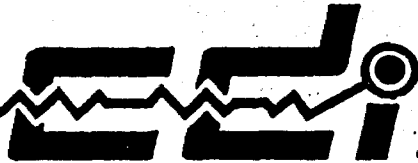


LES RELEVÉS



SURVEYS INC.

11, rue Nelson  
Val d'Or, Qué. J9P 2Z5  
Tél.: (819) 825-6263



42C14NE0010 MATTHEWS10A1 MATTHEWS

010

REPORT  
ON  
GEOPHYSICAL WORK.  
ON THE  
MATTHEWS TOWNSHIP PROPERTY  
OF  
CADRE CORPORATION

RECEIVED

1983 08 27

MINING LANDS SECTION

AUGUST 1983

C.D.I. SURVEYS INC.  
REJEAN GOSSELIN, M.Sc.  
CONSULTING GEOLOGIST.



INTRODUCTION

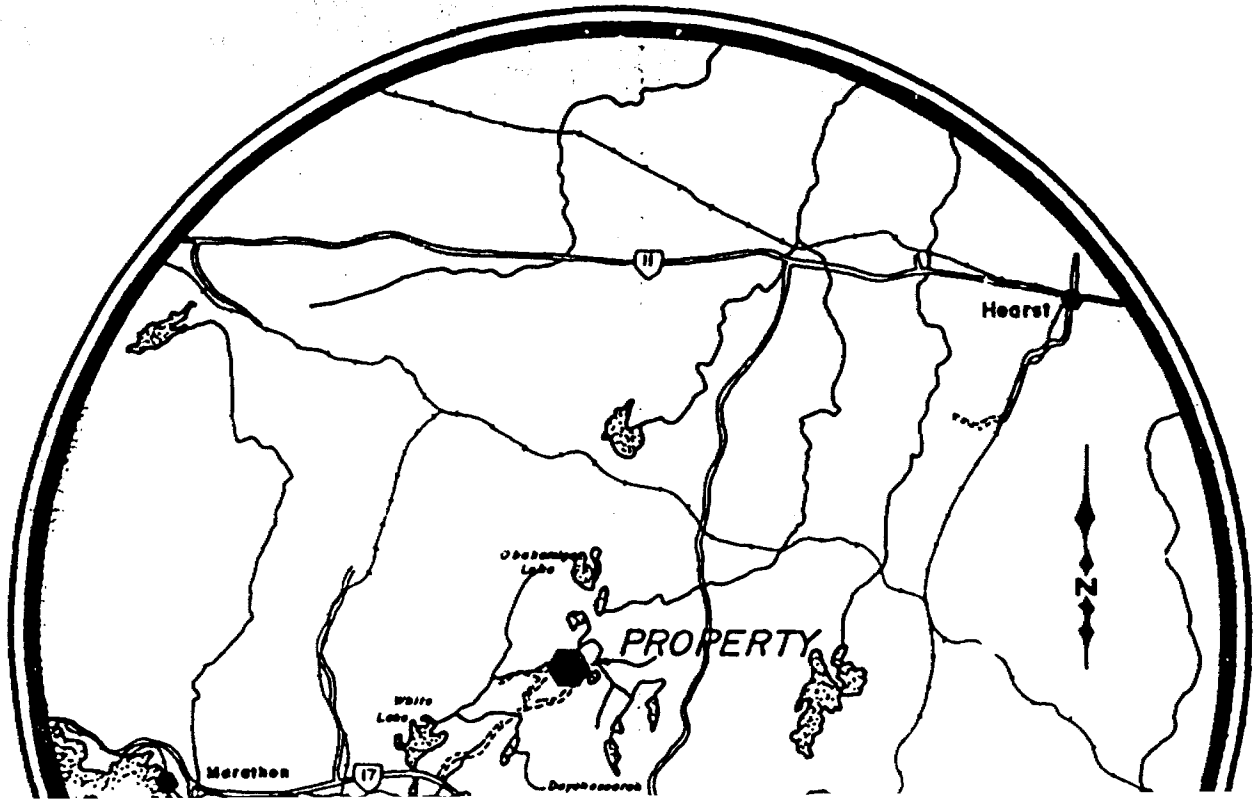
The present report describes the results of the electromagnetic (VLF-EM16) and magnetic surveys recently performed on the Matthews Township Property of Cadre Corporation. The claim group covers an area of 1080 acres (432 hectares) located approximately 36 miles northeast of the Hemlo gold discoveries, in the southwest part of the Matthews Township.

The purpose of the exploration program was to locate diamond drilling targets.

The property has been entirely covered by both the magnetic and electromagnetic (VLF-EM16) surveys. This group of 27 claims are registered with the Ontario Ministry of Natural Resources under the following license numbers:

773866	773875	773884
773867	773876	773885
773868	773877	773886
773869	773878	773887
773870	773879	773888
773871	773880	773889
773872	773881	773890
773873	773882	773891
773874	773883	773892

# LOCATION MAP



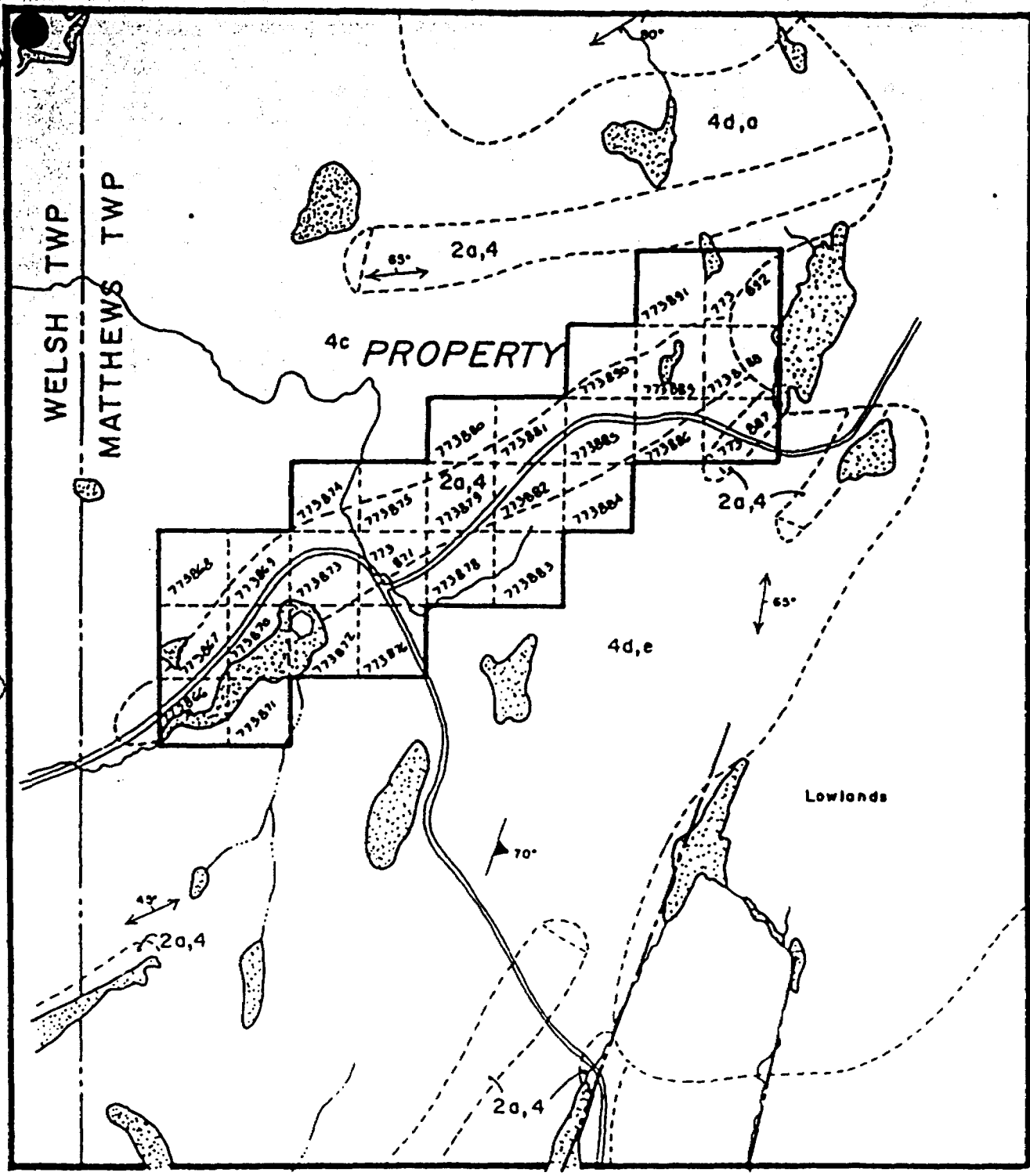


FIGURE 2: CLAIM MAP

3

## LOCATION AND ACCESS

The Matthews Township Property of Cadre Corporation is located approximately 25 miles north of the small town of White River in the southwest part of Matthews Township.

The group of claim is easy of access by a good gravel road (Bernard Road) which runs in the center of the property for its total length. This road links the property with the village of Moberg located on highway number 17, 30 miles to the southwest.

## GEOLOGY

The area has been mapped by B. Jackson and D.V. Impey in 1966. A geological map at a scale of two miles to the inch (map 2129) has been published by the Ontario Ministry of Natural Resources the same year.

The claims under study cover a small northeast-southeast ribbon of mafic volcanics surrounded by felsic intrusive rocks. This relatively small volcanic sequence (10 miles long by 1.5 mile wide) is most probably a part of the large volcanosedimentary belts in the area, as the Hemlo Gold Belt, Dayohessarah Lake Belt and others.

The geology of the property is not very well know

due to the large scale mapping (2 miles to the inch). Nevertheless, basalt and mafic schist are believed to be the most abundant rock type underlying the claims. Intrusive rocks of felsic composition surround the volcanic rocks.

The rocks have been metamorphosed to the greenschist facies and locally to the amphibolite facies. They are affected by a regional foliation which strikes northeast with a variable dip.

GEOPHYSICAL WORK

Magnetic and electromagnetic (VLF-EM16) surveys were carried out along north-south grid lines 400 feet apart.

The magnetic survey was conducted with a Geometrics, Unimag II unit. The readings were contoured and the magnetic axes indicated on the Magnetometer Survey maps, Part West and Part East, presented in pocket.

The electromagnetic survey was conducted with a Geonics EM-16, VLF electromagnetic unit, using the fixed transmitting station NAA located in Cutler, Maine, U.S.A. (17.8 KHz). The profiles of both in-phase and out-phase readings were drafted on the VLF Survey (profiles) maps, Part West and Part East, in pocket. The conductor axes were also indicated on the same maps. The Fraser Method correction was applied to the in-phase readings and contour maps of the results are presented in pocket on the VLF Survey (Fraser Method) maps, Part West and Part East.

## RESULTS

A total of 55 conductor axes have been detected on the property by the electromagnetic VLF survey. They are numbered from W-1 to W-25 and E-26 to E-55. The letters indicate on which map the anomalies are located, W for VLF Survey (profiles) map; Part West, and E for the VLF Survey (profiles) map, Part East. The conductors usually strike east-west or northeast-southwest. Most of them are weak conductive zones or poorly defined except for the following ones; W-4, W-9, W-10, W-12, W-13, W-25, E-30, E-35, E-40, E-42, E-52 and E-55.

Each of those stronger conductive zones can be described as follows:

- W-4 : Short; one line only; L44W-26+00S; associated with a magnetic high.
- W-9 : Short; one line only; L24W-2+50S; associated with a magnetic low.
- W-10 : The strongest and longest anomaly; detected from L-0, 18+00S to L-24W, 8+50N; no obvious magnetic association.
- W-12 : Detected on 3 lines; better defined on L-12W and L-16 at 13+00S; associated with a magnetic low.
- W-13 : Detected on 2 lines; better defined on L-20W, 16+50S; associated with a magnetic low.
- W-25 : Detected from L-4W to L-12E; better defined on Part East of survey, L-4E, 11+00N to L-12E, 15+00N; interested by a magnetic axis on L-8E, 13+00N.



- E-30 : Strong anomaly on 3 lines; L-8E, 18+50N to L-16E, 20+50N; better defined on L-12E, 19+25N; associated with a magnetic low.
- E-35 : Detected on 2 lines; better defined on L-16E, 8+75N; associated with a magnetic low.
- E-40 : Detected on 6 lines; better defined on L-44E, 17+50N; associated with a magnetic low.
- E-42 : Wide and poorly defined anomaly detected on 3 lines, L32E, 23+50N to L-40E, 21+50N. Unusual northwest-southeast striking anomaly; associated with a magnetic low.
- E-52 : Detected on 2 lines; better defined on L-56E, 23+50N; associated with a magnetic low.
- E-55 : Well defined on 2 lines; L-56E, 45+50N and L-60E, 44+50N; associated with a magnetic low.

The magnetic survey has detected one southwest-northeast running diabase dyke which crosses the grid lines from L-4E, 13+50S to L-28E, 31+00N.

#### CONCLUSIONS AND RECOMMENDATIONS

The electromagnetic survey detected numerous conductive zones. The best ones have been described above and some of them should be tested by drilling. It is then recommended to drill 7 angle holes ( $45^{\circ}$  dip) of 500 feet each for a total of 3500 feet. Since the dip of the formations is unknown and can be hardly defined by the geophysical surveys, the azimuth of each hole should be determined on the field by the examination of the surrounding outcrops.

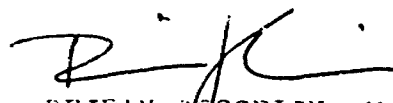
7

The drill holes should be collared to intersect the following anomalies at the location mentioned below.

W-4 : L-44W, 26+00S  
W-10 : L-4W, 14+50S  
L-16W, 0+00 (Base line)  
W-25 : L-8E, 13+00N  
E-30 : L-12, 19+25N  
E-40 : L-44E, 17+50N  
E-55 : L-56E, 45+50N

The other strong VLF anomalies, not tested by drilling, should be detailed by electromagnetic (HEM) survey.

AUGUST 1983

  
REJEAN GOSSELIN, M.Sc.  
CONSULTING GEOLOGIST

CERTIFICATE

THIS IS TO CERTIFY THAT:

- I am resident of Val d'Or, province of Quebec since 1979.
  
- I have been engaged in mining exploration since 1971 and have been consulting as a professional geologist since 1979.
  
- I am a graduate of Université Laval in Quebec City (M.Sc. Geol.)
  
- I am a member of the Association des Géologues du Québec, of the Prospectors and Developers Association, of the Canadian Institute of Mining and Metallurgy and also director of the Quebec Prospectors Association.
  
- This report is based on the geological maps and reports published by the Ontario Ministry of Natural Resources and on the Author's experience on gold Exploration.
  
- I have not received, directly or indirectly, or expect to receive any interest direct or indirect in the Matthews Township Property of Cadre Corporation.

Signed in Val d'Or  
August 1983

BY: 

REJEAN GOSSELIN M.Sc.  
CONSULTING GEOLOGIST.

WELSH TWP

SSM	SSM	SSM	SSM	SSM	SSM
727385	727386	727387	727388	727389	727390
SSM	SSM	SSM	SSM	SSM	SSM
727393	727394	727395	727392	727391	727390
SSM	SSM	SSM	SSM	SSM	
727396	727397	727398	727399	727400	



42C14NE0010 MATTHEWS10A1 MATTHEWS

900

MATTHEWS  
1" = 40 chains

SSM	SSM	SSM	SSM	SSM
773891	773892			
SSM	SSM	SSM	SSM	SSM
773890	773889	773888		
SSM	SSM	SSM	SSM	SSM
773880	773881	773885	773886	773887
SSM	SSM	SSM	SSM	SSM
773874	773875	773879	773882	773884
SSM	SSM	SSM	SSM	SSM
773868	773869	773873	773877	773878
SSM	SSM	SSM	SSM	SSM
773867		773870	773872	773876
SSM	SSM			
773866	773871			

SSM	SSM	SSM	SSM
774282	774283	774284	774285
SSM	SSM	SSM	SSM
774304	774288	774287	774286
SSM	SSM	SSM	SSM
774305	774306	774307	774308
SSM	SSM	SSM	SSM
774312	774311	774310	774309
SSM	SSM	SSM	SSM
774313	774314	774315	774316

HAMBLETON TWP. G-2768



**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) MAGNETIC ELECTROMAGNETIC (V.L.F.)  
 Township or Area MATTHEWS TOWNSHIP  
 Claim Holder(s) LOBO GOLD & RESOURCES INC.  
500-67 RICHMOND ST. W. TORONTO, ONT  
M5H 1Z5  
 Survey Company C.D.I. SURVEYS INC.  
 Author of Report REGAN GOSSELIN, M.Sc. Cons. Geol.  
 Address of Author 895-1st Ave. Val d'Or, Quebec  
 Covering Dates of Survey June-July 1983 J9P 1Z5  
 (linecutting to office)  
 Total Miles of Line Cut 27

MINING CLAIMS TRAVERSED	
List numerically	
(prefix)	(number)
SSM773866	SSM773886
SSM773867	SSM773888
SSM773868	SSM773888
SSM773869	SSM773889
SSM773870	SSM773890
SSM773871	SSM773891
SSM773872	SSM773892
SSM773873	
SSM773874	
SSM773875	
SSM773876	
SSM773877	
SSM773878	
SSM773879	
SSM773880	
SSM773881	
SSM773882	
SSM773883	
SSM773884	
SSM773885	
TOTAL CLAIMS <u>27</u>	

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	40
ENTER 20 days for each additional survey using same grid.	20
Geophysical	
-Electromagnetic	40
-Magnetometer	20
-Radiometric	
-Other	
Geological	
Geochemical	

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
 (enter days per claim)

DATE: Feb. 21/84 SIGNATURE: [Signature]  
 Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications [Signature]

**Previous Surveys**

File No.	Type	Date	Claim Holder
			<b>RECEIVED</b>
			MINING LANDS SECTION

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 1248 Number of Readings 1248

Station interval 100 Feet Line spacing 400 Feet

Profile scale For V.I.F. 1<sup>u</sup>=50%; For V.I.F. (Fraser) 20%

Contour interval For MAG 100 Gammas to 100, then every 500 Gammas to 2000.

MAGNETIC

Instrument Geometrics - Unimag II

Accuracy - Scale constant + 1 Gamma

Diurnal correction method Linear Value vs time correction

Base Station check-in interval (hours) Less than 80 min.

Base Station location and value Intersections of Base Line and cross lines used as base stations.

ELECTROMAGNETIC

Instrument Geonics EM16 Electromagnetic Unit V.L.F.

Coil configuration \_\_\_\_\_

Coil separation \_\_\_\_\_

Accuracy 3% for both in phase and Quadrature

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency Station NAA Cutler Maine, 17.8k Hz  
(specify V.L.F. station)

Parameters measured In Phase Quadrature (out of phase)

GRAVITY

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

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 \_\_\_\_\_

RESISTIVITY



Ministry of  
Natural  
Resources

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

11.56.84

2.6458

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

F.W.M.

Mining Act

Type of Survey(s) <b>MAGNETIC AND ELECTROMAGNETIC (VLF)</b>	Township or Area <b>MATTHEWS TOWNSHIP</b>
Claim Holder(s) <b>LOBO GOLD &amp; RESOURCES INC.</b>	Prospector's Licence No. <b>T-1669</b>
Address <b>500-67 RICHMOND STREET WEST, TORONTO, ONTARIO, M5H 1Z5</b>	
Survey Company <b>C.D.I. SURVEYS INC.</b>	Date of Survey (from & to) 20 06 83   25 07 83
Name and Address of Author (of Geo-Technical report) <b>REGEAN GOSSELIN, M.Sc. Cons. Geologist, 895 1st Ave., Val d'Or, Quebec</b>	
Total Miles of line Cut <b>27</b>	

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

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
SSM	773866	60	SSM	773889	60
	773867	60		773890	60
	773868	60		773891	60
	773869	60		773892	60
	773870	60			
	773871	60			
	773872	60			
	773873	60			
	773874	60			
	773875	60			
	773876	60			
	773877	60			
	773878	60			
	773879	60			
	773880	60			
	773881	60			
	773882	60			
	773883	60			
	773884	60			
	773885	60			
	773886	60			
	773887	60			
	773888	60			

RECEIVED  
MINING LANDS SECTION

GAULT STE. MARIE  
MINING DIV.  
RECEIVED  
FEB 27 1984  
A.M. P.M.  
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12  
See Reversed statement

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.

Total number of mining claims covered by this report of work. **27**

For Office Use Only

Total Days Credits Recorded **1620**

Date Recorded **Feb 21/84**

Branch Director **Paul St Julien**

Date **Feb. 21/84**

Recorded Holder or Agent (Signature) **Paul St Julien**

Certification Verifying Report of Work **P. Eng.**

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  
**John E. McCombe, P.Eng. 2078 Tenoga Drive, Mississauga, Ont. L5H 3K2**

Date Certified **Feb 21/84**

Certified by (Signature) **[Signature]**

file on SSM 773866

Your File: 56  
Our File: 2.6458

1984 03 16

Mining Recorder  
Ministry of Natural Resources  
875 Queen Street East  
P.O. Box 669  
Sault Ste. Marie, Ontario  
P6A 5N2

Dear Madam:

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 SSM 773866 et al in the Township of Matthews.

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

A. Barr:dg

cc: Lobo Gold & Resources Inc.  
500 - 57 Richmond Street West  
Toronto, Ontario  
M5H 1Z5

cc: Rejean Gosselin  
11 Rue Nelson  
Val d'or, Quebec  
J9P 2Z5



June 14, 1984

Our File: 2.6458

Lobo Gold and Resources Inc  
Suite 500  
67 Richmond Street West  
Toronto, Ontario  
M5H 1Z5

OK

Dear Sirs:

RE: Geophysical (Magnetometer and Electromagnetic)  
Survey on Mining Claims SSM 773866 et al in  
Matthews Township

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Returned herein are the plans (in duplicate) for the  
above-described survey. Please have the author of  
the report sign each map and return them to this office  
quoting file 2.6458.

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  
Sault Ste. Marie, Ontario

Encl.:



Ministry of  
Natural  
Resources

**Technical Assessment  
Work Credits**

File 2.6458

Date  
1984 07 17

Mining Recorder's Report of  
Work No. 56-84

Recorded Holder  
LOBO GOLD & RESOURCES INC

Township or Area  
MATTHEWS TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ 40 days Magnetometer _____ 20 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 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.	SSM 773868-69 773873 to 888 inclusive 773890-91

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

<u>10 DAYS MAGNETOMETER</u> <u>20 DAYS ELECTROMAGNETIC</u> SSM 773870-72	<u>15 DAYS MAGNETOMETER</u> <u>30 DAYS ELECTROMAGNETIC</u> SSM 773866-67-71-89-92
--	---

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       Insufficient technical data filed

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:



*Aug 1/84*

1984 07 17

Your File: 56-84  
Our File: 2.6458

Mrs. M.V. St. Jules  
Mining Recorder  
Ministry of Natural Resources  
875 Queen Street East, Box 669  
Sault Ste. Marie, Ontario  
P6A 5N2

Dear Madam:

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. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Tundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3

*Rev* S. Hurst:mc

Encls.

cc: Lobo Gold & Resources Inc  
Suite 500  
67 Richmond Street West  
Toronto, Ontario M5H 1Z5

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

cc: Rejean Gosselin, M.Sc. Cons. Geologist  
895 - 1st Avenue  
Val d'Or, Quebec J9P 1Z6



Ministry of  
Natural  
Resources

Notice of Intent  
for Technical Reports

1984 07 17

2.6458/56-84

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 Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

2.6458

1984 08 10

Your File: 56-84  
Our File: 2.6458

Mrs. M.V. St. Jules  
Mining Recorder  
Ministry of Natural Resources  
875 Queen Street East  
P.O. Box 669  
Sault Ste. Marie, Ontario  
P6A 5N2

Dear Madam:

RE: Notice of Intent dated July 17, 1984.  
Geophysical (Magnetometer & Electromagnetic)  
Survey on Mining Claims SSM 773866 et al  
in Matthews Township.

---

The assessment work credits as listed with the  
above mentioned Notice of Intent, have been approved  
as of the above date.

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

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: Lobo Gold & Resources Inc  
Suite 500  
67 Richmond Street West]  
Toronto, Ontario  
M5H 1Z5

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

cc: Rajean Gosselin, M.Sc.Cons.Geologist  
895 - 1st Avenue  
Val d'Or, Quebec  
J9P 1Z6

cc: Resident Geologist  
Sault Ste. Marie, Ontario

Mining Lands Comments

*- maps not signed*  
*- No time*

To: Geophysics *Mr. Barlow*

Comments

Approved  Wish to see again with corrections

Date *April 18/84* Signature *RRL*

To: Geology - Expenditures

Comments

Approved  Wish to see again with corrections

Date Signature

To: Geochemistry

Comments

*lqd* *L.D.*

Approved  Wish to see again with corrections

Date Signature

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

2-6738

	m	em
7773866	1/4	1/4
67	1/4	1/4
68	✓	✓
69	✓	✓
70	1/2	1/2
71	1/4	1/4
72	1/2	1/2
73	✓	✓
74	✓	✓
75	✓	✓
76	✓	✓
77	✓	✓
78	✓	✓
79	✓	✓
80	✓	✓
81	✓	✓
82	✓	✓
83	✓	✓
84	✓	✓

	m	EM
#77385	✓	✓
86	✓	✓
87	✓	✓
88	✓	✓
89	1/4	1/4
90	✓	✓
91	✓	✓
92	1/4	1/4
		2.25

~~27x40 = 1080~~

~~1080 ÷ 29.2 = 36.9~~

~~537~~

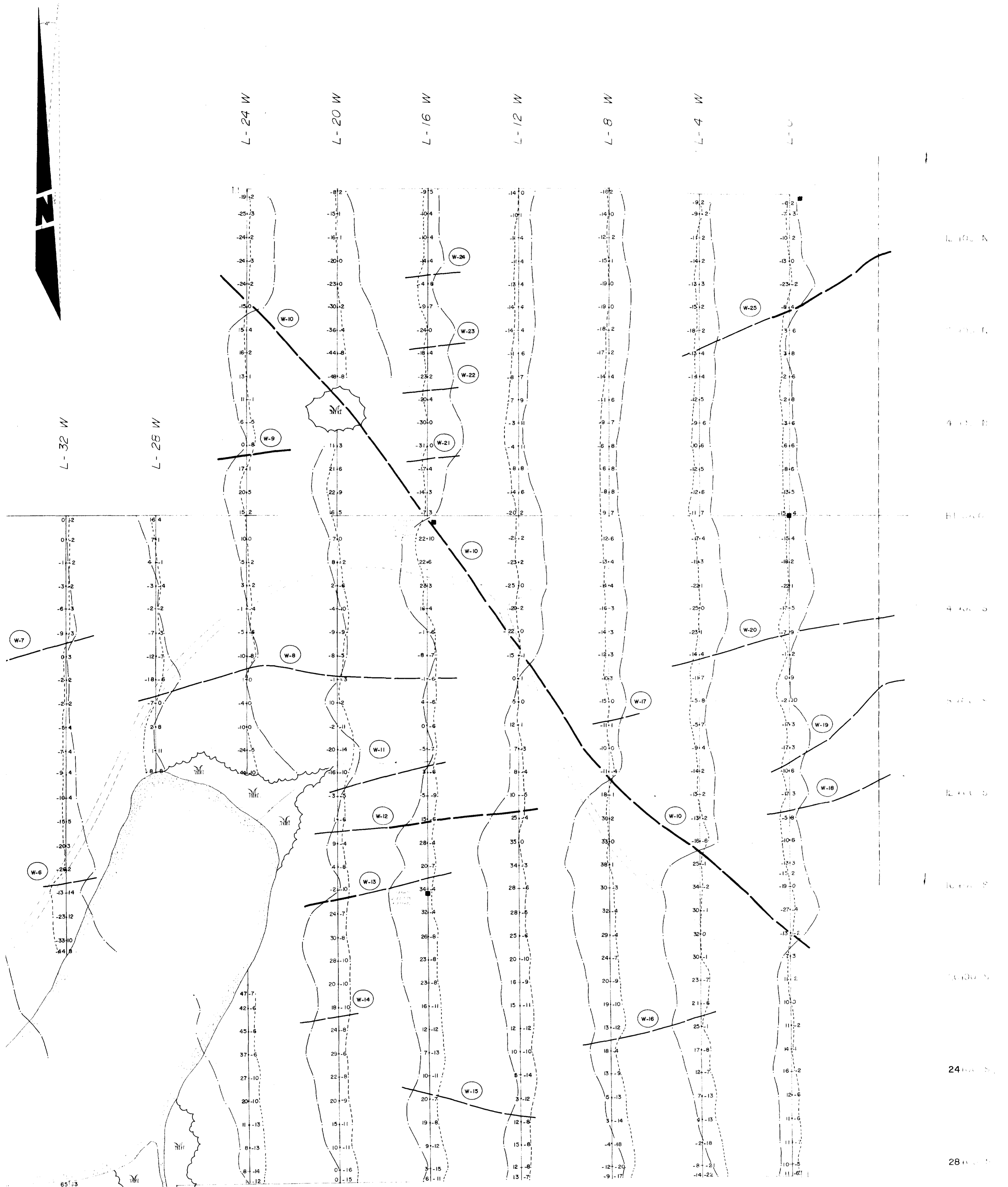
5.

• FOR ADDITIONAL  
INFORMATION

SEE MAPS:

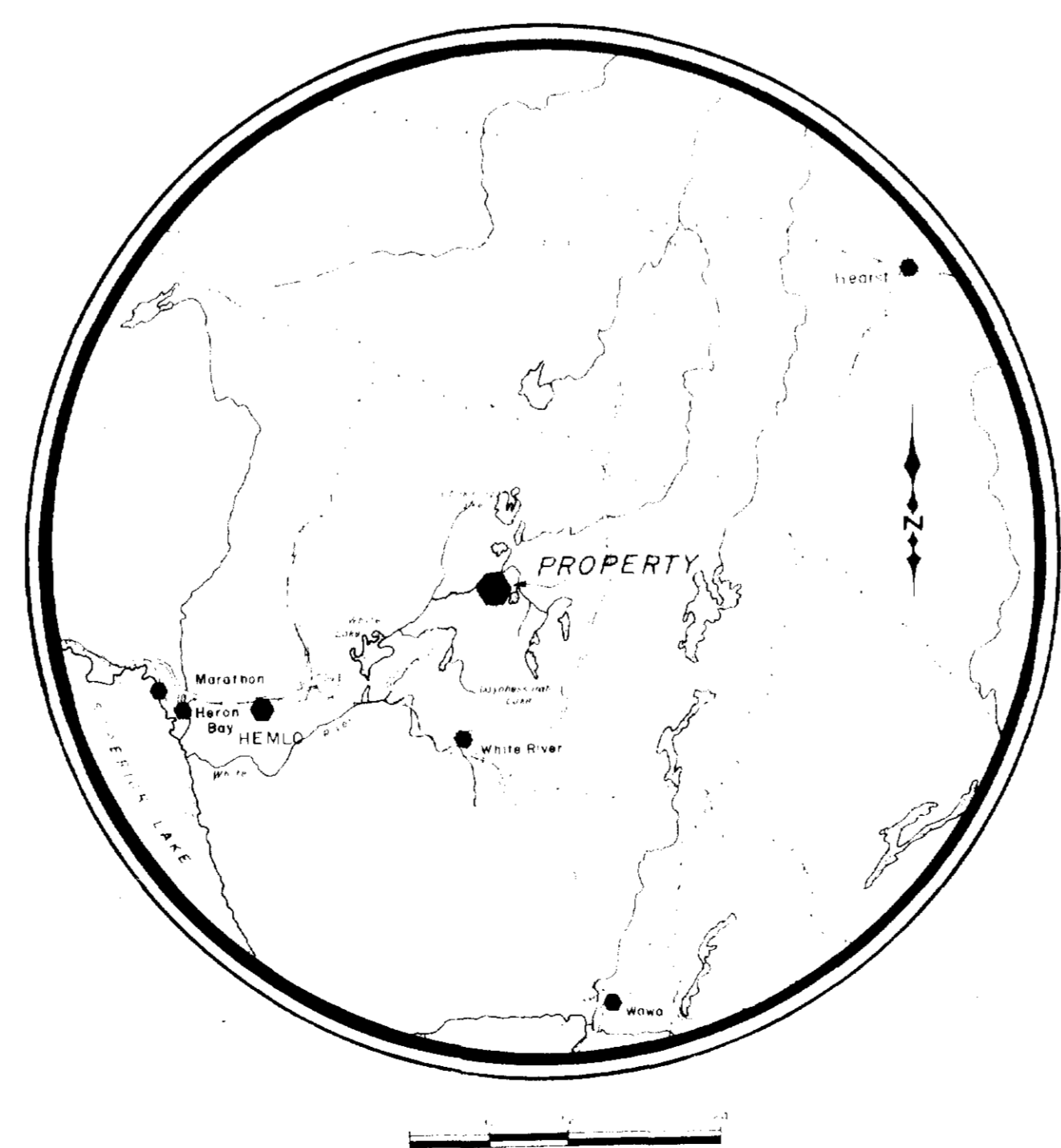
MATTHEWS-0010-A1 #1-6





MATTHEWS TWP

LOCATION MAP



**CADRE CORPORATION**  
 MATTHEWS TWP  
 ONTARIO  
 PART WEST

**VLF SURVEY "PROFILES"**

Inst EM-16 Station CUTLER (NAA) Freq 17.8 kHz

26458 dm

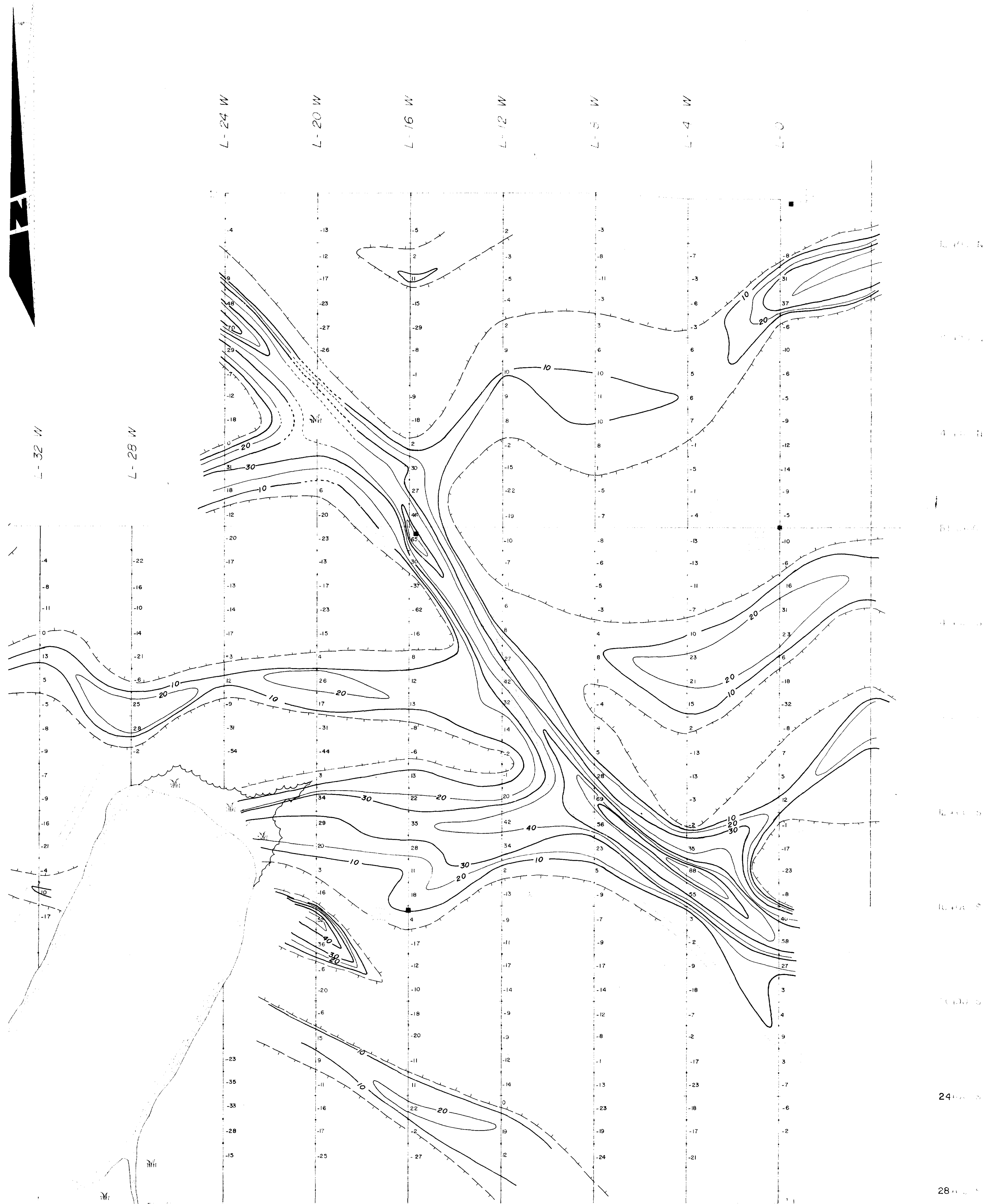
EXECUTED BY *CDI surveys inc*

COMPILED & DRAWN BY *S RHEAUME*

APPROVED BY *RÉJEAN GOSSELIN, M.Sc.*  
*Consulting Geologist*

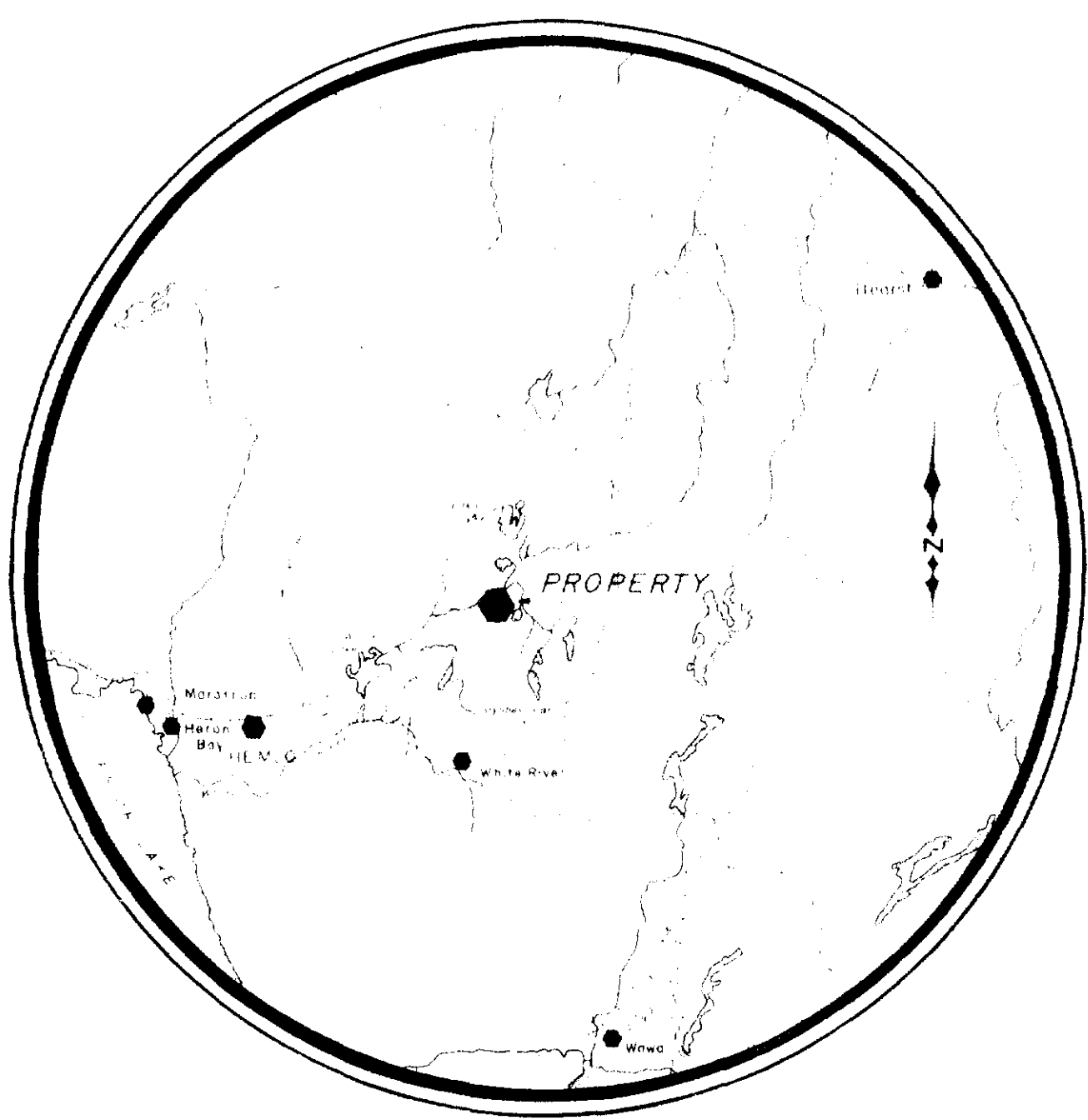
*PJC* June 28, 1984

MATTHEWS-0010-A1 # 1



MATTHEWS TWP

LOCATION MAP



ROAD  
LAKE  
RIVER  
SWAMP

MATTHEWS-0010-A1 #2

**CADRE CORPORATION**

MATTHEWS TWP  
ONTARIO

PART WEST

V.L.F. SURVEY "FRASER METHOD"

Inst: E.M.-16

Station: CUTLER(NAA)

Freq: 178 kHz

EXECUTED BY *CDI surveys inc.*

COMPILED & DRAWN BY *S RHEAUME*

APPROVED BY: *REJEAN Gosselin M.Sc.*

*Consulting Geologist*

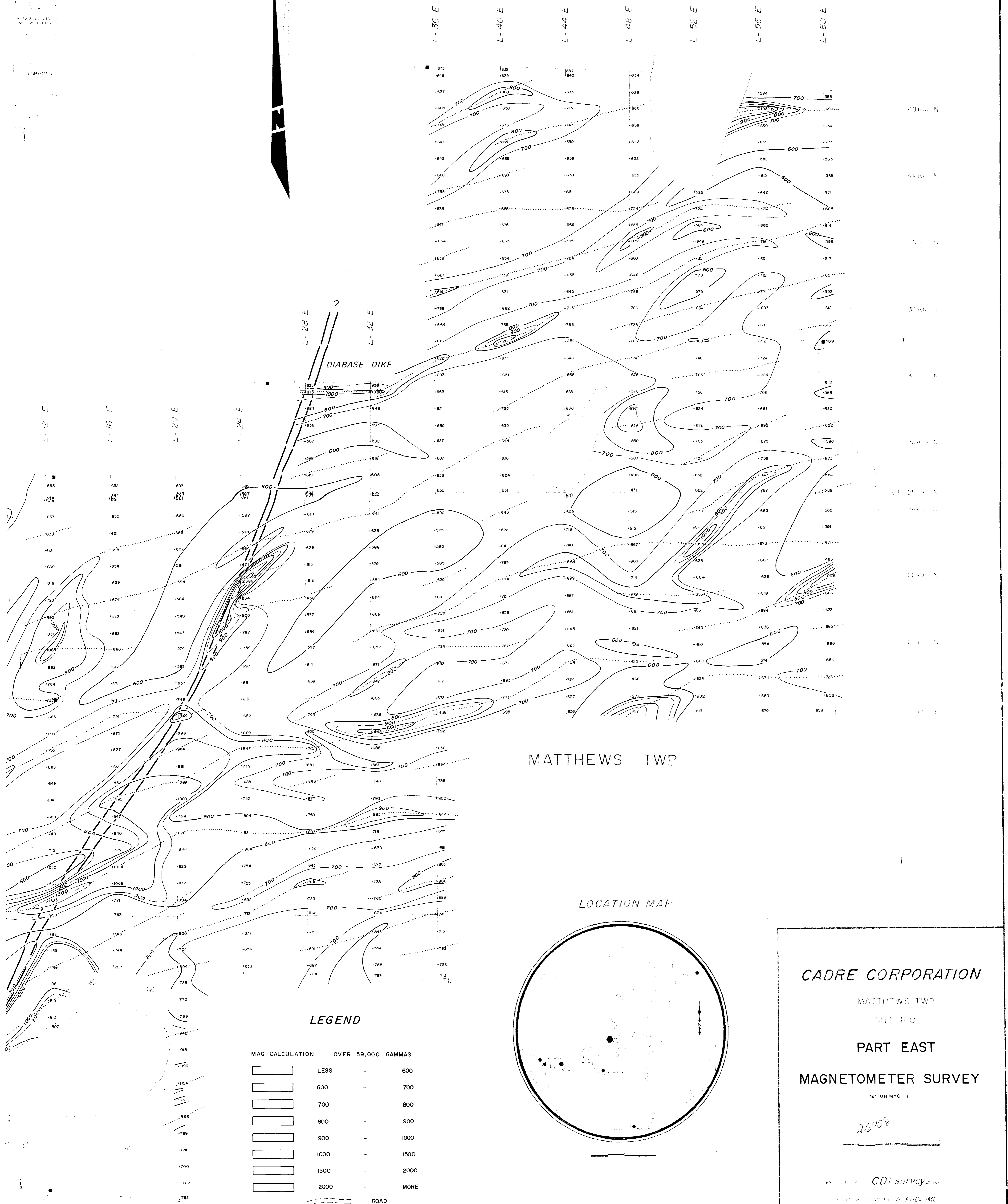
*R. G.* June 28, 1984

Vol D'Or, Quebec, July 1983.

X MAP REGIONAL GEOLOGY

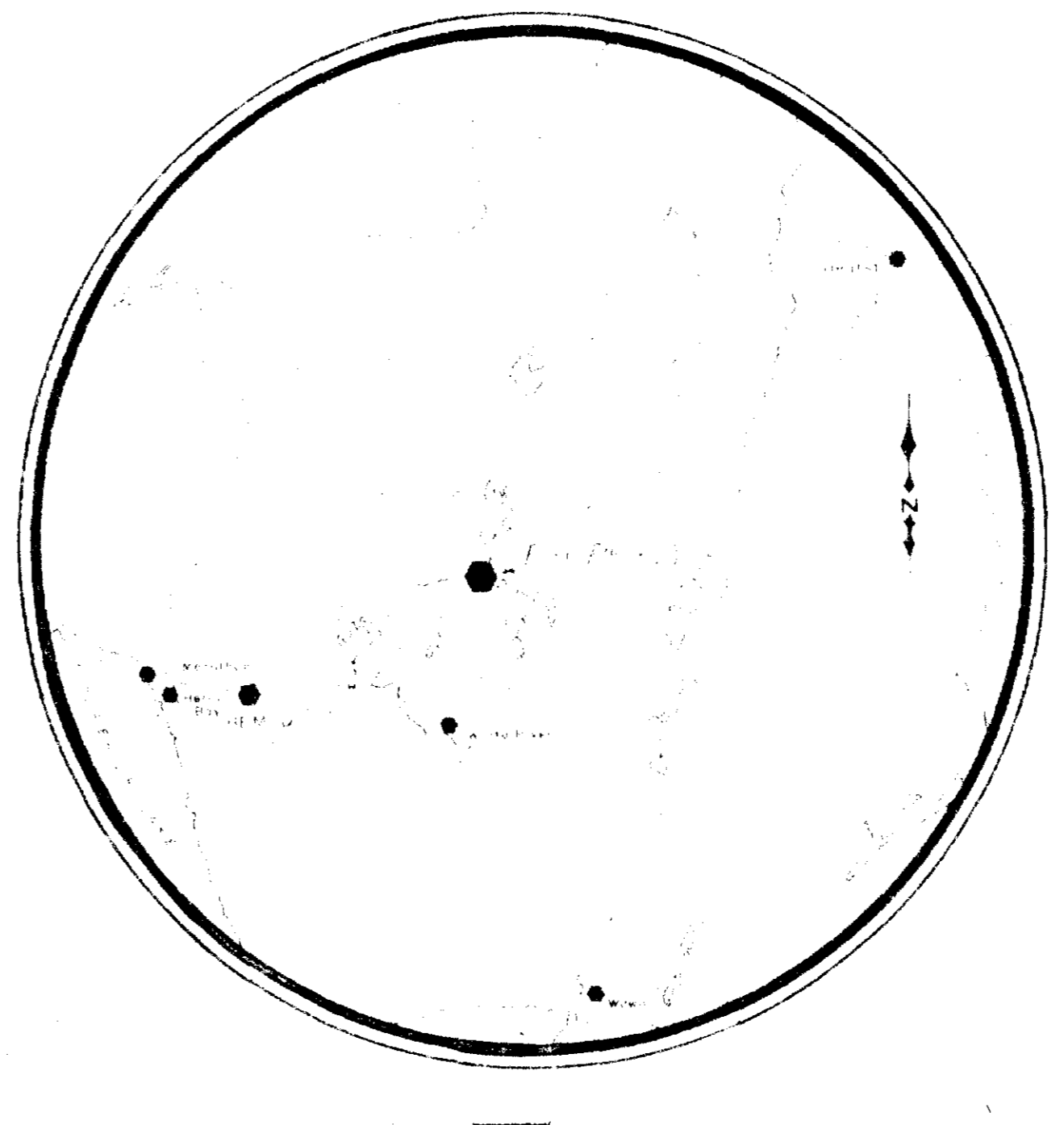
LEGEND

POLE  
 INDEX  
 METERS  
 SYMBOLS



MATTHEWS TWP

LOCATION MAP



LEGEND

MAG CALCULATION	OVER 59,000 GAMMAS
[Bar]	LESS - 600
[Bar]	600 - 700
[Bar]	700 - 800
[Bar]	800 - 900
[Bar]	900 - 1000
[Bar]	1000 - 1500
[Bar]	1500 - 2000
[Bar]	2000 - MORE

- [Symbol] ROAD
- [Symbol] LAKE
- [Symbol] RIVER
- [Symbol] SWAMP

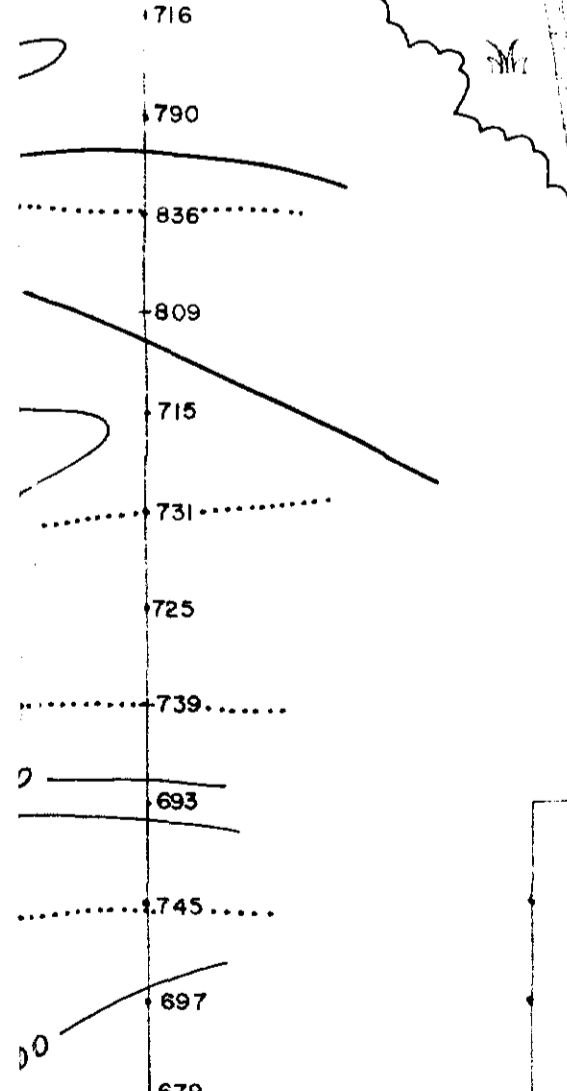
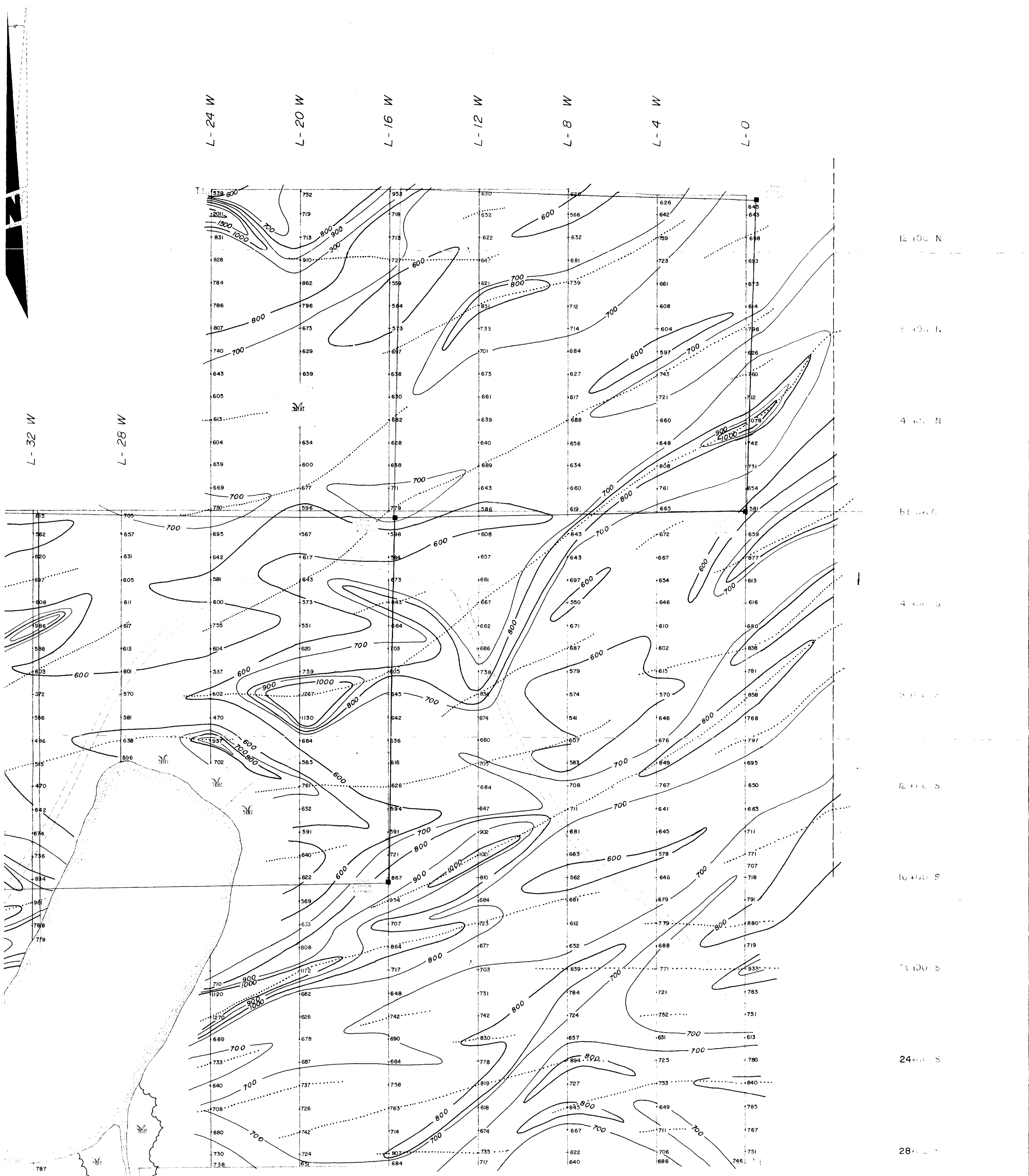
MAGNETIC AXES

MATTHEWS-0010-A1 #3

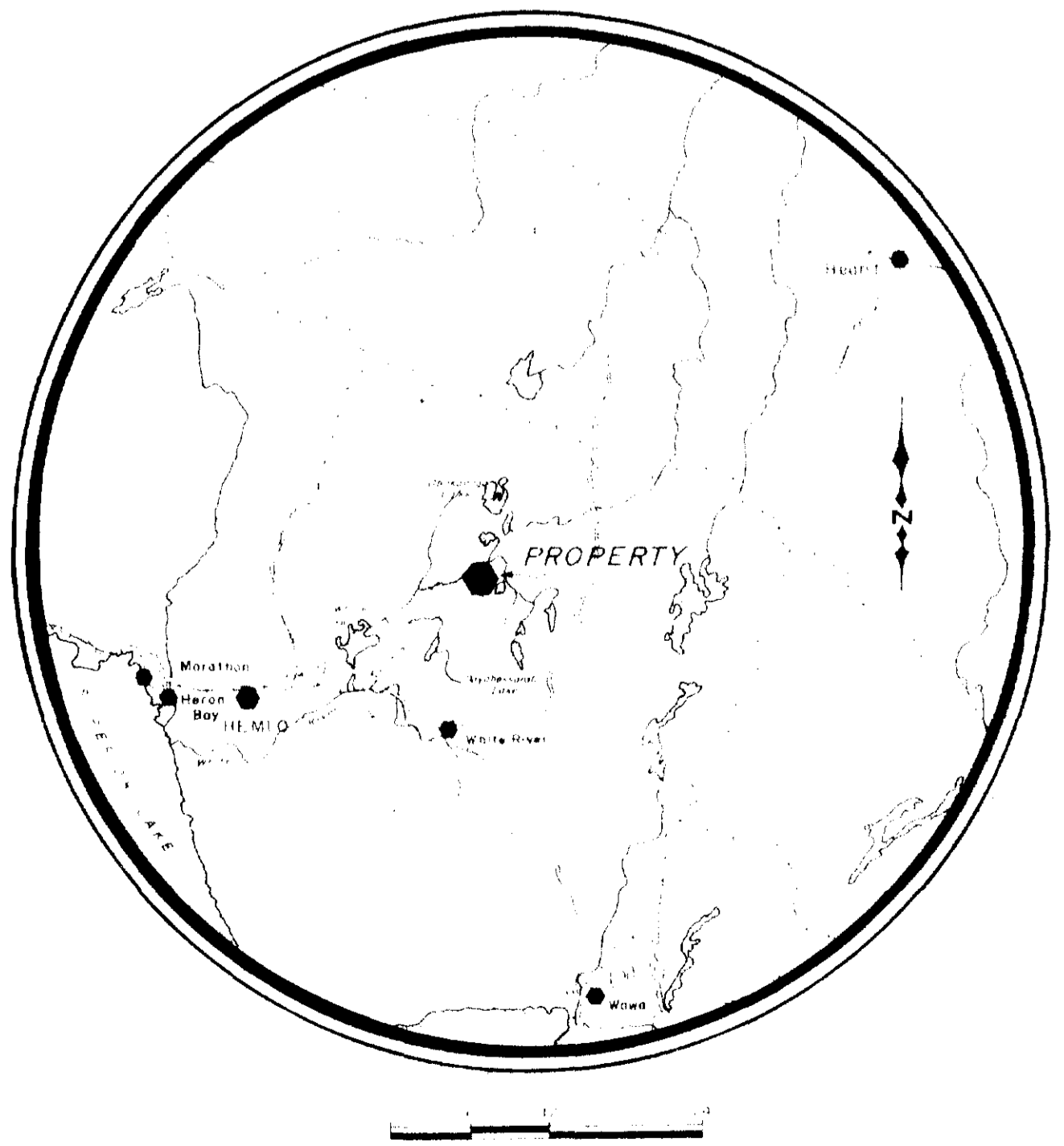
CADRE CORPORATION  
 MATTHEWS TWP  
 ONTARIO  
 PART EAST  
 MAGNETOMETER SURVEY

Inst UNIMAG II  
 26458

CDI SURVEYS INC.  
 CONSULTING GEOLOGIST  
 June 28, 1984



MATTHEWS TWP  
LOCATION MAP



**CADRE CORPORATION**  
 MATTHEWS TWP  
 ONTARIO  
 26458 PART WEST  
**MAGNETOMETER SURVEY**  
 Inst: UNIMAG II

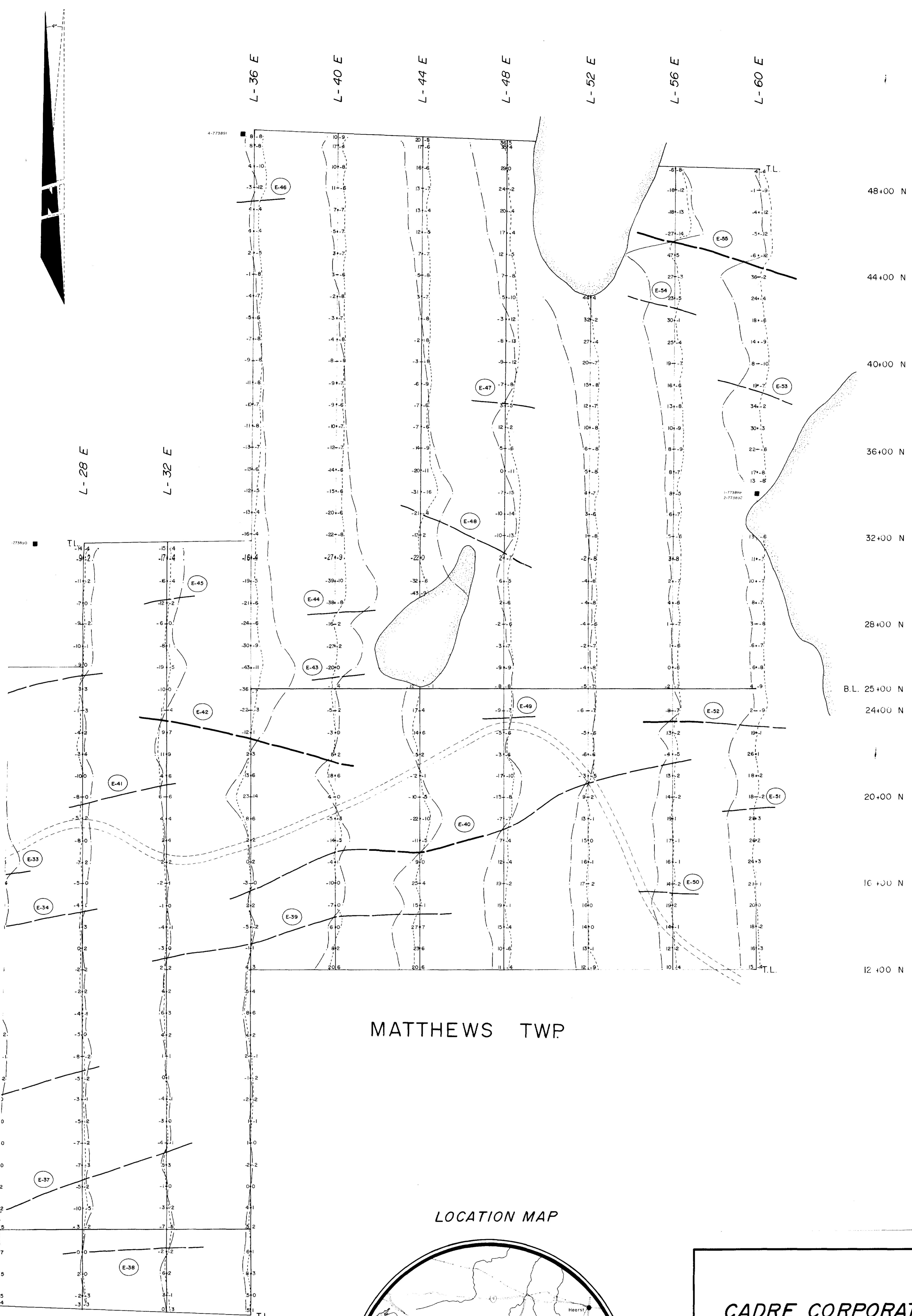
---

EXECUTED BY: *CDI surveys inc.*  
 COMPILED & DRAWN BY: *S RHEAUME*  
 APPROVED BY: *RESEAN GOSSELIN, M.Sc.*  
*Consulting Geologist*  
*Rijk, June 28, 1984*

MAGNETIC AXES

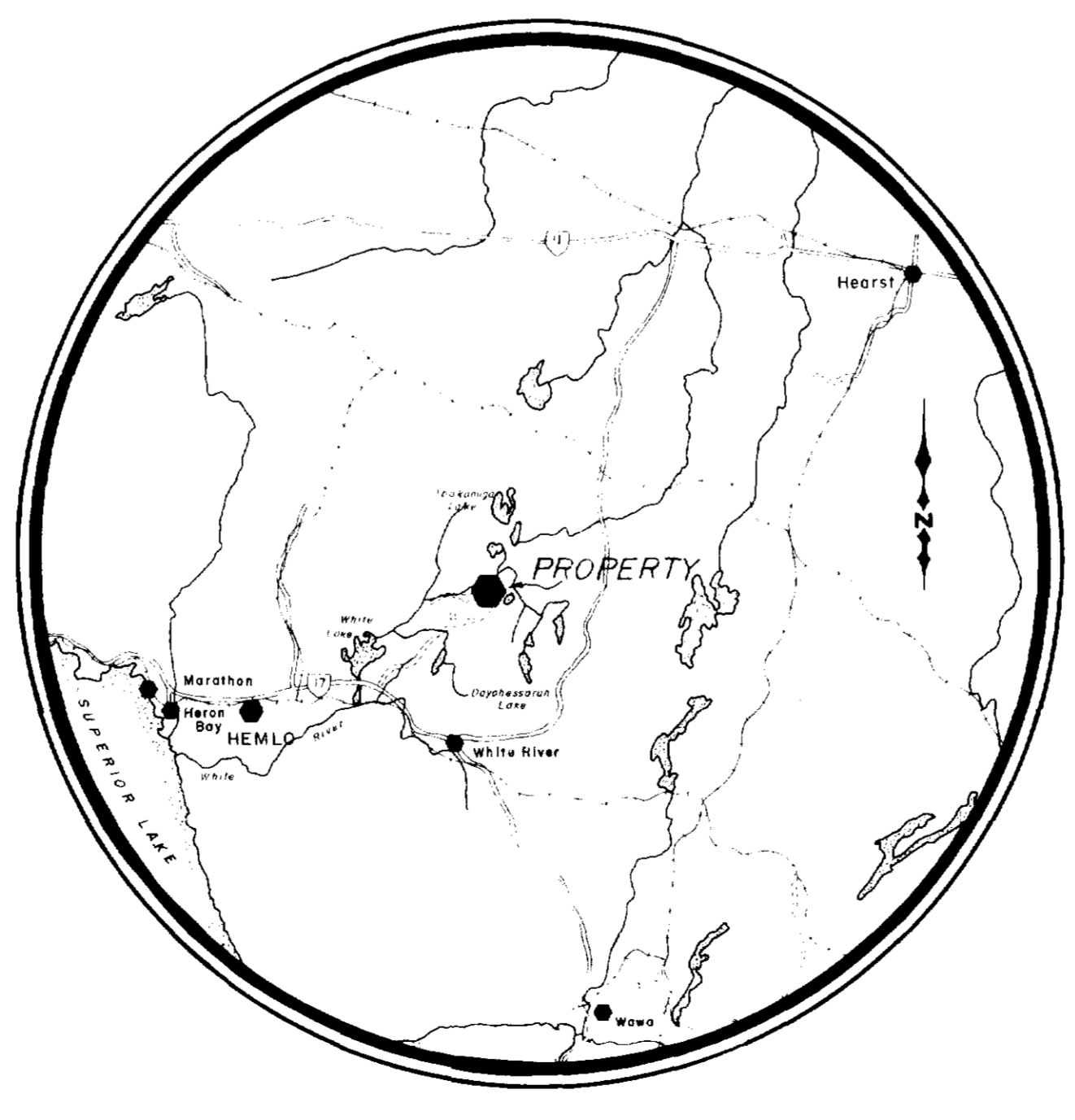
MATTHEWS-0010-A1 #4

Vol D'Or, Quebec, July 1983.



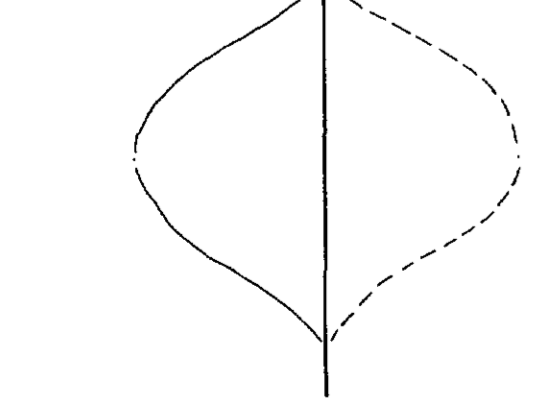
MATTHEWS TWP

LOCATION MAP



LEGEND

VLF Profiles  
 +40% In Phase -40% Out of Phase



- ROAD
- LAKE
- RIVER
- SWAMP
- CONDUCTOR AXES

MATTHEWS-0010-A1 #5

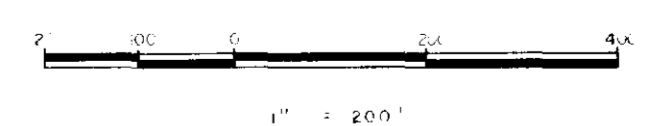
CADRE CORPORATION

MATTHEWS TWP  
 ONTARIO

PART EAST

VLF SURVEY "PROFILES"

Inst: EM-16 Station: CUTLER (NAA) Freq: 17.8 kHz

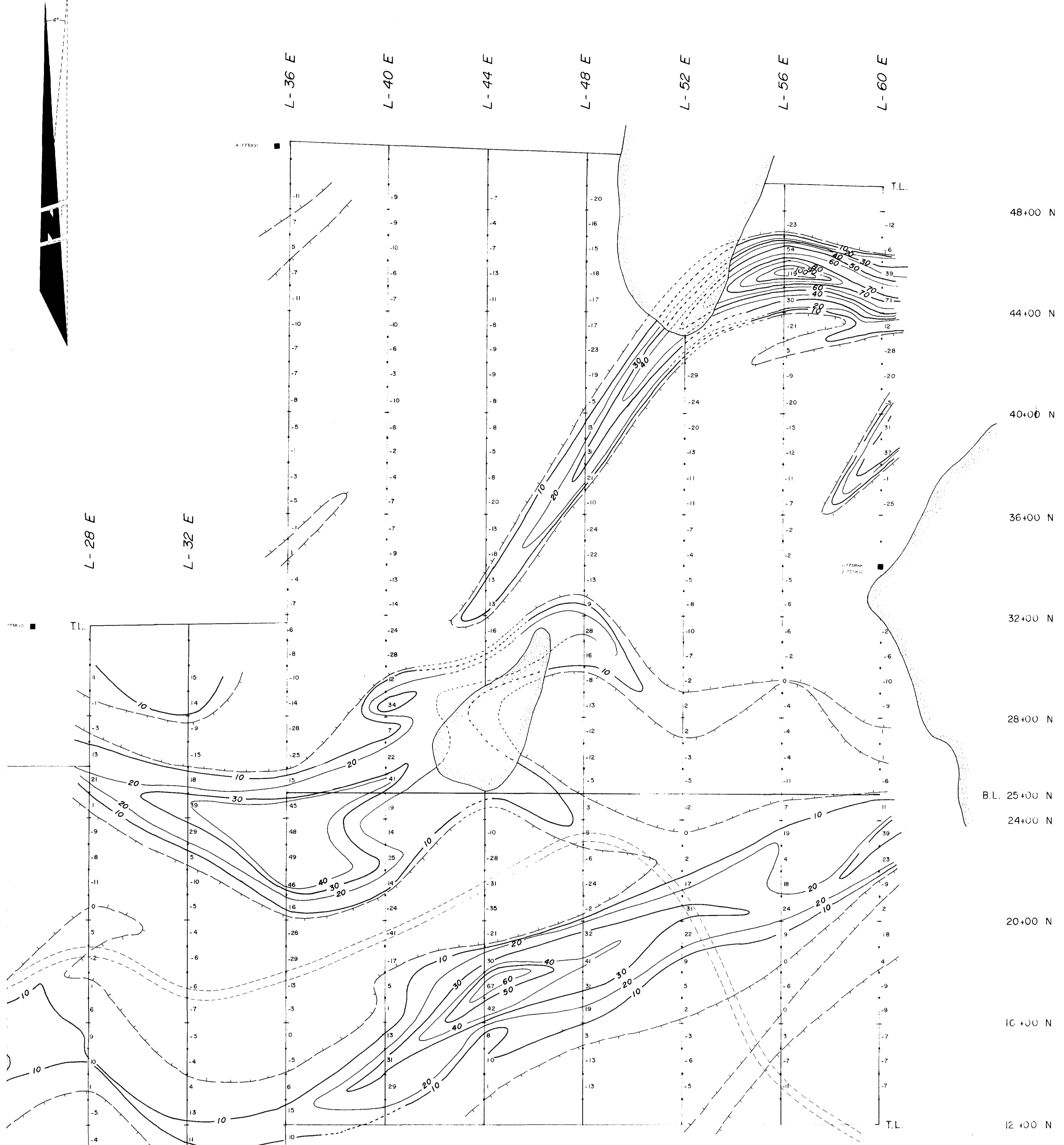


EXECUTED BY: CDI surveys inc.

COMPILED & DRAWN BY: S. RHEAUME

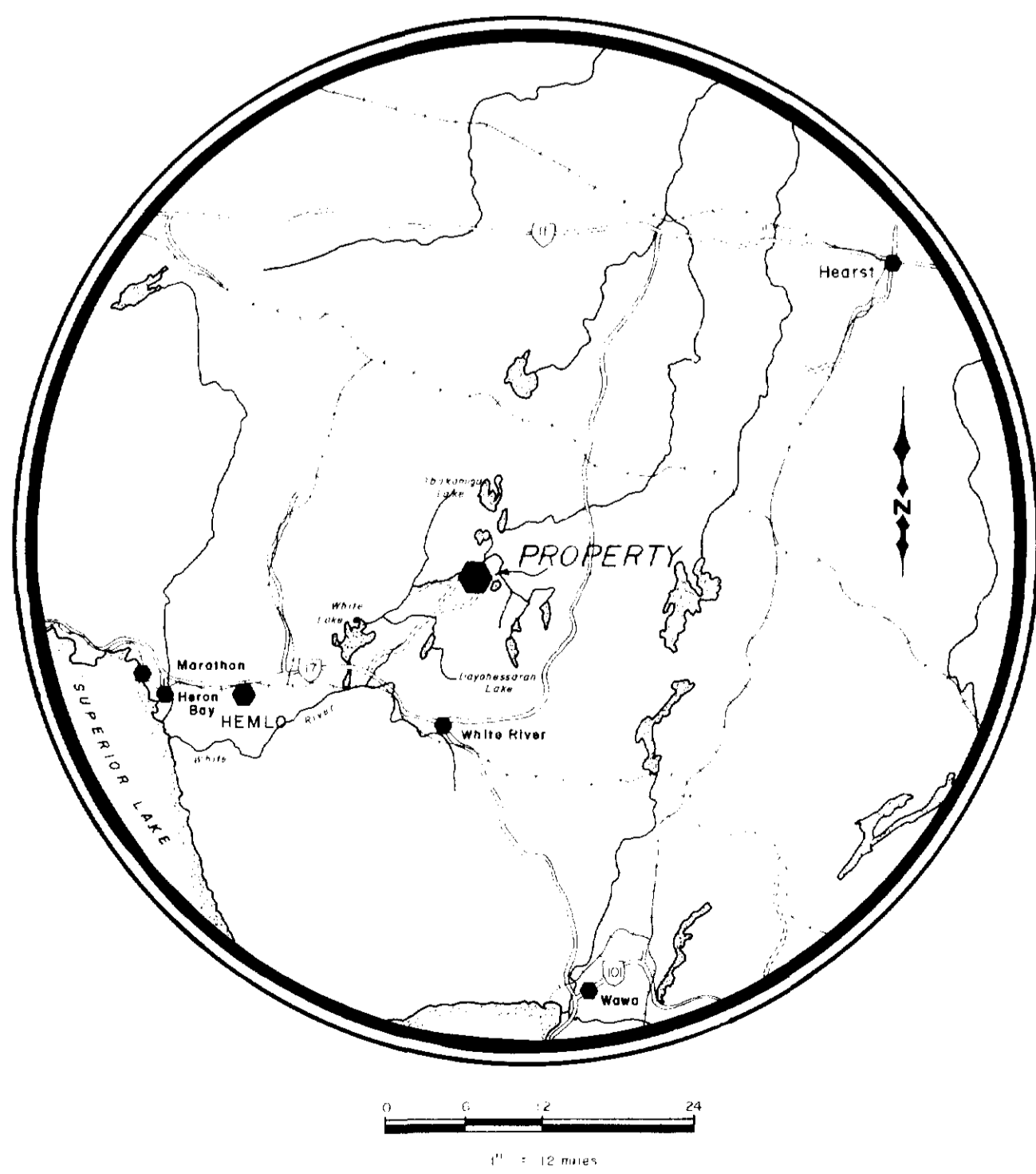
APPROVED BY: REJEAN GUSSELMAN, M.Sc.  
 Consulting Geologist

*RJK* June 28, 1984



MATTHEWS TWP

LOCATION MAP



LEGEND

BACKGROUND (Regional Value in FRASER UNIT) 0-10

10	-	20
20	-	30
30	-	40
40	-	50
50	-	60
60	-	70
70	-	80
80	-	90
90	-	100
100	-	OVER

- ROAD
- LAKE
- RIVER
- SWAMP

MATTHEWS-0010-A1 #6

**CADRE CORPORATION**

MATTHEWS TWP  
ONTARIO  
PART EAST

V.L.F. SURVEY "FRASER METHOD"

Inst: E.M-16 Station: CUTLER(NAA) Freq: 17.8 kHz

26458

1" = 200'

EXECUTED BY: **CDI surveys Inc.**

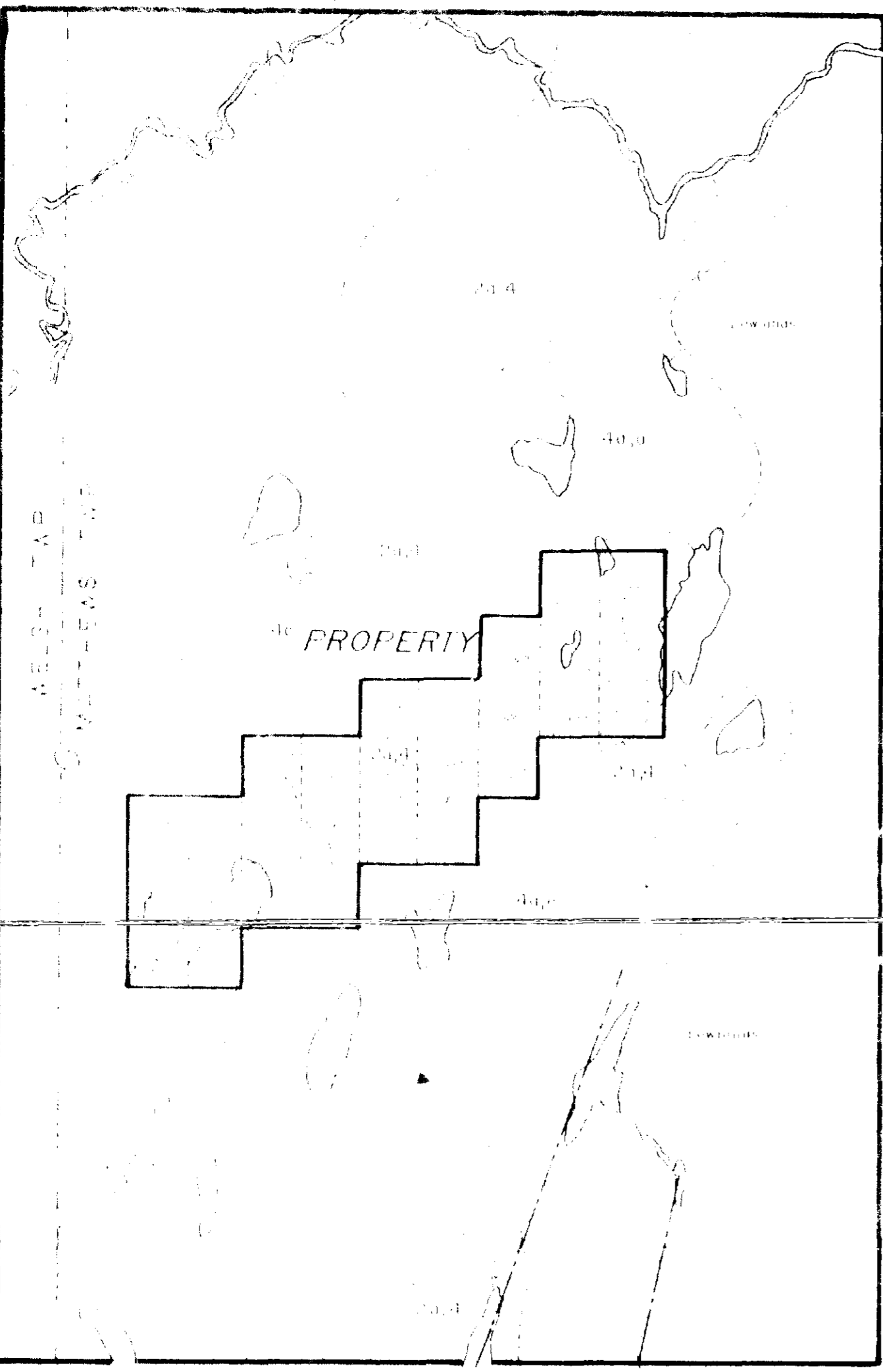
COMPILED & DRAWN BY: **S. RHEAUME**

APPROVED BY: **RESBAN Gosselin, M.Sc.**  
Consulting Geologist

June 28, 1984

Val D'Or, Quebec, July 1983.

# INDEX MAP & REGIONAL GEOLOGY

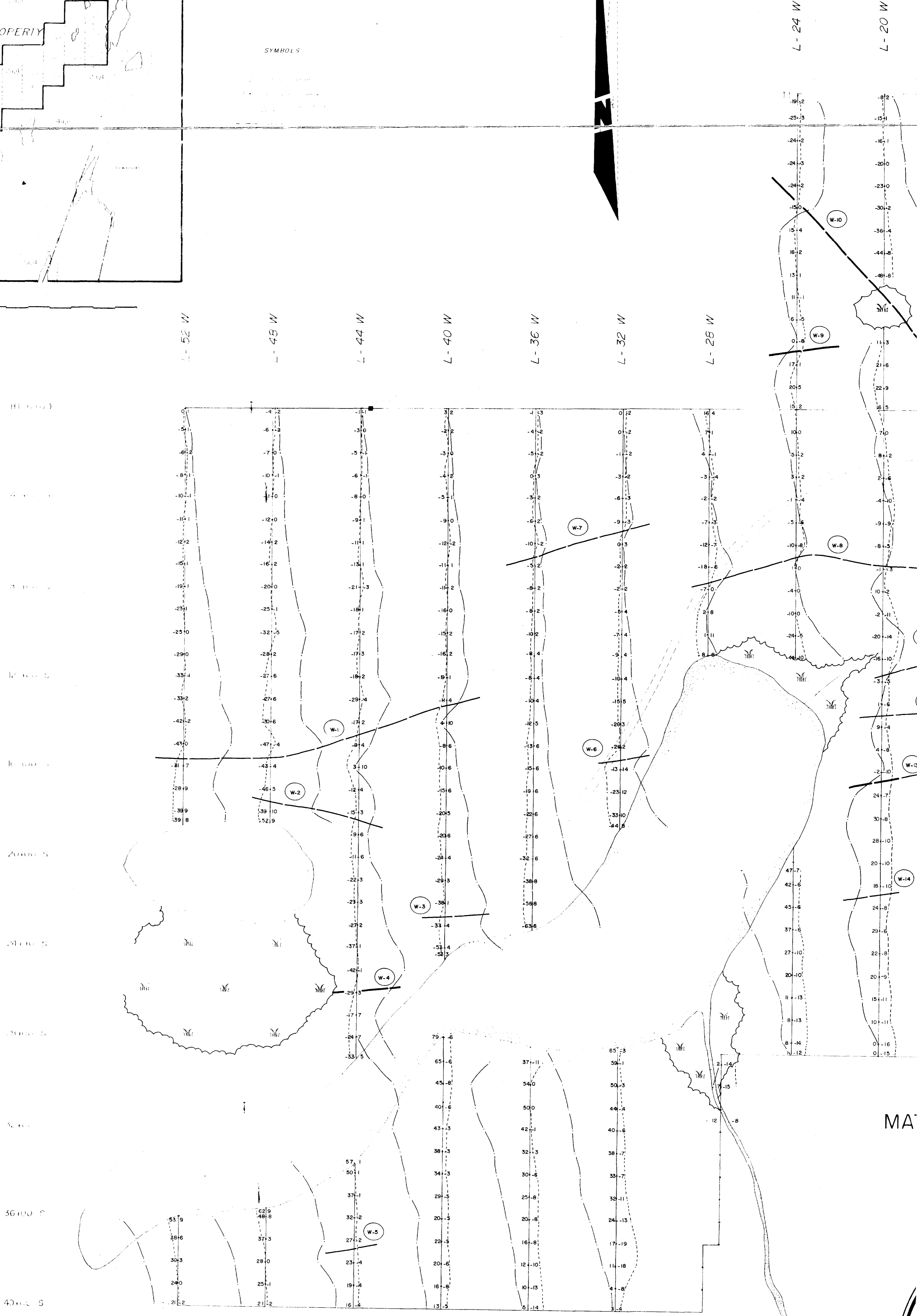


## LEGEND

PROPERTY  
 MA 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

## SYMBOLS

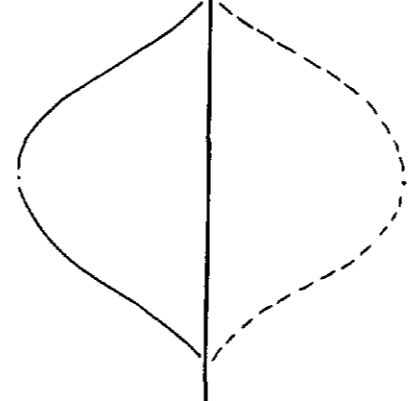
ROAD  
 LAKE  
 RIVER  
 SWAMP  
 CONDUCTOR AXES



## LEGEND

### VLF Profiles

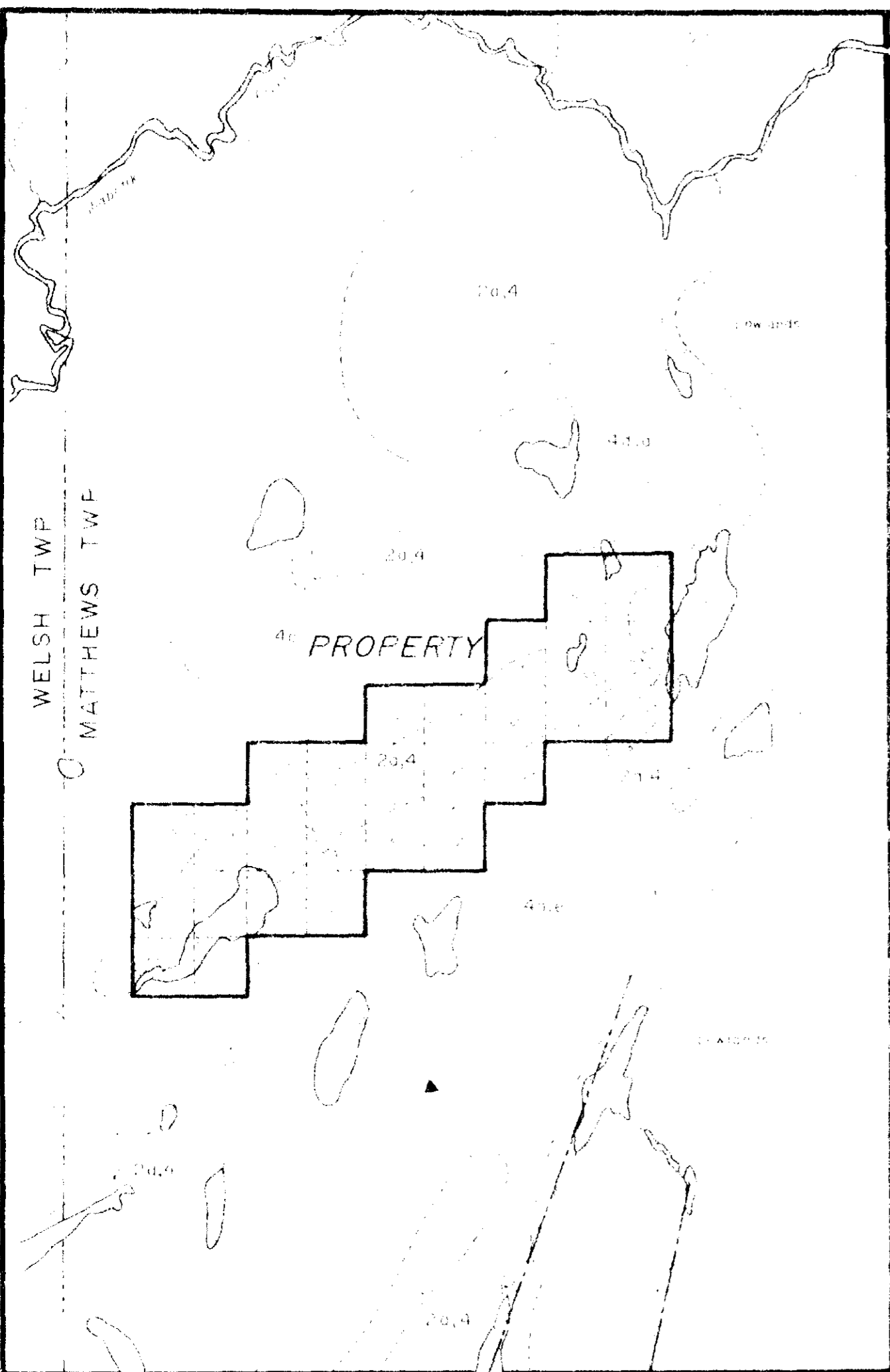
+40% In Phase -40% Out of Phase



- ROAD
- LAKE
- RIVER
- SWAMP
- CONDUCTOR AXES



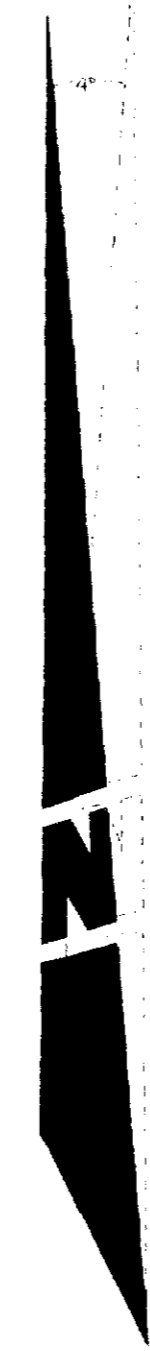
# INDEX MAP & REGIONAL GEOLOGY



**LEGENE**

SECTION  
 TOWNSHIP  
 RANGE

**SYMBOLS**



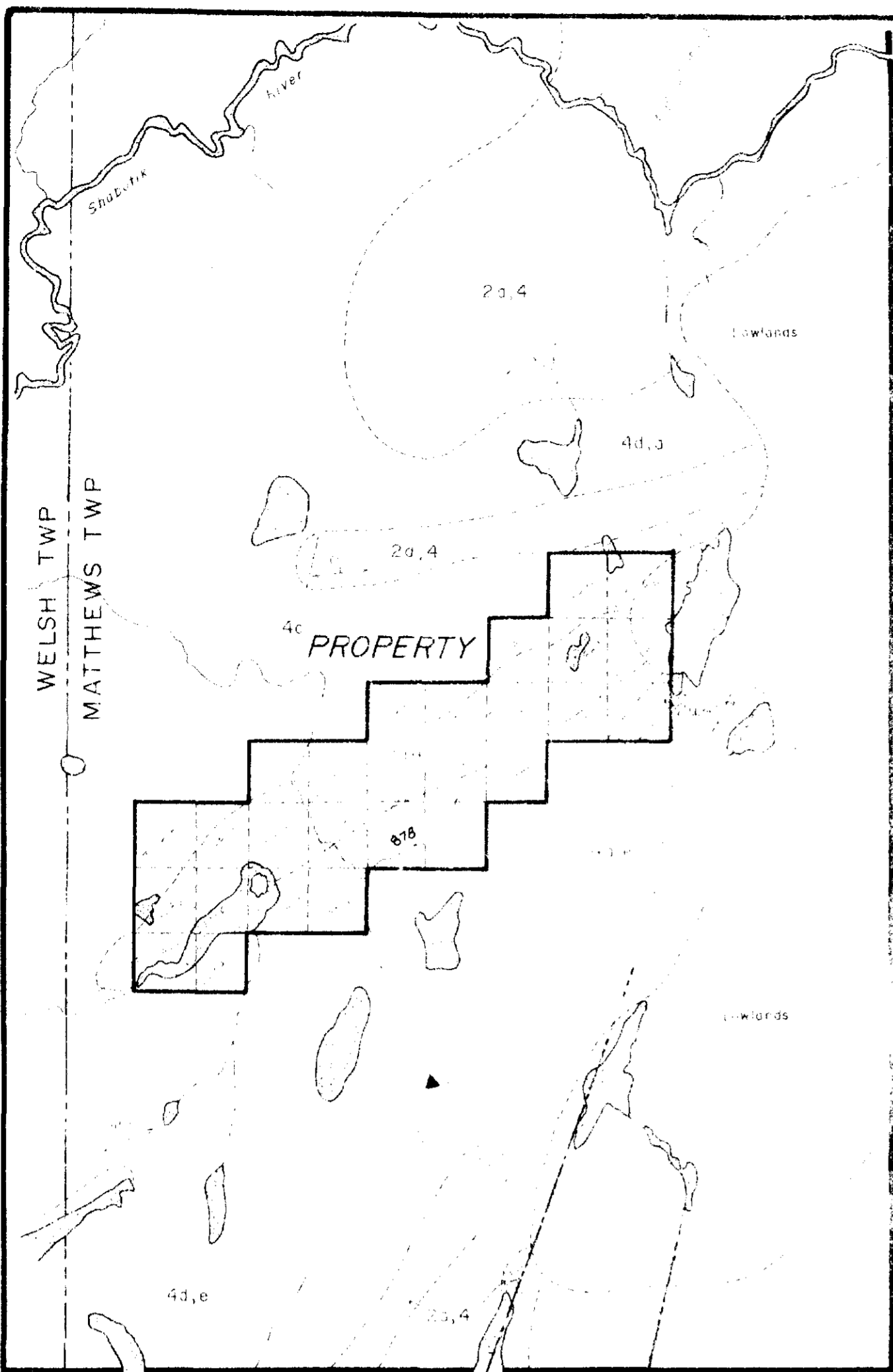
## LEGEND

BACKGROUND (Regional Value in FRASER UNIT) 0-10	
10	20
20	30
30	40
40	50
50	60
60	70
70	80
80	90
90	100
100	OVER

	ROAD
	LAKE
	RIVER
	SWAMP





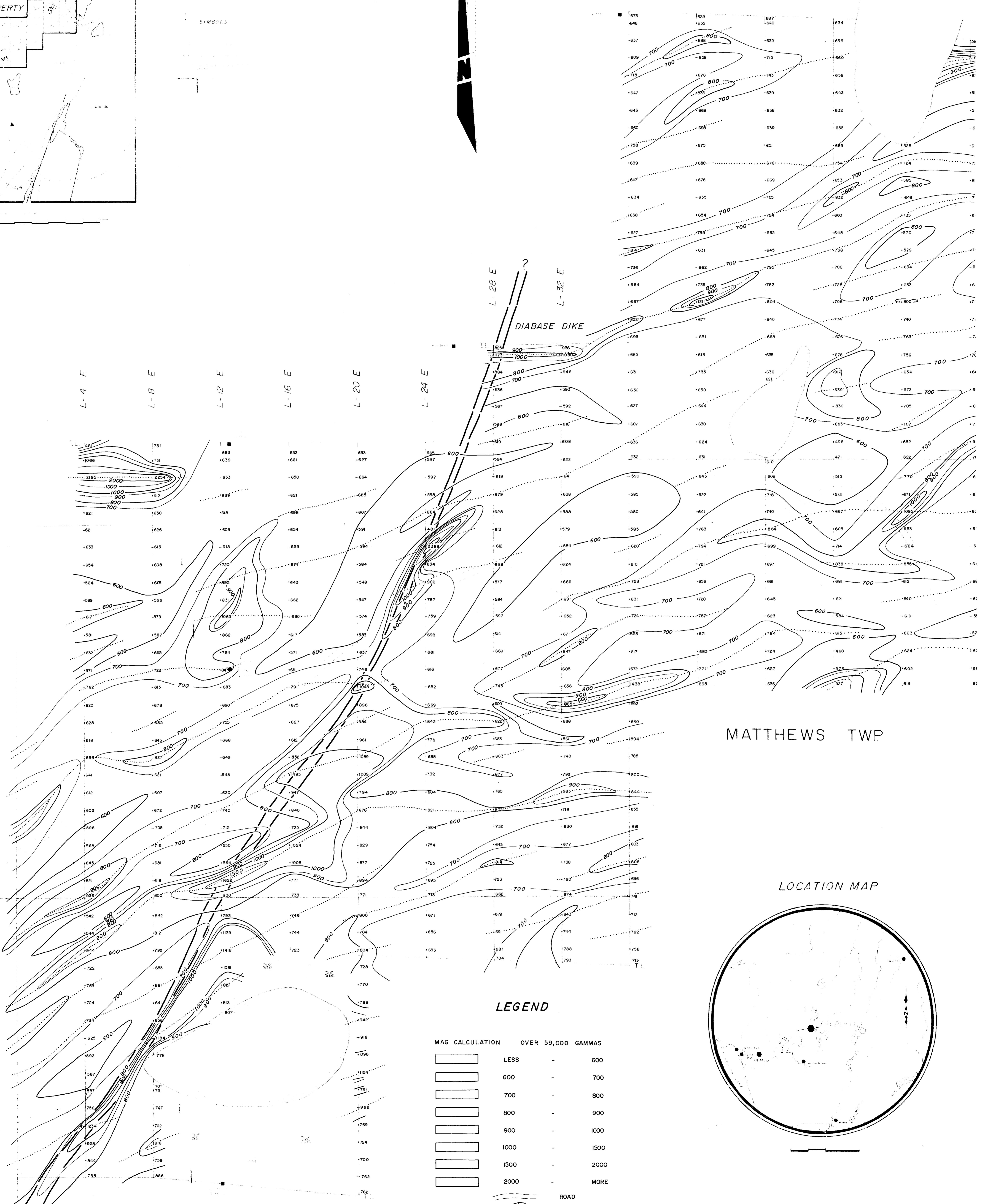
INDEX MAP of REGIONAL GEOLOGY

LEGEND  
 PROJECTIONS  
 METERS  
 SYMBOLS



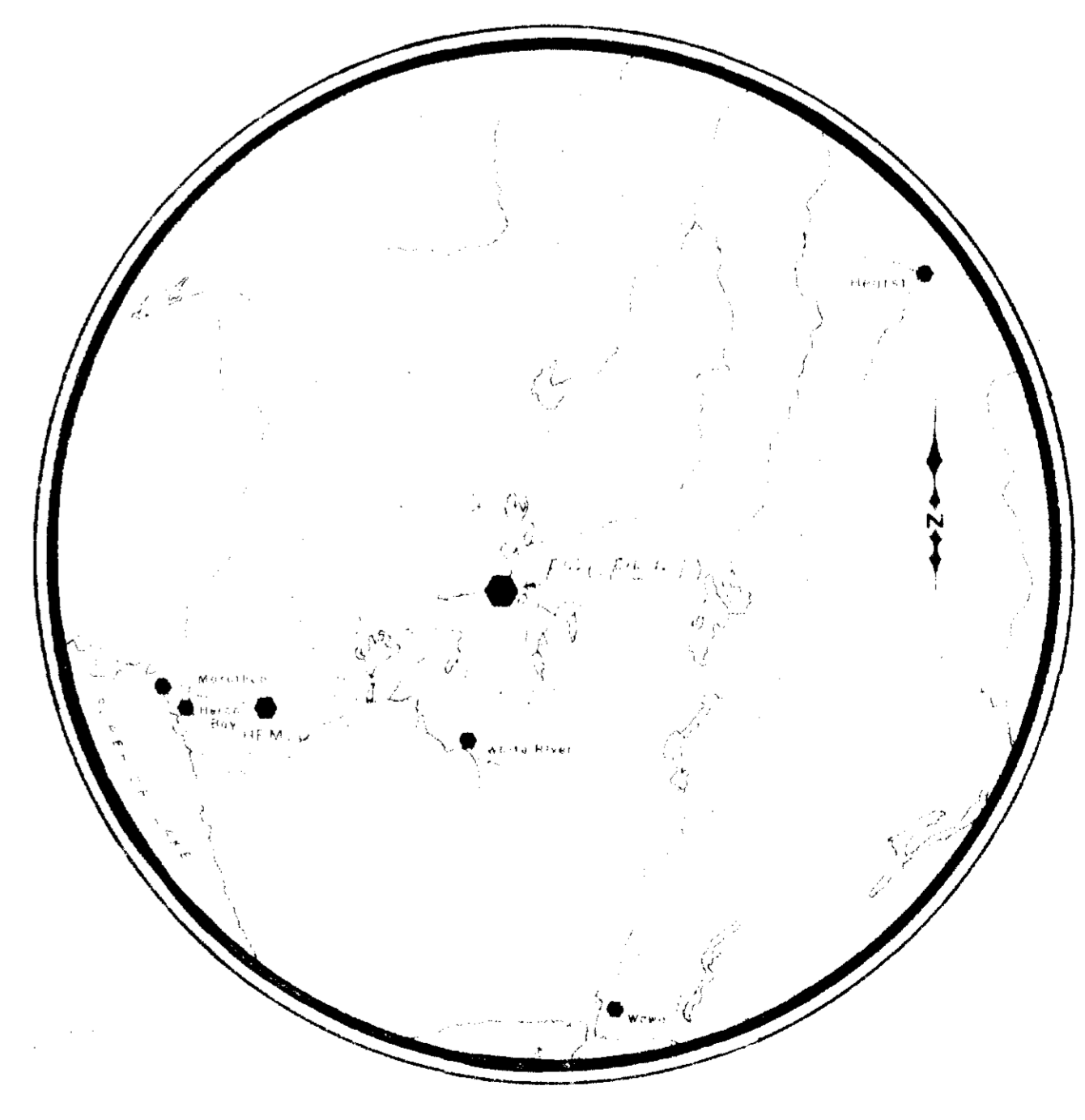
L-30 E L-40 E L-44 E L-48 E L-52 E L-56 E

25+00 N  
 24+00 N  
 20+00 N  
 16+00 N  
 12+00 N  
 8+00 N  
 4+00 N  
 0+00 N  
 4+00 S  
 8+00 S  
 12+00 S  
 16+00 S



MATTHEWS TWP

LOCATION MAP



LEGEND

MAG CALCULATION		OVER 59,000 GAMMAS	
[Symbol]	LESS	-	600
[Symbol]	600	-	700
[Symbol]	700	-	800
[Symbol]	800	-	900
[Symbol]	900	-	1000
[Symbol]	1000	-	1500
[Symbol]	1500	-	2000
[Symbol]	2000	-	MORE

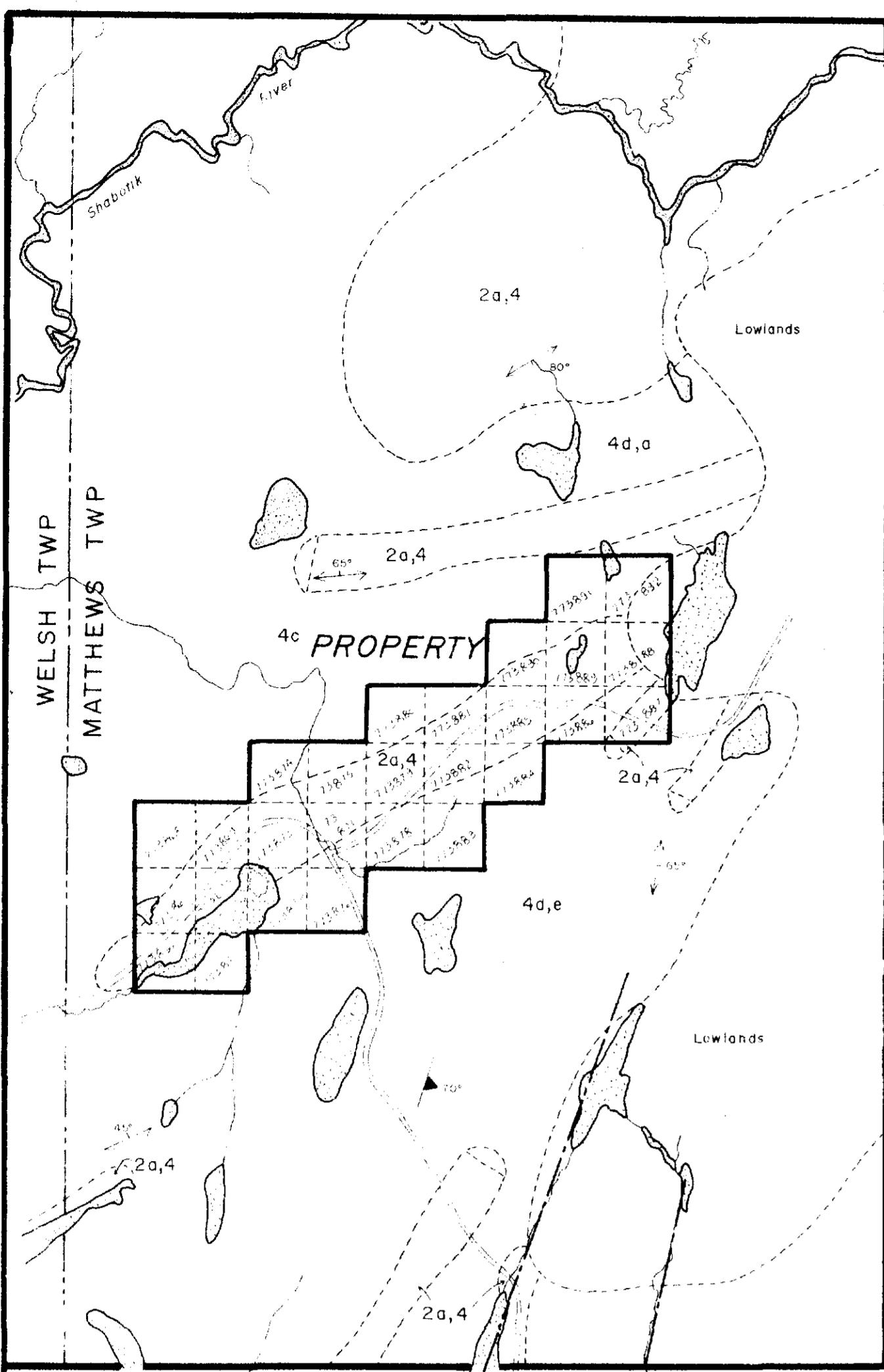
ROAD  
 LAKE  
 RIVER  
 SWAMP

MAGNETIC AXES

MATTHEWS-0010-A1 #3



INDEX MAP & REGIONAL GEOLOGY

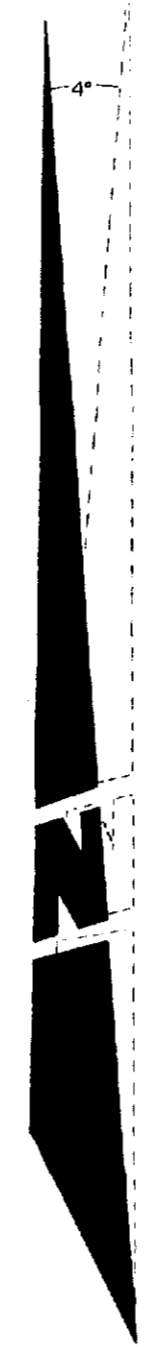


**LEGEND**

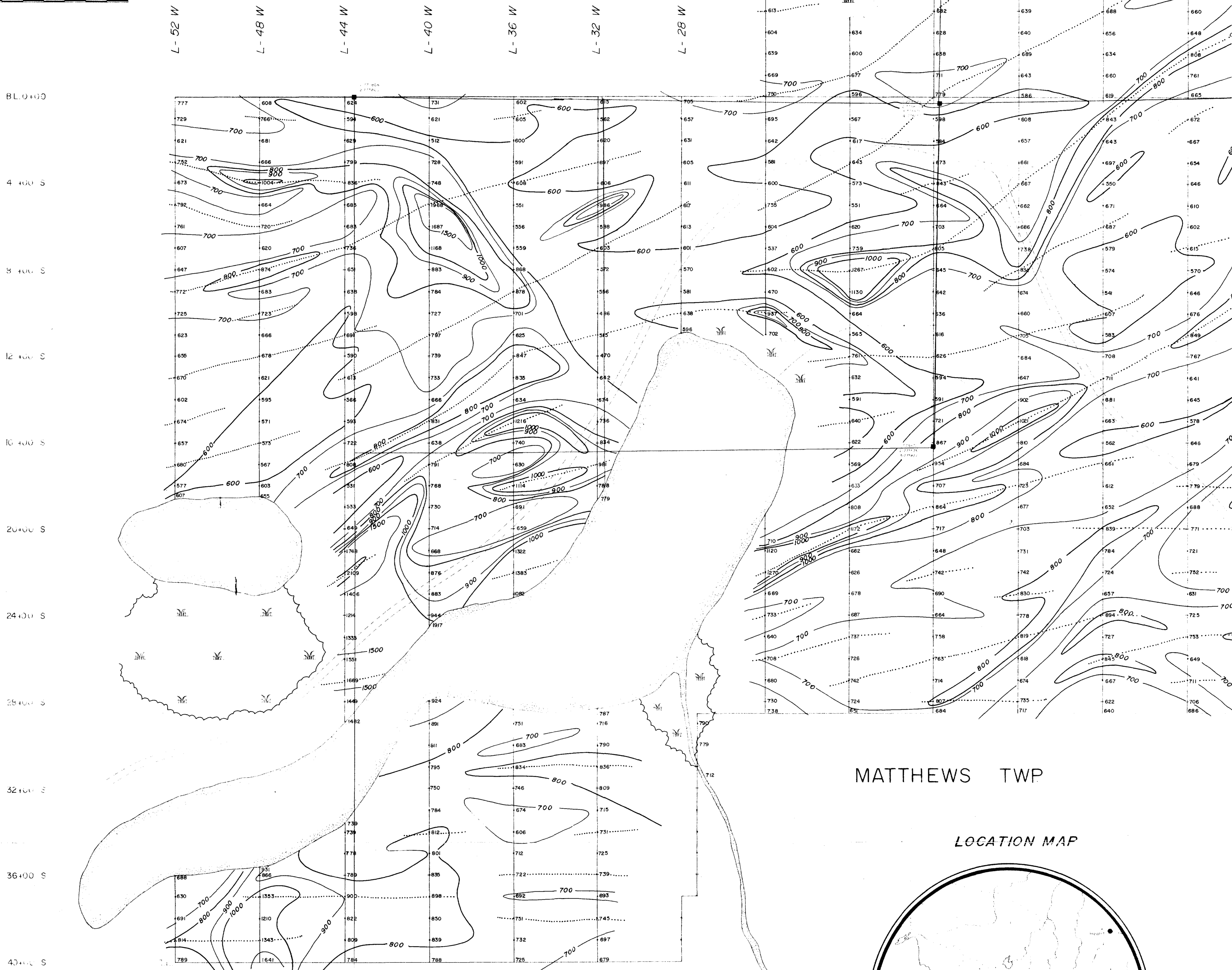
ARCHEAN  
GRANITIC ROCKS  
4c PROPERTY  
METASEDIMENTS and  
METAVOLCANICS

**SYMBOLS**

ROAD  
LAKE  
RIVER  
SWAMP

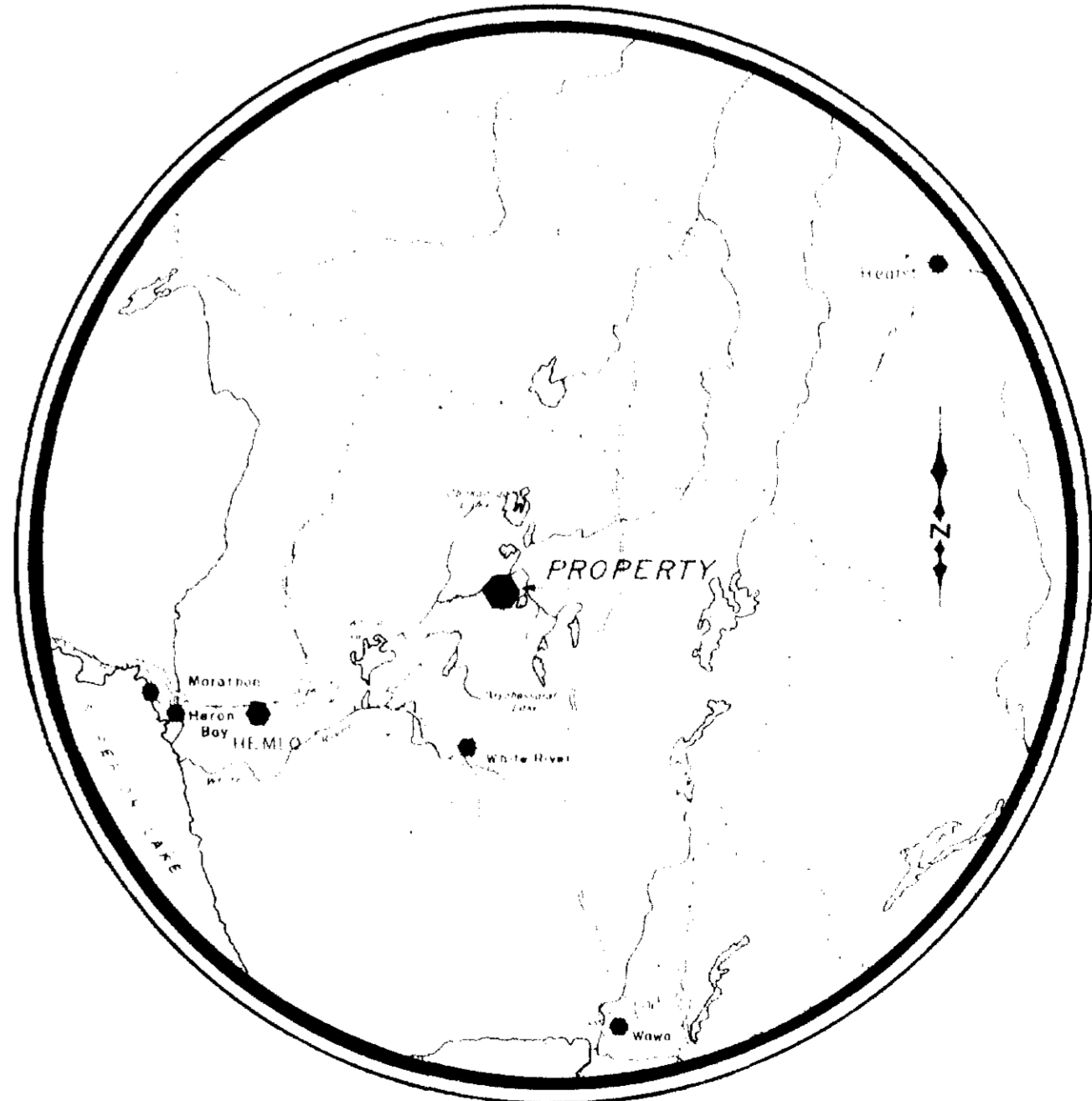


L-24 W L-20 W L-16 W L-12 W L-8 W L-4 W



MATTHEWS TWP

LOCATION MAP



**LEGEND**

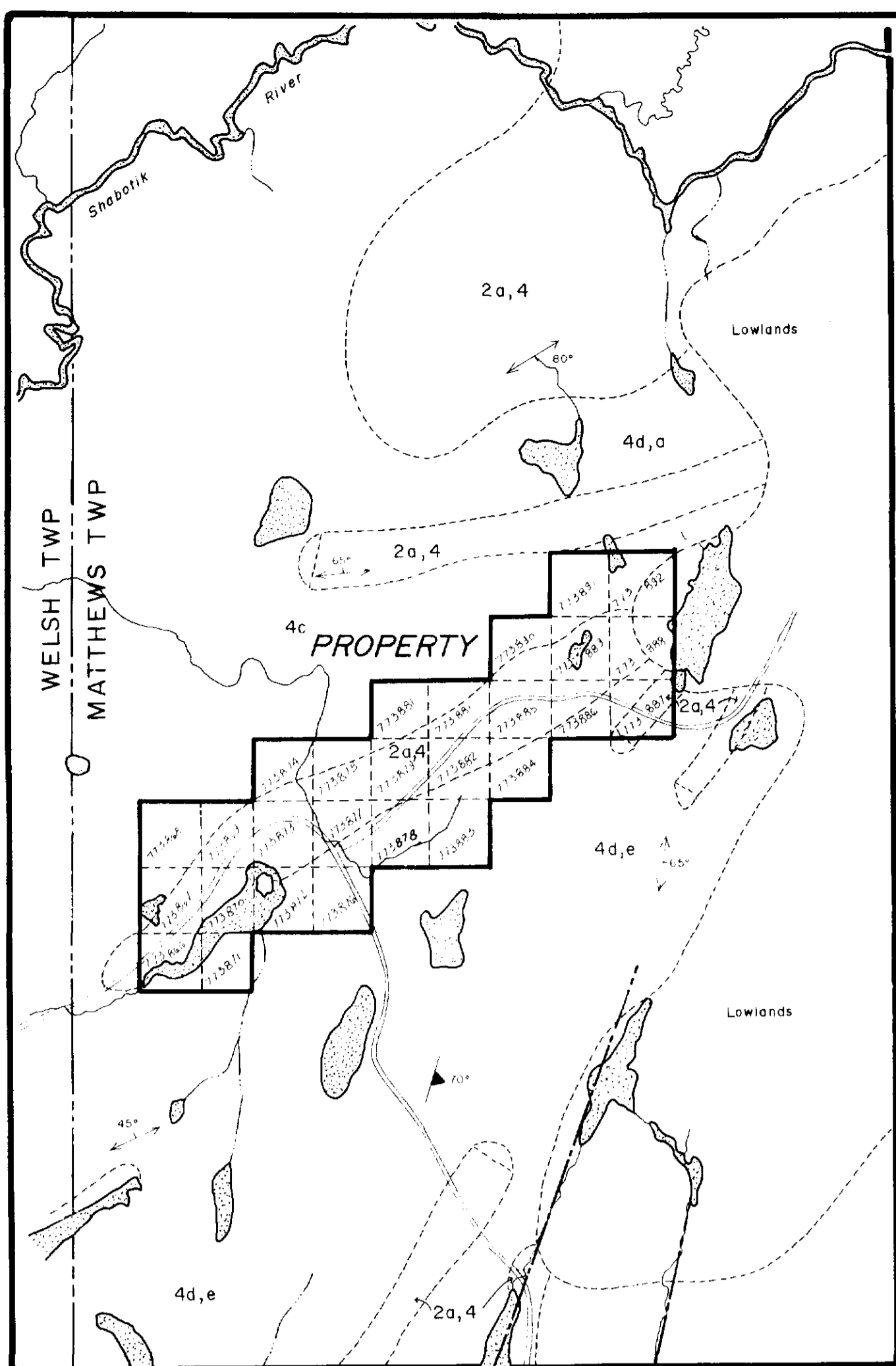
MAG CALCULATION		OVER 59,000 GAMMAS	
[White box]	LESS	-	600
[Light gray box]	600	-	700
[Medium-light gray box]	700	-	800
[Medium gray box]	800	-	900
[Medium-dark gray box]	900	-	1000
[Dark gray box]	1000	-	1500
[Very dark gray box]	1500	-	2000
[Black box]	2000	-	MORE

ROAD  
LAKE  
RIVER  
SWAMP

MAGNETIC AXES

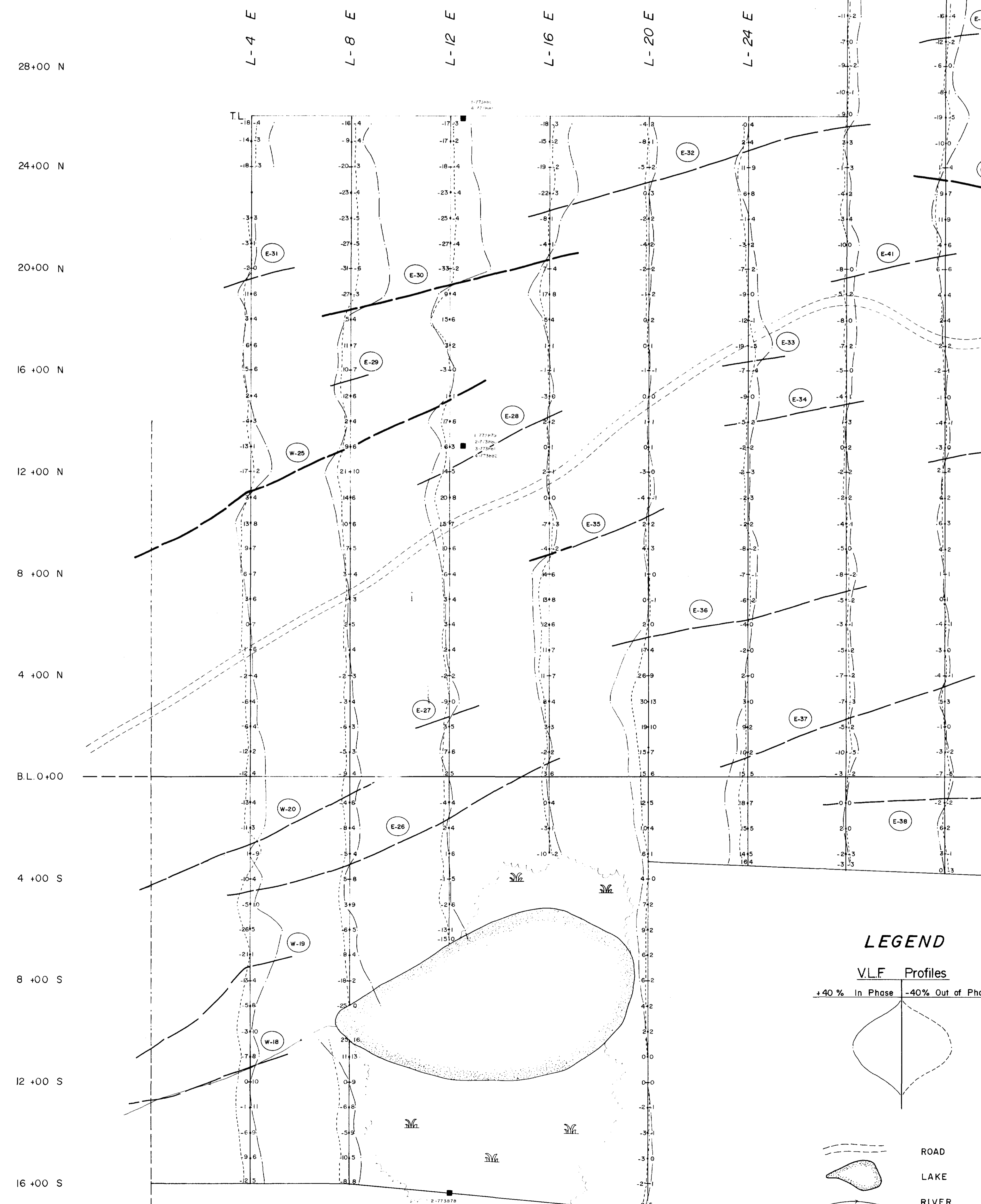
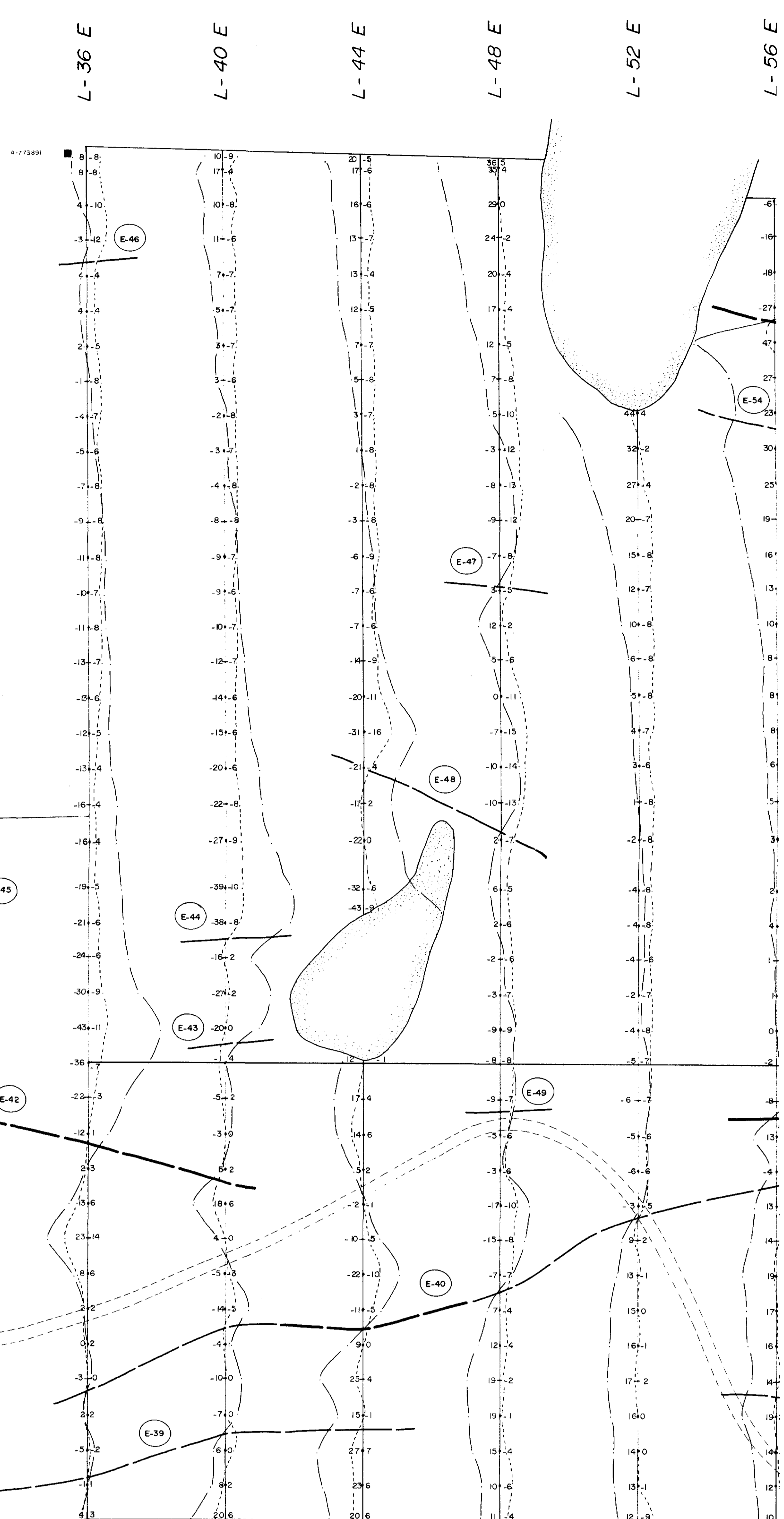
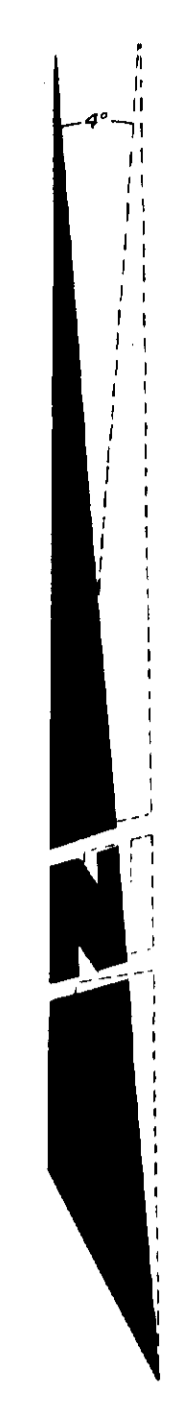
MATTHEWS-0010-A1 #4





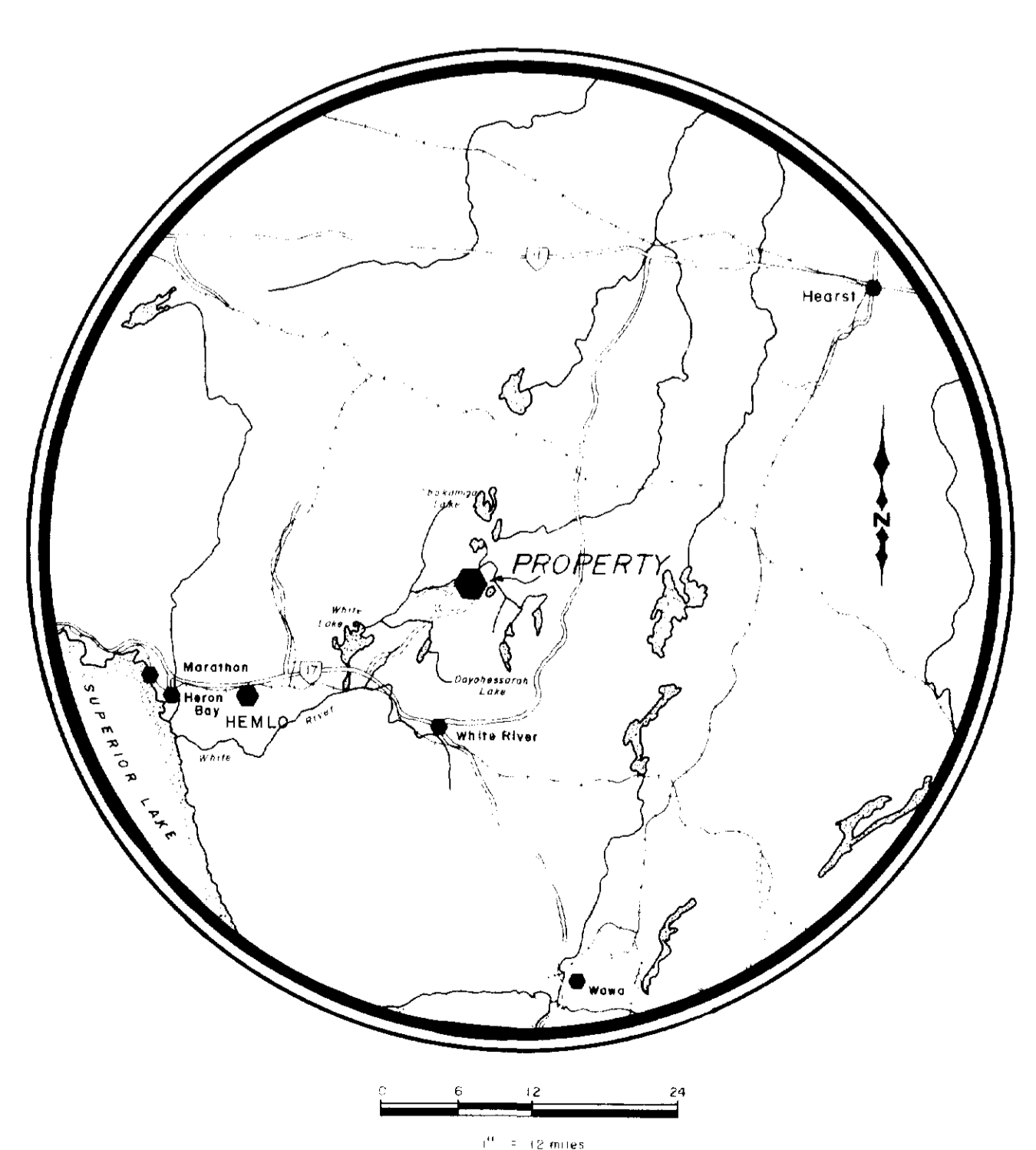
INDEX MAP & REGIONAL GEOLOGY

- LEGEND**
- ARCHEAN GRANITIC ROCKS**
- 4 Gneiss, mica, biotite, quartz
  - 4a Feldspar, quartz, biotite, hornblende, garnet, epidote
  - 4b Quartz, biotite, hornblende, garnet, epidote
  - 4c Pegmatite
- METASEDIMENTS and METAVOLCANICS**
- 2 Amphibole, quartz, biotite, hornblende
- SYMBOLS**
- Structure, inferred, unproved
  - Geological boundary, inferred, unproved
  - Geological boundary, actual, unproved
  - Property



MATTHEWS TWP

LOCATION MAP



**LEGEND**

- VLF Profiles**
- +40% In Phase
  - 40% Out of Phase
- ROAD
  - LAKE
  - RIVER
  - SWAMP
  - CONDUCTOR AXES

MATTHEWS-0010-A1 #5



