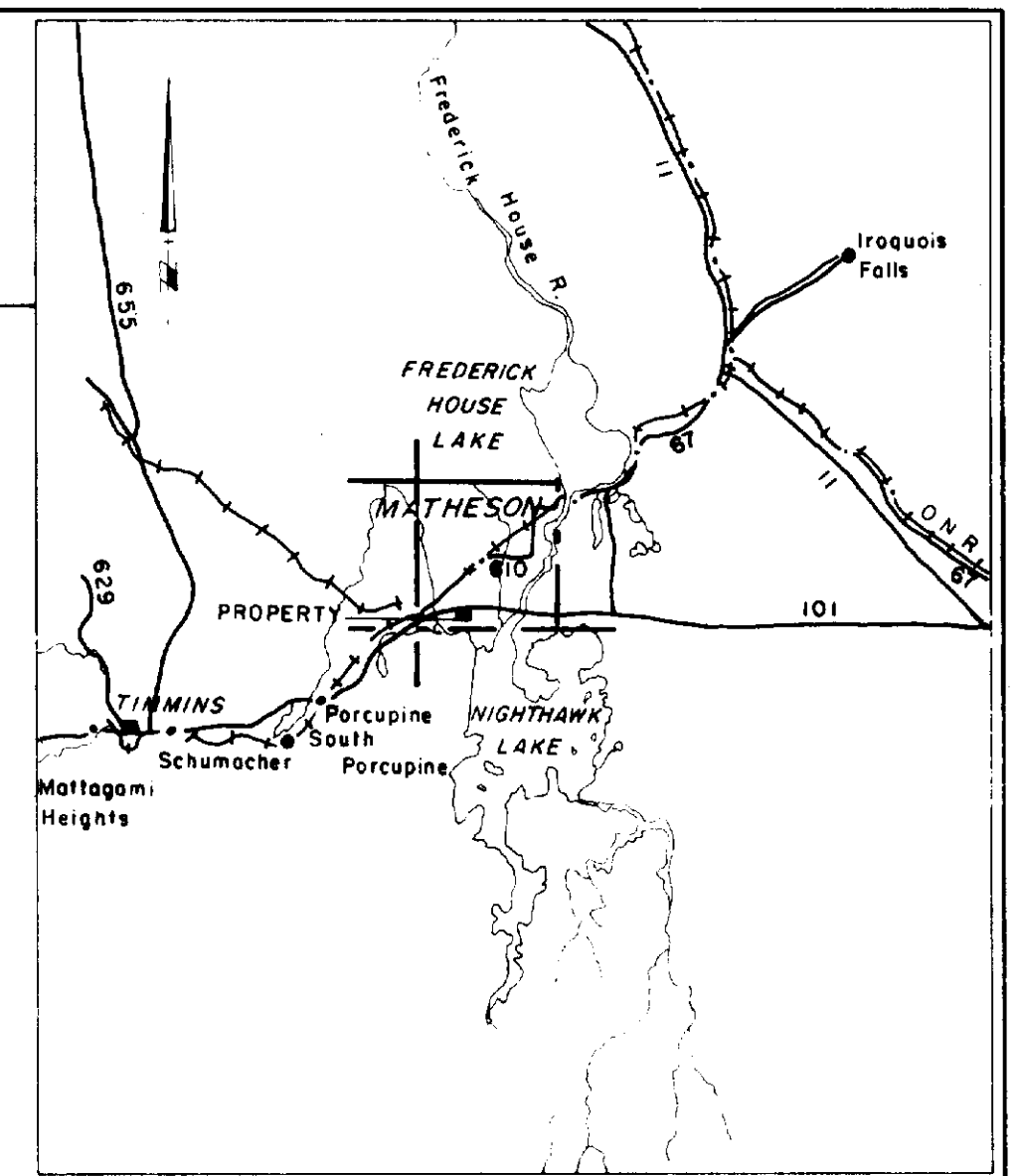
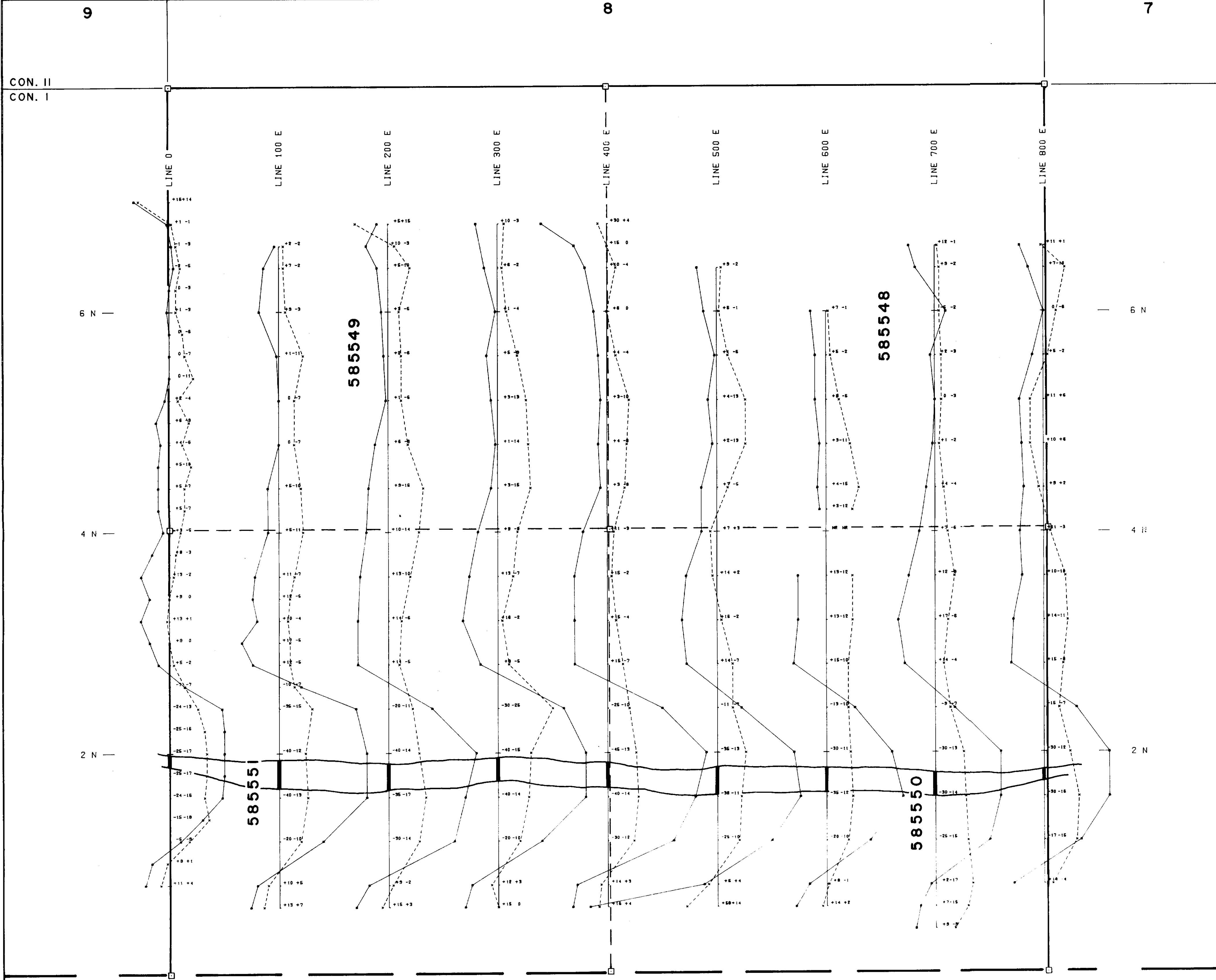
▬ CONTOUR INTERCEPT



TEXASGULF INC.	
MAGNETIC SURVEY	
MATHESON 13	
2.4324	
WORK BY	DATE
	1981



Neil Santiago



KEY MAP SCALE : 1" = 8 miles

LEGEND

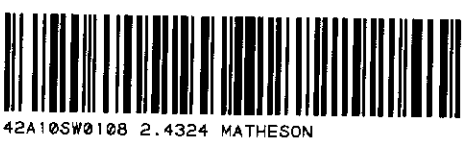
1777 Hz
 IN-PHASE READINGS
 QUADRATURE READINGS
 CONTOUR INTERCEPT
 INSTRUMENT : APEX PARAMETRICS MAXMIN II
 FREQUENCY : 1777 Hz
 COIL SPACING : 160 METERS
 PROFILE SCALE : 1 CM = 10%

← + READINGS - READINGS →

0 40 80 120 160 200
 METRES (1:2000)

TEXASGULF CANADA LTD.
HORIZONTAL LOOP SURVEY
MATHESON 13
 2.4324

WORK BY	DATE
	1981



Neil Louisa