



42A16SE0111 2.5706 KERRS

010

GEOPHYSICAL REPORT
ON
MAGNETIC AND ELECTROMAGNETIC SURVEYS
CONDUCTED ON MINING CLAIMS:

L568876 - L568877

L576897 - L576921

L576947 - L576950

Located in Kerrs Township in the Mining
Division of Larder Lake, Ontario

RECEIVED

JUL 25 1983

MINING LANDS SECTION

by:
P.A. Diorio
July 12, 1983



42A16SE0111 2.5706 KERRS

010C

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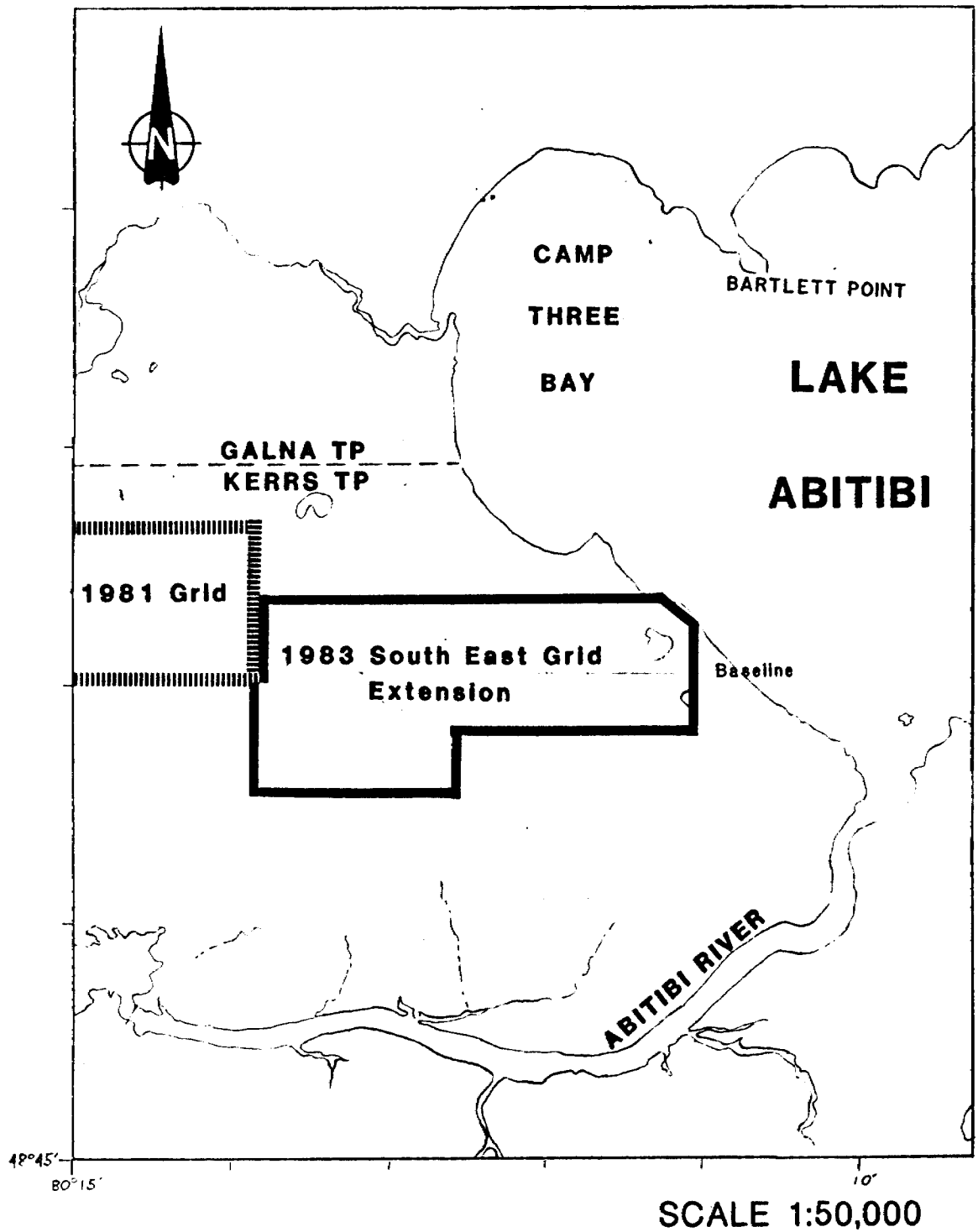
INTRODUCTION

This report describes magnetic and electromagnetic surveys which were completed by Utah Mines Ltd. personnel on mining claims located in Kerrs Township in the Mining District of Larder Lake, Ontario. The arrea in question consists of a large block of contiguous claims which are referred to here as the Jim's Lake Property, after the body of water of the same name, centrally located within this area. The surveys discussed in this report were conducted between January 10th, 1983 and February 2 1983, and cover a grid referred to as the Jim's Lake South-East Extension.

MINING CLAIMS COVERED BY SURVEY

The claims covered by the Jim's Lake South-East Extension consists of 31 mining claims as follows:

L 568876	L 576905	L 576915
L 568877	L 576906	L 576916
L 576897	L 576907	L 576917
L 576898	L 576908	L 576918
L 576899	L 576909	L 576919
L 576900	L 576910	L 576920
L 576901	L 576911	L 576921
L 576902	L 576912	L 576947
L 576903	L 576913	L 576948
L 576904	L 576914	L 576949
		L 576950



JIMS LAKE SOUTH EAST GRIDS LOCATION MAP

LOCATION AND ACCESS

The claims of the Jim's Lake Property lie approximately 34 miles E.S.E. of Cochrane, and cover parts of Moody, Galna and Kerrs Townships. The property may be reached using a 2 wheel drive vehicle from the main Cochrane-La Reine road. A logging road which leads south from the Cochrane-La Reine road starting $\frac{1}{4}$ mile west of the Low Bush river, leads directly to the property. The Jim's Lake South-East grid Extension is located in the northern part of Kerrs Township and may be reached by a winter road which extends south from the aforementioned road and then east towards Lake Abitibi. Alternately, the grid may be reached by boat from Lake Abitibi. For the surveys discussed here a camp was established near Trail Lake and the property was accessed by snowmobile.

TOPOGRAPHY AND VEGETATION

A major esker extends through the property from northwest to southeast. It is a northern section of the large Munroe Esker system which extends south to Kirkland Lake.

This esker has abundant lakes along its core section, the largest of which is Trail Lake and the second largest Jim's Lake, central to the property. The highest topography along the esker is approximately 30' above the surrounding elevation. Numerous kettle depressions and smaller kettle lakes occupy the core along its extent through the property. The surrounding area is occupied by mostly low swamp or semi-swamp areas.

The topography near the Abitibi drainage system is incised due to the erosional effect of tributaries flowing into the Abitibi river. There is one large open muskeg swamp in the south portion of the property, approximately one mile south of Jim's Lake. This open muskeg swamp is approximately $1\frac{1}{4}$ miles long and one half mile wide. It trends in a southwest-northeast direction and extends into the northwest section of the southeast grid. All drainage in the south portion of the property is into Abitibi river. One creek drains the east side of the property into Camp Three Bay of Lake Abitibi. On the northern boundary of the claim group is the Dokis river which drains out of the north end of Trail Lake. The Dokis river meanders in an easterly direction and drains into Northwest Bay of Lake Abitibi.

Vegetation along the esker system is predominantly Jackpine with mature Birch and Spruce flanking its outer margins. Abitibi Price have harvested a large area of timber at the southeast end of Trail Lake almost to Jim's Lake. Vegetation over the lower lying areas consists mostly of widely scattered mature black Spruce and Birch. Clusters of white Birch occupy local drumlin topographic ridges. Abundant Maple and Alder undergrowth is present over most of the lower lying areas. The large muskeg swamp is vegetated by widely scattered stunted Spruce and Labrador Tea. Several subsidiary smaller swamps are vegetated by the same plant species.

GEOLOGY

All claims of the Jim's Lake Property are covered by glacial drift, and no outcrop has been located. Ontario Department of Mines, Map 2205, Timmins - Kirkland Lake Geology Compilation Series, covers Kerrs Township. The Jim's Lake SE Extension is shown here to be underlain mainly by mafic flows and pyroclastic rocks. two north-south trending diabase dykes cut the region. This information is indicated as to have been derived from geophysical interpretation.

EXPLORATION HISTORY

The earliest record of exploration in the area was by North America Rare Metals Limited, who carried out an airborne magnetometer survey in 1962, followed by ground magnetometer, vertical loop and horizontal loop electromagnetometer surveys.

During the same year, Mistango River Mines Limited, followed up with ground magnetometer surveys. They then commenced a diamond drill program which ran between 1962 and 1965. It included the drilling of 34 diamond drill holes in Moody and Galna Townships. Some of these holes were drilled within the property and several outside the property area. The airborne and ground surveys done in 1962 picked up numerous mag anomalies and electromagnetic conductors. In 1964 Mistango River Mines Limited completed a ground turn survey over the central east-half of Moody Township and the western half of Galna Township.

Kenneco Explorations (Canada) Limited, completed an airborne survey of north eastern Kerrs and southern Galna Townships in 1965. This survey covered the southeast portion of the property and defined about a dozen weak anomalies.

In 1969, AMAX drilled one diamond drill hole approximately $1\frac{1}{2}$ miles northwest of the Abitibi river outlet from Lake Abitibi.

Noranda drilled two diamond drill holes near the south boundary of the property in 1965.

Texasgulf drilled 4 holes in Moody Township. Two of them were on ice in Trail Lake and two others on the west side of the property. One half mile east of Marathon Creek. This work was done in 1975.

Cominco were active in the area in 1977 and completed a line grid in the area immediately west of the southern termination of the Abitibi logging road. They completed ground magnetometer, EM and some gravity surveys on the grid. They reported two diamond drill holes. One was approximately $\frac{1}{4}$ mile west of the termination of the logging road and the second, one mile due north of the first hole.

The results of this previous exploration work has been the definition of a large number of formational type conductive zones occurring within basaltic volcanics, ultramafic flows or intrusives, and interbedded graywacke sediments. The diamond drill results indicate a wide belt of graywacke to graphitic type sediments starting at the

halfway point of Trail Lake and extending to the north boundary of Moody Township. This belt is interpreted to strike in an east-west direction or parallel to the trend of the geophysical conductors to the south.

There is no record of any diamond drilling having been carried out on conductors falling within the bounds of the Jim's Lake South-East Extension.

LINECUTTING - SURVEY GRIDS

Prior to commencement of the geophysical surveys, cut line grids were established to cover all the mining claims. Linecutting was carried out by Exploration Services Limited, Noranda Quebec, under contract to Utah Mines Ltd..

As suggested by the name of this grid, it is the eastern extension of the Jim's Lake south grid which was discussed in the previously filed report of assessment (see Figure 1). The station numbers and line numbers are contiguous with the original grid. The grid was laid out as follows: A baseline, running east-west for 11,200', was established centrally on the area, shown on the accompanying geophysical maps. Tie lines at the northern and southern extremes of the proposed survey lines were then established. North-south running traverse lines were surveyed and cut at 400' intervals. Conventional chaining techniques were used to establish stations at 100' intervals along each survey line with station 40S located on the baseline. At

each station wooden pickets were established, which were clearly marked with their respective grid designations to provide adequate station control for the planned geophysical surveys.

METHOD OF GEOPHYSICAL SURVEYS

(a) Magnetic Survey

The magnetic survey was carried out using a Barringer GM 122 hand-held Proton precession magnetometer. Magnetometers of this type make use of the phenomena called Nuclear Magnetic Resonance. The phenomena is observable when the nuclei of certain materials are first aligned to some direction by an intense magnetic field and then allowed to precess about a "weak" magnetic field. In the case of this survey the "weak" field is the earth's magnetic field. The intense magnetic field is produced by a D.C. current through a coil surrounding a proton rich fluid (Kerosens). When the current is switched off, the protons precess about the earth's field with a frequency directly proportional to that field. The proportionality appears to be a fundamental property of the nuclei and is not influenced by temperature or chemical variations. The frequency is measured by observing the current induced in a coil surrounding the fluid. A magnetometer based on this principle is effectively free from drift. The Barringer magnetometer used for this survey employs a sensor mounted on a staff

which is held at arm's length from the operator, thereby reducing possible magnetic or electromagnetic affects introduced by the operator. The output is in the form of a 5 digit display yielding the total field measurement in gammas (nanoteslas). The resolution and accuracy of this unit is ± 1 gamma.

Magnetic readings must be corrected for the time varying component of the geomagnetic field. This was done by correcting all readings with respect to a base station located on the baseline at L128E. Using this point as a reference, additional base stations were established along the baseline at each traverse line. All magnetometer readings were made at 100' intervals along the traverse lines which were surveyed in loops beginning and ending at a base station. These loops were closed within one hour. The traverse line data was corrected to the previously established base station values by assuming linear drift during the course of the traverse loop. A total of 1377 readings were recorded and corrected in this manner. The corrected magnetic values were plotted in plan format at a scale of 1" = 400' and contoured with 50 gamma contour intervals.

(b) Electromagnetic Survey

The electromagnetic survey was carried out by Utah Mines Ltd. personnel using an Apex Max-Min II EM system. The Max-Min II EM unit consists of a transmitter coil and console which generates an alternating primary field at one of four operating frequencies (222,444,888 or 1777 Hz). The choice of frequencies is made primarily on the type and depth of overburden and the type, size and depth of target being sought. In general a lower frequency will result in less geologic noise, have increased depth penetration, but at the same time will reduce sensitivity to conductors of interest.

The transmitter coil of the Apex Max-Min unit is connected to the receiving coil and console by a reference cable of suitable lengths. The choice of cable length lay primarily on the basis of depth to which EM penetration is desired for exploration. While an increased cable length gives greater depth of exploration, it also reduces the resolution of the system.

The receiving console, once tuned and nulled for local ground conditions gives an automatic readout of the real and imaginary components of the secondary field as a percentage of the primary field. With no conductor present, no secondary field is produced and only the primary field is

present at the receiver. Under these conditions, 0 in-phase and) out-of-phase are recorded.

In the presence of a conductor, a secondary field is produced. Negative, real and quadrature readings are recorded immediately over the conductor. As the leading coil approached a conductor, positive readings are observed (positive shoulders). When the coils have moved to a point where the conductor lies somewhere between the transmitter and receiver, negative values are observed, the minimum lying when the two coils straddle the conductor. As both coils move off the opposite end of the conductor, a second positive shoulder is observed. The readings are plotted as percentages of the primary field at the mid-point between the transmitter and receiver coils. The values are then profiled to outline anomalous regions.

The depth of penetration of this system is a function of the coil separation and frequency employed, but is generally regarded as being one half of the distance between transmitting and receiving coils. The nominal sensitivity of the instrument is about .2% of the primary field.

This survey was conducted using a 600' coil separation with readings taken at frequencies of 444 and 1777 Hz. The values of real and quadrature readings for each frequency at

1222 stations are plotted on the accompanying maps of each grid.

INTERPRETATION

The results of these surveys are shown on six accompanying plan maps. For the sake of clarity data values and profiled or contoured plots are shown on separate map sheets.

All maps and sketches accompanying this report are plotted with astronomic north indicated.

(a) Magnetic Survey

Results of the magnetometer survey are shown on the accompanying contoured magnetic maps. The maps are drawn at a scale of 1" = 400' and the magnetic values are contoured at an interval of 50 gammas.

Contouring was carried out by an automatic computer processing method. This method uses an inverse distance weighting function to interpolate magnetic field data values at each point on a regular grid. A grid interval equivalent to 90' on the ground surface was employed.

In addition to the contoured map a separate plan has been included showing station locations and corrected total magnetic field values.

Total magnetic relief is modest, approximately 800 gammas. The map is dominated by several north-south trending zones which probably represent diabase dykes pervasive within this structural province. Weak east-west to northeast-southwest trending features probably reflect variations in magnetite concentration in isoclinally folded intermediate volcanics.

(b) Electromagnetic Survey

The Max-Min II data are plotted as profiles on the accompanying plan maps of the grid, drawn at a scale of 1" = 400'.

Numerous conductors were located with the EM survey. These are indicated with a heavy line and designated with upper case letters on the profile maps. All but one of these anomalies reflect poor conductivity sources (little or no response at low frequency). These may be attributed to variations in overburden conductivity or perhaps poor quality bedrock conductors. Anomaly 83SE-G shows moderate conductivity (see Table 1) and probably results from a discrete bedrock conductor. The absence of associated magnetic response, long strike length, and modest


conductivity suggest that a graphitic source may be responsible for this feature although a non-magnetic sulphide source cannot be ruled out.

TABLE 1

Anomaly:	83SE-G
Line:	156E
Sta:	23S
Strike Length:	5200' L140E to L192E
Strike Direction:	N80°E
Dip:	90°
Depth to Top:	220' to 240'
Conductivity Thickness:	25 mhos @ 1777 Hz 12 mhos @ 444 Hz

CONCLUSIONS & RECOMMENDATIONS

Conductor 83SE-G appears to be the only reasonable drill target outlined by these surveys. The high probability that this is a graphitic horizon renders this a low priority target.


Peter A Diorio B.Sc
Geophysicist

PAD/ca

2.5'



The Mini

900

Type of Survey(s) **Magnetic and Electromagnetic** Kerrs Township

Claim Holder(s) **Utah Mines Ltd.** Prospector's Licence No. **T 793**

Address **4 King Street West, Suite 1406 Toronto, Ontario**

Survey Company **Utah Mines Ltd.** Date of Survey (from & to) **10 01 83 06 83** Total Miles of line Cut **32.1**

Name and Address of Author (of Geo-Technical report) **P. Diorio (as above)**

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
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man 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.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	568876			576918	
	568877			576919	
	576897			576920	
	576898			576921	
	576899			576947	
	576900			576948	
	576901			576949	
	576902			576950	
	576903				
	576904				
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	576915				
	576916				
	576917				

RECEIVED

MINING LANDS SECTION

LARDER LAKE MINING DIV.
 RECEIVED
 JUN 10 1983
 AM 7 18 91 10 11 12 12 1

Total number of mining claims covered by this report of work. **31**

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.

For Office Use Only

Total Days Cr. Recorded **1860** Date Recorded **JUN 13 1983** Mining Recorder Acting **M. G. Warner**

Date Approved as Recorded **83.11.29** Branch Director **[Signature]**

Date **June 6, 1983** Recorded Holder or Agent (Signature) **P. Diorio**

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 Diorio 4 King Street West, Suite 1406 Toronto, Ontario M5H 1B6**

Date Certified **June 6, 1983** Certified by **[Signature]**



Ministry of
Natural
Resources

Geotechnical
Report
Approval

File **2.5706**

Aug 10/83

Mining Lands Comments

To: Geophysics *Mr. Harlow*

Comments

<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date <i>Sept 20/83</i>	Signature <i>R. B. [unclear]</i>
--	---	------------------------	----------------------------------

To: Geology - Expenditures

Comments

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Geochemistry

Comments

LD

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

#158 568874

2.5706

1983 07 28

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 568876 et al in the Township of Kerrs.

This material will be examined and assessed and a statement
of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

A. Barr:mc

cc: Utah Mines Ltd
Suite 1406
4 King Street West
Toronto, Ontario
M5H 1B6
Attention: Peter Diorio



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 and Electromagnetic
Township or Area Kerrs Twp
Claim Holder(s) Utah Mines Ltd.

Survey Company Utah Mines Ltd.
Author of Report P. Diorio
Address of Author 4 King St. West, #1406, Toronto, Ontario
Covering Dates of Survey Jan 10, 1983 to July 12, 1983
(linecutting to office)
Total Miles of Line Cut 38.4 miles

MINING CLAIMS TRAVERSED	
List numerically	
(prefix)	(number)
L	568876
L	568877
L	576897
L	576898
L	576899
L	576900
L	576901
L	576902
L	576903
L	576904
L	576905
L	576906
L	576907
L	576908
L	576909
L	576910
L	576911
L	576912
L	576913
L	576914
L	576915
L	576916
L	576917
L	576918
L	576919
L	576920
L	576921
L	576947
L	576948
L	576949
L	576950
TOTAL CLAIMS <u>31</u>	

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	<u>DAYS</u> <u>per claim</u>
Geophysical	
-Electromagnetic	<u>20</u>
-Magnetometer	<u>40</u>
-Radiometric	
-Other	
Geological	
Geochemical	

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

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

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

DATE: July 19, 1983 SIGNATURE: P. Diorio
Author of Report or Agent

Res. Geol. _____ Qualifications 24695

<u>Previous Surveys</u>			
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 1377 Number of Readings 1377 Mag, 1222 X 4 EM
Station interval 100' Line spacing 400'
Profile scale 40% per inch
Contour interval 50 gammas

MAGNETIC

Instrument Barringer GM 122 Proton Precession
Accuracy - Scale constant 1 gamma
Diurnal correction method loops closed at baseline
Base Station check-in interval (hours) Less than 1 hour
Base Station location and value L128E, Sta. 40S 590658

ELECTROMAGNETIC

Instrument Apex Parametrics Ltd. MaxMin II
Coil configuration Coplanar horizontal loop
Coil separation 600'
Accuracy .2%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 1777, 444 Hz
(specify V.L.F. station)
Parameters measured In-Phase, Out-of-Phase as percentages of total field

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

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 _____

UTAH MINES LTD.

MINERAL EXPLORATION

SUITE 1406, 4 KING STREET WEST, TORONTO, ONTARIO, CANADA M5H 1B6
(416) 368-3884

July 22, 1983

Ministry of Natural Resources,
Mining Lands Section
Room 6450,
99 Wellesley Street West,
Whitney Block, Queen's Park
Toronto, Ontario

Attention: Mr. Arthur Barr

Dear Sir:

Please find enclosed duplicate, signed copies of Assessment Work Reports, Geophysical Plans and Technical Data Statements for work performed in Kerrs Township. These reports pertain to the claims listed on the attached Report of Work filed with the Ministry of Natural Resources in June, 1983.

Yours truly,



P.A. Diorio
Geophysicist
Utah Mines Ltd.

PAD/bm

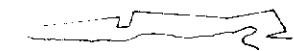
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L 568876	✓	✓				
877	✓	✓				
576 897	✓	✓				
898	✓	✓				
899	✓	✓				
900	✓	✓				
901	✓	✓				
902	✓	✓				
903	✓	✓				
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918	✓	✓				
919	✓	✓				
920	✓	✓				
921	✓	✓				
947	✓	✓				
948	✓	✓				
949	✓	✓				
950	✓	✓				

NOTES

ANNULMENT CERTIFICATE

The Subdivision of this Township into Lots and Concessions is partially annulled by order of The Deputy Minister of Lands and Forests.
July 22, 1963.

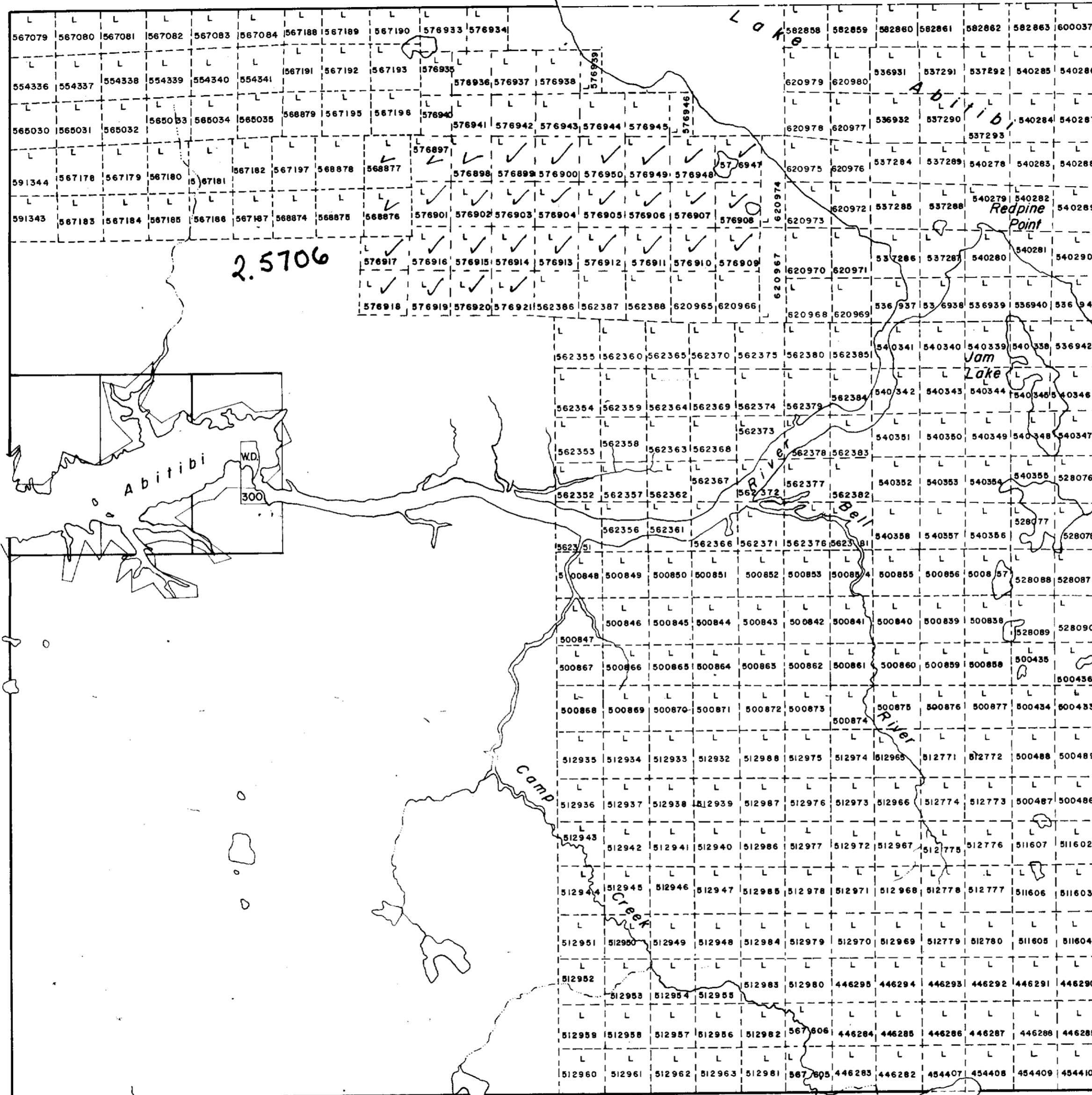
400' surface rights reservation along the shores of all lakes and rivers.

L.O. 8674 to the Abitibi Power & Paper Co. Ltd. shown thus: 

Abitibi River flooded below 826' & 881' level contour covered by L.O. 8674.

GALNA TWP. - M. 480

CHESNEY BAY - M. 399





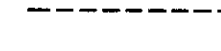

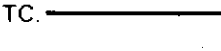
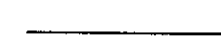
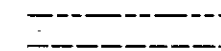
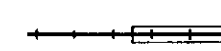
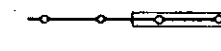

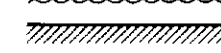

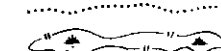





KNOX TWP.

M. 399

M. 375

WARDEN TWP.

LEGEND

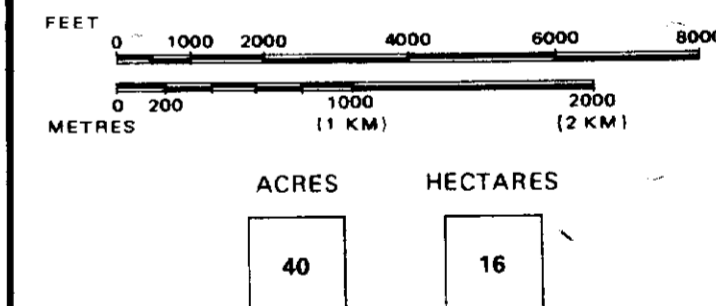
- HIGHWAY AND ROUTE No. 
- OTHER ROADS 
- TRAILS 
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC. 
 - LOTS, MINING CLAIMS, PARCELS, ETC. 
- UNSURVEYED LINES:
 - LOT LINES 
 - PARCEL BOUNDARY 
 - MINING CLAIMS ETC. 
- RAILWAY AND RIGHT OF WAY 
- UTILITY LINES 
- NON-PERENNIAL STREAM 
- FLOODING OR FLOODING RIGHTS 
- SUBDIVISION OR COMPOSITE PLAN 
- RESERVATIONS 
- ORIGINAL SHORELINE 
- MARSH OR MUSKEG 
- MINES 
- TRAVERSE MONUMENT 

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. 390, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP OF KERRS
DISTRICT COCHRANE
MINING DIVISION LARDER LAKE

 Ministry of Natural Resources
Surveys and Mapping Branch

Date JAN / 80

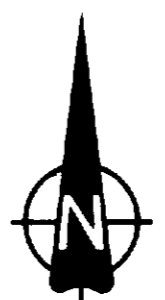
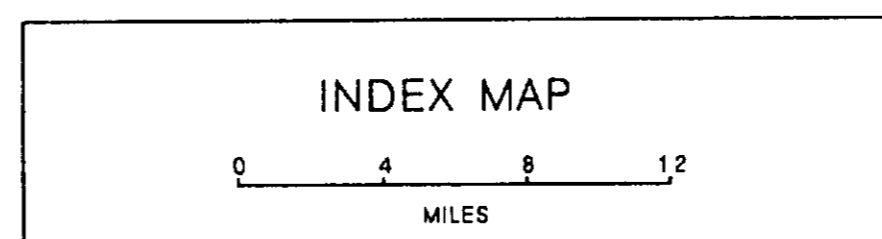
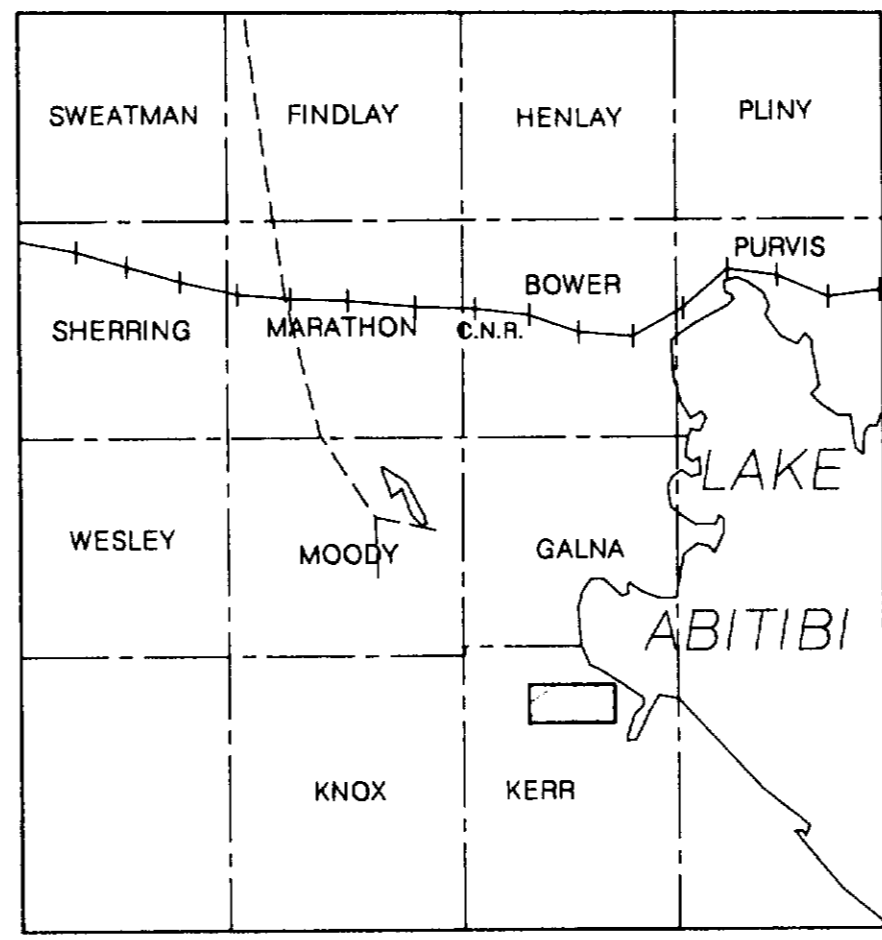
Plan No.

National Topographic Series

M-518



42A16SE0111 2.5706 KERRS



UTAH MINES LIMITED
EXPLORATION DEPARTMENT
Toronto, Ont, Canada

David

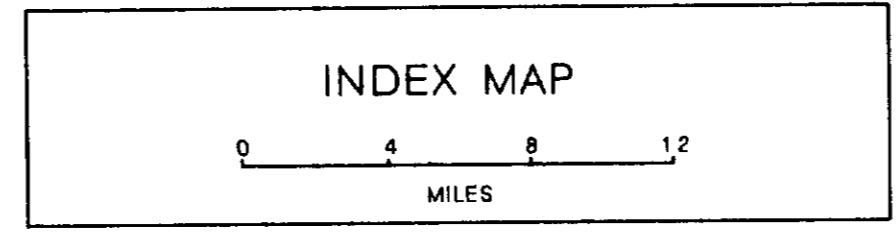
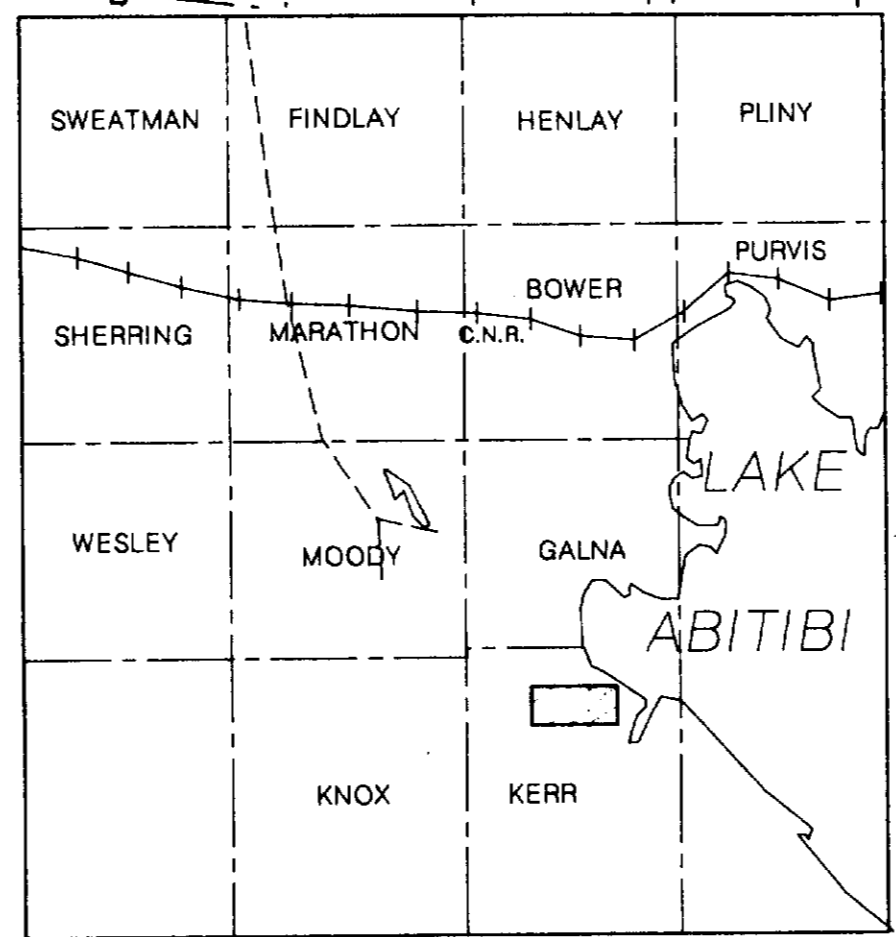
JIMS LAKE SE GRID EXTENSION
MAGNETOMETER SURVEY 1983
TOTAL FIELD CONTOURS
50 Gamma Contour Interval

Date	Drawn	Checked	Revised	NYS	File	Map

0 400 800 1200
Ft



25706



UTAH MINES LIMITED
EXPLORATION DEPARTMENT
Toronto, Ont., Canada

JIMS LAKE SE GRID EXTENSION
1983 MAXMIN II SURVEY

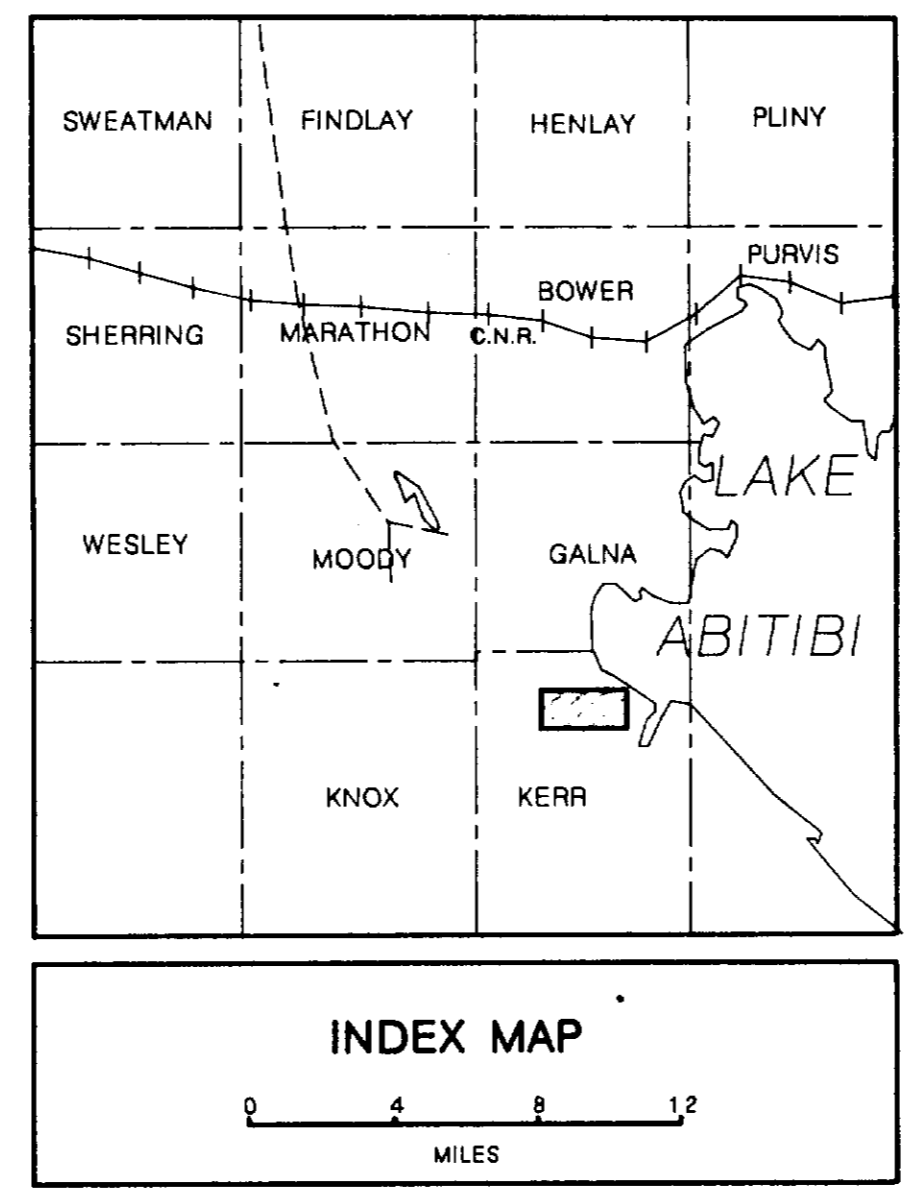
Coil spacing 800'; Frequency 444Hz.
In-Phase (Solid) @ 40 % per Inch
Out-of-Phase (Dashed) @ 40 % per Inch
Positive Profile Direction to East

Date	Drawn	Checked	Revised	NTS	File	Map

0 400 800 1200
Feet



L1 24E	L1 26E	L1 32E	L1 36E	L1 40E	L1 44E	L1 48E	L1 52E	L1 56E	L1 60E	L1 64E	L1 68E	L1 72E	L1 76E	L1 80E	L1 84E	L1 88E	L1 92E	L1 96E	L2 04E	L2 08E	L2 12E	L2 16E	L2 20E	L2 24E	L2 28E	L2 32E	L2 36E	L2 40E		
...



UTAH MINES LIMITED
EXPLORATION DEPARTMENT
Toronto, Ont, Canada

P. D. ...

JIMS LAKE SE GRID EXTENSION
1983 MAXMIN II SURVEY

Coil spacing 600'; Frequency 1777Hz.
In-Phase / Out-of-Phase values in X

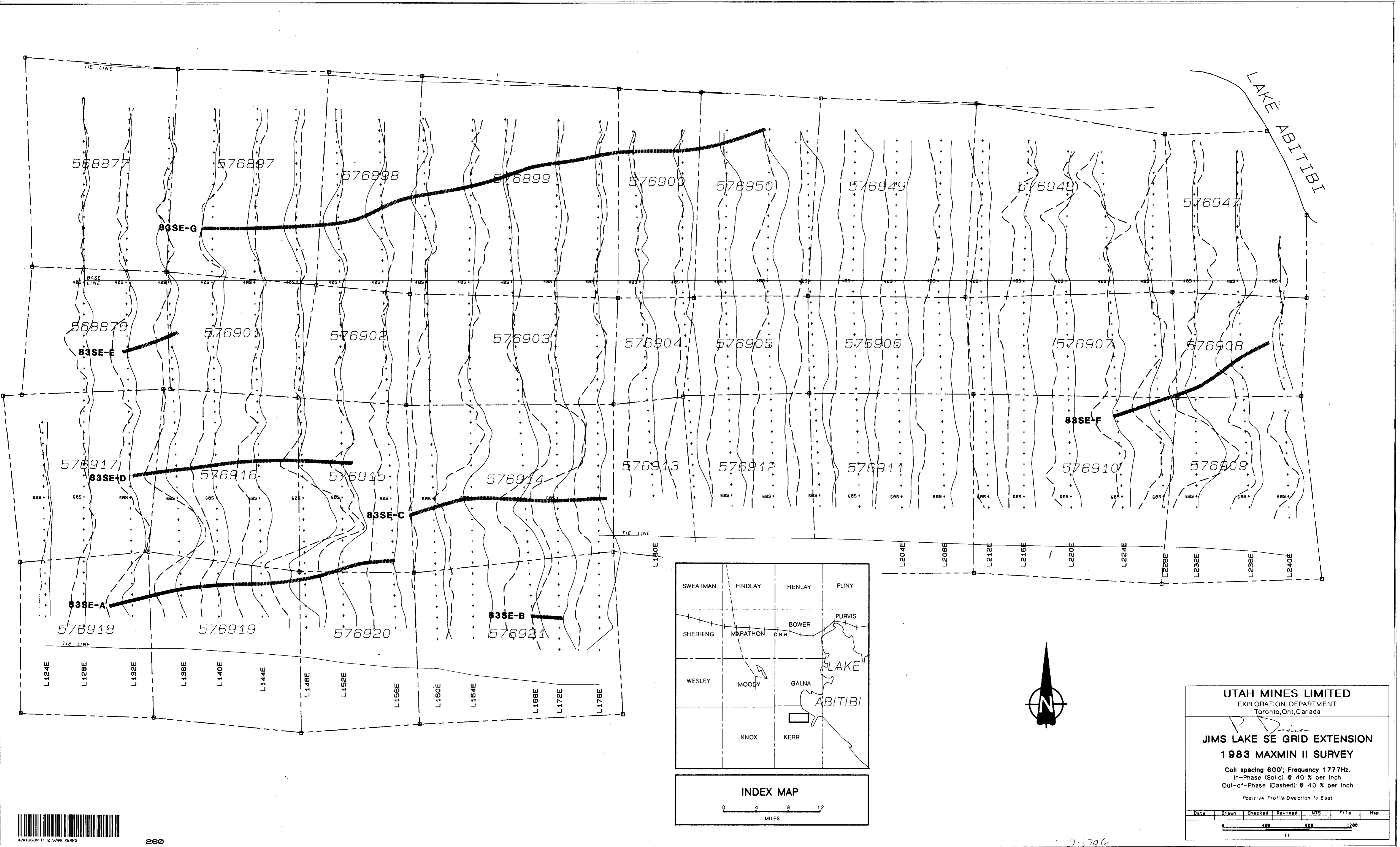
Date	Drawn	Checked	Revised	NIS	File	Map

0 4 8 12
MILES

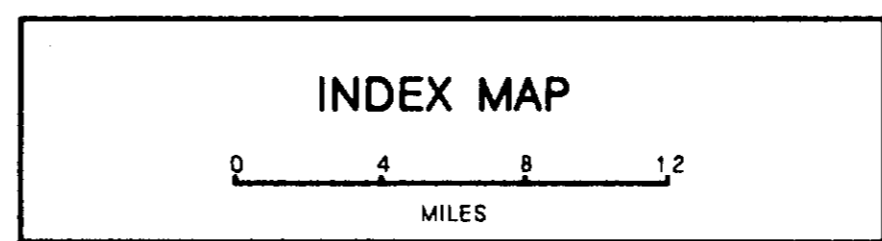
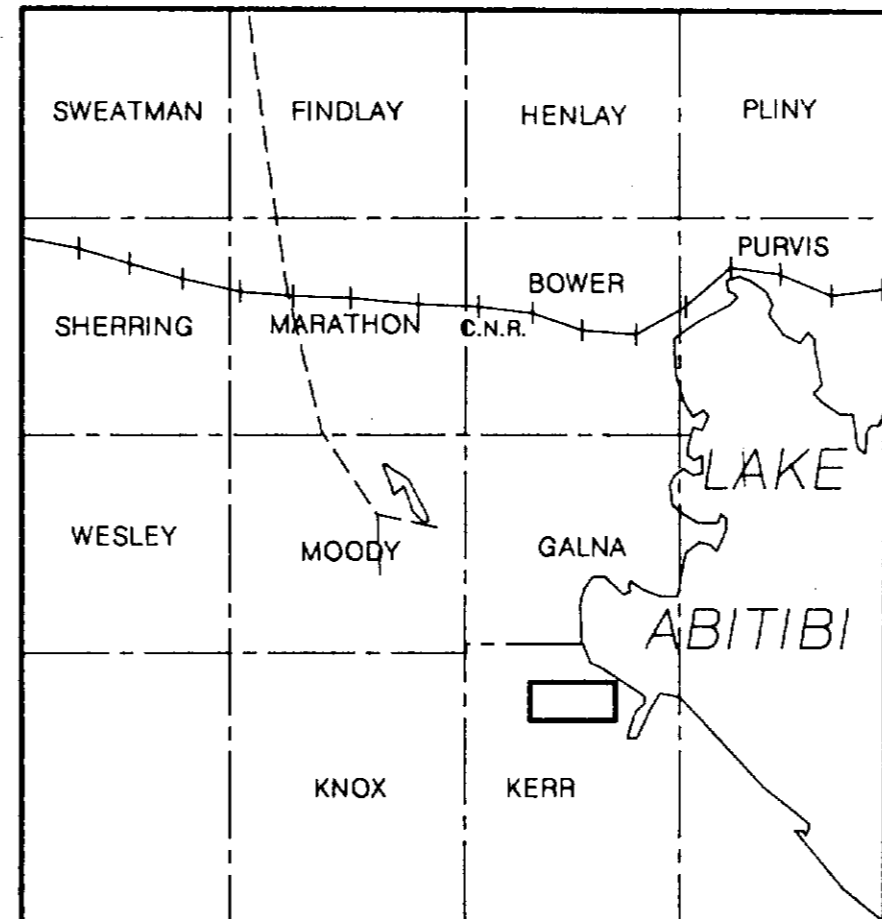
0 400 800 1200
Ft



2570C



LAKE ABITIBI



UTAH MINES LIMITED
 EXPLORATION DEPARTMENT
 Toronto, Ont, Canada

JIMS LAKE SE GRID EXTENSION
1983 MAXMIN II SURVEY

Coil spacing 600'; Frequency 1777Hz.
 In-Phase (Solid) @ 40 % per Inch
 Out-of-Phase (Dashed) @ 40 % per Inch
 Positive Profile Direction to East

Date	Drawn	Checked	Revised	NTS	File	Map

0 400 800 1200
 Ft

