



42A09SW0143 2.11215 CARR

010

REPORT ON A
GROUND MAGNETIC
AND
ELECTROMAGNETIC SURVEYS
FOR
JENNEX LIMITED
CARR TOWNSHIP
LARDER LAKE MINING DIVISION, ONTARIO

RECEIVED

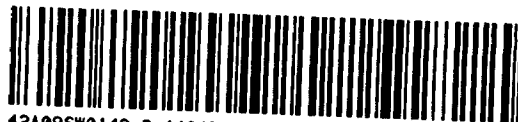
MAY 19 1988

MINING LANDS SECTION

Timmins, Ontario
March, 1988

Kenneth Guy
Geologist

Real.
2.5778



42A09SW0143 2.11215 CARR

010C

TABLE OF CONTENTS

	Page
SUMMARY and RECOMMENDATIONS	1
INTRODUCTION	2
LOCATION and ACCESS	2
PROPERTY	3
GEOLOGY	3
LINECUTTING	4
SURVEY EQUIPMENT and PROCEDURES	4
DISCUSSION OF RESULTS	5
CERTIFICATE	9

FIGURES

1. REGIONAL LOCATION MAP	after page 2
2. PROPERTY LOCATION MAP	after page 3
3. HLEM PLAN MAP - 444 Hz	Back pocket
4. HLEM PLAN MAP - 888 Hz	Back pocket
5. HLEM PLAN MAP - 1777 Hz	Back pocket
7. CONTOURED MAGNETIC PLAN MAP	Back pocket

SUMMARY AND RECOMMENDATIONS

The Carr Township Property of Jennex Limited is located in Carr township, Black River - Matheson gold area. The property encloses a portion of potentially gold bearing stratigraphy, including the Destor Porcupine Fault Zone (DPFZ) which lies proximal to the majority of the gold production in the Ontario section of the Abitibi greenstone belt.

The 1988 ground geophysical program has successfully located and defined a number of anomalies. Three Horizontal Loop Electro Magnetic anomalies were defined. Two are rated high priority follow - up ie: diamond drill.

The magnetic survey was successful in locating a number of diabase dykes and possible faults. One fault may correspond to the DPFZ and a weak HLEM anomaly. This is rated a high priority follow - up target.

The following recommendations are made for the Carr township property:

- 1) Three diamond drill holes to test the targets outlined by the geophysical surveys.
- 2) Geological mapping and prospecting to better define the stratigraphy and possibly locate the DPFZ.



INTRODUCTION

During the period January through February 1988, a combined geophysical program was conducted on the CARR TOWNSHIP Property of JENNEX Limited. A three frequency Horizontal Loop Electro Magnetic (HLEM), and magnetic surveys were conducted.

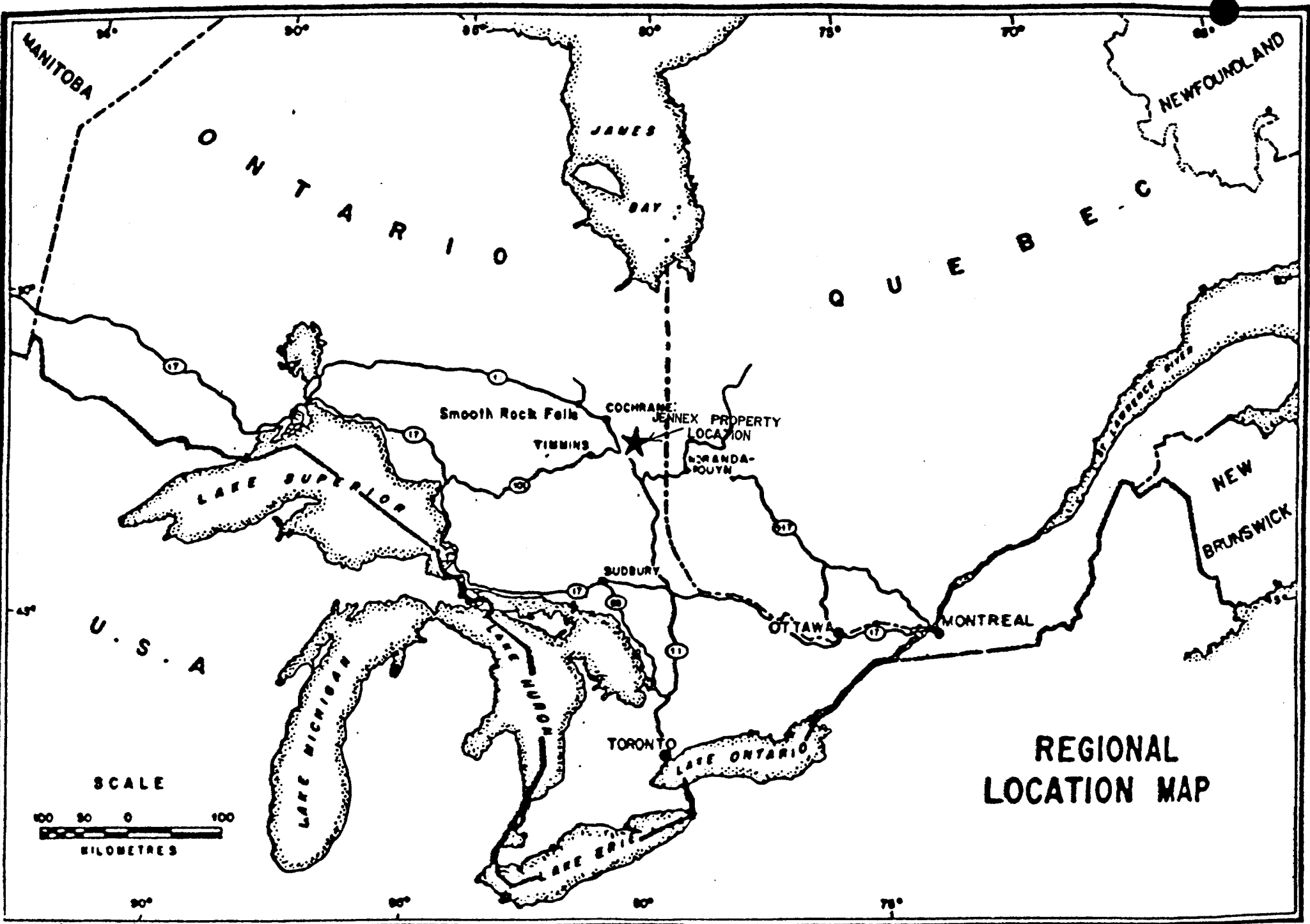
The property is located on the Destor Porcupine Fault Zone (DPFZ), a major structure hosting gold deposits from the Porcupine camp to the west through to the Harker - Holloway gold camp to the east. The Ross Mine lies approximately 10 miles to the east.

The purpose of the surveys was to detect, on the ground, zones of conductivity which may be produced by conductive minerals and/or zones of shearing and faulting. The magnetic survey was performed to determine if any magnetic correlation exists with apparent conductivity and to aid in stratigraphic and structural correlation.

LOCATION AND ACCESS

The Carr township property is located in south central Carr township, Larder Lake Mining Division, Ontario. The property is 1 mile north of Matheson, Ontario and 40 miles east of Timmins, Ontario.

Access to the property is excellent via all weather roads from Matheson.



REGIONAL
LOCATION MAP

SCALE
0 50 100
KILOMETRES

PROPERTY

The JENNEX LIMITED - Carr township property consists of 15 contiguous, unpatented mining claims in Carr township, Larder Lake Mining Division. The surveys covered in whole all 15 claims.

The following claims were covered in whole by the combined surveys:

L969869 - 872 incl	4
996370 - 372 incl	3
997360	1
1027947 - 951 incl	5
1027953,54	<u>2</u>
	15 claims

The claims occupy the:

N1/2 LII C5
S1/2 LII C6
N1/2 LII C7
N1/2 LII C8

of Carr township.

GEOLOGY

The property lies within the Black River - Matheson district of the Abitibi greenstone belt.

The DPFZ trends E - W through the central portion of the property with sediments to the north and basalts to the south. The DPFZ is a wide zone of highly altered rocks, sericite, carbonate, chlorite and talc.

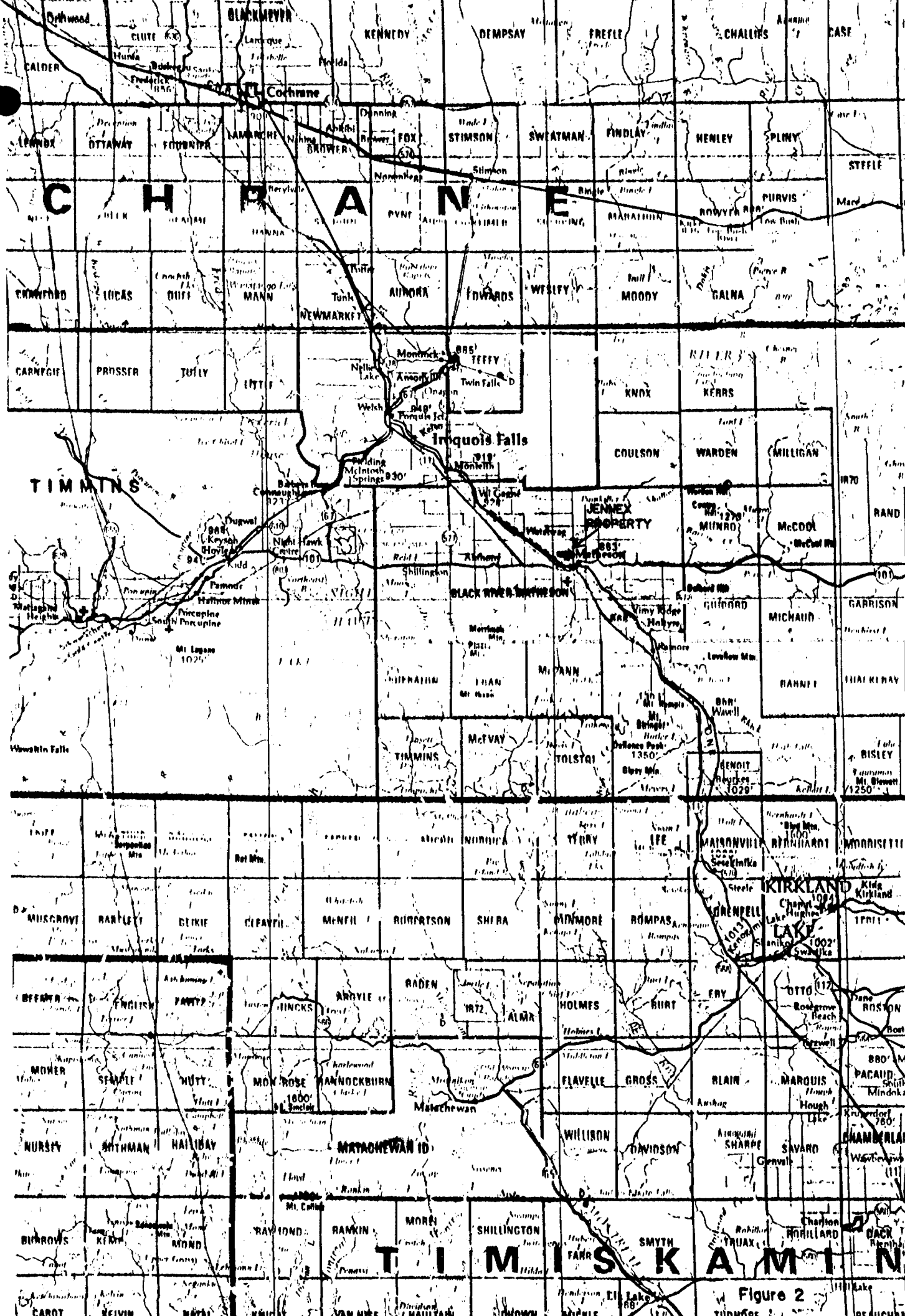


Figure 2

LINECUTTING

During January, 1988, a total of 28.4 kilometres of line were established on the property. The base line was cut at az 090 (E-W) with section lines every 100 metres off the base line. Picket stations were established every 25 metres on both section lines and base line.

SURVEY EQUIPMENT AND PROCEDURES

The Horizontal Loop Electro Magnetic (HLEM) survey was carried out using an Apex Max-Min II, operating at frequencies of 444, 888 and 1777 Hertz (Hz). Coil separation was 150 metres, readings were taken at 25 metre intervals along the section lines. A total of 25.3 kilometres were surveyed during February, 1988.

The data is presented as profiles on the HLEM plan maps, figures 3, 4 and 5.

The Magnetic survey was conducted with a Geometrics G-816 total field magnetometer. Readings were taken every 25 metres along section lines and base line. The intersection of the section lines on the base line served as base stations so that diurnal drift could be monitored. This method allows readings to be taken and corrected with an accuracy of one gamma.

A total of 28.4 kilometres of line were surveyed during February 1988.

DISCUSSION OF RESULTS

HLEM Survey - The Horizontal Loop Electro Magnetic (HLEM) survey was conducted at three frequencies: 444, 888 and 1777 Hertz (Hz).

Three conductors, with a probable bedrock source, were detected. The anomalies are designated A, B and C on the HLEM Plan map.

Anomaly A - A two line conductor with a conductivity-thickness product of 25 and an estimated depth of 40 metres. The anomaly appears to correspond to the estimated location of the Destor - Porcupine Fault Zone (DPFZ) and northwest striking cross faults. The anomaly is rated high priority and should be drill tested on L104 E.

Anomaly B - A two line anomaly with a conductivity-thickness product of 6 at a depth of 35 metres. The anomaly appears to crosscut a diabase dyke. Due to the low conductivity and proximity to a diabase dyke the conductor is rated moderate priority.

Anomaly C - A one line anomaly with a very low conductivity-thickness product of 1 at a depth of 15 metres. The anomaly lies immediately north of the DPFZ and is therefore rated high priority follow-up. Diamond drilling is recommended on L126 E.

Magnetic Survey - The magnetic survey detected two N - S trending diabase dykes and one ENE trending diabase dyke. Three NNW trending faults and a NW trending fault were also detected. The NNW trending fault may represent a portion of the DPFZ and should be considered a diamond drill target on L108 E where a corresponding weak HLEM may be present.

CERTIFICATE

I, the undersigned, Kenneth Guy, residing at 180 Nadine Street, South Porcupine, Ontario graduated with a Bachelor of Science degree in Earth Science - Geology from the University of Waterloo, Waterloo, Ontario in 1978.

I have been employed in the field of Geology since graduation in 1978.

I am a Fellow of The Geological Association of Canada

I do not hold, nor do I expect to receive an interest of any kind in these claims held by JENNEX LIMITED or in any other mining claims they may have.



Kenneth Guy
Geologist

March 1988
Timmins, Ontario



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

DOCUMENT
W8808



42A09SW0143 2.11215 CARR

900

Land Management 2.11215 Mir

Type of Survey(s) **(HEM) ELECTROMAGNETIC & MAGNETIC SURVEYS** Township or Area **CARR TWP**

Claim Holder(s) **JEFF SAMPLE** Prospector's Licence No. **H-12941**

Address **P.O. BOX 218 PANGWAN, SASKATCHEWAN**

Survey Company **GUY THIBAUT EXPLORATION SERVICE** Date of Survey (from & to) **10 02 88 25 02 88** Total Miles of line, Cut **13.33 MILES**

Name and Address of Author (of Geo-Technical report) **KENNETH GUY P.O. BOX 6045 PMS, SOUTH PORCUPINE, ONTARIO P0N1K0**

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

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
L	969869				
	969870				
	969871				
	969872				
	996371				
	996372				
	997360				
	996370				
	1027947				
	1027948				
	1027949				
	1027950				
	1027951				
	1027953				
	1027954				

RECEIVED
MAY 26 1988
MINING LANDS SECTION

RECORDED
MAY 17 1988
Receipt # _____

Expenditures (excludes power stripping)

Type of Work Performed **ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE**

Performed on Claim(s) **JUN 2 1988**

Calculation of Expenditure: $\text{Total Expenditures} \div 15 = \text{Days Credits}$

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.

Date **MAY -10-1988** Registered Holder or Agent (Signature) *Guy Thibault*

For Office Use Only

Total Days Cr. Recorded **900** Date Recorded **May 17/88** Mining Recorder *M. G. W. ...*

Date Approved as Recorded **30 May 88** Branch Director *[Signature]*

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 **GUY THIBAUT, P.O. BOX 1670, TIMMINS, ONTARIO P4N-7W8**

Date Certified **MAY 10-1988** Certified by (Signature) *Guy Thibault*



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) ELECTROMAGNETIC & MAGNETIC
Township or Area CARR TWP
Claim Holder(s) JEFF SAMPLE

Survey Company GUY THIBAUT EXPLORATION SERVICES
Author of Report KENNETH GUY
Address of Author P.O. BOX 6045 PMS, SOUTH PORCUPINE
Covering Dates of Survey FEB-10-88 TO FEB-25-88
(linecutting to office)
Total Miles of Line Cut 13.33 MILES

MINING CLAIMS TRAVERSED	
List numerically	
L -	969869
(prefix)	(number)
L -	969870
L -	969871
L -	969872
L -	996371
L -	997 360
L -	996370
L -	102 7947
L -	102 7948
L -	102 7949
L -	102 7950
L -	102 7951
L -	102 7953
L -	102 7954
TOTAL CLAIMS _____	

If space insufficient, attach list

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

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

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

DATE: MAY 10/88 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys			
File No.	Type	Date	Claim Holder

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 1102 Number of Readings 830 -> EM -> 1102 MAG
Station interval 25 METERS Line spacing 100 METERS
Profile scale 1:2500 HORIZONTAL 1CM = 10% VERTICAL
Contour interval 50 GAMMAS

MAGNETIC

Instrument GEOMETRICS G-816 PROTON MAG
Accuracy - Scale constant F 1 GAMMA
Diurnal correction method LOOPING METHOD
Base Station check-in interval (hours) 20 MINUTES
Base Station location and value

ELECTROMAGNETIC

Instrument APEX PARAMETRICS MAX-MIN II
Coil configuration HORIZONTAL LOOP
Coil separation 150 METERS
Accuracy +/- 1.5%
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency 444 Hz, 888 Hz, 1777 Hz (specify V.L.F. station)
Parameters measured IN PHASE & OUT PHASE

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 _____



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TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

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Author of Report KENNETH GUY
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- L - 997360
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- L - 1027948
- L - 1027949
- L - 1027950
- L - 1027951
- L - 1027953
- L - 1027954

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	<u>DAYS</u> <u>per claim</u>
Geophysical	
-Electromagnetic _____	
-Magnetometer _____	
-Radiometric _____	
-Other _____	
Geological _____	
Geochemical _____	

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

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

DATE: MAY 10/88 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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Profile scale 1:2500 HORIZONTAL 1CM = 10% VERTICAL
Contour interval 50 GAMMAS

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Instrument GEOMETRICS G-816 PROTON MAG
Accuracy - Scale constant F 1 GAMMA
Diurnal correction method LOOPING METHOD
Base Station check-in interval (hours) 20 MINUTES
Base Station location and value

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Instrument APEX PARAMETRICS MAX-MIN II
Coil configuration HORIZONTAL LOOP
Coil separation 150 METERS
Accuracy ± 0.5%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 444 Hz, 888 Hz, 1777 Hz (specify V.L.F. station)
Parameters measured IN PHASE & OUT PHASE

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 _____

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 ▼
- ORDER IN COUNCIL OC
- RESERVATION ⊙
- CANCELLED ⊗
- SAND & GRAVEL ⊕

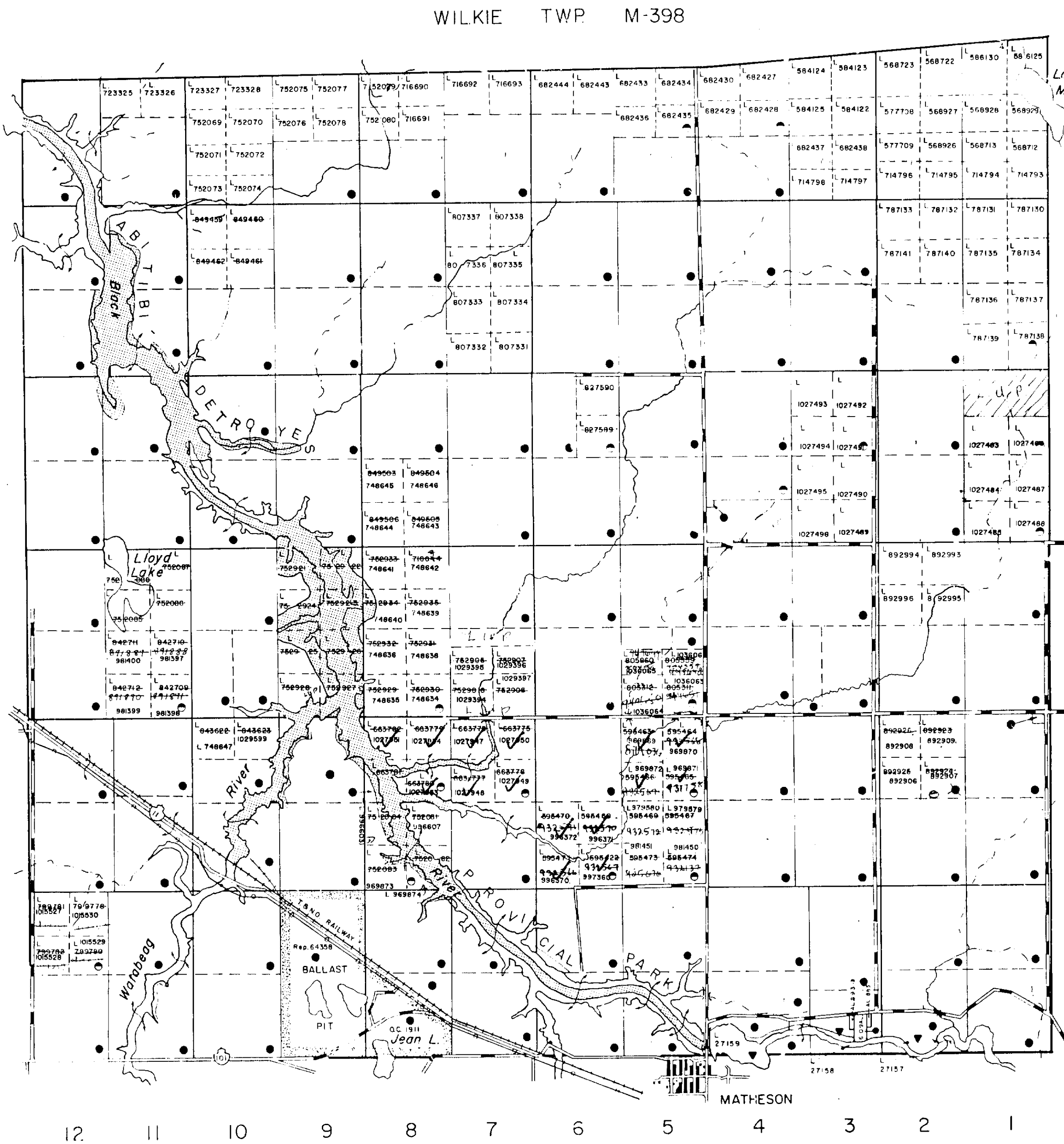
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

NOTICE OF FORESTRY ACTIVITY
THIS TOWNSHIP / AREA FALLS WITHIN THE
WATERBAG MANAGEMENT UNIT



LEGEND

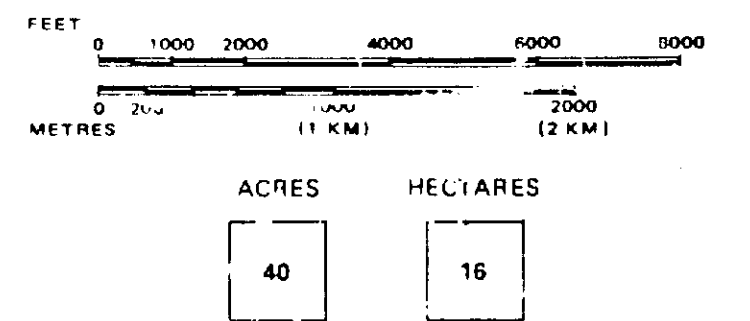
- HIGHWAY AND ROUTE No —+—
- OTHER ROADS —
- TRAILS - - -
- SURVEYED LINES —
- TOWNSHIP BASE LINES, ETC. —
- MINING CLAIMS, PARCELS, ETC. —
- PARCEL BOUNDARIES —
- MINING CLAIMS ETC. —
- RAILWAY AND RIGHT OF WAY —+—
- UTILITY LINES —
- NON-PERENNIAL STREAM —
- FLOODING OR FLOODING RIGHTS —
- SUBDIVISION OR COMPOSITE PLAN —
- RESERVATIONS —
- ORIGINAL SHORELINE —
- MARSH OR MUSKEG —
- MINES X
- TRAVERSE MONUMENT ⊕

NOTES

- 400 surface rights reservation along the shores of all lakes and rivers
- L.O. 8672 for flooding rights along the shores of Black and Warabeag rivers.

DATE OF ISSUE
APR 25 1986
LARDER LAKE
MINING RECORDER'S OFFICE

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP OF
CARR
DISTRICT
COCHRANE
MINING DIVISION
LARDER LAKE

Ministry of Natural Resources Ontario
Ministry of Northern Development and Mines

Date **JULY 1986** Plan No. **G-3613**



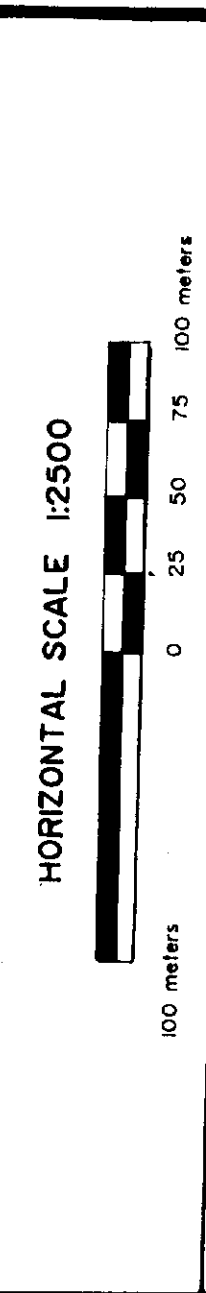
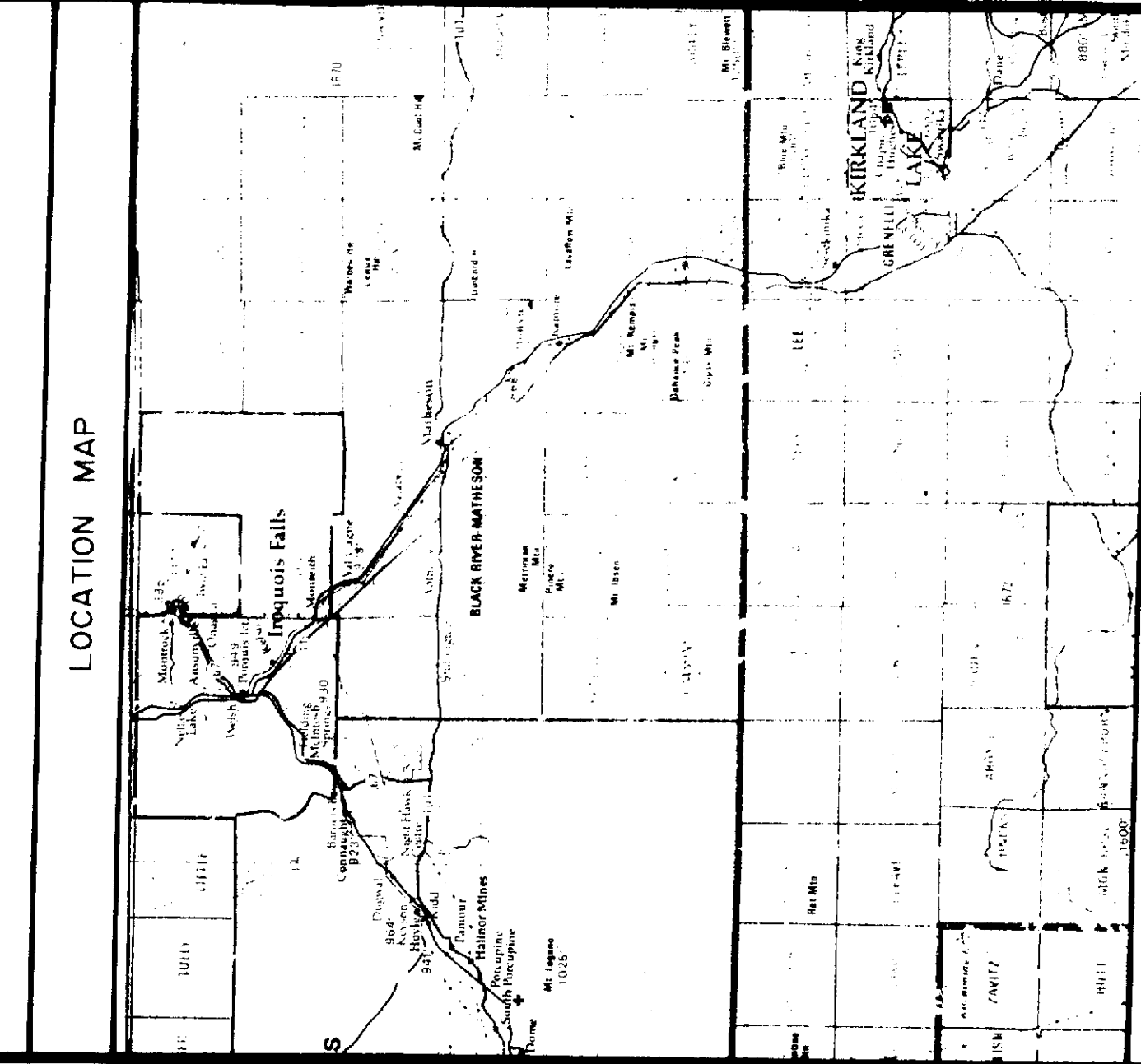
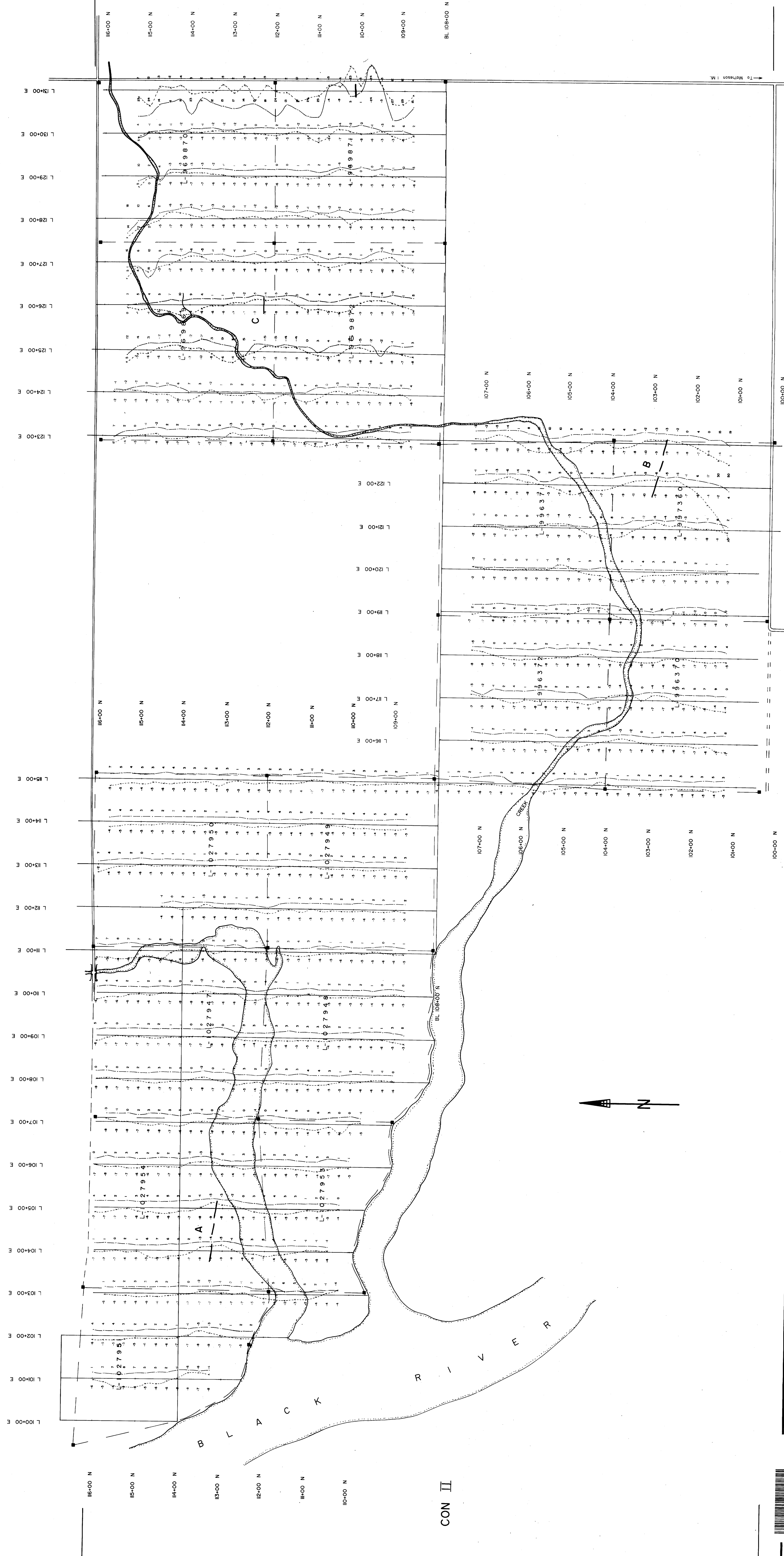
CON III

LOT 8

LOT 7

LOT 6

LOT 5



- TOPOGRAPHIC**
- Total path
 - Bush road
 - Good driving road, Highway
 - Rail road
 - Clear path located
 - Clear path assumed location
 - Witness post
 - Creek, River
 - Lake shore
 - Swamp, Bog
 - Property boundary line

MAX-MIN II H.E.M. SURVEY

Profile: --- in Paces
 --- in Feet
 --- in Meters
 Call Separation: 150 Meters

Frequency 444 Hz

FIGURE 3

2.11215

JENNEX LTD

CARR TOWNSHIP PROPERTY

CARR TOWNSHIP - LARGER LAKE MINING DIVISION

Survey by: Guy Thibault Exploration Services
 Operator: M. Caron

Instrument: Apex Performance Max-Min II
 Dated by: G. Thibault, M. Caron, S. Grubb
 DATE: Feb. 10 17, 1998



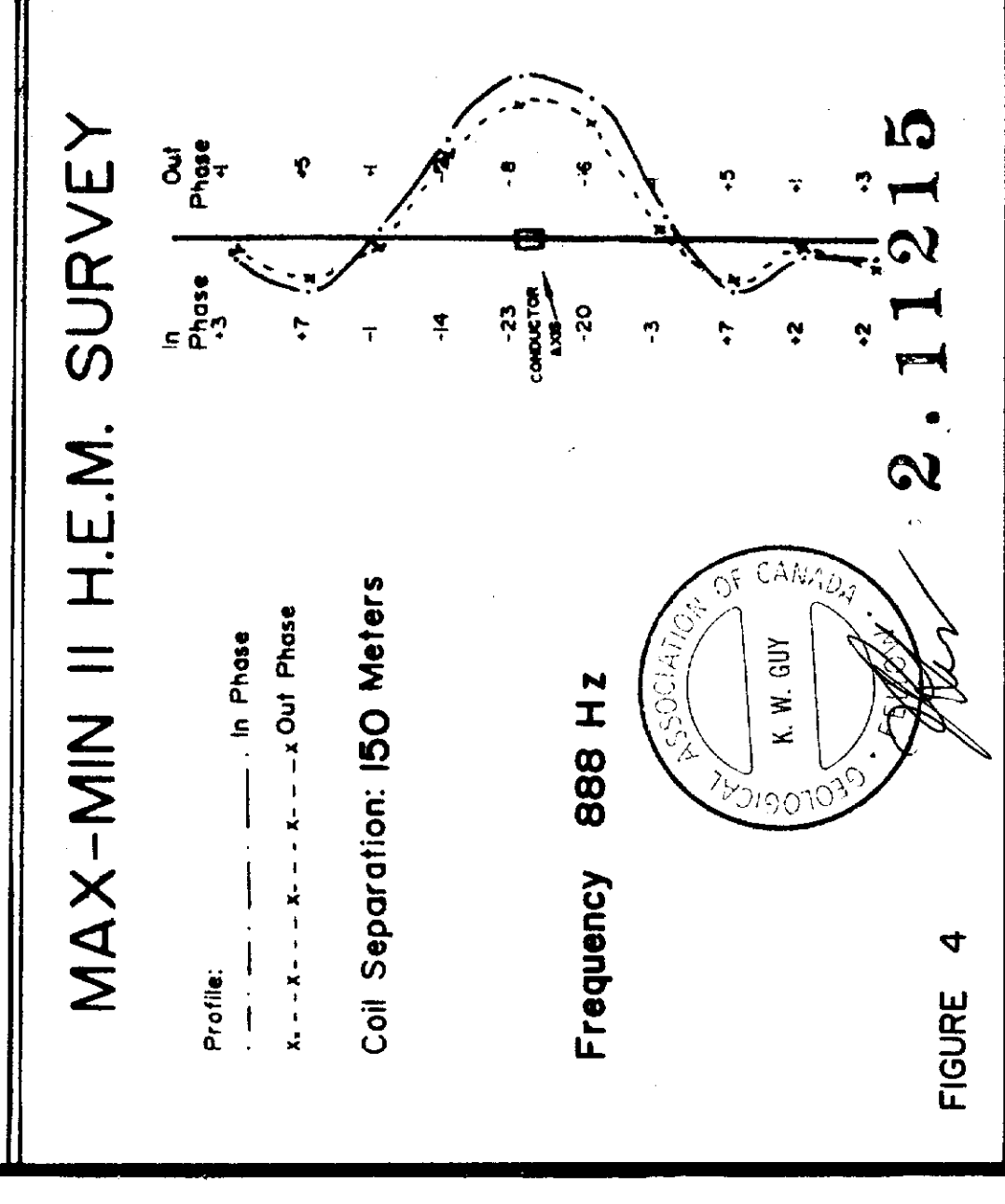
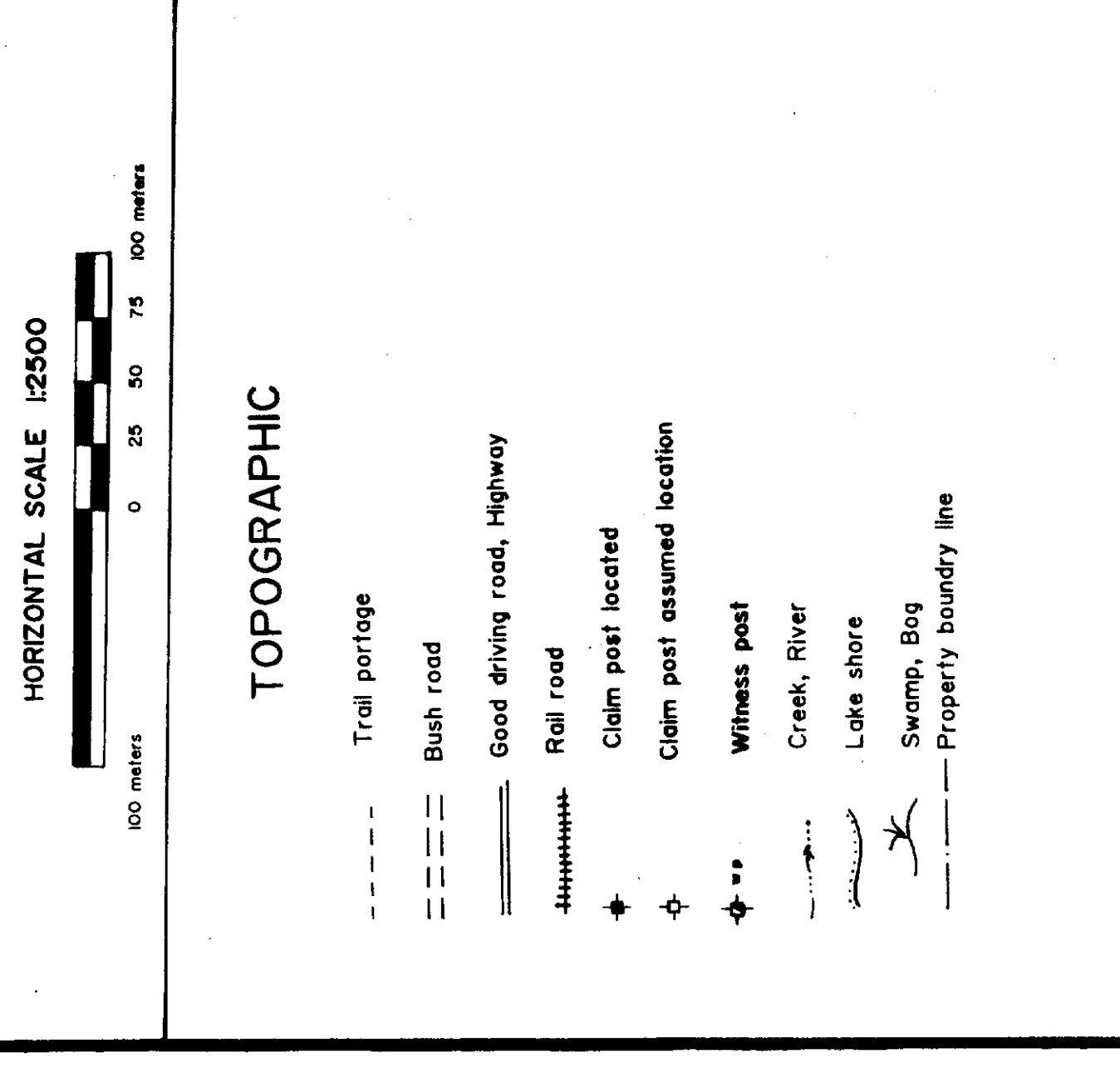
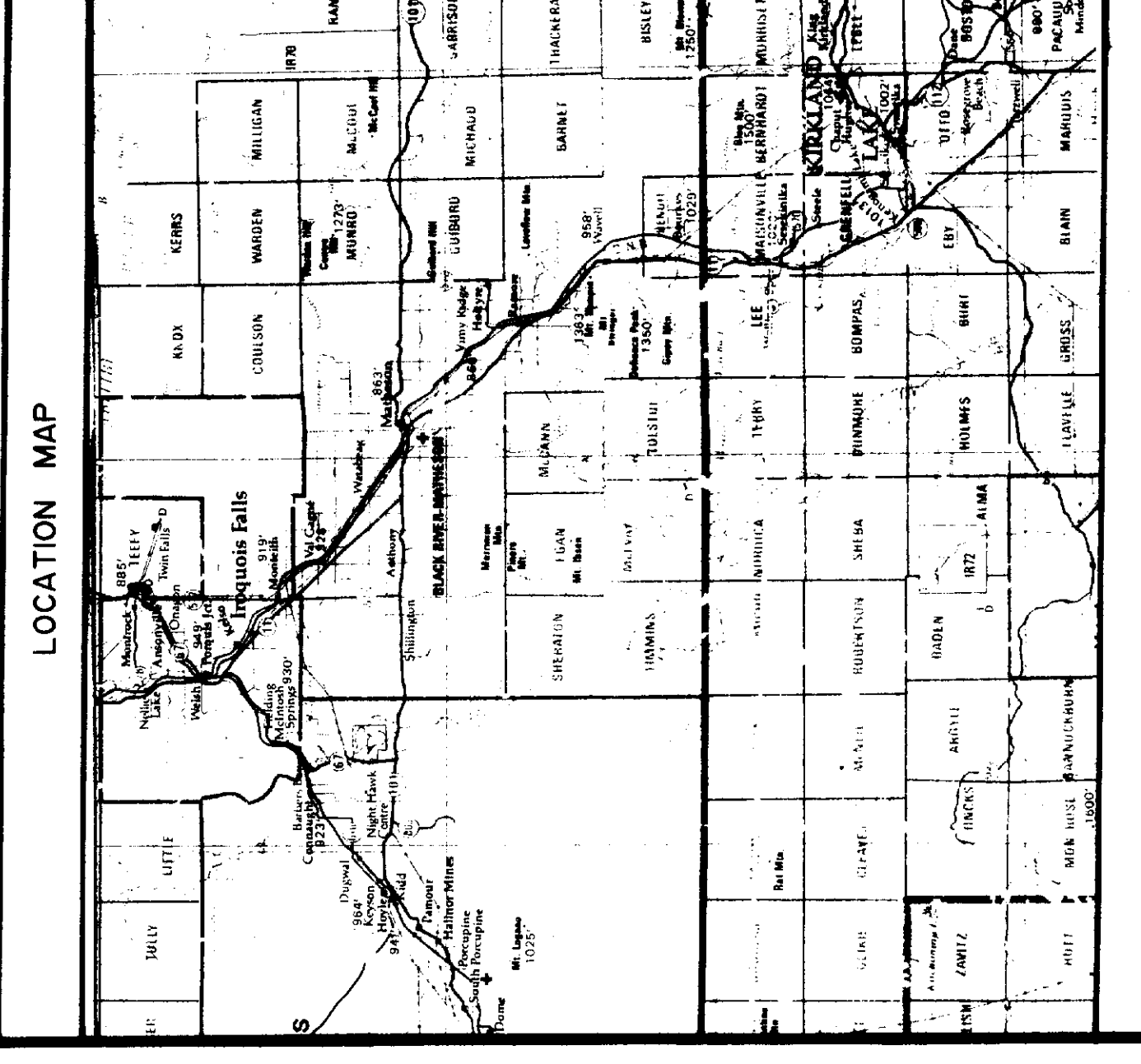
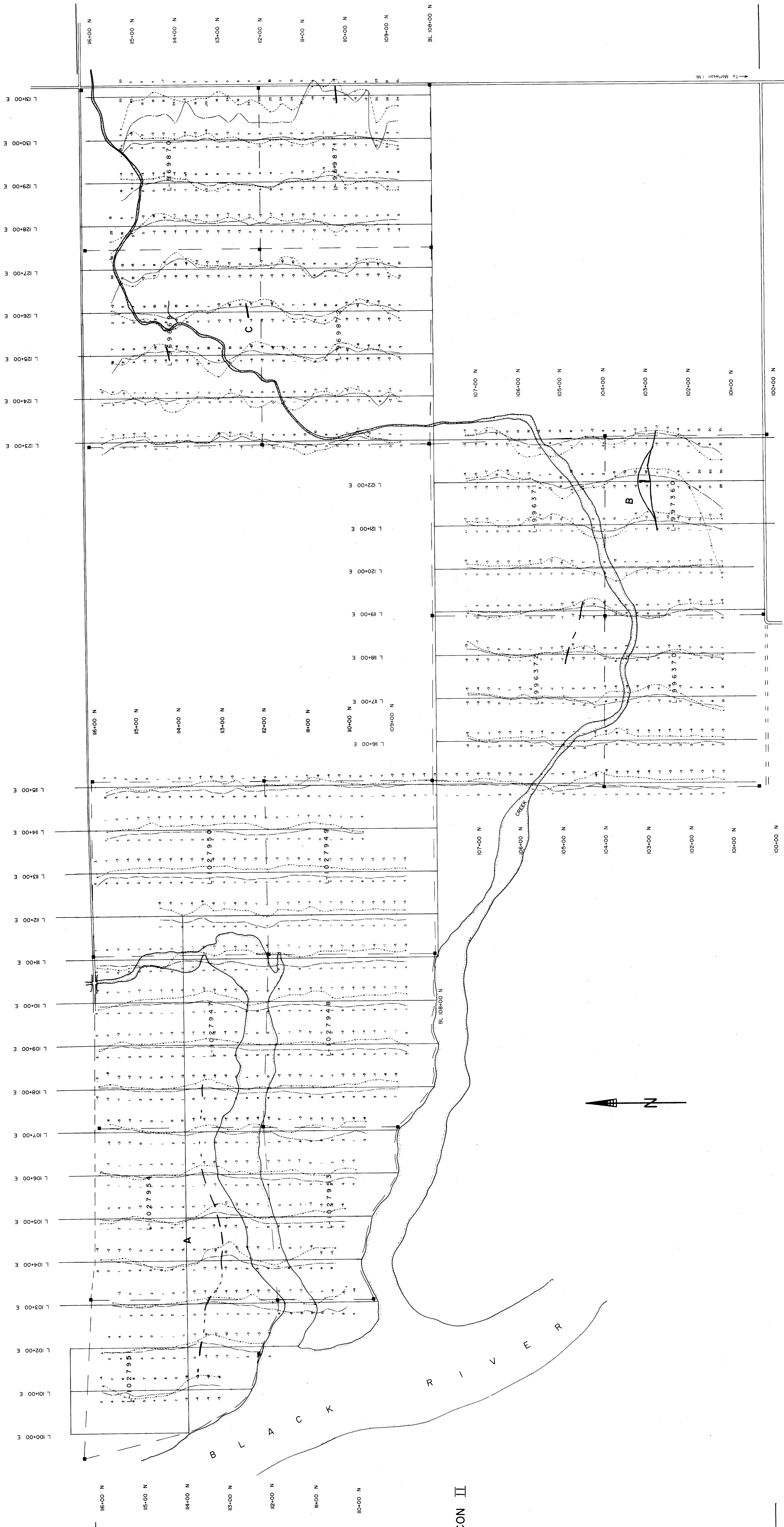
CON III

LOT 8

LOT 7

LOT 6

LOT 5



2.11215

JENNEX LTD

CARR TOWNSHIP PROPERTY

CARR TOWNSHIP - LAMBER LAKE MINING DIVISION

Survey by: *Cly. Thibault Exploration Services*
 Instrument: *Apex*
 DATE: Feb. 10 to 17, 1988
 Drawn by: G. Thibault-M. Caron-S. Gaudet



2220

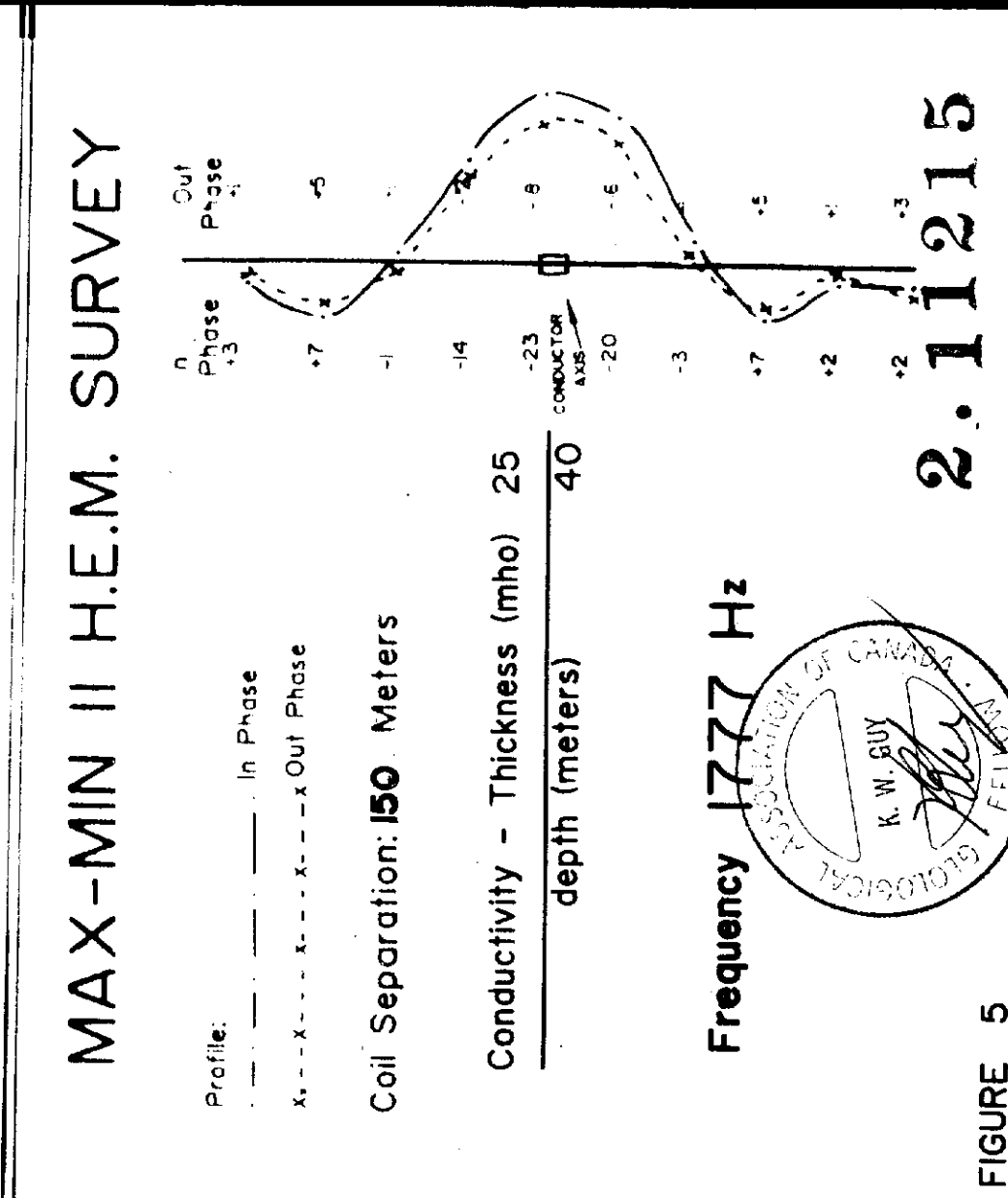
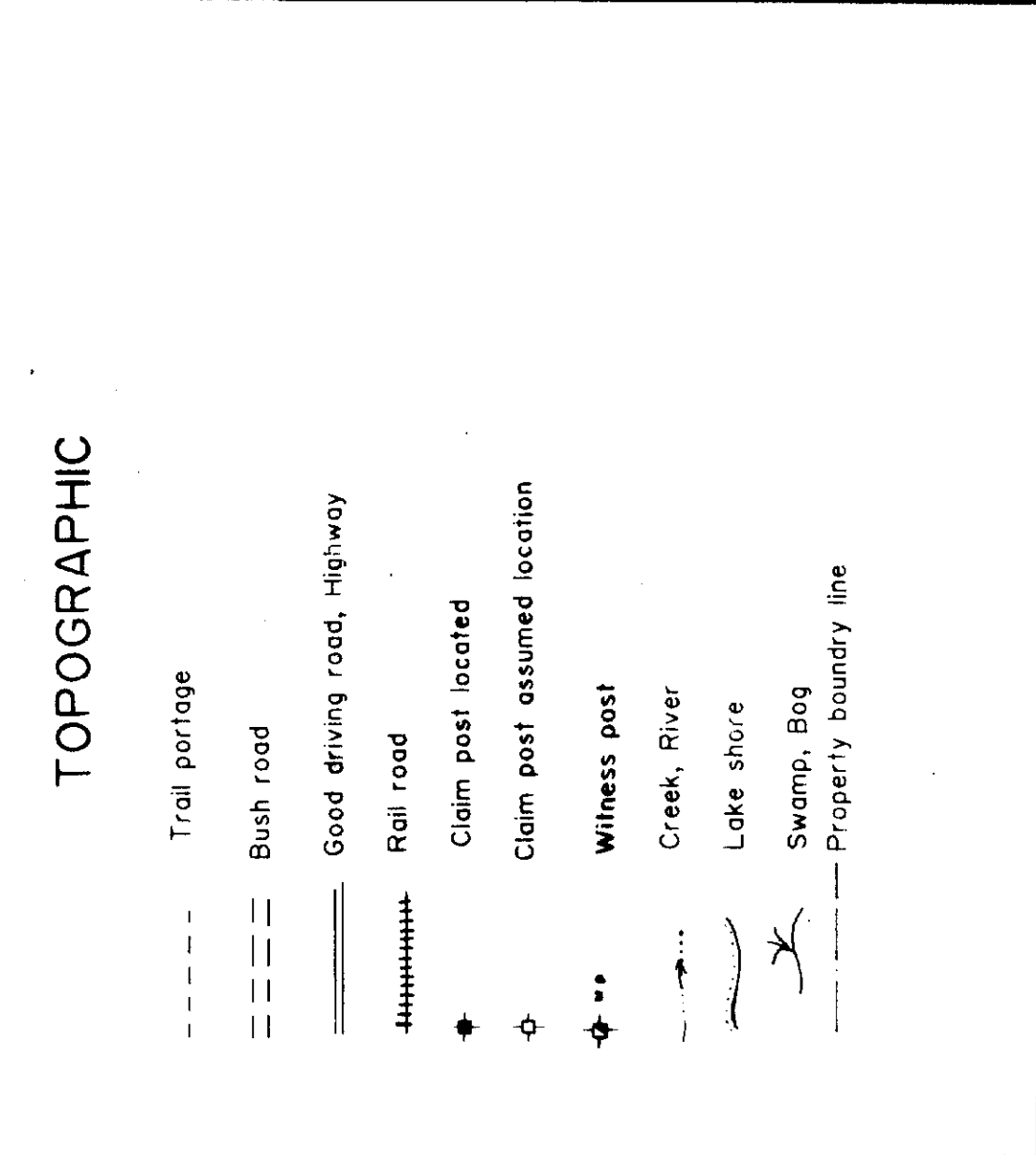
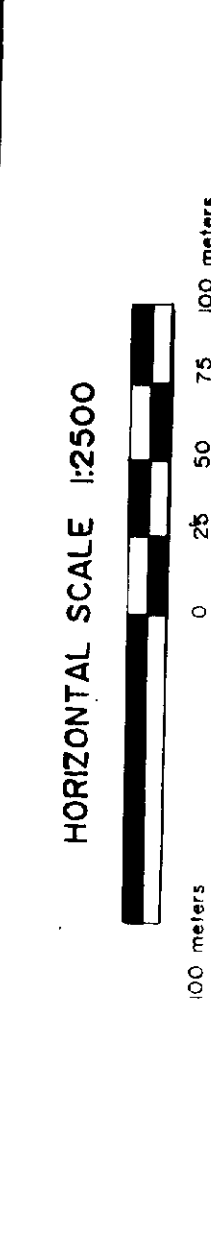
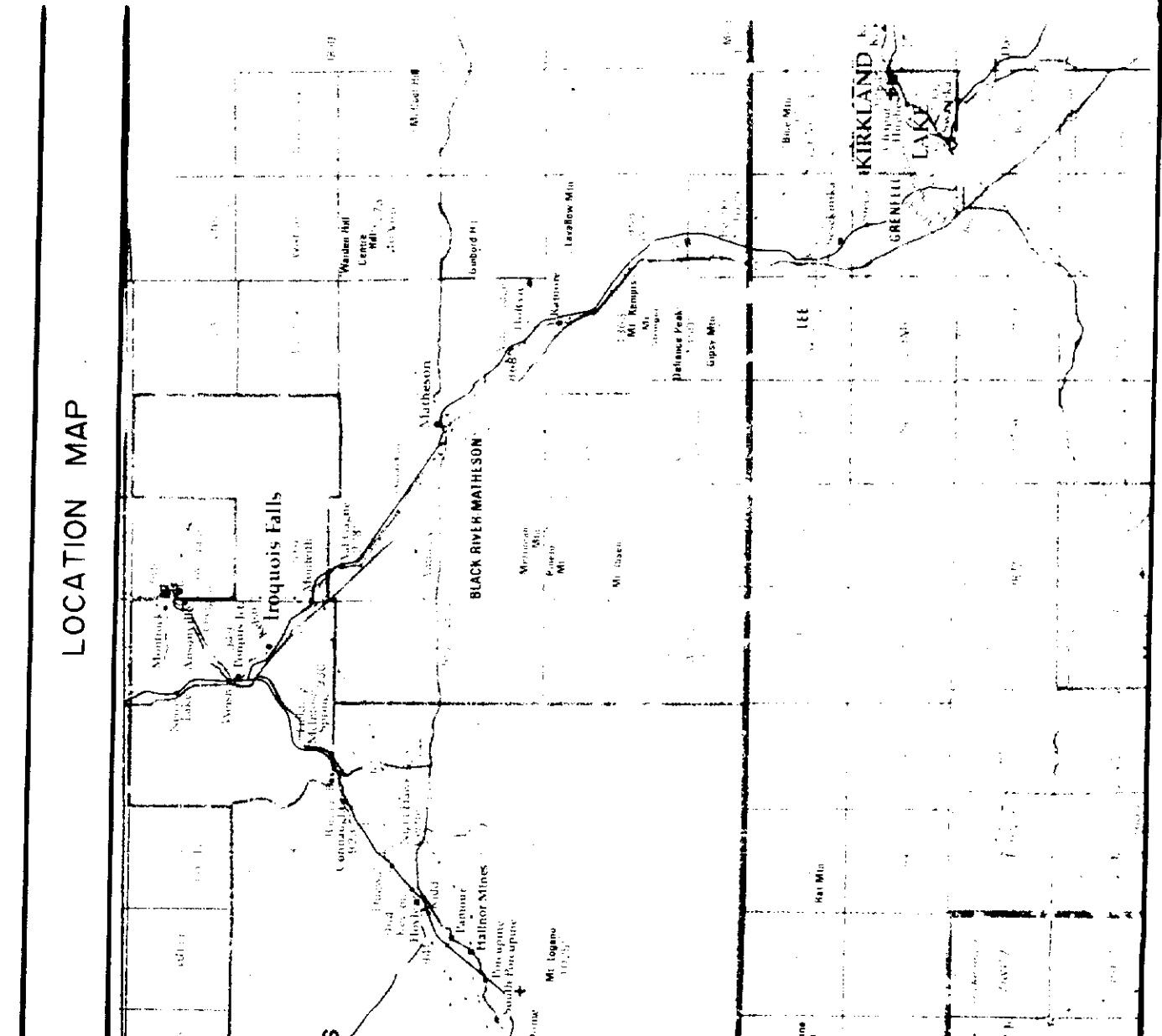
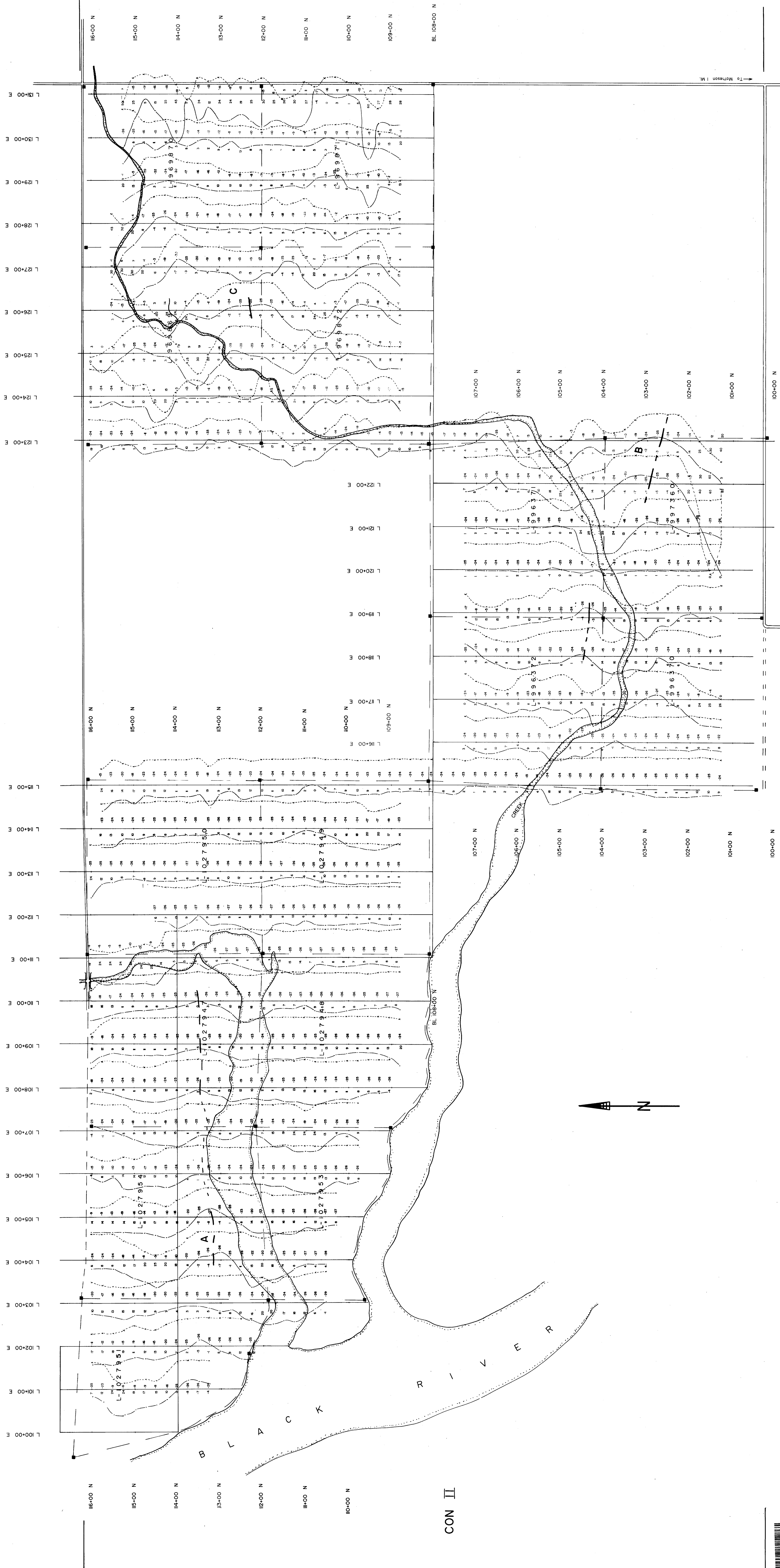
CON III

LOT 8

LOT 7

LOT 6

LOT 5



JENNEX LTD

CARR TOWNSHIP - LARDER LAKE MINING DIVISION

Survey by: Guy Thibault Exploration Services
 Geophysicist: M. Côté
 Instrument: Apex Parametrics Max-Min II
 Dated by: G. Thibault-M. Côté-S. Grégoire

DATE: Feb. 10 to 17, 1999



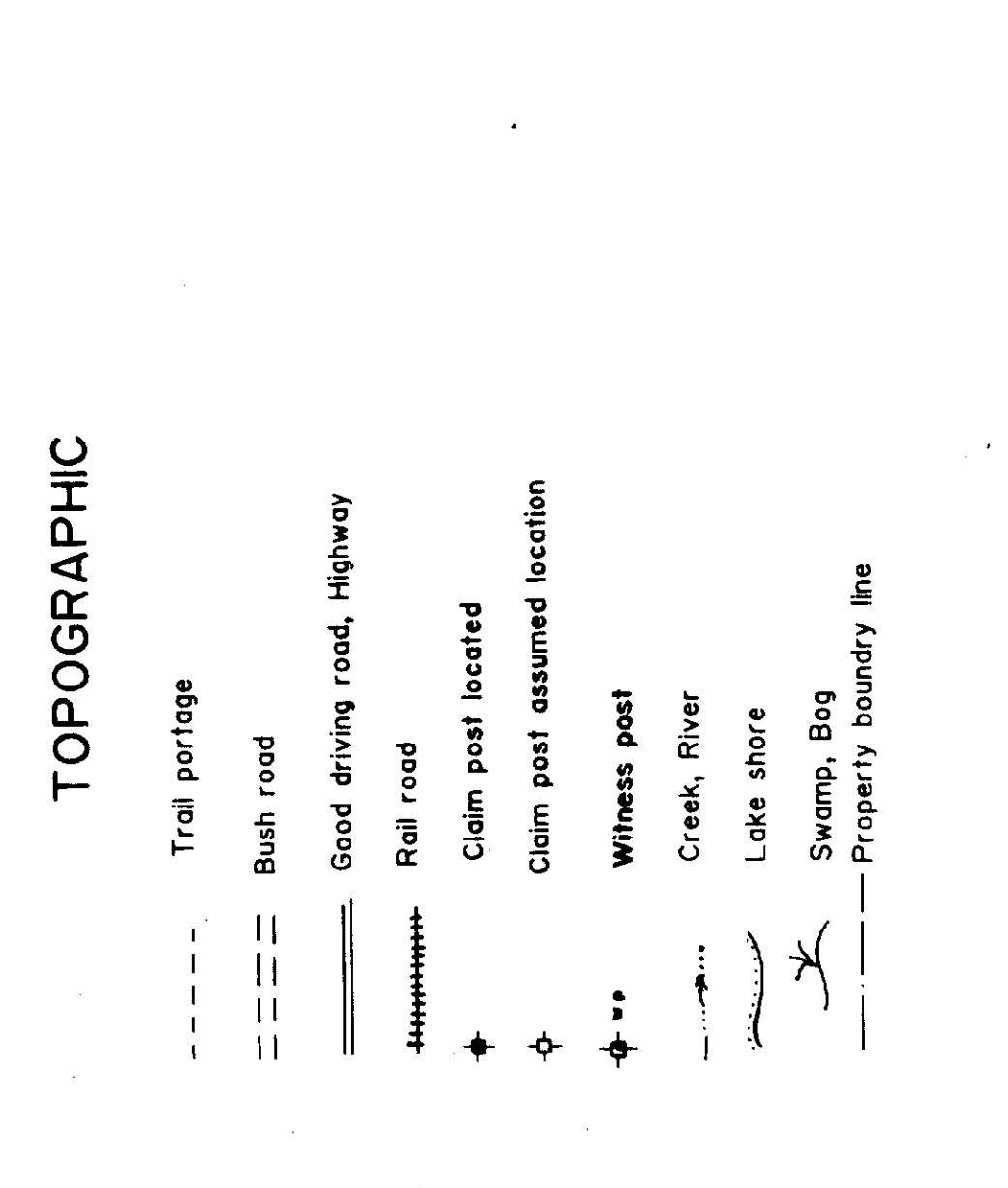
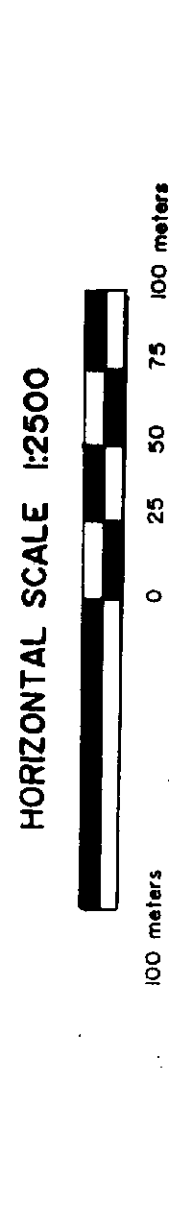
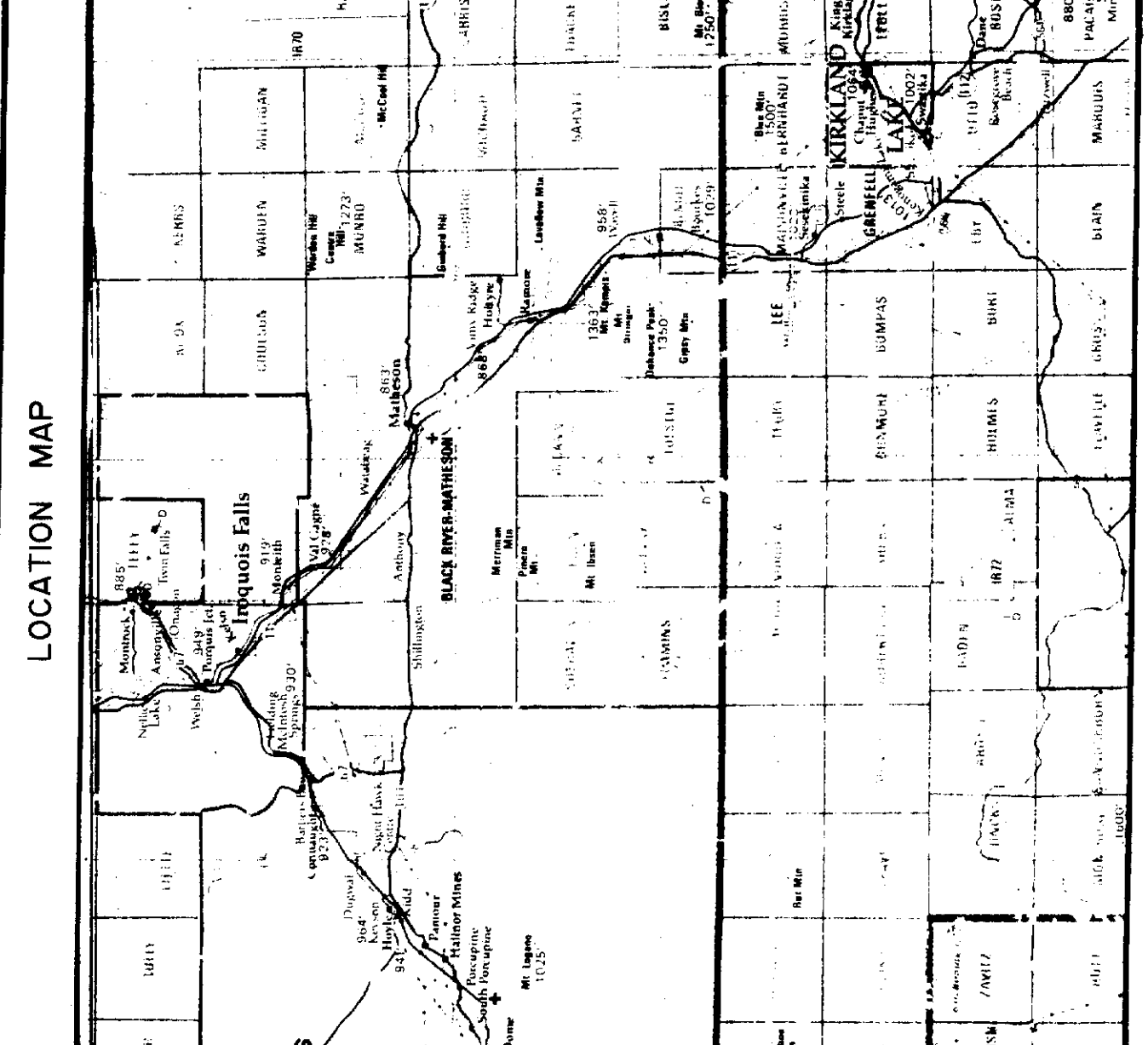
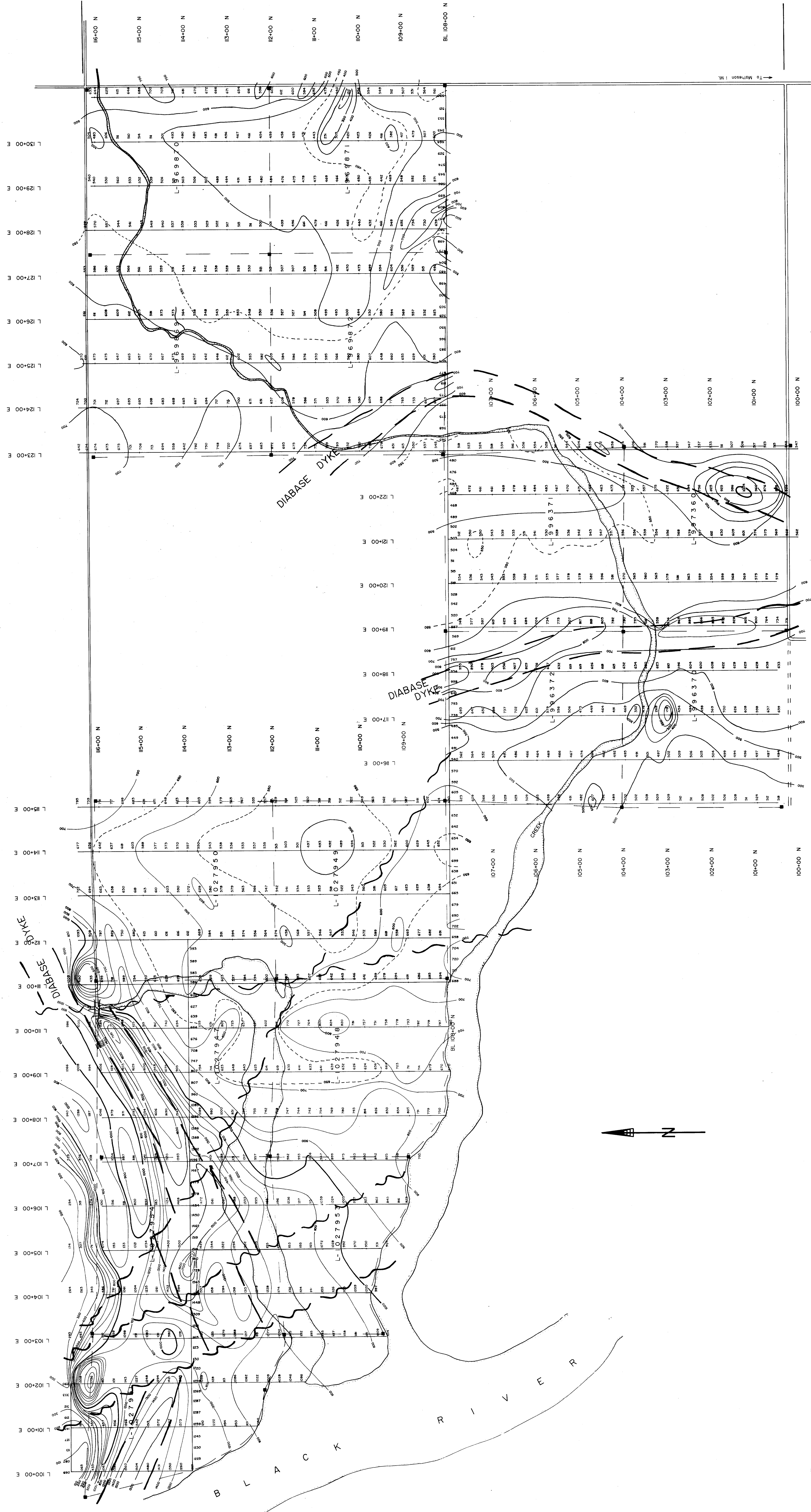
CON III

LOT 8

LOT 7

LOT 6

LOT 5



MAGNETIC SURVEY
 Add 58,000 Gamma to all readings for total field values
 Contours: 50 Gamma
 Intervals: 100 Gamma
 Base Station Location: 58,530
 108+00 N / 123+00 E

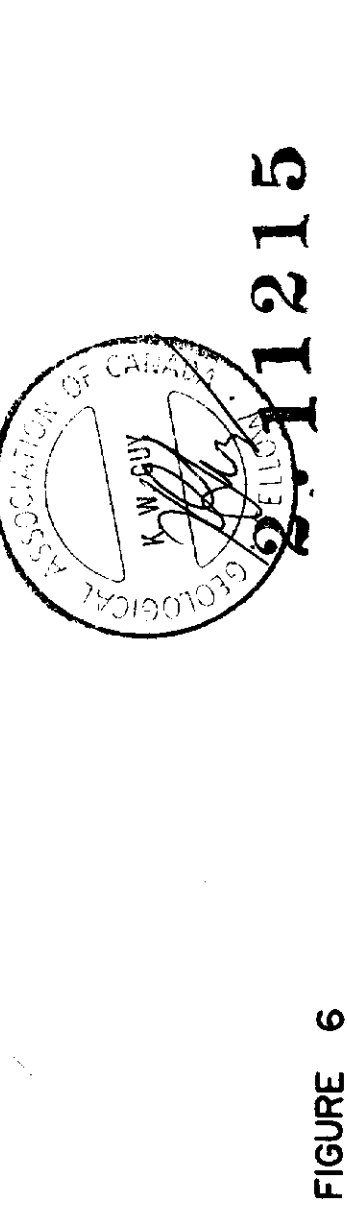


FIGURE 6
JENNEX LTD
 CARR TOWNSHIP PROPERTY
 CARR TOWNSHIP - LARGER LAKE MINING DIVISION
 Survey by: Giv Thibault Exploration Services
 Operator: M. Coan
 Instrument: M. Coan
 Apex Parametrics Mar-Min II
 DATE: Feb. 10 to 17, 1988
 Drawn by: G. Thibault, M. Coan-S. Coan



240