



NAREX Ore Search Consultants Inc.



41P11SW0035 2.5954 CONNAUGHT

010

NRX-83-25

117455 CANADA LTD.

GEOPHYSICAL SURVEYS

Elephant Head Lake Property

Connaught Township

LARDER LAKE MINING DIVISION

District of Sudbury

Ontario

October 1983

**RECEIVED**  
OCT 24 1983  
MINING LANDS SECTION

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ACCOMPANYING MAPS

Drawing #1 - Magnetometer Survey      Scale: 1 inch to 200 feet

Drawing #2 - Electromagnetic Survey      Scale: 1 inch to 200 feet



A. INTRODUCTION

The Elephant Head Lake property consists of three (3) contiguous claims in Connaught Township, Larder Lake Mining Division, District of Sudbury, Ontario. These claims which are held by 117455 Canada Ltd. are L636600, L636601 and L643141.

During August 1983, a grid was cut over the property and subsequent EM-16 and magnetometer surveys were conducted by NAREX Ore Search Consultants Inc.

B. LOCATION AND ACCESS

The claim group is located in central Connaught Township, north of Highway 560 and west of the village of Shiningtree, Ontario. Elephant Head Lake is a major body of water which is located just to the south of the claim block. Elephant Head Creek transects the property and flows out of Elephant Head Lake.

C. SURVEY AND INSTRUMENT DATA

The surveys were conducted over previously cut east-west (approx.) lines which are spaced at 300 foot intervals across the property. A total of 4.0 miles of grid and base lines were cut and picketed every 100 feet. The main baseline which is oriented N20°W has a length of 2800 feet across the middle of the property.

## 1. MAGNETOMETER SURVEY

The magnetometer survey was carried out with a Geometrics "Unimag I" portable proton magnetometer. This type of magnetometer utilizes the precession of spinning protons or nuclei of the hydrogen atom in a sample of hydrocarbon fluid to measure the total magnetic intensity.

These spinning protons behave as small spinning dipoles which are temporarily aligned or polarized by the application of a uniform magnetic field generated by a current in a coil of wire. When the current is removed, the spin of the proton causes them to precess about the direction of the ambient or earth's magnetic field. The precessing proton then generates a small signal in the same coil used to polarize it, a signal whose frequency is precisely proportional to the total magnetic field intensity and independent of the orientation of the coil (sensor of the magnetometer). Operation of the instrument is simple: one simply presses a button and reads the number for the total magnetic field strength in gammas ( $\gamma$ ), with a sensitivity of  $\pm 10 \gamma$  (gammas). Readings were taken every fifty (50) feet along grid lines for a total of 350 stations. Readings along the baseline serves as a standard to make the necessary corrections to compensate for the diurnal variations of the local magnetic field.



## 2. ELECTROMAGNETIC SURVEY

The electromagnetic survey was carried out using a "Geonics" EM-16 unit. The EM-16 is a sensitive receiver covering the frequency of the V.L.F. (very low frequency) transmitting stations, with a means of measuring the vertical field components. The VLF transmitting stations operating for communication with submarines have a vertical antenna. The antenna current is thus vertical, creating a concentric horizontal magnetic field around them. When these magnetic fields meet conductive bodies in the ground, secondary fields are set up radiating from these bodies. The EM-16 equipment measures the vertical component of these secondary fields.

The receiver has two inputs with two receiving coils built into the instrument. One coil has a normally vertical axis and the other, a horizontal one. Secondary fields caused by conductive bodies are, therefore, measured by the EM-16 by the angle of dip on the instrument and by measured percentage of the quadrature component (out of phase component) to give a null signal. Any deviation from the zero null position is indicative of a secondary field and, therefore, of a possible conductive body.

The transmitting station used for this survey was station NSS (21.7 kHz) Annapolis, U.S.A. Readings were taken every 50 feet along the picketed lines for a total of 702 readings from 351 stations.



D. INTERPRETATION OF RESULTS

1. Magnetometer Survey (Drawing #1)

Results from the magnetometer survey outline several north-northwest trending magnetic features. The highest anomalies are located on lines LO at 2+00W and at 1+00W; on L3S at 5+50W and at 10+50W (Claim 643141). These values are in the range of 61,000 to 68,000  $\gamma$  (very high). There are also several pronounced magnetic low anomalous areas which are located on L9N at the baseline; L3N at 2+00W; LO at 1+50W. These values are in the range of 50,000 to 56,000  $\gamma$ . In addition to the above-mentioned, there are several high and magnetic low subsidiary anomalies both east and west of the baseline in Claims L636600, 636601 and 643141. The predominant features do, however, occur west of the baseline on lines L3N, LO and L3S in Claim L643141. The magnetic gradients are very steep here with absolute differences in the order of 13,000  $\gamma$  in a distance of 50 to 300 feet.

Subsequent geological mapping indicates that the areas with high anomalies are underlain by magnetic facies Iron formation. The areas of low magnetic values are underlain by limestones.

Several of the gabbro bodies in Claim 636601 are also outlined by slightly higher magnetic values (59,000  $\gamma$  contour); these strike N20°W.

The rest of the areas shows a relatively flat magnetic gradient.



## 2. Electromagnetic Survey (Drawing #2)

Several moderate-strength, north-south trending conductors were detected by the EM-16 survey.

Conductor A is a moderate to weak conductor which is traceable over 1800 feet in Claims L636601 and 636600 and continues to the north. The quadrature response for this conductor is similar and sympathetic to the in-phase component.

Conductor C is a moderate-strength, north-south conductor traceable for 600 feet in Claim 643141.

Conductor D is a weak to moderate conductor in Claim 636600 near the baseline and is traceable on two lines (300 feet) and continues to the south.

As in Conductor A, the quadrature responses for Conductors C and D are similar to the in-phase component of each, suggesting a feature related to the swamp, creek or conductive overburden - not a good bedrock conductor. Topographically, Conductors A, C and D all correspond to swamps and thick swamp overburden.

Conductor B is located on LO at 2+00W. It is a short but strong conductor in which the in-phase and quadrature components behave in a similar and sympathetic manner.



However, since the conductor is within 50-100 feet of a copper showing, it is believed to be a conductor probably caused by massive sulphides. The conductor is weakly traceable 300 feet to the south (L3S, 1+50W) but not to the north.





E. CONCLUSIONS AND RECOMMENDATIONS

Results from both the magnetometer and electromagnetic surveys show several significant anomalies and conductors over the Elephant Head Lake property.

Conductors A (1800 feet long), C (600 feet long) and D (310 feet long) are largely restricted to swampy areas and are believed to be caused by drainage and/or deep conductive swamp overburden.

Conductor B is a strong conductor on LO at 2+00W and is believed to be caused by massive sulphides.

Results from the magnetometer indicate that the central part of the property is underlain by both Iron formation (high magnetic anomalies) and limestone (low magnetic anomalies) which trend in a north-south direction. These rock types are located in the vicinity of the Copper-showing. The rest of the property is underlain by a variety of felsic to mafic volcanic rocks. There is a strong correlation of the high magnetic anomalies and Conductor B - i.e. high magnetic and a sulphide conductor which is an excellent exploration target.

It is, therefore, recommended that a program of detailed geophysics should be carried out in the vicinity of the Copper showing. Vertical loop EM method could be used to



check the validity of all the EM-16 conductors. If results warrant, a drill program consisting of a minimum of 2000 feet should then be undertaken in an effort to outline further massive sulphides and copper mineralization.



Peter Born  
Project Geologist

PB:SG





41P11SW0035 2.5954 CONNAUGHT

900

*(file L 636599)*  
 Geophysical #256

The Mining Act

DO NOT use shaded areas below.

Type of Survey(s) <i>Geophysical</i>		Township or Area <i>CONNAUGHT TWP</i>	
Claim Holder(s) <i>MINING GOLD RESOURCES LTD &amp; 117455 CANADA LIMITED</i>		Prospector's Licence No. <i>T 1106 T 1371</i>	
Address <i>208-4400 Sheppard Ave E, Scarborough, Ont. M1S 4A7</i>			
Survey Company <i>NALEX OAS SEARCH CONSULTANTS INC.</i>	Date of Survey (from & to) Day   Mo.   Yr.   Day   Mo.   Yr. <i>18   09   83   23   09   83</i>		Total Miles of line Cut <i>3 miles</i>
Name and Address of Author (of Geo-Technical report) <i>PETER PEREK - 208-4400 Sheppard Ave E</i>			

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

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
<i>L</i>	<i>636600</i>				
<i>..</i>	<i>636601</i>				
	<i>643541</i>				

LARDER LAKE MINING DIV.  
 RECEIVED  
 SEP - 9 1983  
 AM PM  
 7 18 19 10 11 12 1 2 3 4 5 6

LARDER LAKE MINING DIV.  
 RECEIVED  
 AUG 29 1983  
 AM PM  
 7 18 19 10 11 12 1 2 3 4 5 6

*Int Recd*

Total number of mining claims covered by this report of work. *3*

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$  ÷  = 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.

For Office Use Only

Total Days Cr. Recorded *180*

Date Recorded *SEP 9 1983*

Mining Recorder *[Signature]*

Date Approved as Reported *84.4.3*

Date *Aug. 23/83*

Recorded Holder or Agent (Signature) *[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  
*Peter Perek Fran - P.O. Box 531, Bradford, Ont.*

Date Certified *Aug. 23/83*

Certified by (Signature) *[Signature]*



**GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT**

**TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.**

Type of Survey(s) GEOPHYSICAL

Township or Area CONNAUGHT TOWNSHIP

Claim Holder(s) 117455 CANADA LTD.

Survey Company NAREX ORE SEARCH CONSULTANTS INC.

Author of Report PETER BORN

Address of Author BOX 531, BRADFORD, ONT. LOG 1C0

Covering Dates of Survey AUGUST 18 - OCTOBER 20, 1983  
(linecutting to office)

Total Miles of Line Cut 4.0

**MINING CLAIMS TRAVERSED**  
List numerically

L..... 63600  
(prefix) (number)

L..... 63601

L..... 643141

**SPECIAL PROVISIONS**  
**CREDITS REQUESTED**

DAYS  
per claim

Geophysical

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

-Electromagnetic 40

ENTER 20 days for each  
additional survey using  
same grid.

-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: Oct 20, 1983 SIGNATURE: Peter Born  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.3604

**Previous Surveys**

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 3

**RECEIVED**

**OCT 24 1983**

**MINING LANDS SECTION**

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 352 Number of Readings 702
Station interval 50 ft. Line spacing 300 ft.
Profile scale 1" to 40%
Contour interval 1000, 500

MAGNETIC

Instrument UNIMAG I - GEOMETRICS
Accuracy - Scale constant +100
Diurnal correction method CROSS LINE CHECKS ON BASELINE READINGS
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument EM-16 (GEONICS)
Coil configuration
Coil separation
Accuracy +1%
Method: [X] Fixed transmitter [ ] Shoot back [ ] In line [ ] Parallel line
Frequency NSS 21.7 KHZ (specify V.L.F. station)
Parameters measured IN-PHASE AND QUADRATURE DIP ANGLE

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 \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_

**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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\_\_\_\_\_  
\_\_\_\_\_



Mining Lands Comments

*- You wanted to see this file again.*

To: Geophysics *Mr. Barlow.*

Comments

Approved     Wish to see again with corrections    Date *March 19/84*    Signature *RRL*

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)





## NAREX Ore Search Consultants Inc.

4900 Sheppard Avenue East, Suite 208, Scarborough  
Ontario, Canada M1S 4A7 Tel. (416) 293-2990

Ref. 24, 1984 March 2

Mr. J. R. Morton  
Acting Director  
Land Management Branch  
Ministry of Natural Resources  
Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3

# RECEIVED

MAR 10 1984

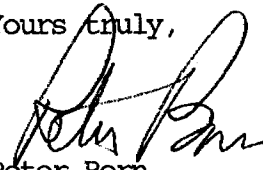
## MINING LANDS SECTION

Dear Mr. Morton: Geophysical (Electromagnetic and Magnetometer)  
Survey submitted on mining claims I636600 et  
al, in Connaught Township - Your File 2.5954.

Enclosed are the plans, in duplicate, on which the appropriate  
changes have been made to conform with the requests stated in a  
letter dated February 20, 1984.

I trust everything should now be in order. Enclosed is a copy  
of the letter.

Yours truly,

  
Peter Born  
Project Geologist

PB:R

Enclosures

<b>RECEIVED</b>	
Land Management Branch	
CIRCULATE	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
MAR -6 1984	
S. E. YUNDT	
J. R. MORTON	
J. C. SMITH	
W. L. GOOD	
RETURN TO	R. 6043

Your File: 256  
Our File: 2-5984

February 20, 1984.

Timmins Gold Resources Ltd.  
Suite 208  
4900 Sheppard Avenue  
Scarborough, Ontario  
M1S 4A7

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer) survey  
submitted on mining claims 1 636600 et al in the  
Township of Connaught.

Enclosed are the plans, in duplicate, for the above mentioned  
survey. Please indicate the actual reading at each station  
on the V.L.F. plans. In addition please provide a legend  
on each plan indicating the units measured and return the  
plans to this office.

Yours very truly,

J.R. Morton  
Acting Director  
Land Management Branch

Whitney Block  
Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1380

D. Kinvig:dg

Encls:

cc: 117455 Canada Limited  
c/o Arachnae Management Limited  
Buttonville Airport  
Markham, Ontario  
L3P 3J9

cc: Mining Recorder  
Kirkland Lake, Ontario

cc: Peter Born  
P.O. Box 531  
Bradford, Ontario  
L LOG 1C0



Mining Lands Comments

- missing pertinent geological data, summary of exploration  
geophysical map requires legend detailing units measured  
(lakes rivers not indicated)

To: Geophysics Mr. R. Barlow

Comments

- need legend on maps  
- VLF raw data needed

Approved  Wish to see again with corrections

Date: Jan 3/83 Signature: RRB

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)

256

2.5954

1983 11 03

Mr. George J. Koleszar  
Mining Recorder  
Ministry of Natural Resources  
4 Government Road East  
P.O. Box 984  
Kirkland Lake, Ontario  
P2N 1A2

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 L 636600 et al in the Township of Connaught.

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 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416)965-1380

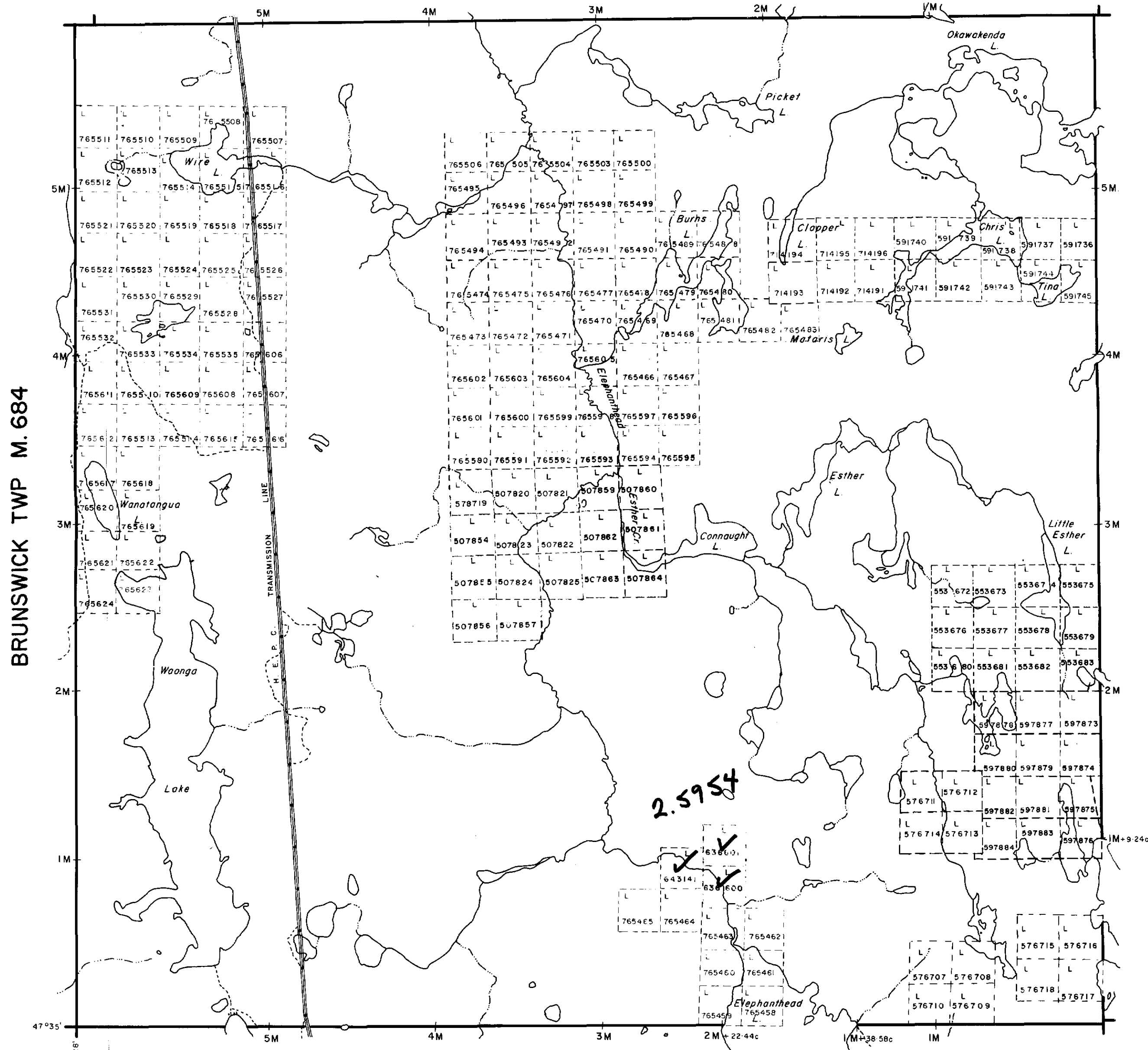
A. Barr:mc

cc: Timmins Gold Resources Ltd  
Suite 208  
4900 Sheppard Avenue  
Scarborough, Ontario M1S 4A7

cc: Peter Born  
P.O. Box 531  
Bradford, Ontario  
L0G 1C0

cc: 117455 Canada Limited  
c/o Arachnae Management Limited  
Buttonville Airport  
Markham, Ontario  
L3P 3J9

CABOT TWP M. 695



BRUNSWICK TWP M. 684

CHURCHILL TWP M. 719

MIRAMICHI TWP M. 865

NOTES

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

DATE OF ISSUE  
MAR 30 1991  
Ministry of Natural Resources  
TORONTO

LEGEND

- PATENTED LAND
  - PATENTED FOR SURFACE RIGHTS ONLY
  - LEASE
  - LICENSE OF OCCUPATION
  - CROWN LAND SALES
  - LOCATED LAND
  - CANCELLED
  - MINING RIGHTS ONLY
  - SURFACE RIGHTS ONLY
  - HIGHWAY & ROUTE NO.
  - ROADS
  - TRAILS
  - RAILWAYS
  - POWER LINES
  - MARSH OR MUSKEG
  - MINES
- \*used only with summer resort locations or when space is limited

TOWNSHIP OF

CONNAUGHT

DISTRICT OF  
SUDBURY

LARDER LAKE  
MINING DIVISION

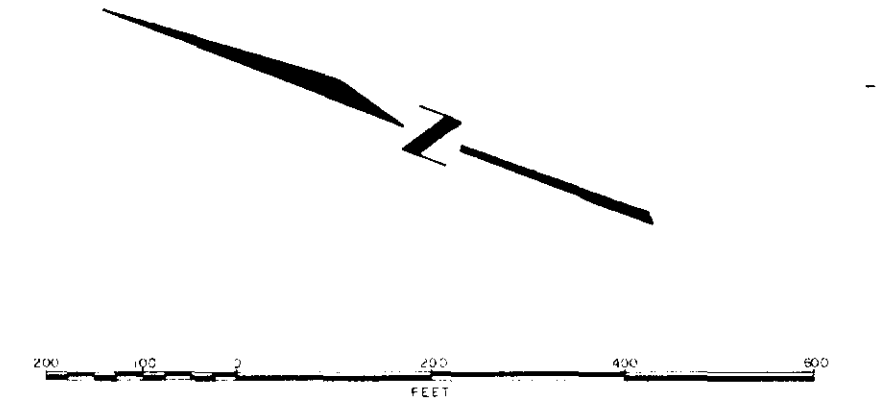
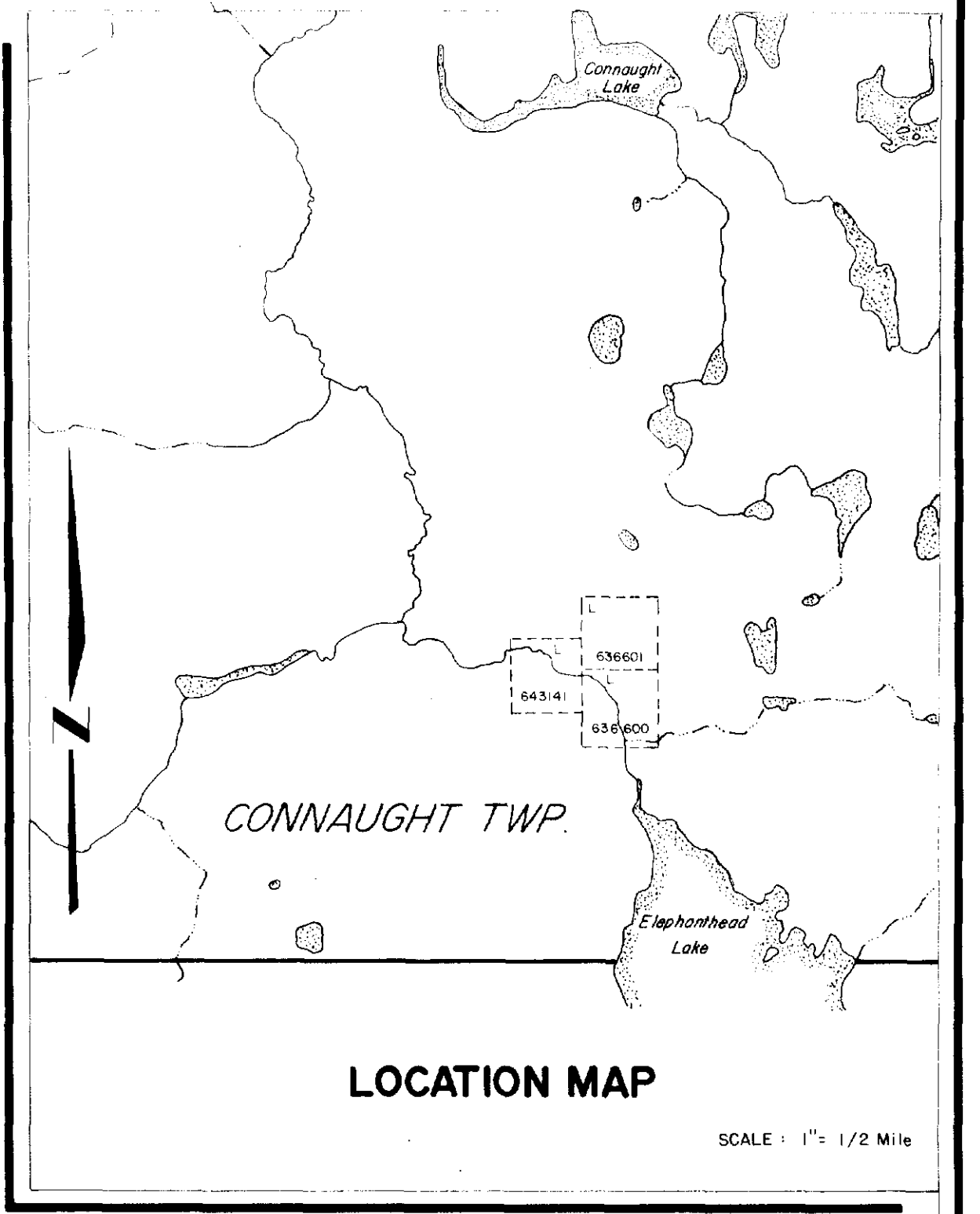
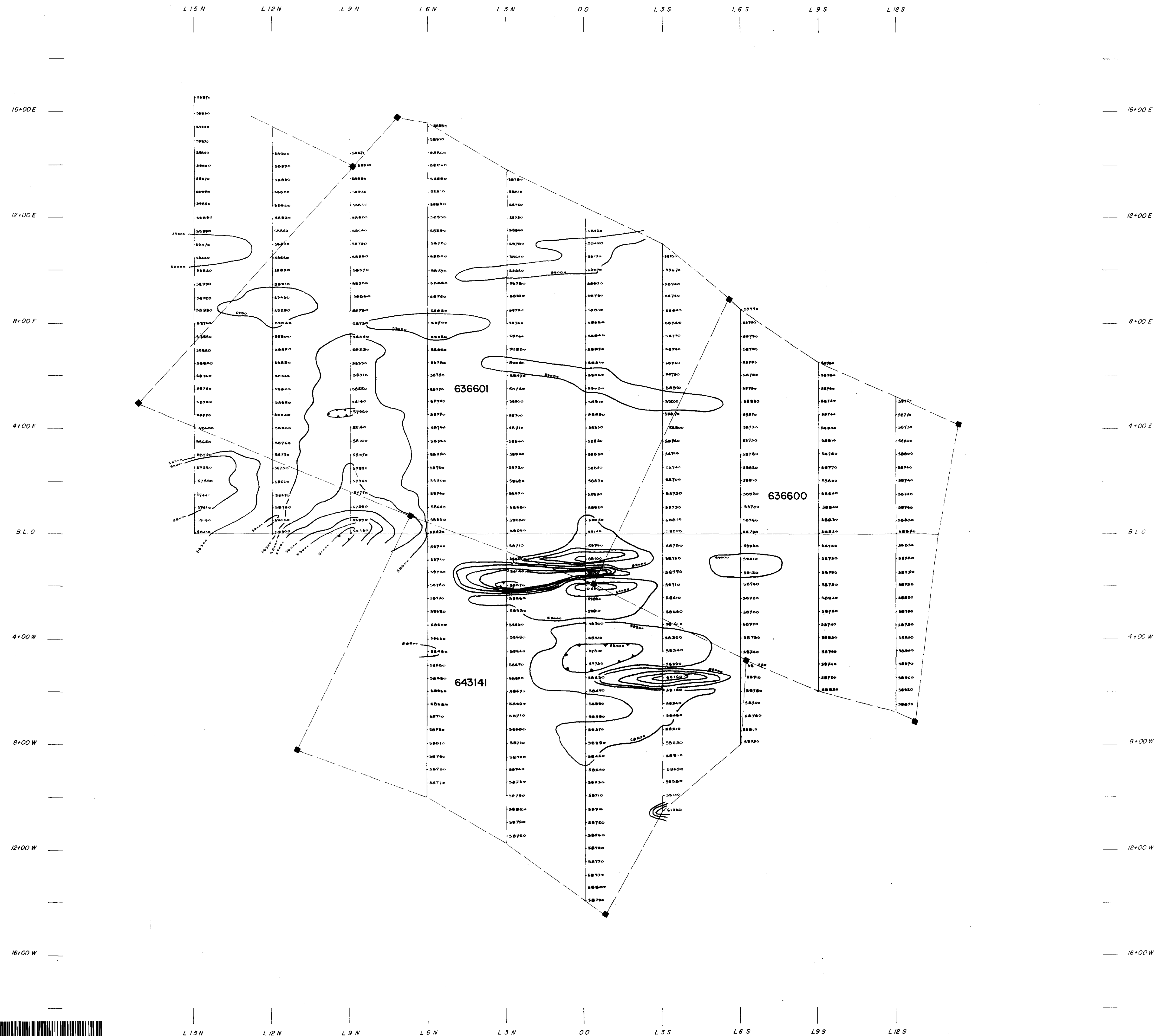
SCALE: 1 INCH = 40 CHAINS (1/2 MILE)

DR. J.B.K.  
DATE 20-Jan-71

PLAN NO. M.730

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH



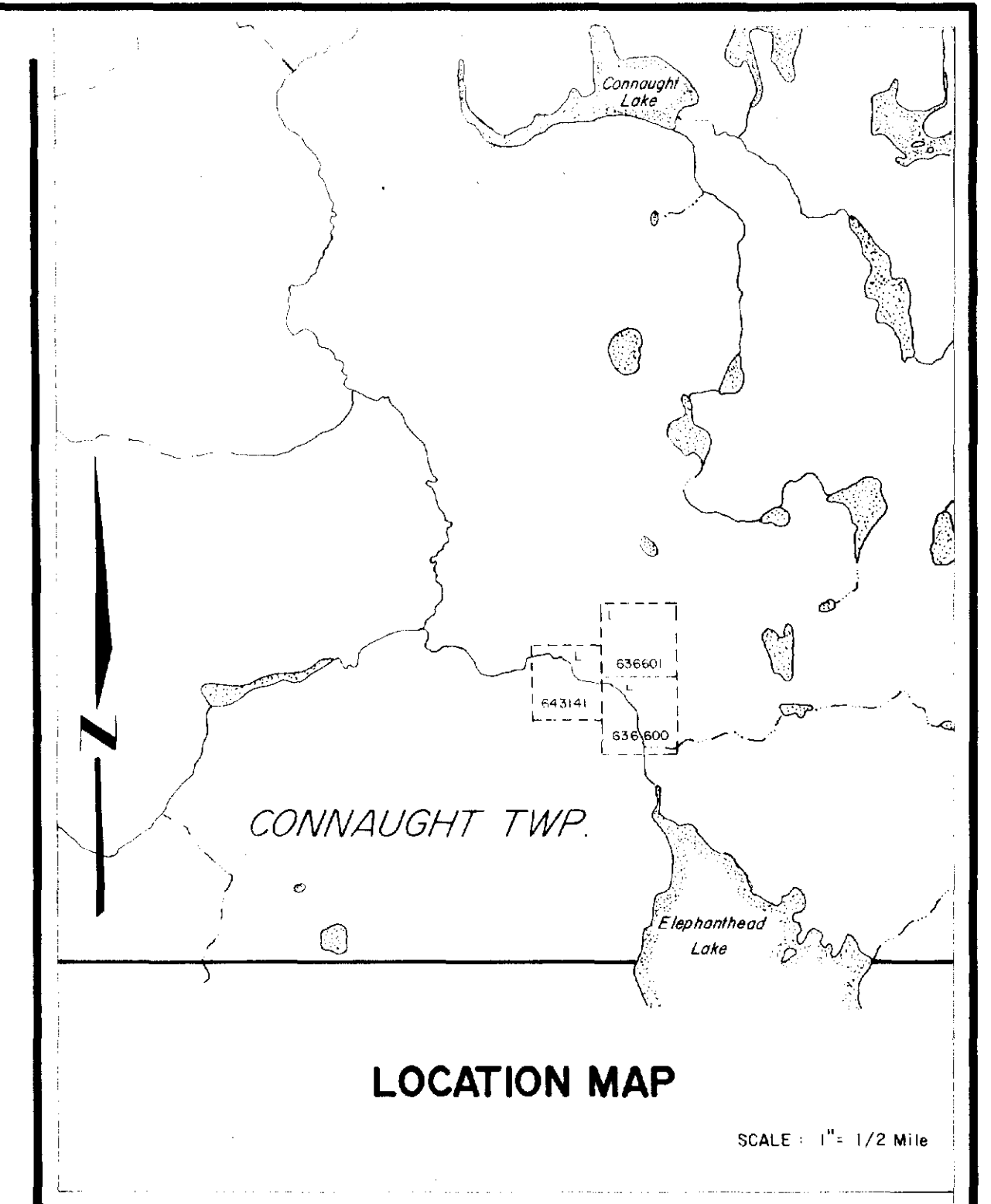
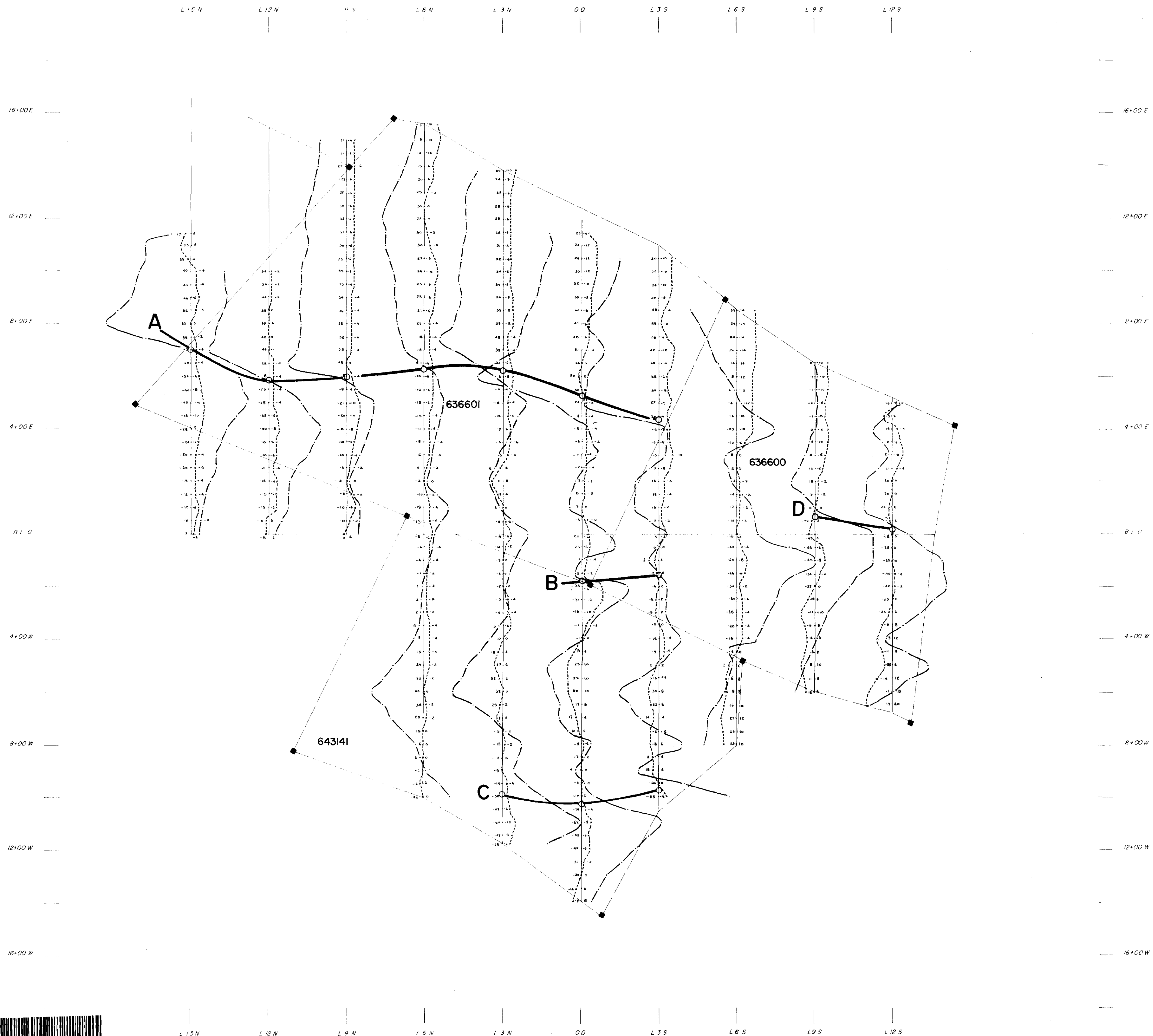


Total magnetic field, readings in gammas.

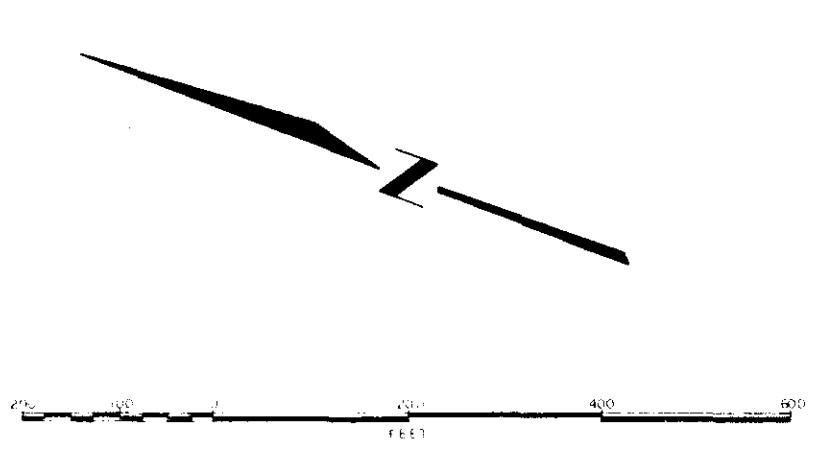
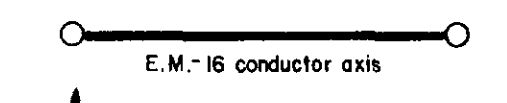
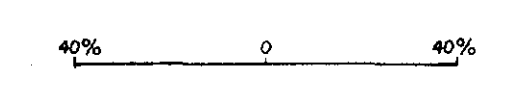
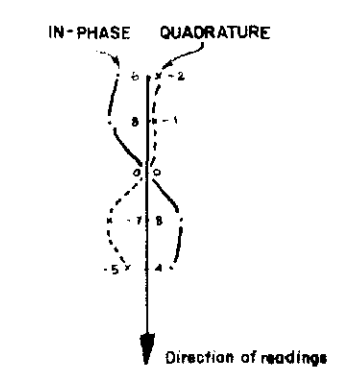
<b>117455 CANADA LIMITED</b>			
<b>ELEPHANTHEAD LAKE PROPERTY</b> <small>CONNAUGHT TOWNSHIP, DISTRICT OF SUDBURY, ONTARIO</small>			
<b>MAGNETOMETER SURVEY</b>			
Operator: M. GRANT	Date: Aug. 1983	Instrument: UNIMAG I	Scale: 1" = 2 400' or 1" = 200'
Drawn by: M.E.O.	Date: Oct. 1983		Drawing No: 25954







STATION: NSS 21.7 KHz.



117455 CANADA LIMITED

ELEPHANTHEAD LAKE PROPERTY

CONNAUGHT TOWNSHIP, DISTRICT OF SIMSBURY, ONTARIO

**E.M.-16 SURVEY**

Operator: P. Barn	Date: Sep 1983	Instrument: GEONICS	Scale: 1: 2 400 or 1" = 200'
Drawn by: M.E.O.	Date: Oct 1983		Drawing No.: 25954

