

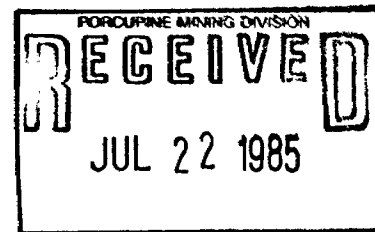


42A125E0246 2.8296 ROBB

010

REPORT ON A MAGNETIC SURVEY AND
AN ELECTROMAGNETIC SURVEY ON THE KAMISKOTIA PROPERTY
OF LEGION RESOURCES LTD.

RECEIVED
JUL 23 1985
MINING LANDS SECTION



Prepared by:

Bill Goble

For submittal to:

The Ontario Ministry of Natural Resources
and Legion Resources Ltd.



42A12SE0246 2.8296 ROBB

010C

TABLE OF CONTENTS

	<u>PAGE</u>
<u>INTRODUCTION:</u>	1
<u>LOCATION AND ACCESS:</u>	1
Ownership of claims:	3
Covering dates of Surveys:	4
<u>SUMMARY OF EXPLORATION AND DEVELOPMENT:</u>	6
<u>SURVEY METHODS:</u>	6
Magnetic Survey:	6
Horizontal Loop Electromagnetic Survey	7
<u>DESCRIPTION OF ANOMALIES:</u>	8
Magnetic Anomalies:	8
Electromagnetic Anomalies:	8
<u>CONCLUSIONS:</u>	9
<u>CERTIFICATE OF QUALIFICATION:</u>	11
<u>APPENDIX:</u>	12
<u>REFERENCES:</u>	15

LIST OF MAPS AND FIGURES

FIGURE 1 - Property Location	2
FIGURE 2 - Location of Claims	5
MAPS NO. 1, 2, 3, 4, In back of report	

INTRODUCTION:

This report is a compilation and assessment of the geophysical data gathered, in May and June of 1985, from the Kamiskotia Property of Legion Resources Ltd.. The property is located in the Township of Robb in the Porcupine Mining District.

The report was prepared by a Mr. Bill Goble who describes a magnetic and an electromagnetic survey. The magnetics generally reflects the local geology and the EM survey outlines a few poorly conductive zones. The terminology, units of measurements, and assumed prerequisite knowledge are those employed in the fields of geology and geophysics.

LOCATION AND ACCESS:

The Kamiskotia Property of Legion Resources Ltd., lies within the Porcupine Mining Division of the Province of Ontario. It consists of five unpatented mining claims in the southeast part of the Township of Robb (see Figure No. 1).

Kamiskotia Lake is about one half mile north of the property. The property is accessible via a cottage road which turns off the Timmins - Kam Kotia road north of the lake and travels west, around the lake, to the south end. From the end of this road it is about a one half mile walk, along claim lines, to the property.

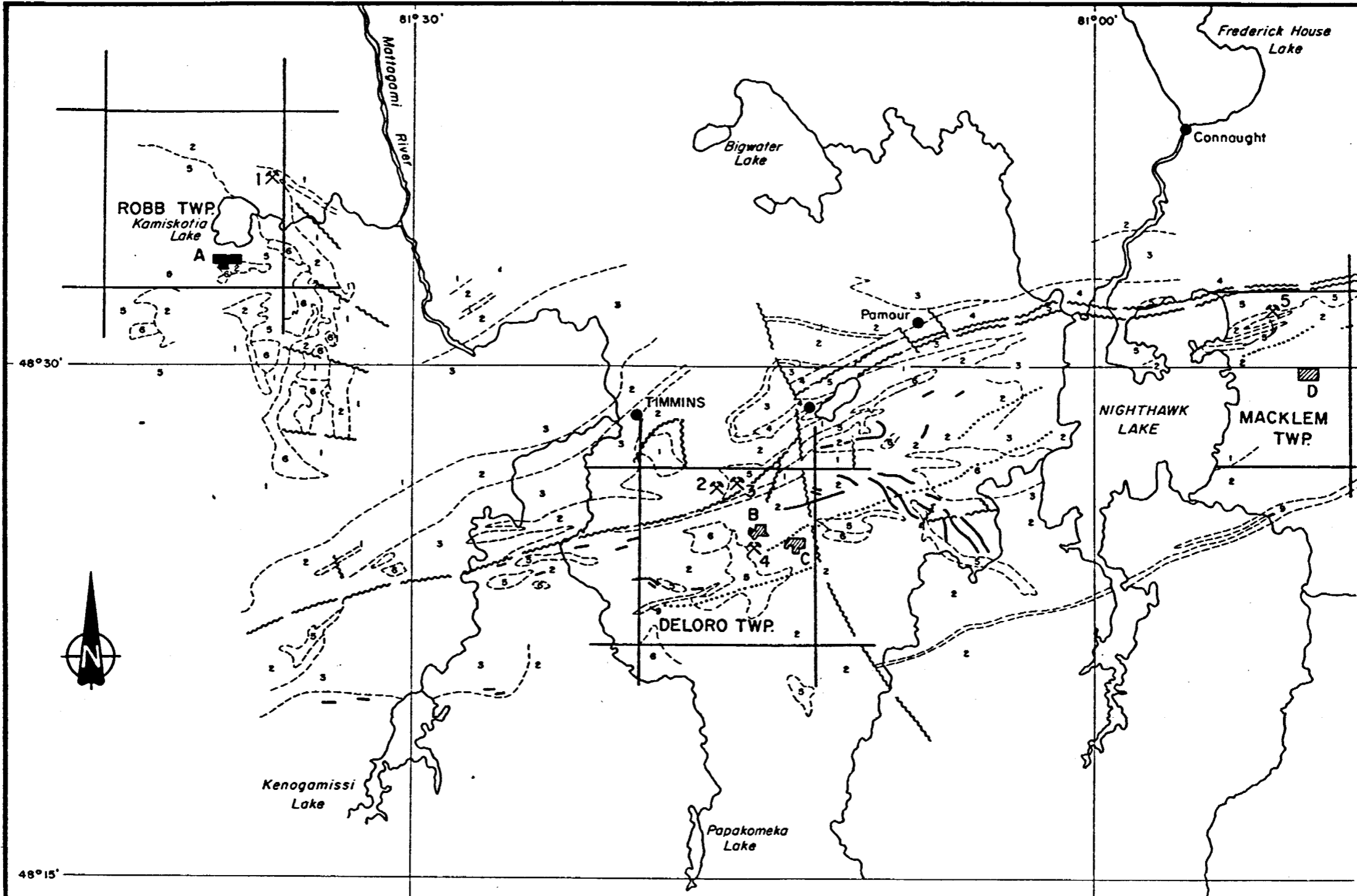


Figure 1

1" = 4 miles

The claims are also accessible via Kamiskotia Lake and Twenty-Six Mile Creek which traverses the easternmost claims.

Ownership of Claims:

The five unpatented claims are presently held by Legion Resources Ltd., of 5500 Tomken Road, Unit # 16, Mississauga, Ontario.

The claims are listed as follows:

<u>Claim No.</u>	<u>Approximate Area</u>
P724997	40 acres
P724998	40 acres
P725002	40 acres
P725003	40 acres
P725004	40 acres

The total area of the claims is about two hundred acres (see Figure No.2).

Covering Dates of Surveys:

There were two separate surveys done.

(A) a magnetometer survey

- started on May 25, 1985 and completed on May 27, 1985

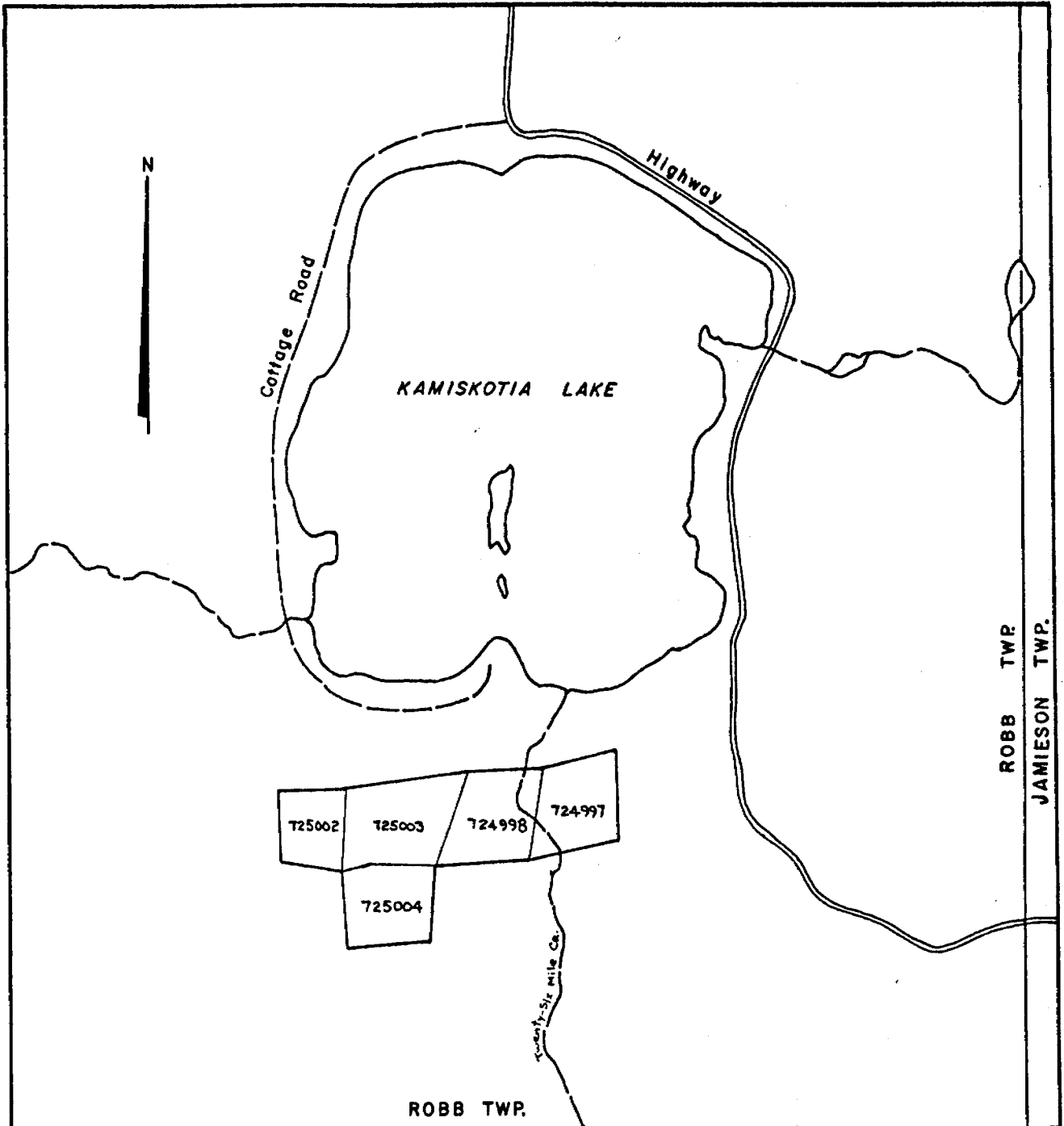
(B) an electromagnetic survey

- started on June 2, 1985 and completed on June 5, 1985

Upon acceptance of this report the assessment work for these claims will be complete up to June 2, 1986. The work was done by Mr. Bill Goble, the writer of this report (see Certificate of Qualification).

SUMMARY OF EXPLORATION AND DEVELOPMENT:

The Kamiskotia Property of Legion Resources Ltd., includes part of the Hill-Haggquist claim group described by Ferguson et al (1971, p. 135) as; gold occurring in a stockwork of quartz veins in a granite stock. P. Luisakoff, D. Hill and D. Haggquist did surface prospecting in 1920 to 1923. In 1924 sampling by Homestake Mining Company and later a small amount of drilling by Hollinger Consolidated Gold Mines Ltd..(ibid)



From Claim Map M.309,
 Robb Twp., Porcupine Mining
 Division, Ontario, Oct. 1983.

**CLAIM LOCATION PLAN OF THE KAMISKOTIA
 PROPERTY, ROBB TWP., ONT.**

Scale: 1 inch = 1/2 mile

Figure 2

Several mining groups have explored the Kamiskotia area, the most relevant project being the Vatco Exploration program in 1981-1983. The project originally included eighty claims which decreased to five. Ownership of these claims were then obtained by Opex Resources (Hogg, 1983, p.4). Since that time ownership has passed to Legion Resources Ltd., who is the present holder of the claims.

In 1981 McGill Exploration ltd., was asked to do some work on the property. This involved VLF-EM and Magnetic surveys and limited sampling and mapping. In 1983 R. Sproule geologically mapped the five claims for Vatco Exploration (ibid).

SURVEY METHODS:

Magnetic Survey:

The magnetic survey was conducted with a Geometrics G826 proton precession magnetometer. The baseline was surveyed twice during a period of little magnetic diurnal change, and baseline values were determined. The survey lines were read with a looping technique which required a tie-in at the baseline after each loop. In this way the diurnal change was recorded and then removed, mathematically, from the survey readings. Due to the severe magnetic gradients on the property, readings were taken at 12.5 meter intervals whenever there was a fifty gamma change in

25 meters. Finally, 58900 gammas were subtracted from each reading to facilitate plotting.

The data was plotted on a 1:2500 scale, with a contour interval of 100 gammas. The survey is believed to be accurate to plus or minus 10 gammas. It should be noted that parts of lines 500 E and 600 E were unreadable due to flooding.

Horizontal Loop Electromagnetic Survey:

The HLEM system used was the Apex Parametrics MAX MIN 11 EM several tests were made at 100, 150, and 200 meters coil spacings and it was found that the best response was achieved at 200 meters on the three highest frequencies (3555 Hz, 1777 Hz, 888 Hz). There were little or no responses on lower frequencies.

The reference cable was marked at 200 meters and used as a chain to maintain the proper coil separation. The grid was then read at frequencies of 3555 Hz, 1777 Hz and 888 Hz.

Care was taken at all times to maintain a proper coil geometry and separation of 200 meters. This survey is believed to be repeatable to within plus or minus one percent. It should be noted that line 1000 E was not read due to its short length.

DESCRIPTION OF ANOMALIES:

Magnetic Anomalies:

There is an anomaly (see MAP NO.1) of up to 1500 gammas along the northern boundary of the property. It goes from 600 W to about 350 E and stops at a magnetic depression. Along lines 300 E and 400 E are several anomalies which appear to have been faulted and displaced along the lines.

Just to the south of the northern boundary is an area that is about 150 meters wide and has magnetic values of one hundred to two hundred gammas. South of this zone the background drops to less than one hundred gammas.

To the east of Twenty-Six Mile Creek it is very flat magnetically, with the exception of the south half of line 900 E. These readings vary from one hundred to six hundred gammas.

There are six other anomalies on the grid. They are all very localized; having no strike length. They range in magnitude from three hundred to one thousand gammas in magnitude and do not seem to indicate any sort of geological event or structure.

Electromagnetic Anomalies:

(see MAPS NO. 2, 3 and 4) At 600 W - 400 N there is a conductor with no strike length, which may extend to the west.

At 100 W - 150 S to 400 W - 150 S there is a flat lying conductor coincident with the filtered VLM - EM conductor presented by Hogg (1983, MAP NO.3) and with an old trench that showed minor gold values which is located at 250 W - 175 S (Hogg, 1983,MAP NO.1).

The response which goes from 100 W - 325 N to 400 E - 100 N indicates two conductors. These are fifty meters apart at the west and spread to about seventy five meters apart to the east. These profiles are coincident with the inferred contacts described by Hogg between the Gabrro and the recrystallized rocks.

At 200 W - 150 N to 100 W - 75 N there are two responses divided by about seventy five meters.

There appears to be an indication of something on line 900 E but the survey line is not long enough to allow anything definitive to be said.

CONCLUSIONS:

The EM conductors that are shown on maps no. 2, 3 and 4 generally agree with the Fraser filtered VLF - EM data presented by Hogg (1983, MAP NO. 3). However it should be noted that none of the conductors shows a good conductor response. The ratio of in phase minima/out of phase minima is much less than unity in all cases. This could be partially caused by conductive burden, but the overburden on this property is very thin in most places. It

probably means that the profiles are caused by sources that are poorly conductive. The responses are not very broad (less than one coil spacing) and so are probably caused by very thin conductors. The maximum depth to each would be about one hundred meters.

At about 350 E the magnetics (MAP NO.1) supports the idea of an approximately north - south striking fault, with a right - hand strike slip of about two hundred meters. A Gabbro unit (Hogg, 1973, MAP NO.1) is reflected by a magnetic zone of 1500 gammas in magnitude along the northern boundary. To the south of the Gabbro and parallel to it is an area where the background is one hundred to two hundred gammas. This covers the same area as the EM anomalies that run from 100 W - 325 N to 400 E - 100 N. Supporting the idea that this is a continuous zone but, as mentioned previously, these EM responses are those of poor conductors.

CERTIFICATE OF QUALIFICATION:

I BILL GOBLE, of the Ville de Pierrefonds, Province de Quebec, Canada, do hereby certify that:

(1) I am a practicing Geoscience Data Technician, consulting from my residence at 9860 Boul. Gouin Ouest, Pierrefonds, Quebec.

(2) I am a graduate of Sir Sandford Fleming College, Lindsay, Ontario, having received a diploma in Geoscience data in 1985. I have been practicing in the fields of exploration and development, particularly in the field of geophysics since 1977.

(3) I have knowledge of, and experience in the area in which the Kamiskotia property of Legion Resources ltd., is located, and have conducted the surveys described in this report.

(4) I have no interest, direct or indirect in the property on which this report is written, nor in Legion Resources ltd.; nor do I expect to receive any.

Dated in Pierrefonds, Quebec, this 19th day of July 1985.

B. Goble

BILL GOBLE GEOSCIENCE DATA TECHNICIAN

APPENDIX:

Technical Data Statement:

Type of Surveys: Magnetic and Electromagnetic

Township: Robb

Claim Holders: LEGION RESOURCES LTD.

AUTHOR OF REPORT: BILL GOBLE

ADDRESS: 9860 BOUL. GOUIN O.
APT. 320
PIERREFONDS, QUEBEC.
H8Y 3H2

Covering dated of surveys:

(A) magnetic; May 25, 1985 - May 27, 1985.

(B) electromagnetic; June 2, 1985 - June 6, 1985.

MINING CLAIMS TRAVERSED:

P 724 997

P 724 998

P 725 002

P 725 003

P 725 004 (total claims = five)

CREDITS REQUESTED:

SURVEY	DAYS PER CLAIM
MAGNETIC	20
ELECTROMAGNETIC	20

Ground Surveys:Number of stations 404 number of readings 1431Station Interval 25 metersLine spacing 100 metersContour interval 100 gammas for magnetic surveyProfile scale 1 cm = 10% for electromagnetic survey

Magnetic:

Instrument GEOMETRICS G 826

Accuracy + - 10 gammas

Diurnal correction method: Looping with basestation tie-ins on the baseline .

Base Station location - the Baseline

Electromagnetic

Instrument Apex Parametrics MAX MIN 11 EM

Coil Configuration Horizontal Loop, maximum coupled

Coil Separation 200 meters

Accuracy + - 1%

Frequency 3555 Hz, 1777 Hz, 888Hz

Parameters measured In Phase and out of Phase components of the secondary field in percent of the primary field.

REFERENCES:

Ferguson, S. A., Groen, H. A., and Haynes, R.

1971: Gold Deposits of Ontario: Part 1, Districts of Algoma, Cochrane, Kenora, Rainy River, and Thunder Bay; Ontario Division of Mines, MRC13 315 p. (reprinted 1982).

HOGG, G. M.

1983: A report on The Kamiskotia Property of Opex Resources Inc., Robb Township, Ontario, 15 p.

SPROULE, R.

1983: Geological Map of the Kamiskotia Property of Vatco Exploration ltd..

O.M.N.R. Claim MAP.

1983: Claim map of Robb Township Ontario, No. M. 309.

For the records of the Ministry of Natrual Resources, Province of
Ontario.

Concerning the qualifications of:

MR. BILL GOBLE

9860 BOUL. GOUIN O.

PIERREFONDS, QUEBEC.

I have been involved in the exploration and development industry
for the past eight years, primarily in the field of geophysics.

I have experience in the following regions: Cordilleran Orogen,
Grenville, Superior, Slave and Churchill provinces.

I have been involved in the search for: Volcanogenic and
Strataform massive sulphides, Uranium in Sedimentary
Unconformities, Precious Metals in Banded Iron Formations,
Chromite in Alpine Ultramafics.

I hold the following diplomas:

Geoscience Data Technician: Sir Sandford Fleming College,
Lindsay, Ontario. 1985.

Prospector Training Program: Laronge Community College, Laronge,
Saskatchewan. 1978.

Respectfully submitted

B. Goble

BILL GOBLE, GEOSCIENCE DATA TECHNICIAN



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

W8506-189

28291-
18



42A125E0246 2.8296 ROBB

900

Type of Survey(s): **MAGNETIC** Township or Area: **ROBB**

Claim Holder(s): **LEGION RESOURCES LTD.** Prospector's Licence No.: **T-1822**

Address: **5500 TOMKEN RD UNIT #16 MISSISSAUGA ONT. L4W 1P2**

Survey Company: **BILL GOBLE** Date of Survey (from & to): **25.05.85 to 05.85** Total Miles of line Cut: _____

Name and Address of Author (of Geo-Technical report): **B. GOBLE APT. 320 9860 BOUL. GOUIN O. PIERREFONDS P.Q.**

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

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

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

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

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	724997				
P	724998				
P	725002				
P	725003				
P	725004				

RECEIVED
JUN 17 1985
MINING LANDS SECTION

RECORDED
MAY 28 1985
Receipt No. 21

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: **5**

Date: **May 28, 1985** Recorded Holder or Agent (Signature): *B. Goble*

For Office Use Only

Total Days Cr. Recorded: **100** Date Recorded: **May 28/85** Mining Recorder: *Stanley*

Date Approved as Recorded: **85. 8.23** Branch Director: *Legion*

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: **BILL GOBLE APT. 320 9860 BOUL. GOUIN O. PIERREFONDS P.Q.**

Date Certified: **May 28, 1985** Certified by (Signature): *B. Goble*

BY **342**

2.8296 # 190/85

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.

July 26th

Mining Act

Type of Survey(s) ELECTROMAGNETIC (HLEM)	Township or Area ROBB
Claim Holder(s) LEGION RESOURCES LTD.	Prospector's Licence No. T-1822
Address 5500 TOMKEN RD. UNIT #16 MISSISSAUGA ONT. L4W 1P2	
Survey Company BILL GOBLE	Date of Survey (from & to) 02/06/85 05/06/85
Name and Address of Author (of Geo-Technical report) B. GOBLE APT. 320 9860 BOUL. GOUIN O. PIERREFONDS P.Q. (514) 650685-3016	

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

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

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	724997				
P	724998				
P	725002				
P	725003				
P	725004				

RECEIVED
JUN 17 1985
MINING LANDS SECTION

RECORDED
JUN 6 1985
Receipt No. *[Signature]*

Expenditures (excludes power stripping)

Type of Work Performed:
[Stamp]

Performed on Claim(s)
[Stamp]

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. **5**

For Office Use Only

Total Days Cr. Recorded **100**

Date Recorded **June 6/85**

Date Approved as Recorded **85-08-27**

Mining Record *[Signature]*

Branch Director *[Signature]*

Date **May 28, 1985**

Recorded Holder or Agent (Signature) *B. Zuell*

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
BILL GOBLE APT. 320 9860 BOUL. GOUIN O. PIERREFONDS P.Q.

Date Certified **June 6, 1985**

Certified by (Signature) *B. Zuell*



Mining Lands Comments

- Are Mr Goble's qualifications acceptable for assessment purposes?

To: Geophysics R. BARLOW

Comments

Approved Wish to see again with corrections Date July 31 / 85 Signature *R. Barlow*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections Date Signature

To: Geochemistry

Comments

LD

Approved Wish to see again with corrections Date Signature

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

REGISTERED

July 17, 1985

Legion Resources Ltd.
5500 Tomken Road
Unit #16
Mississauga, Ontario
L4W 1P2

Dear Sirs:

RE: Mining Claims P 724997, et al, in
Robb Township

I have not received the reports and maps (in duplicate)
for the Geophysical (Magnetometer) Survey on the above-
mentioned claims.

As the assessment "Report of Work" was recorded by the
Mining Recorder on May 28, 1985 the 60 day period
allowed by Section 77 of the Mining Act for the submission
of the technical reports and maps to this office will
expire on July 27, 1985.

If the material is not submitted to this office by July 27,
1985, I will have no alternative but to instruct the Mining
Recorder to delete the work credits from the claim record
sheets.

For further information, please contact Mr. Arthur Barr
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

A. Barr:mc

cc: Bill Goble
Apartment 320
9860 Boul. Gouin O.
Pierrefonds, Quebec
H8Y 3H2

cc: Mining Recorder
Timmins, Ontario

*Sent Reg. Mail
July 19th to Timmins
" "*

*check out
with Mining Recorder
July 23rd. 85.*

190

*called
July 23rd.
1985.*

BILL GOBLE
9860 BOUL. GOUIN O.
APT. 320
PIERREFONDS, QUEBEC
H8Y 3H2 (514) 635-3016

BRUCE HANLEY
CLAIMS RECORDER
TIMMINS REGION

RECEIVED

JUL 23 1985

MINING LANDS SECTION

Dear Mr. Hanley,

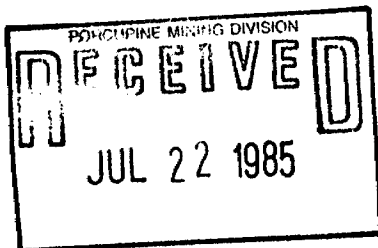
Please find enclosed duplicate copies of the assessment report for the Kamiskotie Property of Legion Resources Ltd. in Robt twp.

You will also find two copies of my qualifications and one copy each of the Report of work forms I filed with your office.

Feel free to contact me at the above address if there are any questions.

Respectfully submitted

B. Goble



Post dated 19/07/85

Mining Lands Section

File No 2-8296

Control Sheet

TYPE OF SURVEY

- GEOPHYSICAL
- GEOLOGICAL
- GEOCHEMICAL
- EXPENDITURE

MINING LANDS COMMENTS:

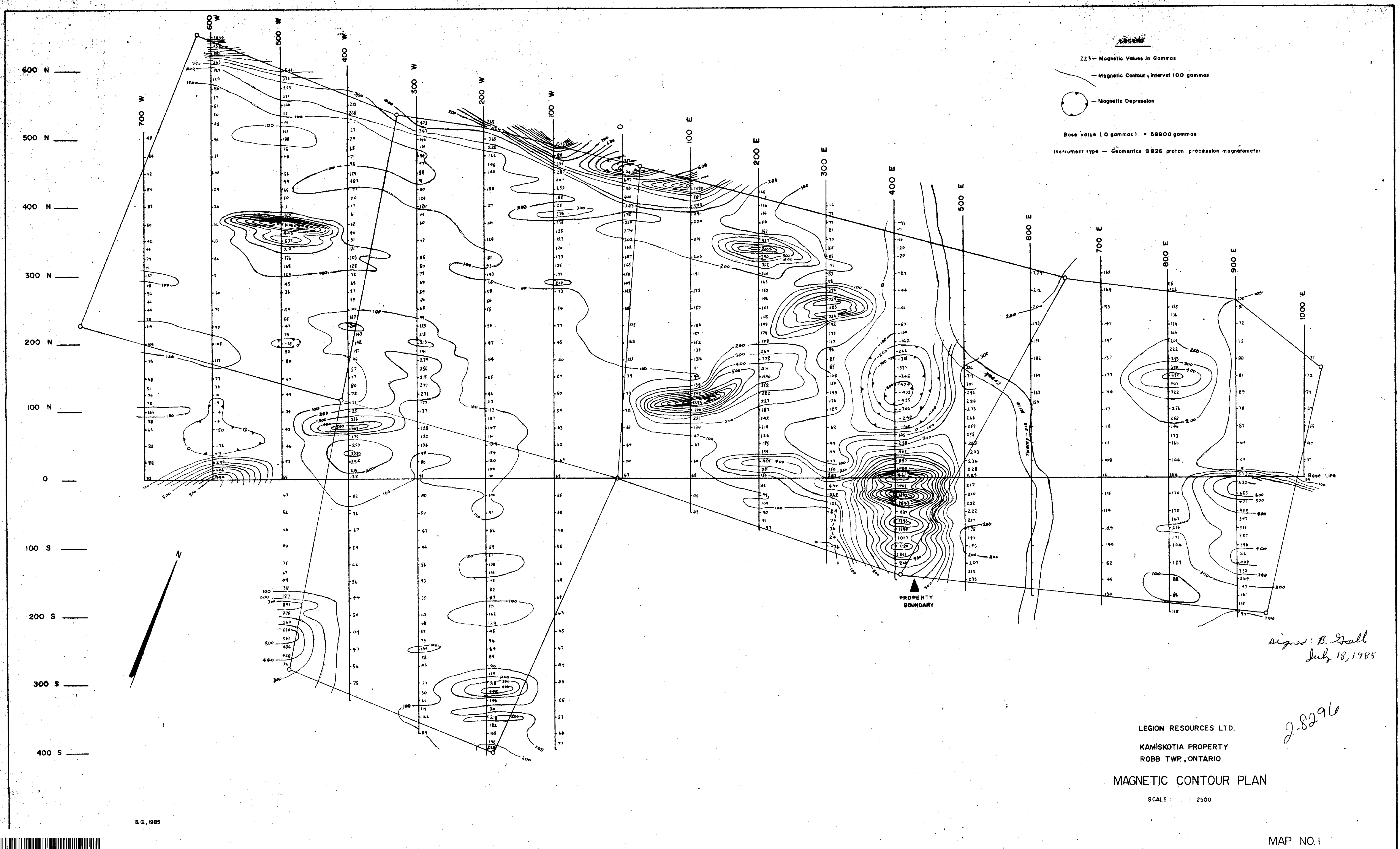
send to Roger regarding qualifications

_____ <Robb> _____

LN
Lgd.

Davis K.
Signature of Assessor

Date



B.G., 1985



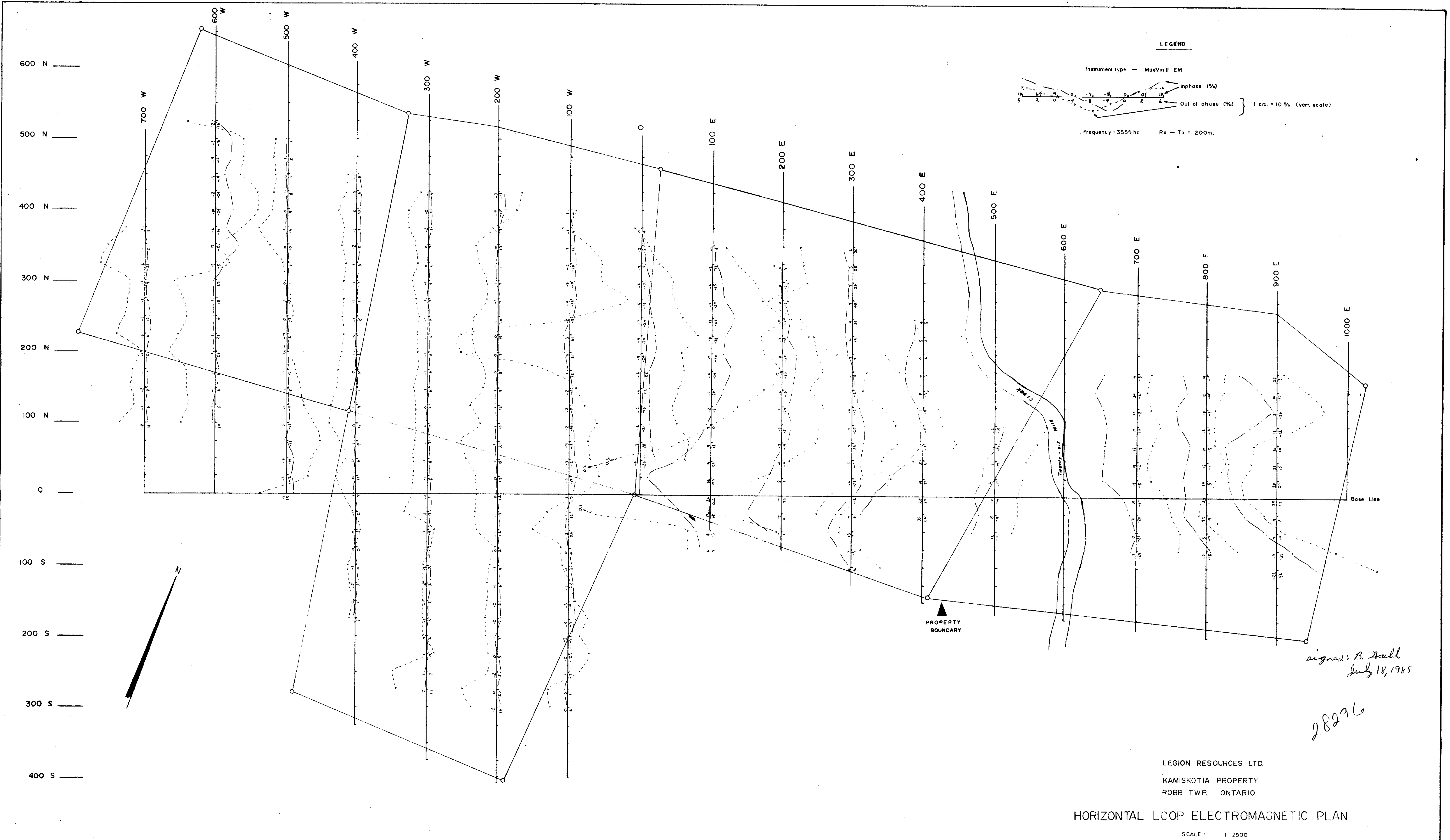
LEGION RESOURCES LTD.
 KAMISKOTIA PROPERTY
 ROBB TWP., ONTARIO
 MAGNETIC CONTOUR PLAN

SCALE: 1:2500

MAP NO. 1

signed: B. Hall
 July 18, 1985

2.8296



LEGEND

Instrument type — MaxMin II EM
 Inphase (%)
 Out of phase (%) } 1 cm. = 10% (vert. scale)
 Frequency : 3555 Hz Rx — Tx = 200m.

signed: B. Hall
 July 18, 1985

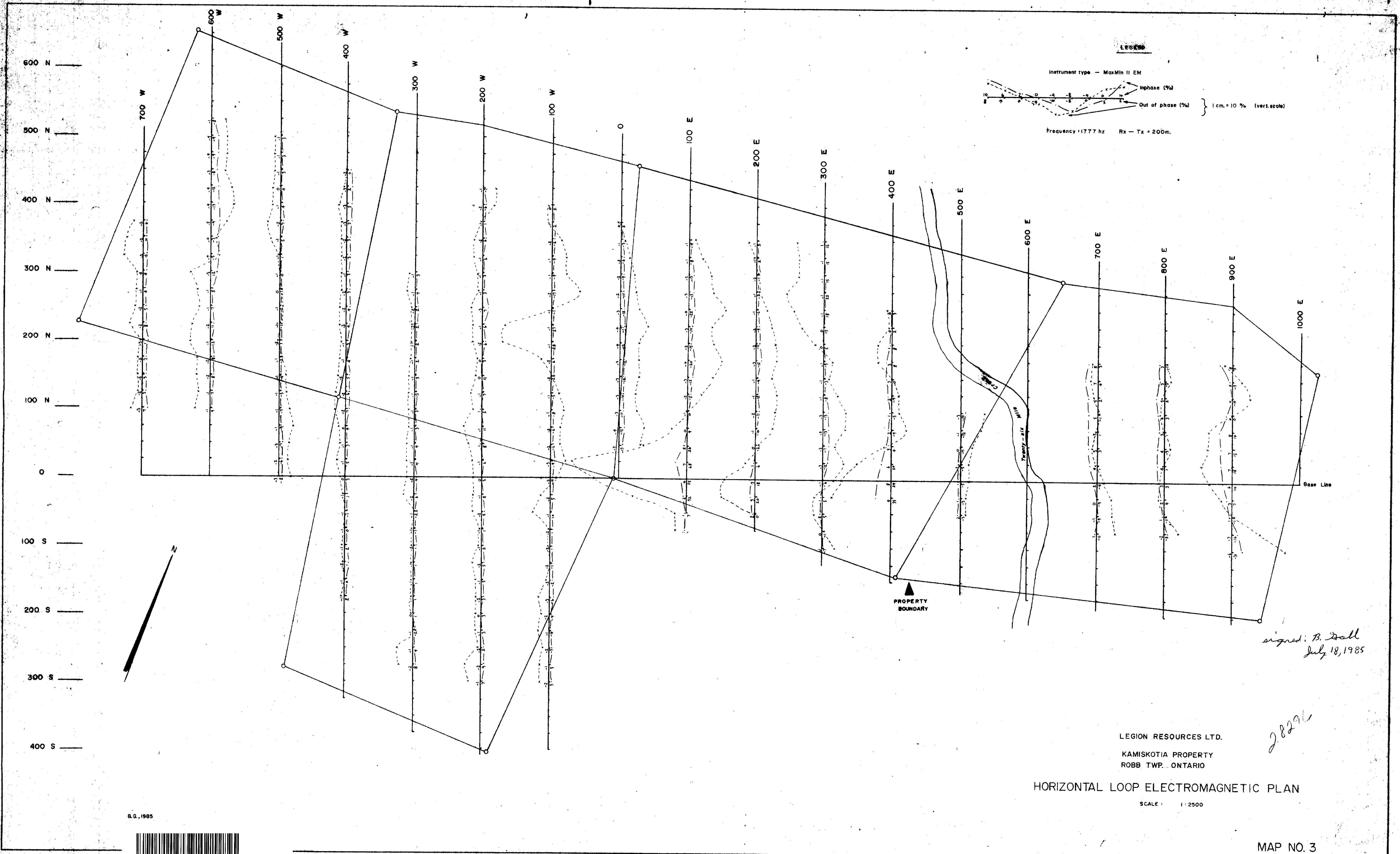
28296

LEGION RESOURCES LTD.
 KAMISKOTIA PROPERTY
 ROBB TWP. ONTARIO

HORIZONTAL LOOP ELECTROMAGNETIC PLAN

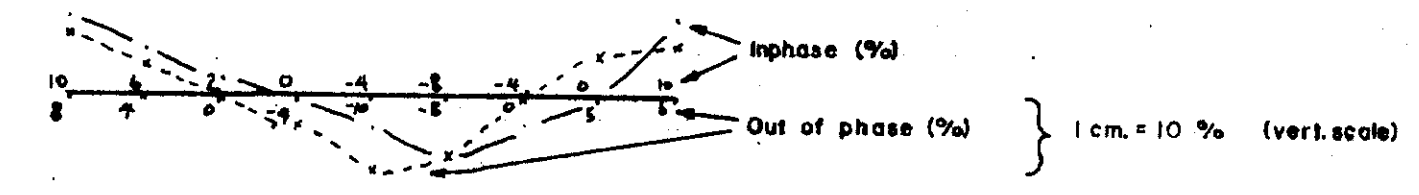
SCALE : 1 : 2500





LEGION

Instrument type - MaxMin II EM



Frequency: 1777 Hz Rx - Tx = 200m.

PROPERTY BOUNDARY

signed: B. Hall
July 18, 1985

28296

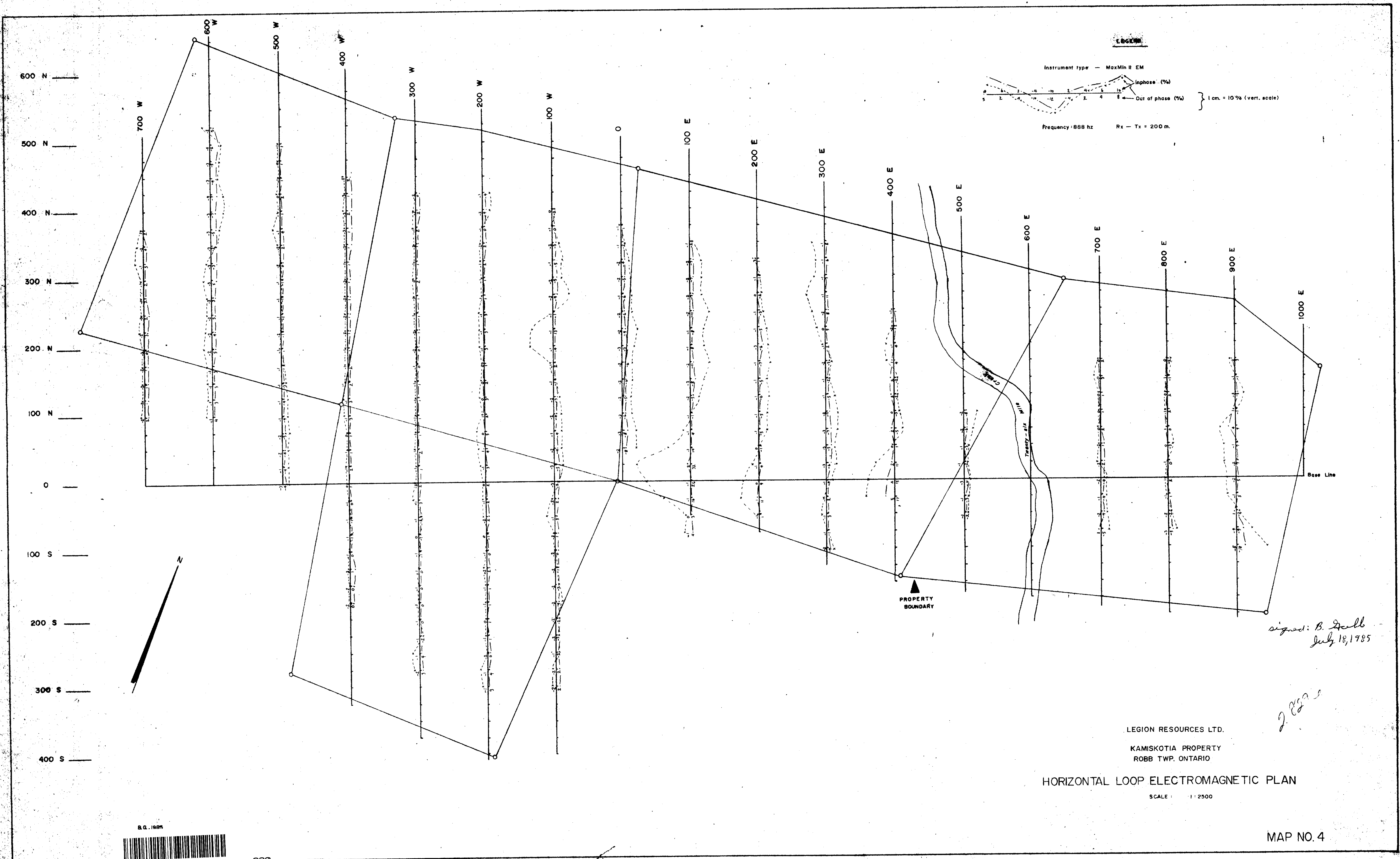
LEGION RESOURCES LTD.
KAMISKOTIA PROPERTY
ROBB TWP. ONTARIO

HORIZONTAL LOOP ELECTROMAGNETIC PLAN

SCALE: 1:2500

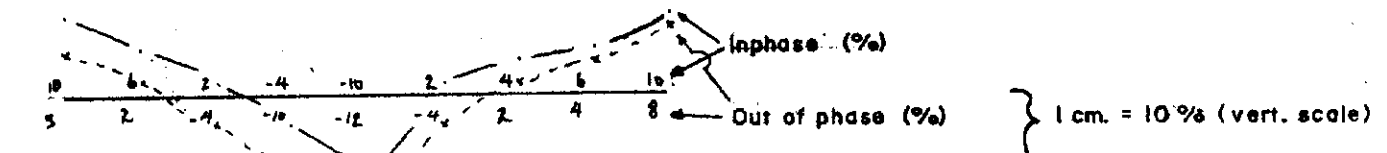
B.G., 1985





LEGEND

Instrument type - MaxMin II EM



Frequency: 868 hz Rx - Tx = 200 m.

B.G. 1985



42A1258246 2 0205 2005

230

LEGION RESOURCES LTD.

KAMISKOTIA PROPERTY
ROBB TWP. ONTARIO

HORIZONTAL LOOP ELECTROMAGNETIC PLAN

SCALE: 1:2500

signed: B. Dault
July 18, 1985

J. [Signature]

MAP NO. 4