



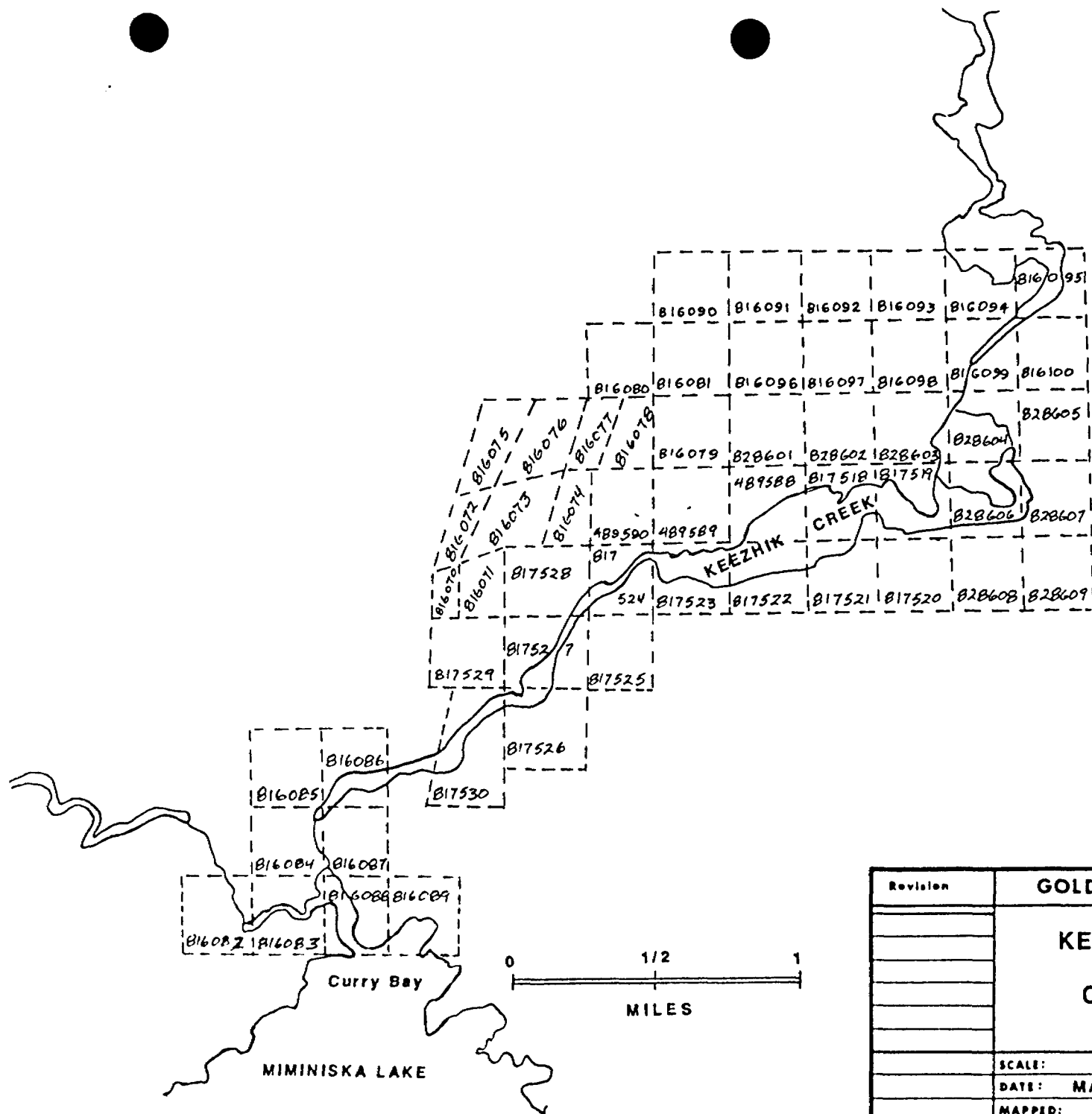
52P10NE0017 2.9217 NESTING LAKE

010

DARIUS MINES LTD.
KEEZHIC CREEK PROPERTY
GEOLOGICAL & GEOPHYSICAL REPORT

RECEIVED
JUL 24 1986
MINING LANDS SECTION

W. R. Troup
May 14, 1986



Revision	GOLD FIELDS CANADIAN MINING, LTD.	
	KEEZHNIK CREEK OPTION	
	CLAIM MAP	
	SCALE:	MAP No.
	DATE: MAY 1986	
	MAPPED:	
	DRAWN: WRT/wjz	N.T.S.

Introduction

In August 1985 a VLF electromagnetic survey (stations Cutler and Seattle) and a total field magnetic survey were initiated over GFCM's Keezhik Creek property. Follow up VLF, mag and select H.E.M. electromagnetic surveying was completed over water portions of the property in December 1985.

The purpose of the VLF survey was to locate conductive zones which might contain economic mineralization. The magnetic survey was completed to help in the interpretation of the VLF anomalies and to define the geological structure. The HEM survey was carried out in an effort to locate potential drill targets.

Property Location and Access

The Keezhik Creek property is located approximately 200 miles north of Thunder Bay, Ontario (ie 57 degrees 39' North latitude and 88 degrees 34' West longitude). The closest towns with commercial air service are Pickle Lake, 72 miles to the west, Armstrong, 90 miles to the south; and Nakina, 132 miles to the southwest. Beaver and Otter aircraft can land on a small lake on Keezhik Creek in the south central part of the property. Float aircraft can also land on Curry Bay off Miminiska Lake at the southwest end of the property.

Property Status

The property consists of the following 56 unpatented mining claims located on the Nesting Lake claim sheet:

	<u>Number</u>
TB489588 - TB489590 incl.	3
TB816070 - TB816100 incl.	31
TB817518 - TB817530 incl.	13
TB828601 - TB828609 incl.	9
TOTAL	<hr/> 56 <hr/>

Physiography

Outcrop density on the Keezhik Creek property is estimated at less than 1%, with much of the property overlain by spruce swamp. Higher areas are typically covered by glacial drift. Relief throughout the claim group is less than 50 feet.

Property Geology

The claim group covers an east-west trending sequence of mafic volcanics and sediments located within the west extension of the Miminiska - Fort Hope greenstone belt.

Outcrop is sparse on the claim group. The majority of the

property is underlain by metasedimentary rocks, ie. greywacke, argillite, and arkose. Mafic volcanics were mapped in the northeast and southwest.

In the south and central portions of the property the common foliation trend is 70 degrees and dips are 85 degrees to the north. The foliation trend is semi-parallel to bedding. In the north-east portion of the property the average foliation trend is 90 degrees and dips are 85 degrees to the north.

Economic Geology

Gold mineralization has been recorded previously from the "Main Trench Zone" located on the north grid at L0+00 and the base line. The mineralized zone occurs in sheared argillites trending 55 degrees and dipping near vertical. Gold mineralization occurs where semi conformable quartz veins and stringers occur in sheared argillites. The wall rocks are typically pyritized. Previous sampling of the east end of the trench has returned assay values in the range of 0.5 oz Au/ton over a width of 13 feet. (Anaconda 1984). The mineralized zone lenses out 10 feet east of the sampled area. The quartz veining is less pronounced along the west extension of the 30 foot long exposure.

Anaconda tested the main zone with 6 holes in 1985. The drill results suggest the zone pinches out rapidly to both the east and the west.

Geophysical Surveys GFCM 1986

During the period July 15th to Sept. 15th, 1985 Northwest Geophysics of Thunder Bay established 77 miles of grid over the land portion of the Keezhik Creek property and completed 74 miles of VLF and magnetometer survey.

Lines were spaced at 200 feet intervals on two grids with the base line of the North Grid oriented at 115 degrees and the base line of the South Grid oriented at 80 degrees. The two grids were oriented such that cross lines would intersect stratigraphy at close to right angles.

The VLF survey was carried out over the newly established grid using both Cutler and Seattle stations and utilizing on IGS-2 from Scintrex.

During the same time period, both total field and vertical gradient magnetic surveys were carried out on the land portion of the property. Readings for both surveys were taken at 50 foot intervals, using a proton IGS-2 from Scintrex. The instrument has a sensitivity of 0.1 gammas. The usual diurnal and datum corrections were made using a base station, an EDA-Omni 4, located on the property.

In December of 1985, 16 miles of grid was established over

the widening of Keezhik Creek and again Mag and VLF surveys were completed as for the main grid.

Fifteen miles of Max Min 11 electromagnetic survey was also completed in December, over the Keezhik Creek portion of the grid.

Discussion of Geophysical Results

1 Magnetics

The magnetics on both the north and south grids trend generally east-west. The majority of the north grid is underlain by metasediments which have a fairly uniform magnetic expression. The higher magnetics in the most northerly part of the north grid occur in an area of mafic metavolcanics (high iron tholeiitic). An area of relatively higher magnetics occurs over the eastern portion of the south grid and again occurs in an area of exposed tholeiitic volcanics.

The magnetic trends extending across the north grid in the area of the base line and Line 0+00, occurs in an area where the sediments are sheared and intruded by porphyry.

11 VLF & HEM Surveying

The VLF-HEM survey indicates a number of conductors occurring in fromational trends. These are thought to represent a combination of shear zones, stratiform sulfides, and graphitic argillites. The following three areas are considered of primary interest.

i) Keezhik Creek North Zone

This anomalous trend extends west from an area of trenching located at the base line and line 0+00 on the north grid. Significant gold values have been obtained from an east west trending shear zone exposed in the old trenching. (J. Mann Anaconda Canada - Geology, Geochemical & Geophysical Report Nov. 1984). The western extension of this VLF trend is largely overburden covered and has never been tested.

ii) Keezhik Creek Zone

This series of VLF anomalies extending along Keezhik Creek, from L0+00 to L46+00E displays a weak magnetic association suggestive of a bedrock source rather than conductive overburden. The HEM surveying confirmed this to be the case. It is suggested the series of enechelon conductors present in this portion of Keezhik Creek may represent a single conductive horizon broken up by faulting.

iii) South Keezhik Creek Zone

The VLF anomaly present at L108E, 2100N, on the south grid

was confirmed by HEM survey to be a valid anomaly.

Recommendations

Nine drill holes were proposed to test the observed geophysical anomalies. Two holes were proposed on the south Keezhik Creek Zone, five on the enechelon series of conductors present in Keezhik Creek and two on the Keezhik Creek Zone.

REFERENCES

- Prest, V.K. - 1939: Geology of the Keezhik-Miminiska Lakes Area; Ontario Department of Mines, Vol. 48, pt. 6, p.1-21
- Wallace, H. - 1981: Geology of the Miminiska Lake Area, Districts Kenora (Patricia Portion) and Thunder Bay, Ontario Geological Survey Report 214, p. 96.
- J. Leslie Mann B.Sc. - 1984: Geology, Geochemical and Geophysical Report Keezhik Creek Project for ANACONDA CANADA EXPLORATION

W. A. Troy



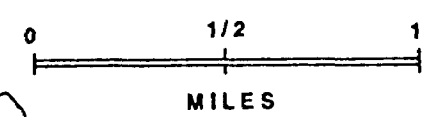
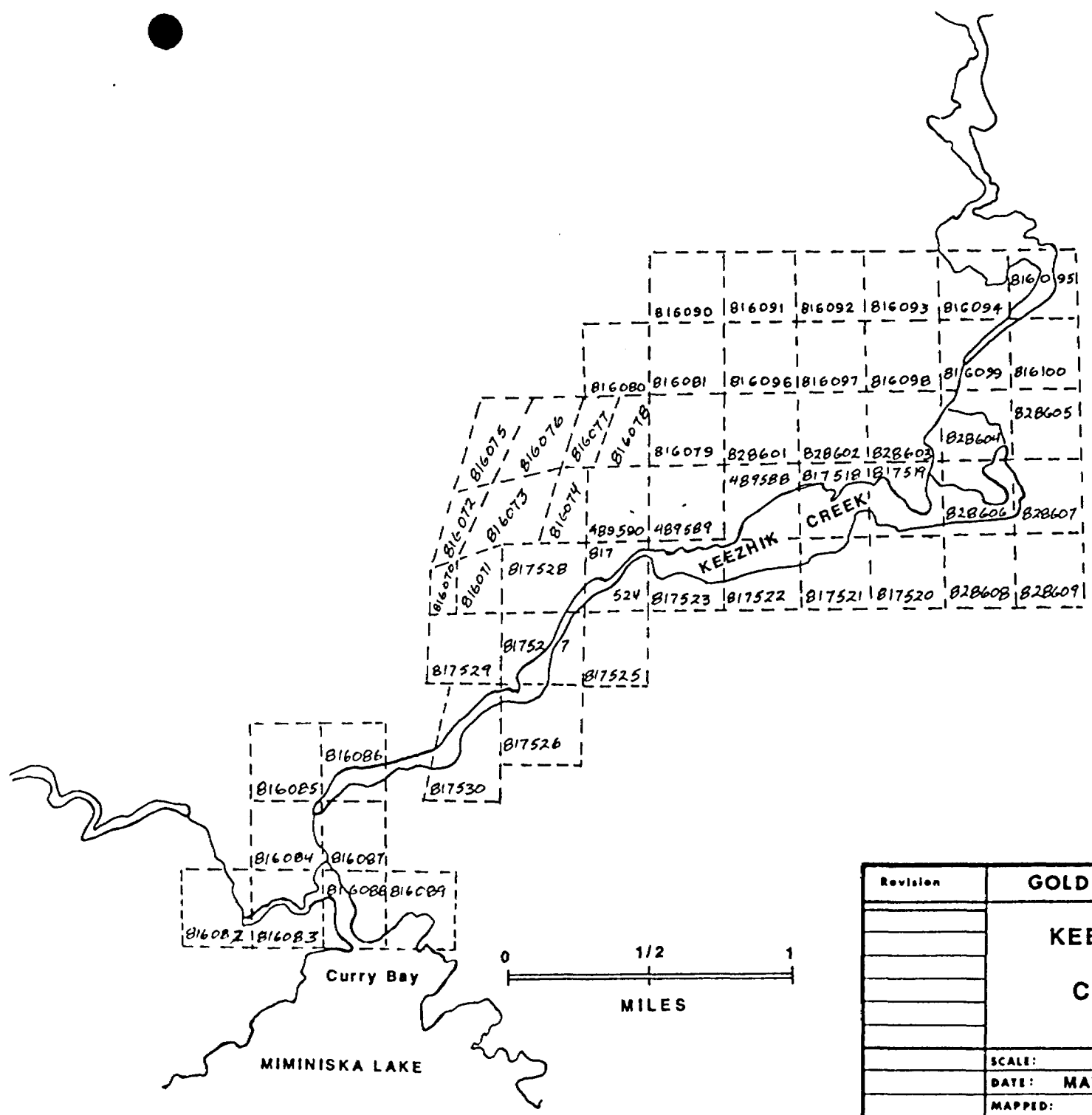
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DARIUS MINES LTD.
KEEZHIK CREEK PROPERTY
GEOLOGICAL & GEOPHYSICAL REPORT

W. R. Troup
May 14, 1986

RECEIVED
JUN 27 1986
MINING LANDS SECTION



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	KEEZHNIK CREEK OPTION	
	CLAIM MAP	
	SCALE:	MAP No.
	DATE: MAY 1986	
	MAPPED:	
	DRAWN: WRT/wjz	N.T.S.

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GOLD FIELDS CANADIAN MINING

A Consolidated Gold Fields Group Company



52P10NE0017 2.9217 NESTING LAKE

900

Toronto, Ontario M5J 2M2
(416) 865-0945

July 22, 1986

Mr. S. E. Yundt, Director
Land Management Branch Ministry of Natural Resources
Whitney Block
Room 6643
Queen's Park
Toronto, Ontario
M7H 1W3

Re: MINING CLAIMS TB-489588-489590; TB817518-817530;
TB-816070-816100; TB-828601-828609

Dear Sir:

Enclosed are two copies of a geology report for which Darius Mine Inc. has filed a "Report of Work" with the mining recorder in Thunder Bay. Also enclosed are copies of "Technical Data Statements."

Thank you for your attention to this matter.

Yours truly,
GOLD FIELDS CANADIAN MINING, LTD.

W. R. Troup
Senior Geologist

WRT:ems

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JUL 24 1986

MINING LANDS SECTION

GOLD FIELDS CANADIAN MINING, LTD.

A Consolidated Gold Fields Group Company

University Place
123 Front Street West, Suite 909
Toronto, Ontario M5J 2M2
(416) 865-0945

June 26, 1986

Mr. S. E. Yundt, Director
Land Management Branch
Ministry of Natural Resources
Whitney Block, Queens Park
Room 6643
Toronto, Ontario
M7A 1A3

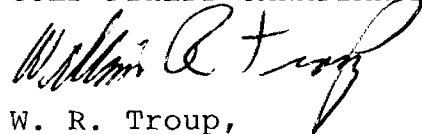
Dear Sir:

Enclosed are two copies of the technical reports describing ground VLF-EM, Magnetometer Survey, Gradient Magnetometer Survey and H.E.M. Surveys carried out over the Darius Mine Inc. claim group in the Miminiska Lake area of N. W. Ontario. The geological maps will be forwarded when available.

The concerned surveys are submitted for assessment credit as required by the two reports of work recently filed with the Mining Recorders office (copies of these reports are included).

Yours truly,

GOLD FIELDS CANADIAN MINING, LTD.



W. R. Troup,
Senior Geologist

WRT/jmc
encl:

CC: W. Bond

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JUN 27 1986

MINING LANDS SECTION



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) Geophysics (Mag, Gradient Mag, VLF,)

Township or Area _____

Claim Holder(s) Darius Gold Mine Inc.

Survey Company Northwest Geophysics

Author of Report W. R. Troup

Address of Author 123 Front Street West, #909, Toronto
Ontario

Covering Dates of Survey Jan. 1985 - Dec. 1985
(linecutting to office)

Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

See Attached List
(prefix) (number)

SPECIAL PROVISIONS
CREDITS REQUESTED

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

ENTER 20 days for each
additional survey using
same grid.

	DAYS per claim
Geophysical	
-Electromagnetic	<u>40</u>
-Magnetometer	<u>20</u>
-Radiometric	_____
Gradient Mag	
-Other	<u>20</u>
Geological	<u>20</u>
Geochemical	_____

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

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

DATE: May 23, 1986 SIGNATURE: W. R. Troup
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 56

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

Gradient, Magnetometer Mag & Gradient Mag (9400 each)
VLF-2 Frequencies, Partial HEM VLF 4700 (each of 2 frequencies)
Number of Stations 4720.0 Number of Readings H.E.M. 700
Station interval 100 feet Line spacing 200
Profile scale VLF = 1" = 40%
Contour interval Magnetic Survey 100 Gammas

MAGNETIC

Instrument IGS-2 (Scintrex)
Accuracy - Scale constant 0.1 Gamma
Diurnal correction method usual diurnal & datum corrections
Base Station check-in interval (hours)
Base Station location and value An EDA - Omni 4 Base station was set up on the property at base line & L0 + 00

ELECTROMAGNETIC

Instrument Max Min 11
Coil configuration Horizontal loop
Coil separation 400' + 200' plus partial 600'
Accuracy + 1 degree
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency (specify V.L.F. station)
Parameters measured In phase & out of 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 VLF Survey

Instrument IGS - 2 from Scintrex

Accuracy + 1 degree

Parameters measured dip angle & field strength for both Cutler & Seattle

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 _____

TB 489588✓
489589✓
489590✓

817518✓
817519✓
817520✓
817521✓
817522✓
817523✓
817524✓
817525✓
817526✓
817527✓
817528✓
817529✓
817530✓

816070✓
816071✓
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816073✓
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816099✓
816100✓

828601✓ 828607✓
828602✓ 828608✓
828603✓ 828609✓
828604✓
828605✓
828606✓

September 26, 1986

Your File: 165
Our File: 2.9217

Mining Recorder
Ministry of Northern Development and Mines
435 James Street South
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Notice of Intent dated September 5, 1986
Geophysical (Electromagnetic, Magnetometer)
(VLF & Hem) and Geological Surveys on Mining
Claims TB 489588, et al, in the Nesting Lake
Area

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

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

Yours sincerely,

J.C. Smith, Supervisor
Mining Lands Section

Whitney Block, 6th Floor
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: Darius Gold Mine Inc
Suite 909
123 Front Street West
Toronto, Ontario
M5J 2M2
Attention: William R. Troup

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

Resident Geologist
Thunder Bay, Ontario

Encl.



Ontario

Recorded Holder
DARIUS GOLD MINE INC

Township or Area
NESTING LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer <u>40</u> days (including Linecutting) Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	TB 489588 to 590 inclusive 817518 to 530 inclusive 816070 to 079 inclusive 816081 to 094 inclusive 816096 to 100 inclusive 828601 to 609 inclusive

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

20 DAYS

TB 816080-95

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

NO GRADIENT MAGNETOMETER CREDITS ALLOWED AS THIS WAS NOT A SEPARATE SURVEY,
ONLY A RECALCULATION OF READINGS.

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ontario

Ministry of Northern Development and Mines

Technical Assessment Work Credits

File 2,9217

Date September 5, 1986 Mining Recorder's Report of Work No. 165

Recorded Holder: DARIUS GOLD MINE INC
Township or Area: NESTING LAKE AREA

Table with 2 columns: Type of survey and number of Assessment days credit per claim; Mining Claims Assessed. Includes rows for Geophysical, Geological (20 days), and Geochemical surveys.

Special credits under section 77 (16) for the following mining claims. Table listing 5 DAYS and 10 DAYS credits for specific claim numbers.

No credits have been allowed for the following mining claims. Includes checkboxes for 'not sufficiently covered by the survey' and 'insufficient technical data filed'.

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder
DARIUS GOLD MINE INC

Township or Area
NESTING LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical VLF Electromagnetic <u>20</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	TB 489588 to 590 inclusive 817518 to 528 inclusive 817530 816070 to 079 inclusive 816081-82 816084 to 094 inclusive 816096 to 100 inclusive 828601 to 609 inclusive

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

10 DAYS

TB 817529
816080-83-95

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder
DARIUS GOLD MINE INC

Township or Area
NESTING LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical HEM Electromagnetic <u>14</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	TB 489588 817518 to 524 inclusive 817528 816079 828602 to 609 inclusive

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

TB 489589-90
 817525 to 527 inclusive
 817529-30
 816070 to 078 inclusive
 816080 to 100 inclusive
 828601

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

Type of Survey(s) Geophysics - Mag, Gradient Mag, VLF, Geology			Township or Area Hunting Lake Area B-342		
Claim Holder(s) Darius Gold Mine Inc.			Prospector's Licence No. T-1217		
Address 123 Front Street West, Suite 909, Toronto, Ontario M5J 2M2					
Survey Company Northwest Geophysics			Date of Survey (from & to)		Total Miles of line Cut
			8	1	85
			Day	Mo.	Yr.
			31	12	85
			Day	Mo.	Yr.
					77
Name and Address of Author (of Geo-Technical report) William R. Troup - Darius					

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)		
Special Provisions	Geophysical		Mining Claim		Expend. Days Cr.
	Days per Claim		Prefix	Number	
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40	See Attached List		
	VLF, H.E.M.				
	- Magnetometer	20			
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric				
	Gradient Mag				
	- Other	20			
	Geological	20			
	Geochemical				
Man Days Complete reverse side and enter total(s) here	Geophysical		Mining Claim		Expend. Days Cr.
	Days per Claim		Prefix	Number	
			See Attached List		
	- Electromagnetic				
	- Magnetometer				
	- Radiometric				
	- Other				
	Geological				
	Geochemical				
Airborne Credits	Geophysical		Mining Claim		Expend. Days Cr.
Note: Special provisions credits do not apply to Airborne Surveys.	Days per Claim		Prefix	Number	
			See Attached List		
	Electromagnetic				
	Magnetometer				
	Radiometric				

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JUL 07 1986
MINING LANDS SECTION

Total number of mining claims covered by this report of work. 56

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 4193.8 Date Recorded June 27/86 Mining Recorder Audrey M. Harper

Date Approved as Recorded Branch Director

See Revised Statement

Date May 23, 1986

Recorded Holder or Agent (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
William R. Troup Darius Mine Inc.
123 Front St., W., #909, Toronto, Ontario

Date Certified June 19/86

Certifying by (Signature)

TE 9588 X
9589 X
489590 X

817518 36.7
817519 36.7
817520 ✓
817521 ✓
817522 ✓
817523 36.7
817524 X
817525 36.7
817526 X
817527 X
817528 ✓
817529 ✓
817530 X

816070 ✓
816071 ✓
816072 ✓
816073 ✓
816074 36.7
816075 ✓
816076 ✓

816077 ✓
816078 36.7
816079 36.7
816080 ✓
816081 ✓
816082 X
816083 X
816084 36.7
816085 ✓
816086 ✓
816087 36.7
816088 X
816089 ✓
816090 ✓
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816092 ✓
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816094 ✓
816095 ✓
816096 36.7
816097 36.7
816098 ✓
816099 ✓
816100 ✓

828601 36.7 828607 ✓
828602 36.7 828608 ✓
828603 36.7 828609 ✓
828604 ✓
828605 ✓
828606 ✓

THUNDER BAY
MINING DIVISION
RECEIVED

JUN 27 1986

AM PM
7|8|9|10|11|12|1|2|3|4|5|6



**GEO PHYSICAL - 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) Geophysics (Mag, Gradient Mag, VLF,)
 Township or Area _____
 Claim Holder(s) ~~Gold Fields Canadian Mining Ltd.~~
Darius Gold Mine Inc.
 Survey Company Northwest Geophysics
 Author of Report W. R. Troup
 Address of Author 123 Front Street West, #909, Toronto Ontario
 Covering Dates of Survey Jan. 1985 - Dec. 1985
 (linecutting to office)
 Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

See Attached List
(prefix) (number)

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

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
 Magnetometer _____ Electromagnetic _____ Radiometric _____
 (enter days per claim)
 DATE: May 23, 1986 SIGNATURE: *W. R. Troup*
 Author of Report or Agent

Res. Geol. _____ Qualifications 2 1844

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 56

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

Gradient, Magnetometer Mag & Gradient Mag (9400 each)
VLF-2 Frequencies, Partial HEM VLF 4700 (each of 2 frequencies)
Number of Stations 4720.0 Number of Readings H.E.M. 700
Stat interval 100 feet Line spacing 200
Profile scale VLF = 1" = 40%
Contour interval Magnetic Survey 100 Gammas

MAGNETIC

Instrument IGS-2 (Scintrex)
Accuracy - Scale constant 0.1 Gamma
Diurnal correction method usual diurnal & datum corrections
Base Station check-in interval (hours) _____
Base Station location and value An EDA - Omni 4 Base station was set up on the property at base line & L0 + 00

ELECTROMAGNETIC

Instrument Max Min 11
Coil configuration Horizontal loop
Coil separation 400' + 200' plus partial 600'
Accuracy + 1 degree
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____ (specify V.L.F. station)
Parameters measured In phase & out of phase

GRAVITY

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

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 VLF Survey

Instrument IGS - 2 from Scintrex

Accuracy + 1 degree

Parameters measured dip angle & field strength for both Cutler & Seattle

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 _____

TB 489588

489589

489590

817518

817519

817520

817521

817522

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828601 828607

828602 828608

828603 828609

828604

828605

828606

Type of Survey(s) **Geophysics - Mag, Gradient Mag, VLF, Geology**

Case Holder(s) **Darius Gold Mine Inc.**

Prospector's Licence No. **T-1217**

Address **123 Front Street West, Suite 909, Toronto, Ontario M5J 2M2**

Survey Company **Northwest Geophysics**

Date of Survey (from & to) **8 1 85 to 31 12 85**
Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line Cut **77**

Name and Address of Author (of Geo-Technical report)
William R. Troup - Darius

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

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ 15 = 5600

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. **56**

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

Date **May 23, 1986**

Recorded Holder of Agent (Signature) *William R. Troup*

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 **William R. Troup Darius Mine Inc.**

123 Front St., W., #909, Toronto, Ontario

Date Certified **June 19/86**

Certified by (Signature) *William R. Troup*

1262 (01-01)

drilling core, number and grades of _____

Land Survey Name and address of Ontario land surveyer.

NIL

TB 489588
489589
489590

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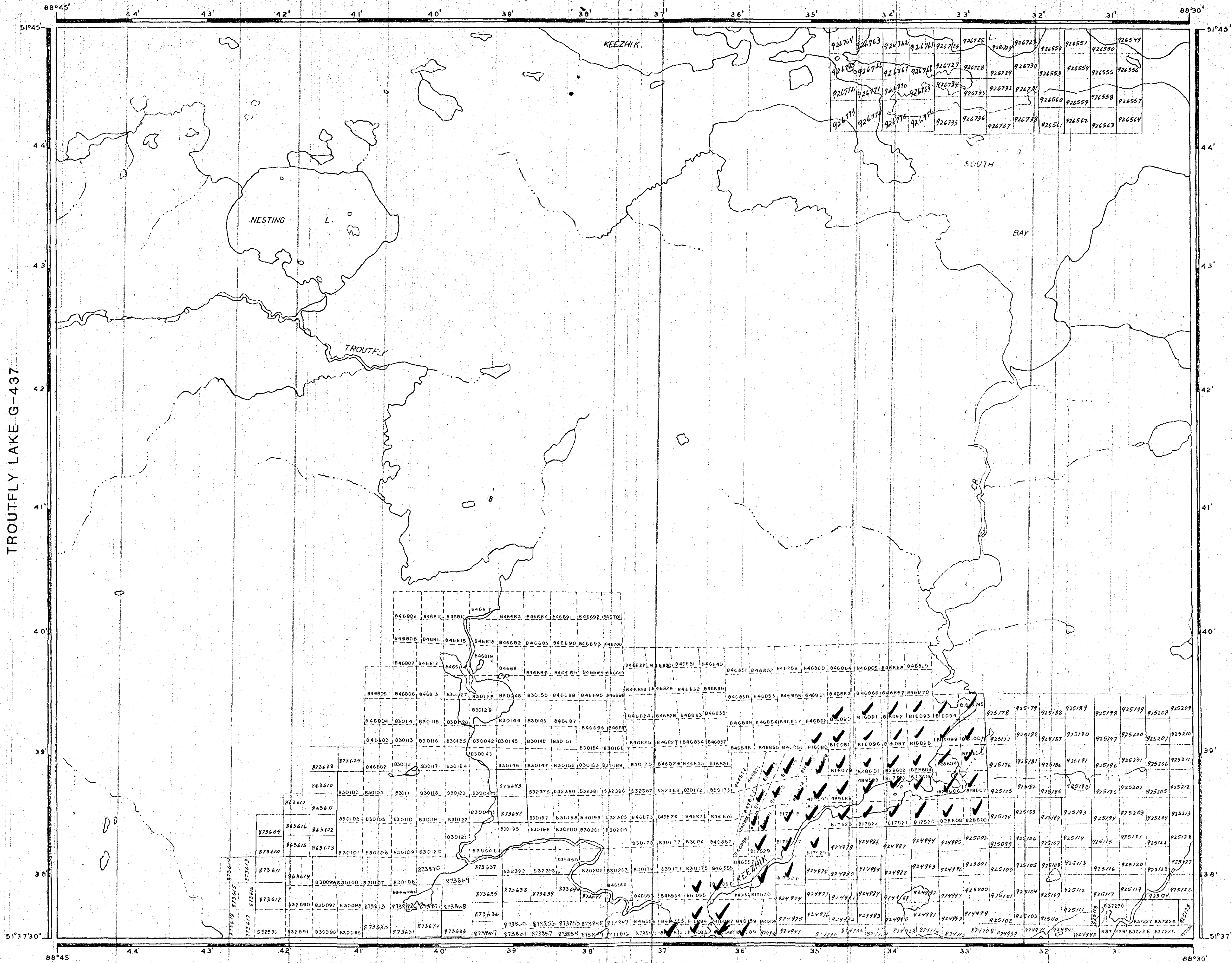
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828602 828608
828603 828609
828604
828605
828606

drilling XX	core, number and angles of holes.		
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

NORTH BAY (KEEZHIK LAKE) G-347



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. 380 S.C. 63, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS

RECEIVED
JUL 6 1986

METRE: 0 1000 2000 4000 6000

AREA
NESTING LAKE

M.N.R. ADMINISTRATIVE DISTRICT
GERALDTON

MINING DIVISION
THUNDER BAY

LAND TITLES / REGISTRY DIVISION
KENORA/PATRICIA

Ministry of Natural Resources
Ontario

Land Management Branch

Date: **JULY 1986**

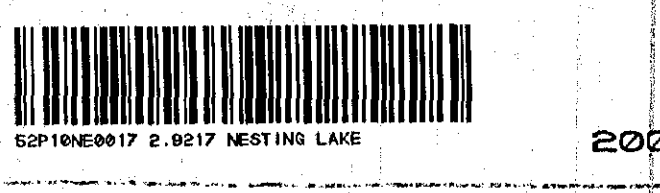
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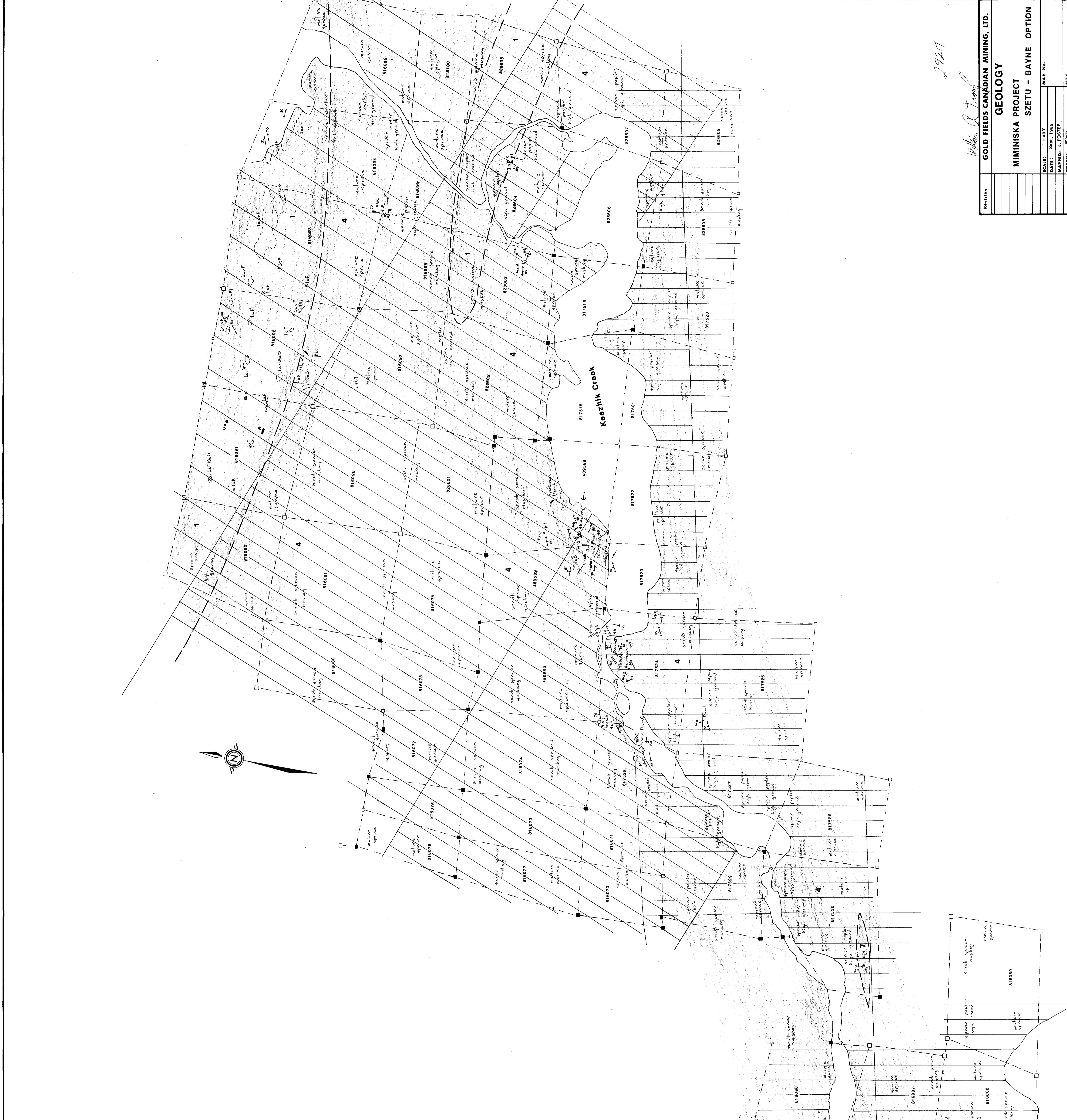
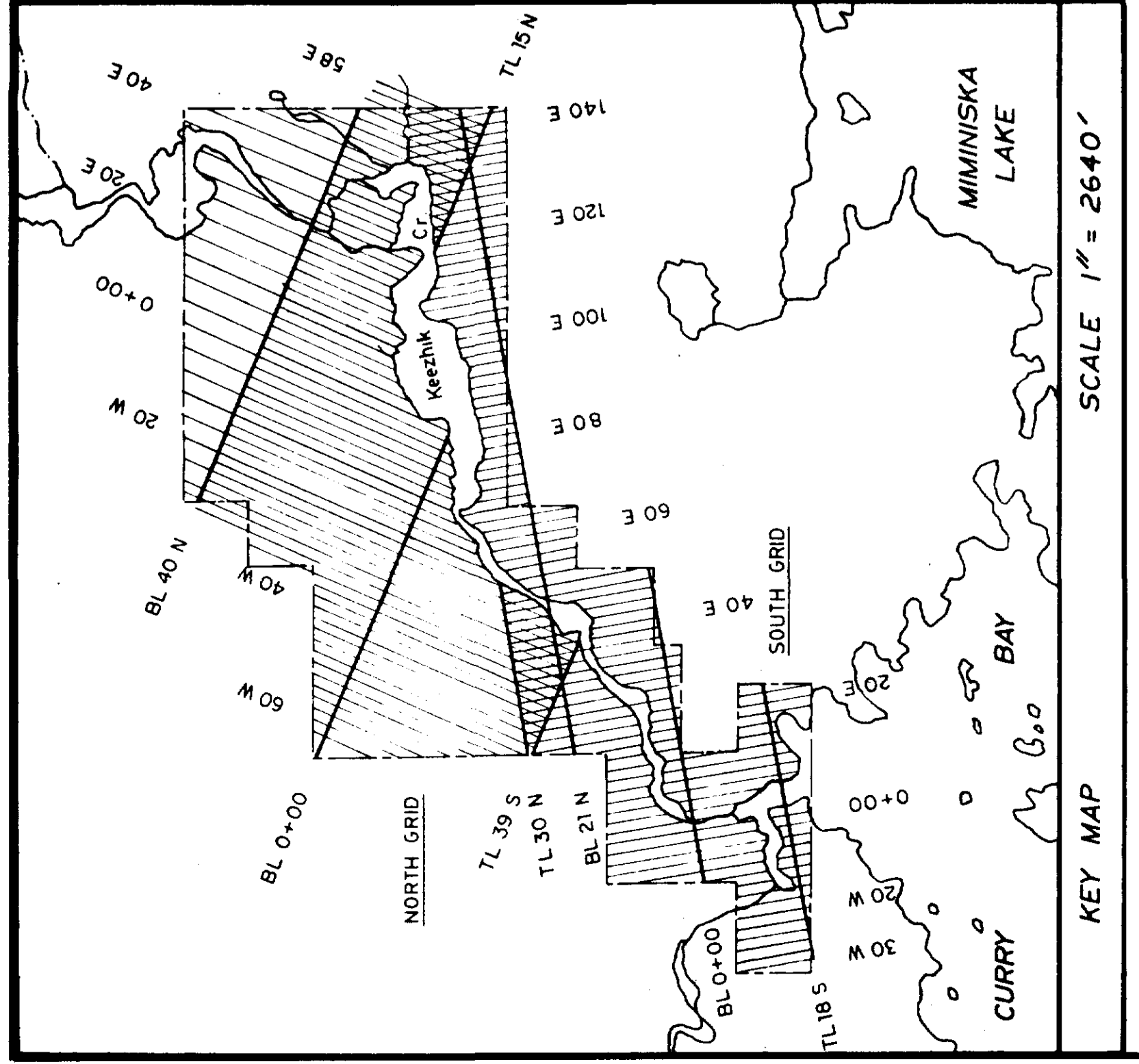
G-345

G-345

G-345

G-345





LEGEND

MAFIC METAVOLCANICS (<5% SiO₂, CI:CB)

- a. Massive flow(s) < 1km
- b. Pillowed
- c. Pillow breccia / flow breccia
- d. Carbonatized
- e. Varfolitic
- f. Magnetite
- g. High-iron tholeiitic

CLASTIC METASANDSTONY ROCKS

- a. Argillite, argillaceous waste
- b. Greywacke, lithic arenite
- c. Arkosic wacke, arkosic arenite
- d. Orthoconglomerate
- e. Polystratic
- f. Carbonatized
- g. Silticized (weakly to moderately)
- h. Silticified
- i. Granule microconglomerate
- j. Thinly bedded 1-10cm
- k. Medium bedded 10-100cm

FELSIC TO INTERMEDIATE METAMORPHOSSED INTRUSIVES

- 1. Intermediate intrusive (i.e. granodiorite, trondhjemite) 5-30% mafics

MAFIC INTRUSIVE ROCKS (NOT METAMORPHOSSED)

- 8a. Gabbro
- 8b. Diabase

GLACIAL STRIAE

- Small Outcrop
- Area of Outcrop
- Bedding, top unknown (inclined, vertical)
- Bedding, top known (inclined, vertical, overturned)

STRUCTURAL FEATURES

- Pillows
- Schistosity
- Foliation
- Lineation
- Drag Fold
- Pit, Trench

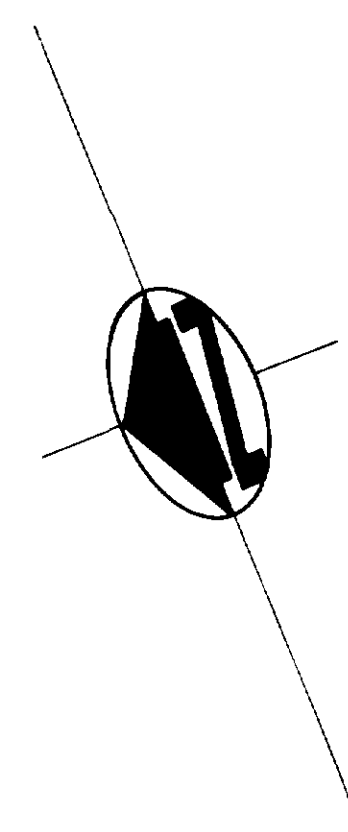
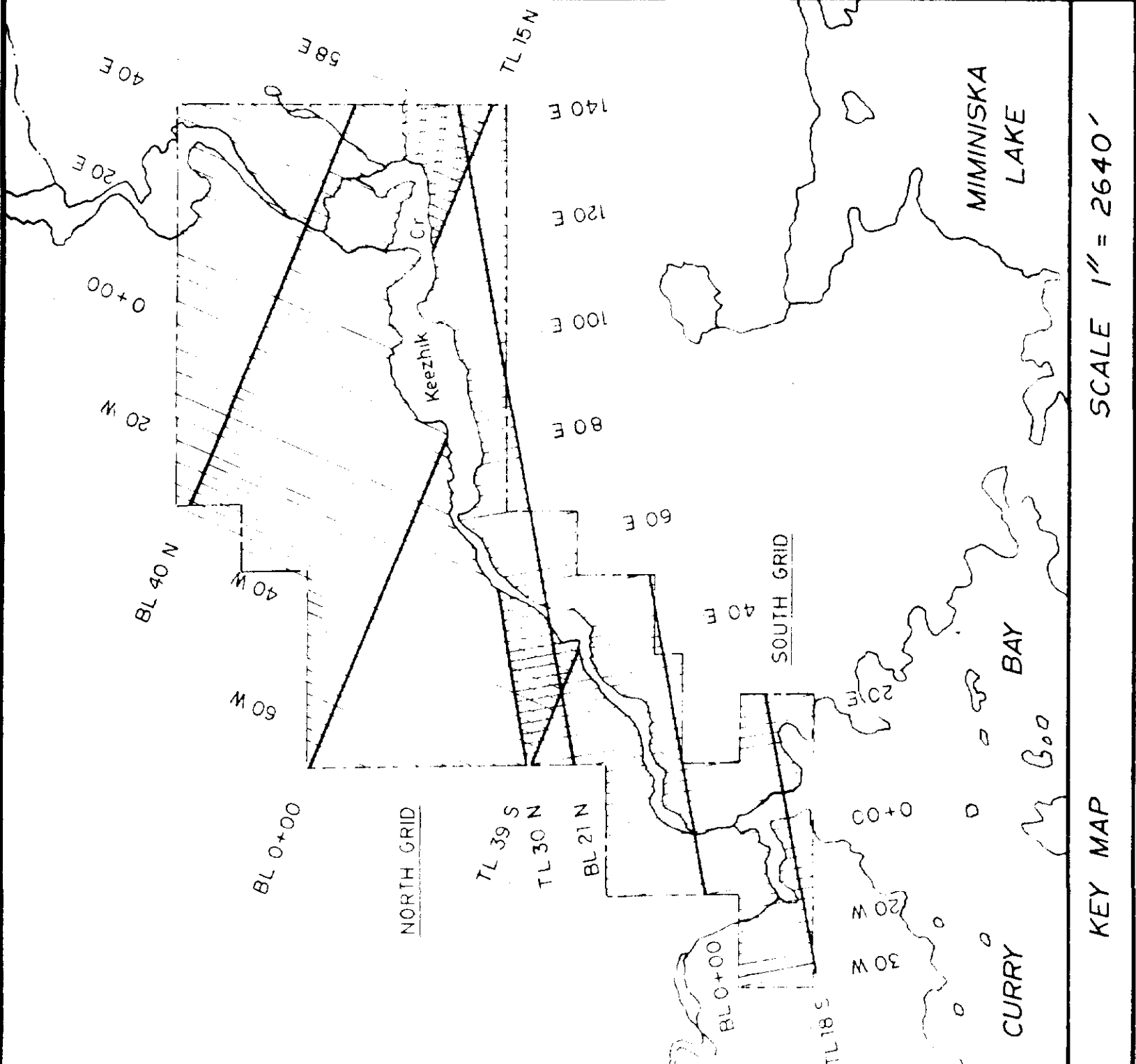
BOUNDARIES AND CONTACTS

- Geological Contact (intercepted)
- Claim Post, Line
- Quartz

2927

William R. Taylor

GOLD FIELDS CANADIAN MINING, LTD.	
GEOLOGY	
MIMINISKA PROJECT SZETU - BAYNE OPTION	
SCALE: 1" = 100'	MAP No.
DATE: Sep. 1988	
MAPPER: J. FOSTER	
DRAWN: J.F.M.F.	



SURVEY NOTES
 INSTRUMENT - EDA PPM SERIES MAG
 DATUM - 59,000 GAMMAS

- TOPOGRAPHY**
- Clim Post (Located, Assumed)
 - Clear Line
 - Swamp
 - CUT
 - OC Outcrop

9217

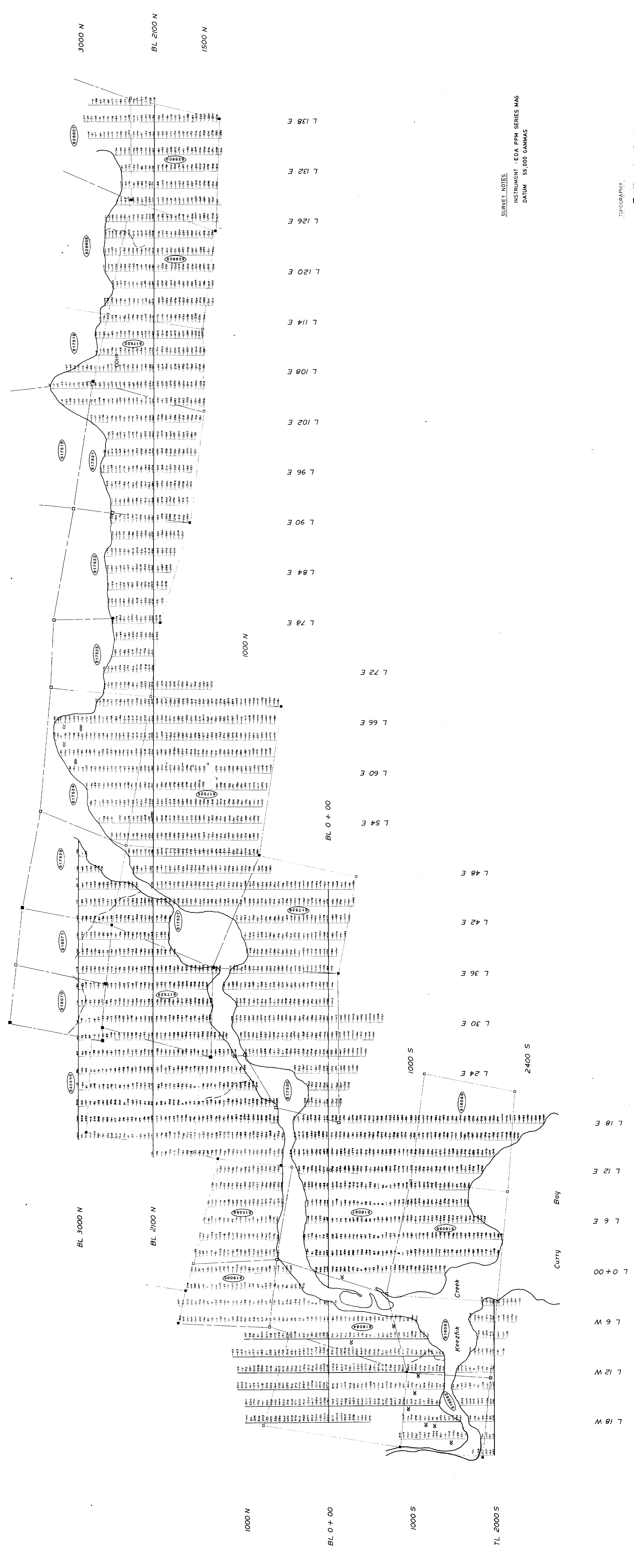
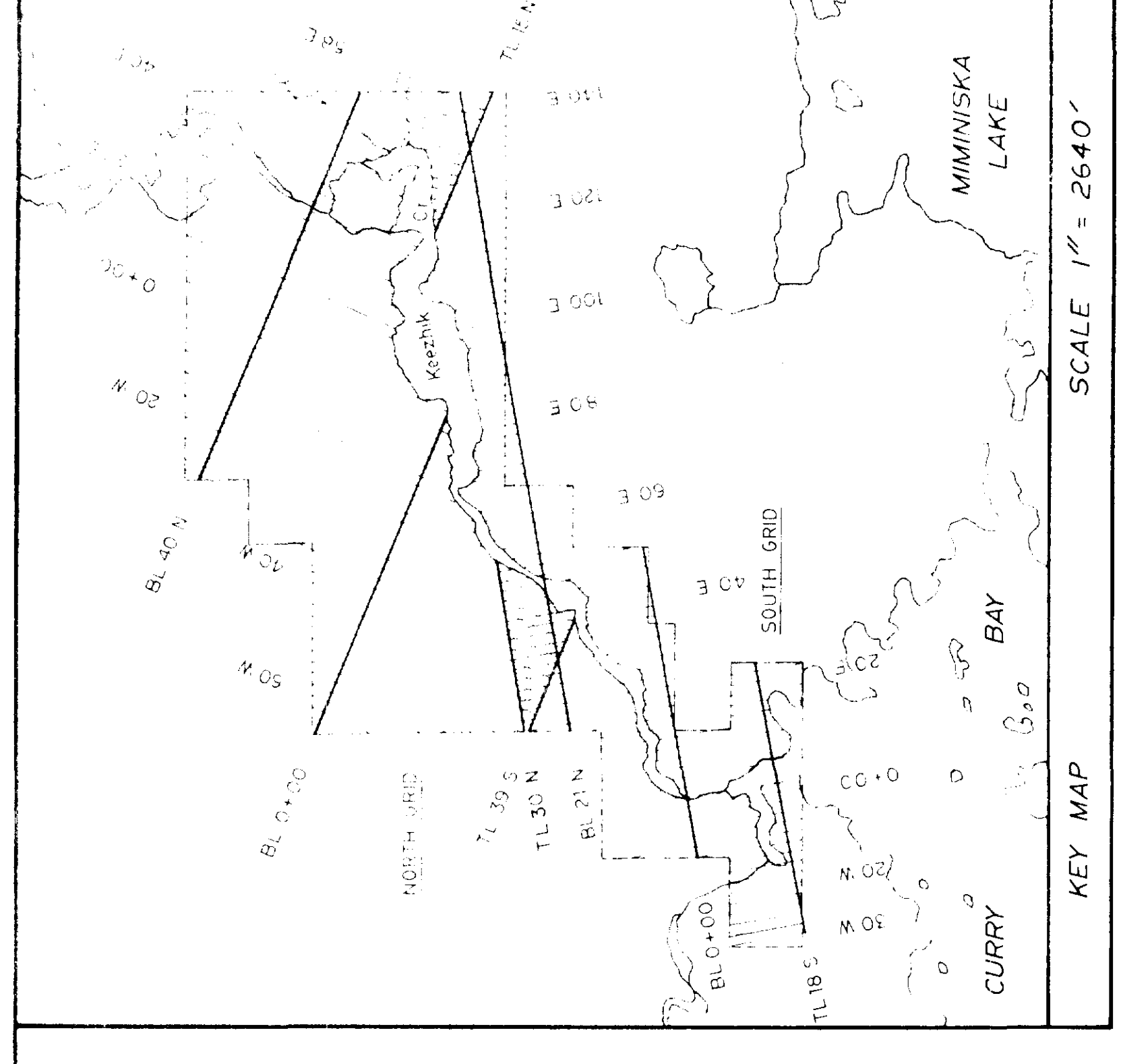
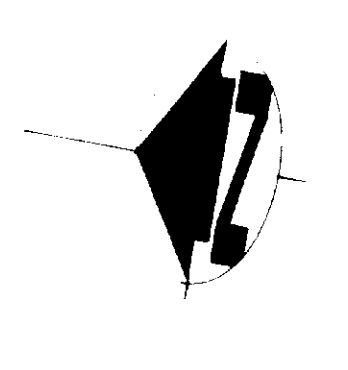
NORTHWEST GEOPHYSICS LTD.
 THUNDER BAY, ONT

NORTH GRID
 MAGNETOMETER SURVEY

GOLD FIELDS CANADIAN MINING LTD.
 MIMINISKA PROJECT

SCALE - 1 IN. = 400 FT. DATE - SEPT. 1985. DRAWN BY - J.P.M. *J.P.M.*





SURVEY NOTES
INSTRUMENT - EDA PPM SERIES MAG
DATUM 59,000 GAMMAS

- SYMBOLS
- Claim Post (Leased, Adjacent)
 - Claim Line
 - Swamp
 - Gull
 - Gully
 - Trench

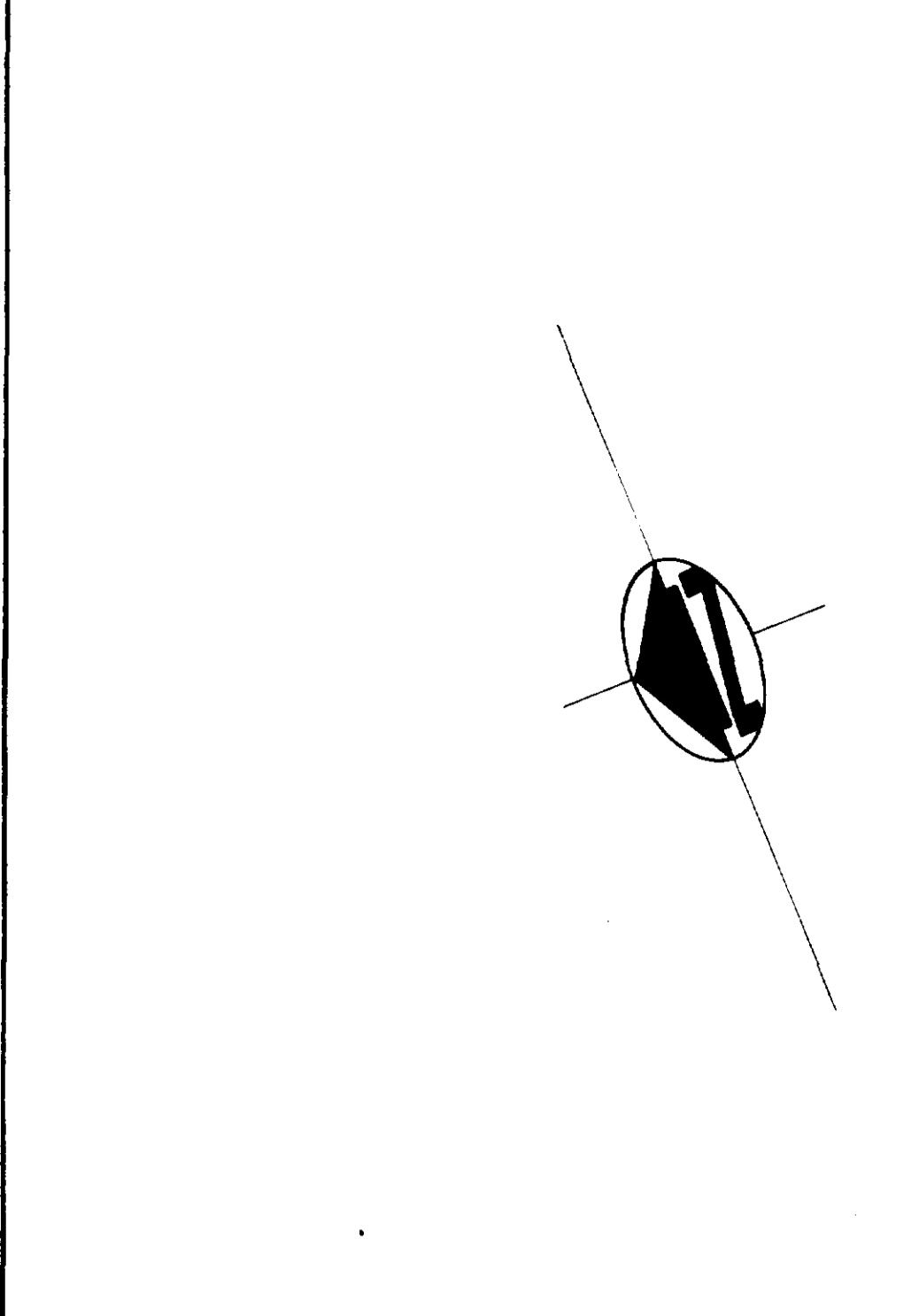
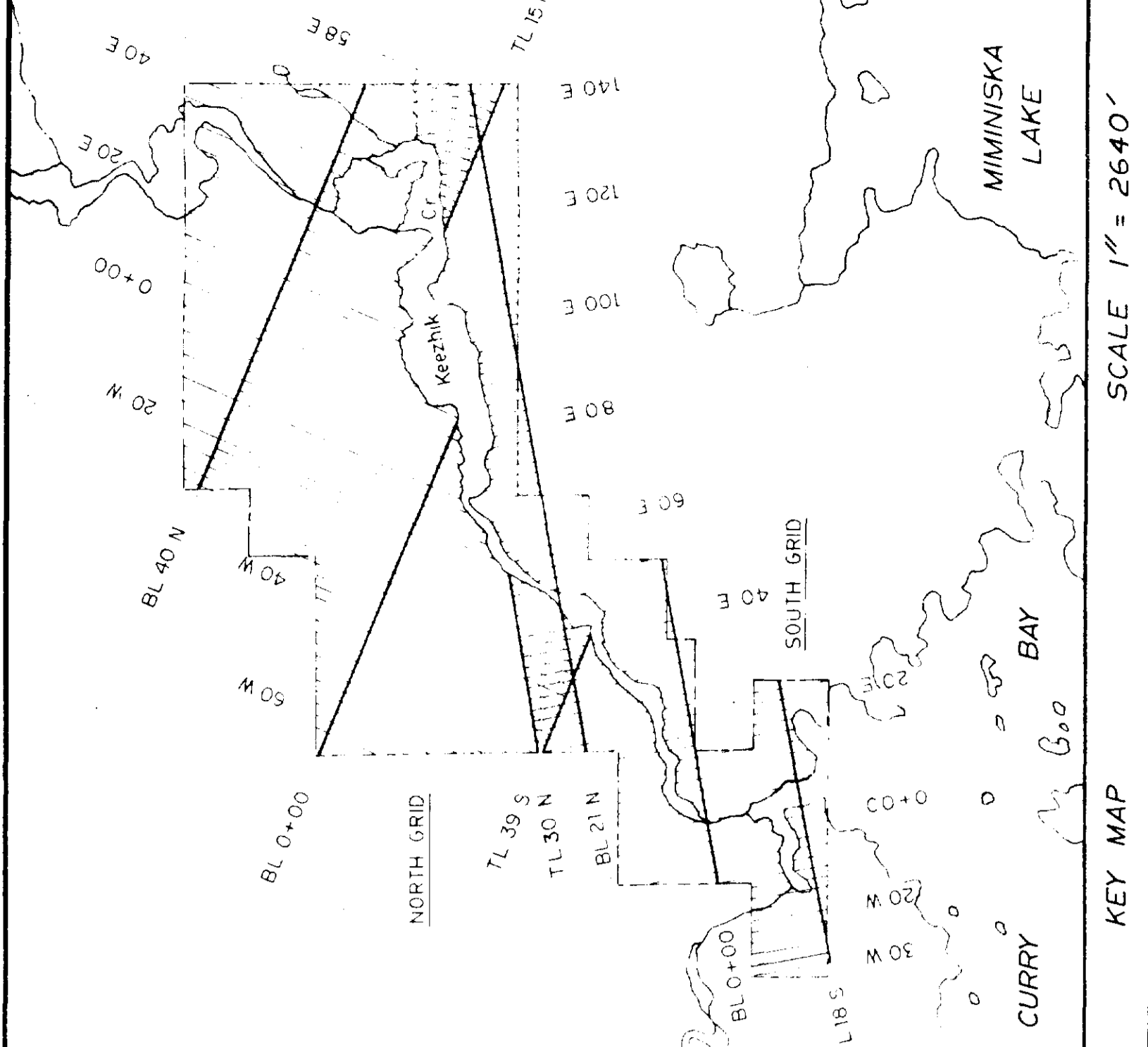
29217

NORTHWEST GEOPHYSICS LTD
"HUNTER BAY" INC.

SOUTH GRID
MAGNETOMETER SURVEY

GOLD FIELDS CANADIAN MINING LTD
MIMINISKA PROJECT

SCALE - 1 IN = 400 FT DATE - SEPT. 1985 DRAWN BY - J.P.N. *J.P.N.*

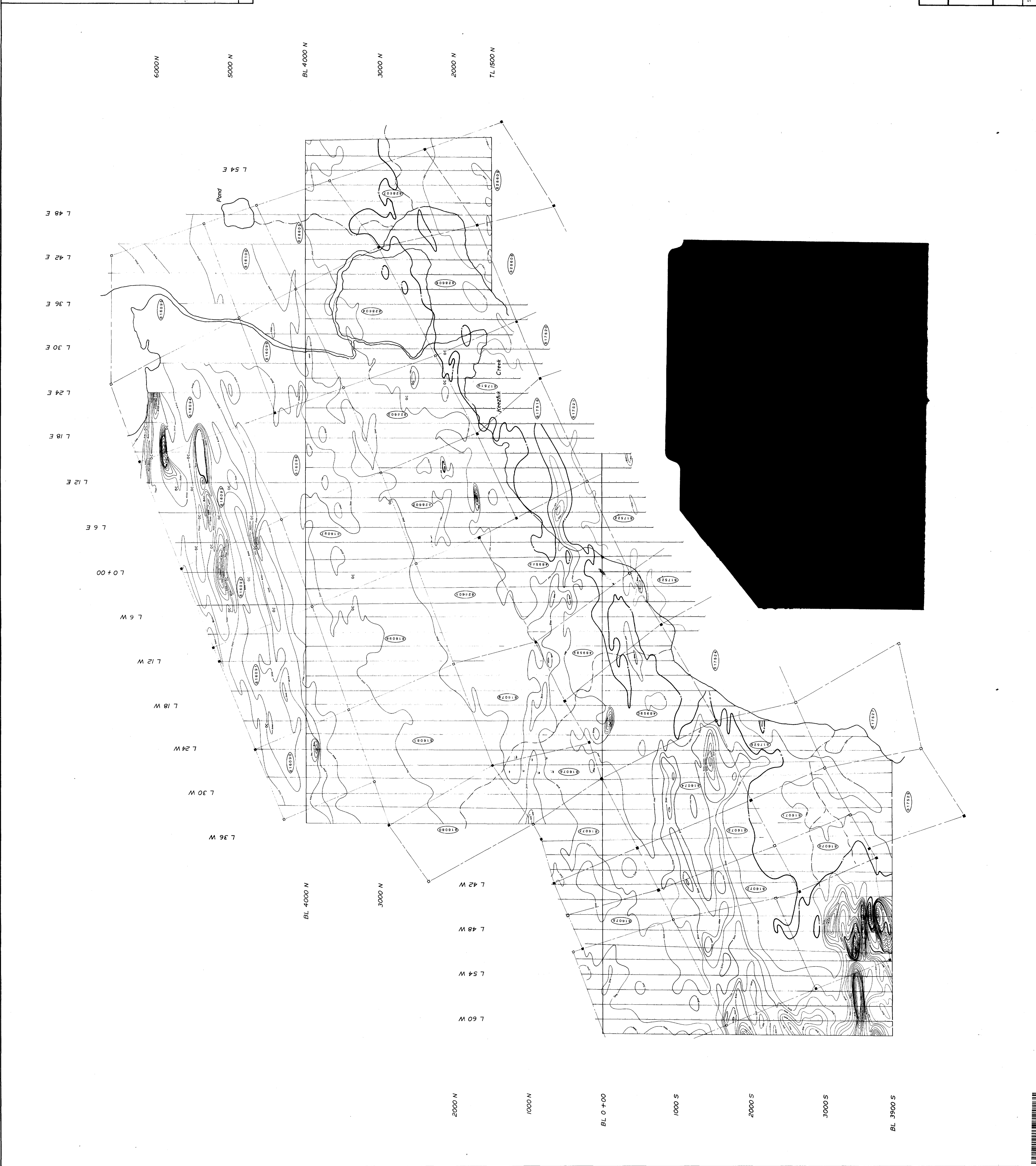


SURVEY NOTES
 INSTRUMENT - EDA PPM SERIES MAG
 CONTOUR INTERVAL - 5' TO 100' GRADUAS
 ALL OTHERS - 300 GRADUAS

TOPOGRAPHY
 Clam Post (Levelling Assumed)
 Clam Line
 Swamp
 Cliff
 O.C.
 Outcrop

SCALE 1" = 2640'

2,9217

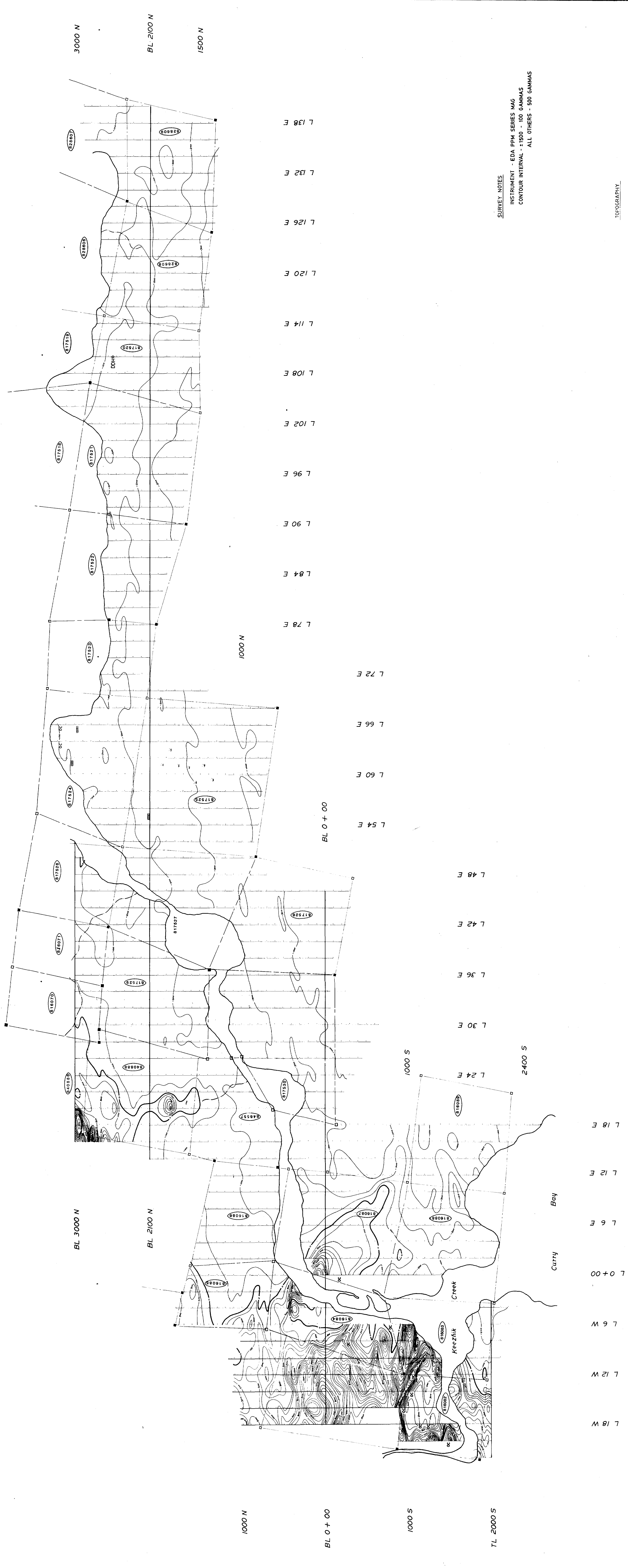
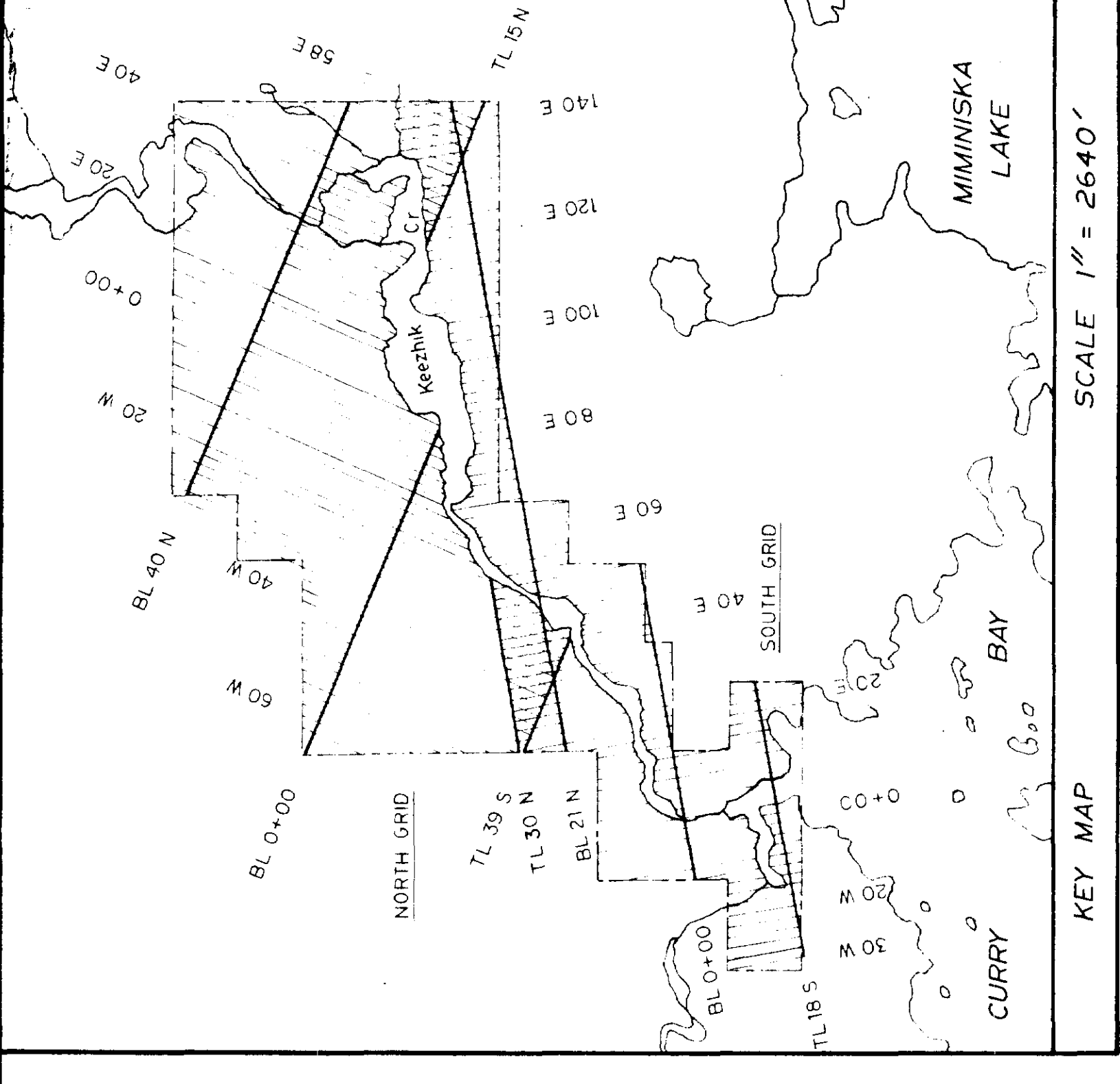


NORTHWEST GEOPHYSICS LTD
 THUNDER BAY, ONT

NORTH GRID
MAGNETOMETER SURVEY
CONTOURED

GOLD FIELDS CANADIAN MINING LTD
 MIMINISKA PROJECT

SCALE - 1 IN = 400 FT DATE - SEPT., 1985. DRAWN BY - J.P.H. *J.P.H.*



SURVEY NOTES
INSTRUMENT - EDA PPM SERIES MAG
CONTOUR INTERVAL - 1500 - 100 GAMMAS
ALL OTHERS - 500 GAMMAS

TOPOGRAPHY:
 Claim Post (Located, Assumed)
 Claim Line
 Swamp
 CHIT
 OC
 Trench

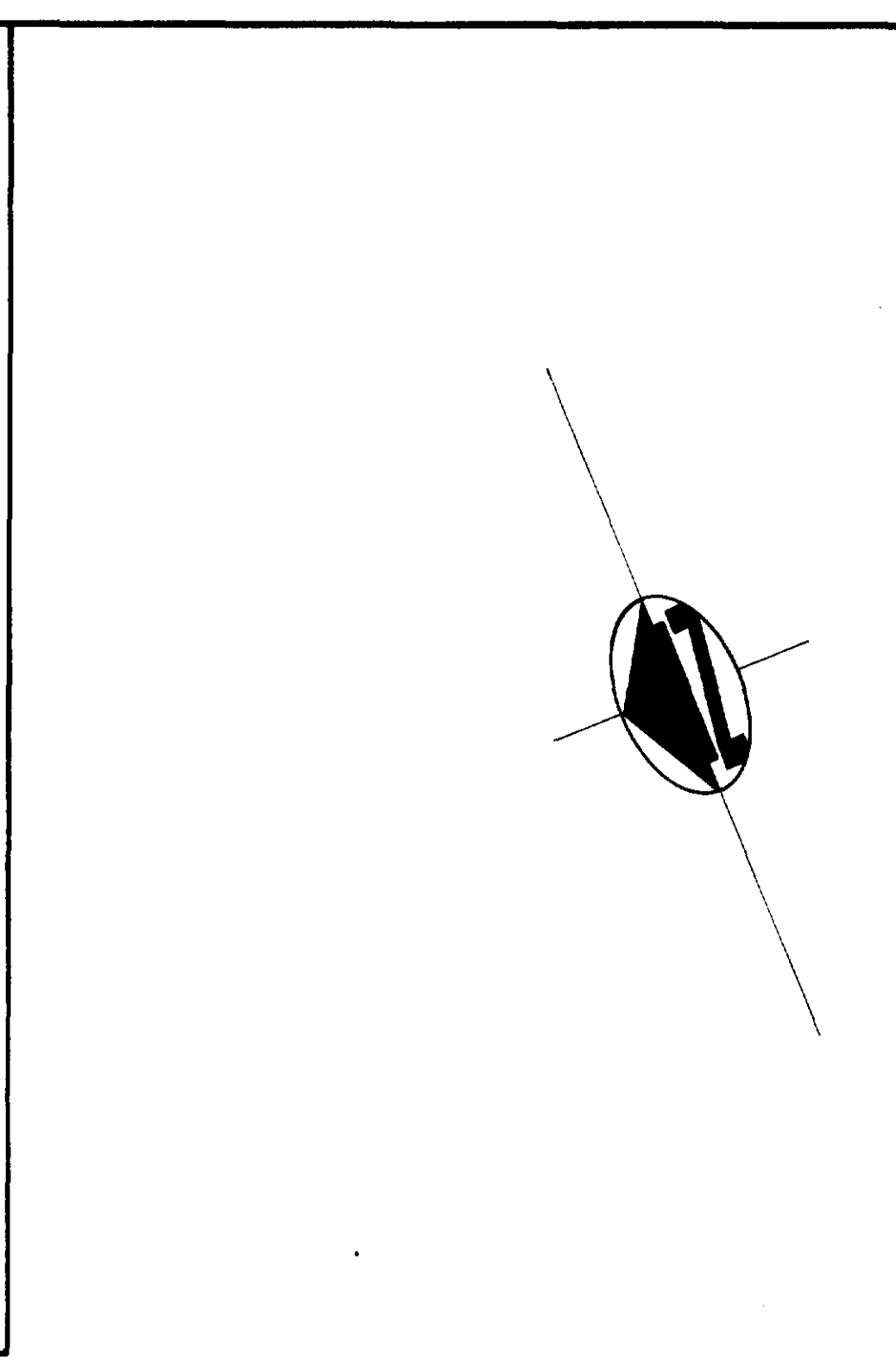
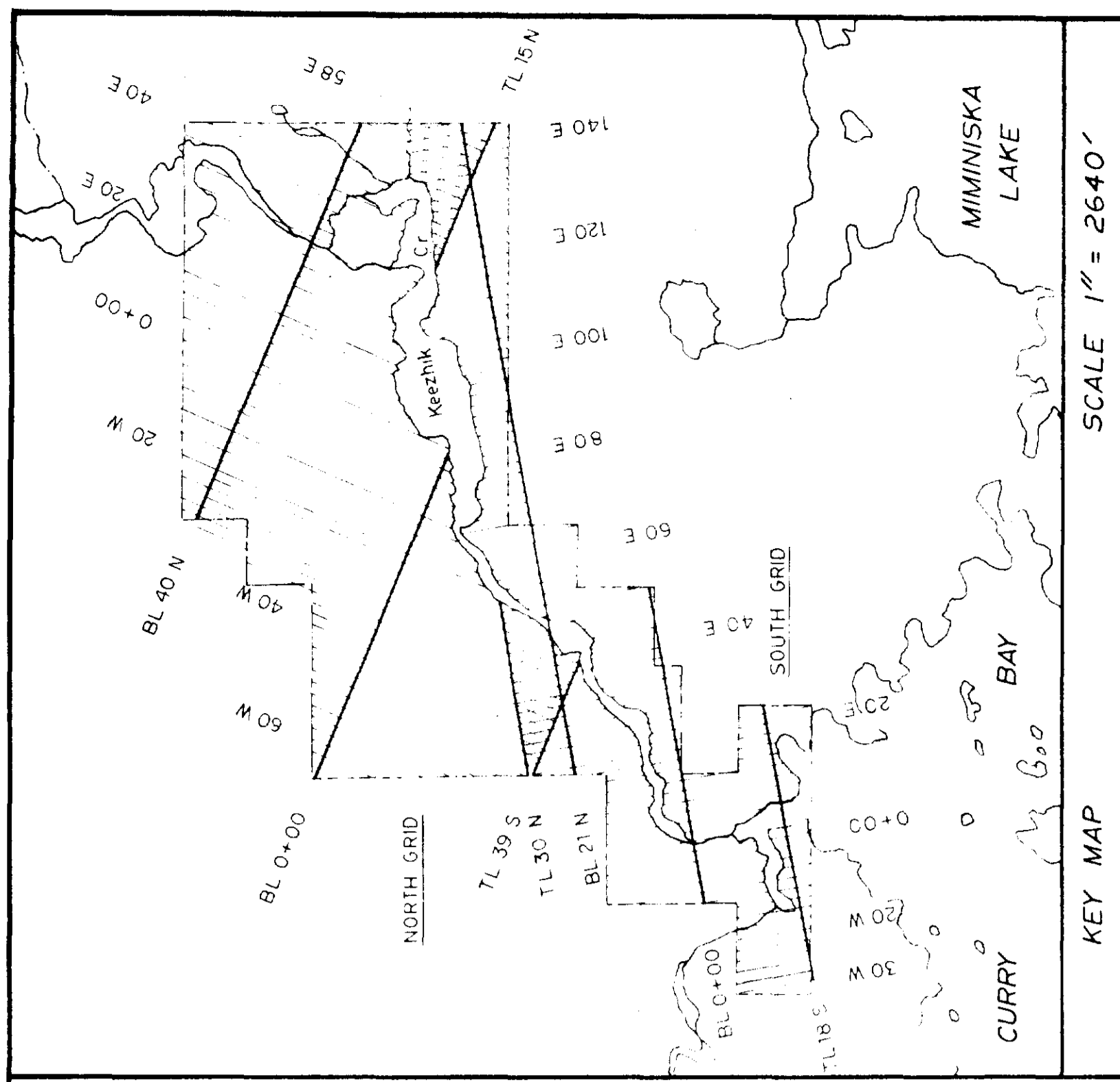
29217

NORTHWEST GEOPHYSICS LTD
THUNDER BAY, ONT

SOUTH GRID
MAGNETOMETER SURVEY
CONTOURED

GOLD FIELDS CANADIAN MINING LTD.
MIMINISKA PROJECT

SCALE - 1 IN. = 400 FT. DATE - SEPT. 1985. DRAWN BY - J.P.M.



SURVEY NOTES
 INSTRUMENT - EDA PPM SERIES MAG
 PROFILE SCALE - 1 IN. = 200 GAMMAS

- TOPOGRAPHY**
- Cont. Post (Located - Assumed)
 - Clear Line
 - ~ Swamp
 - Cliff
 - OC Outcrop

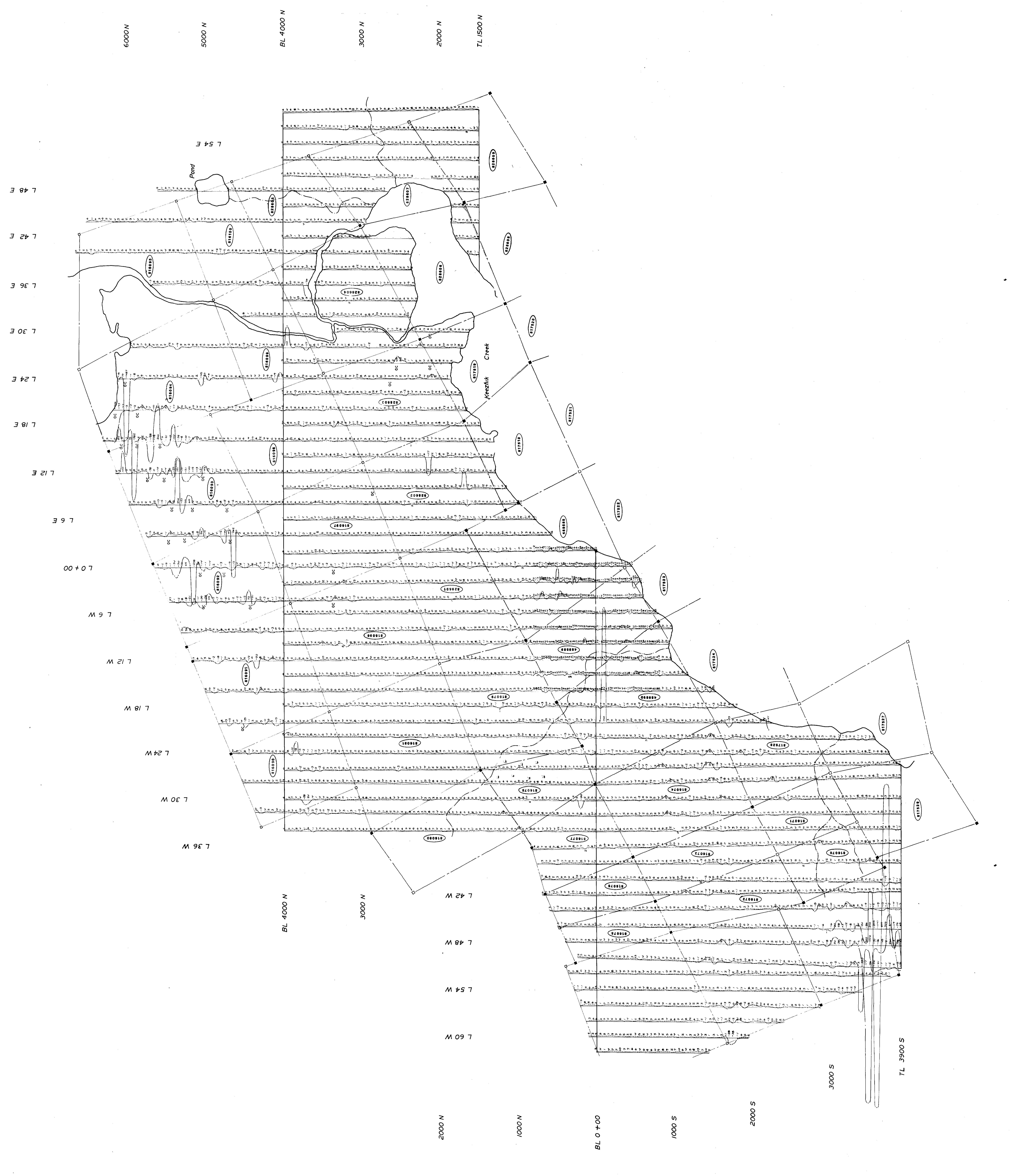
2 9217

NORTHWEST GEOPHYSICS LTD
 THUNDER BAY, ONT

NORTH GRID
 GRADIOMETER SURVEY

GOLD FIELDS CANADIAN MINING LTD.
 MIMINISKA PROJECT

SCALE - 1 IN. = 400 FT DATE - SEPT., 1985. DRAWN BY - J.P.M.



Problem Page

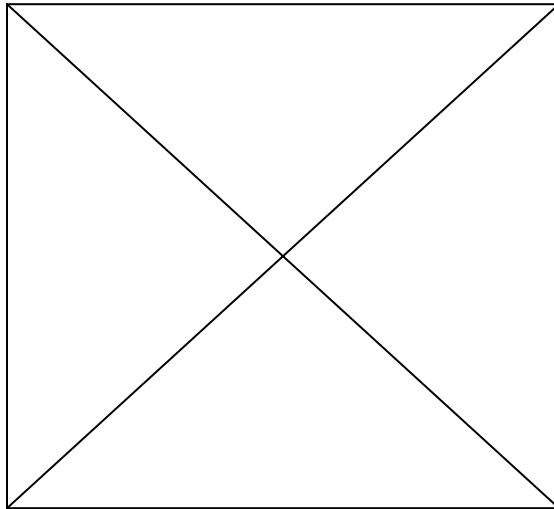
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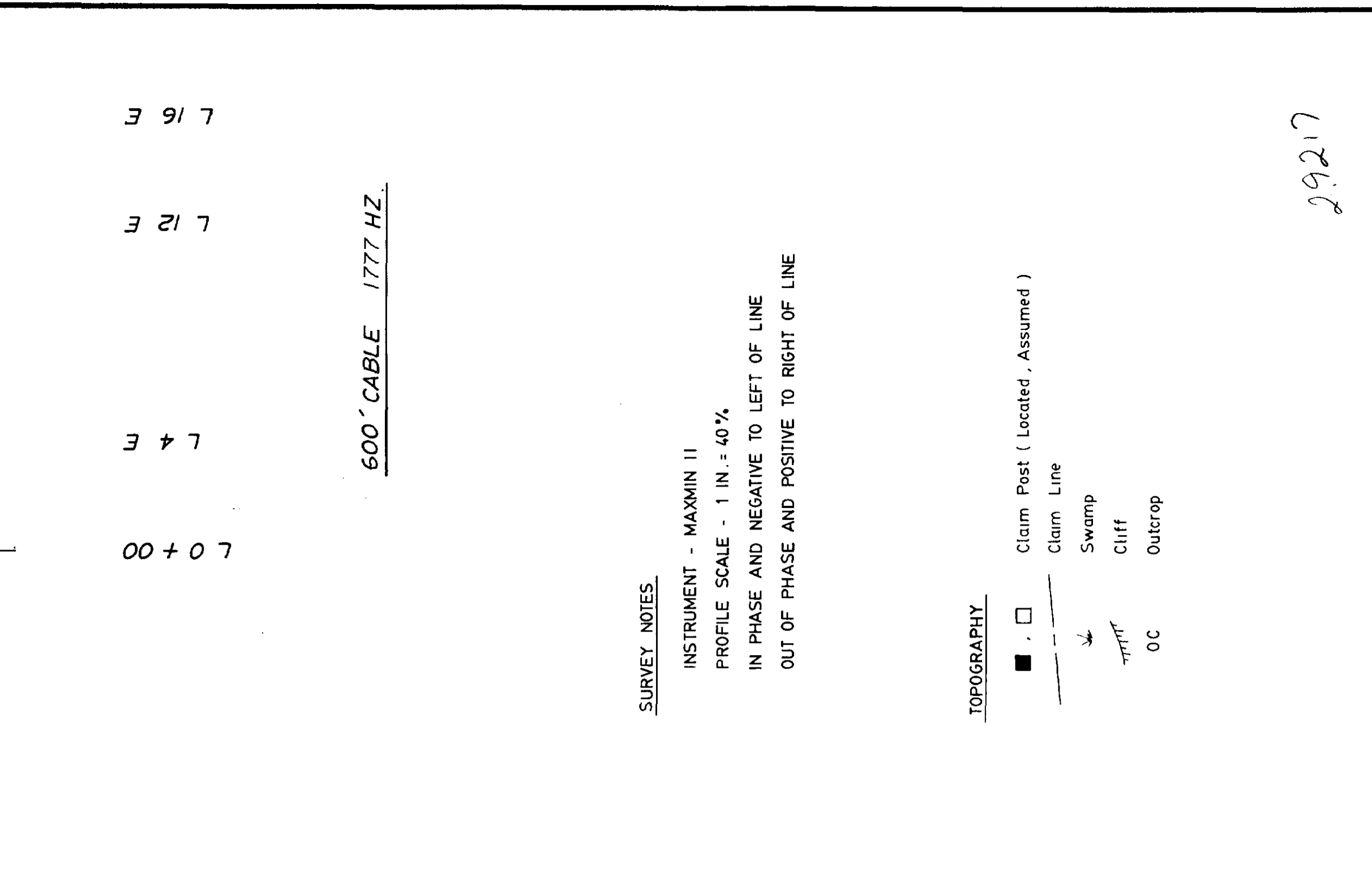
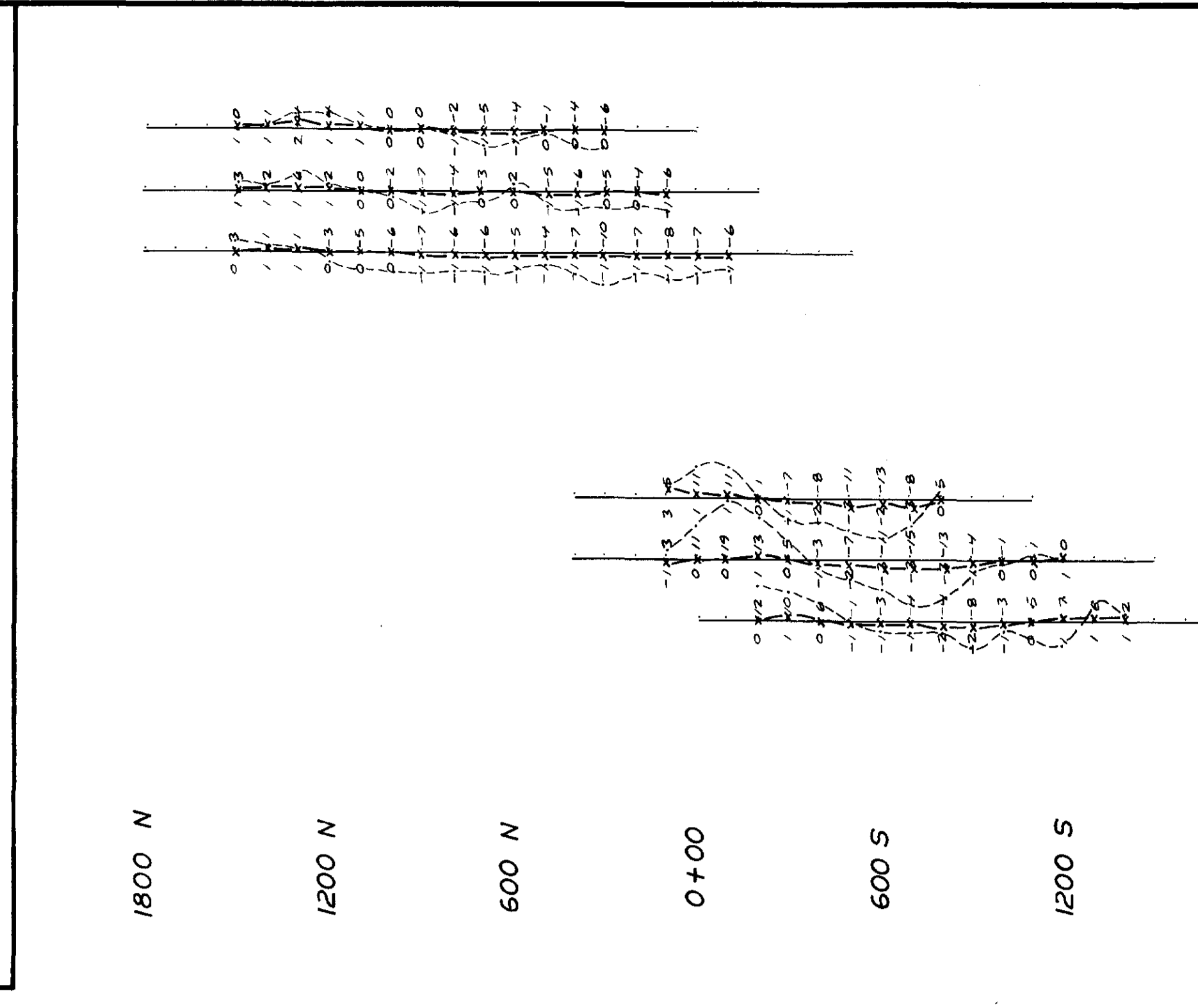
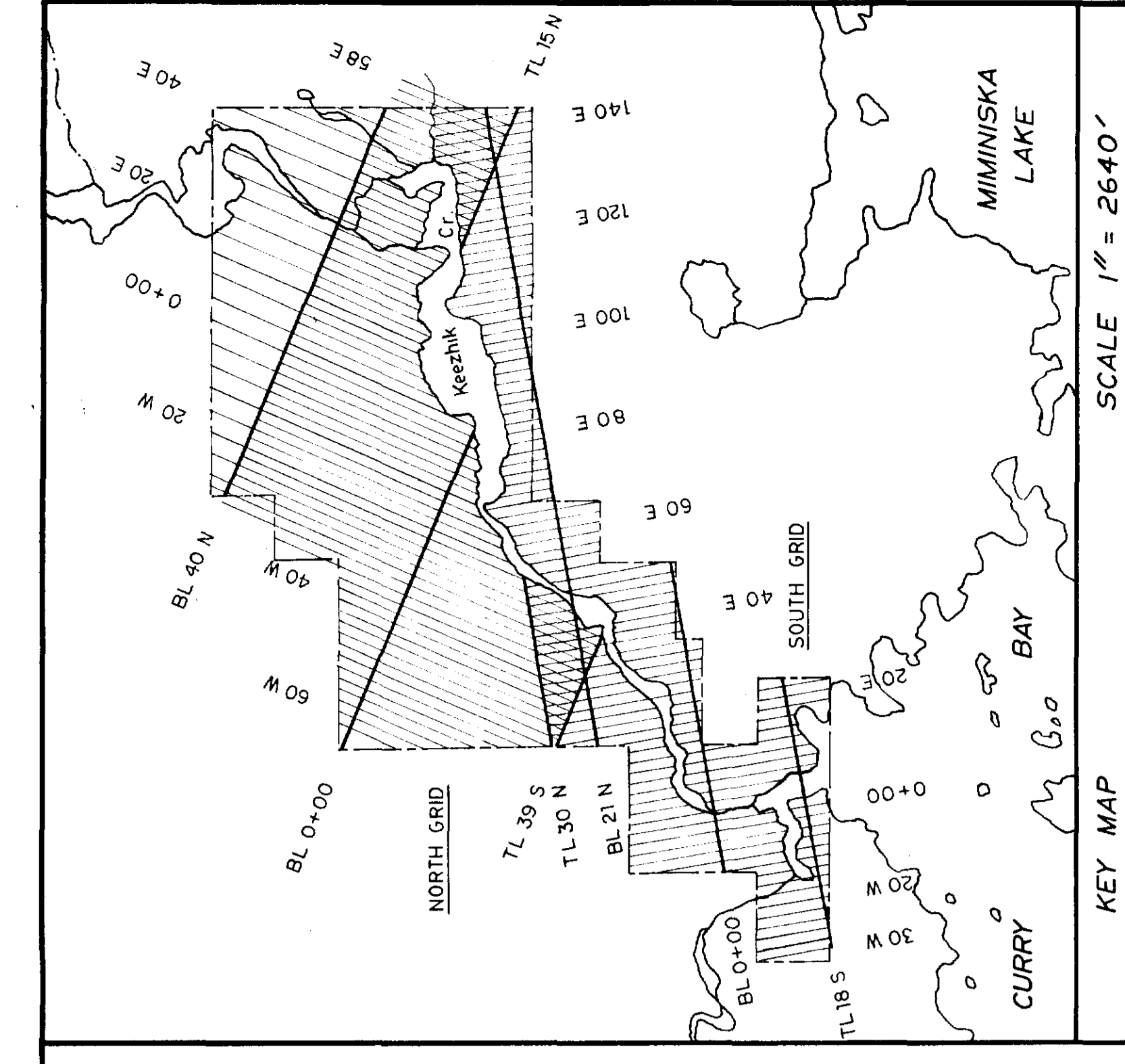
We apologize for the inconvenience.

Problème de conversion de page

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Nous regrettons tout inconvénient occasionné par ce problème.



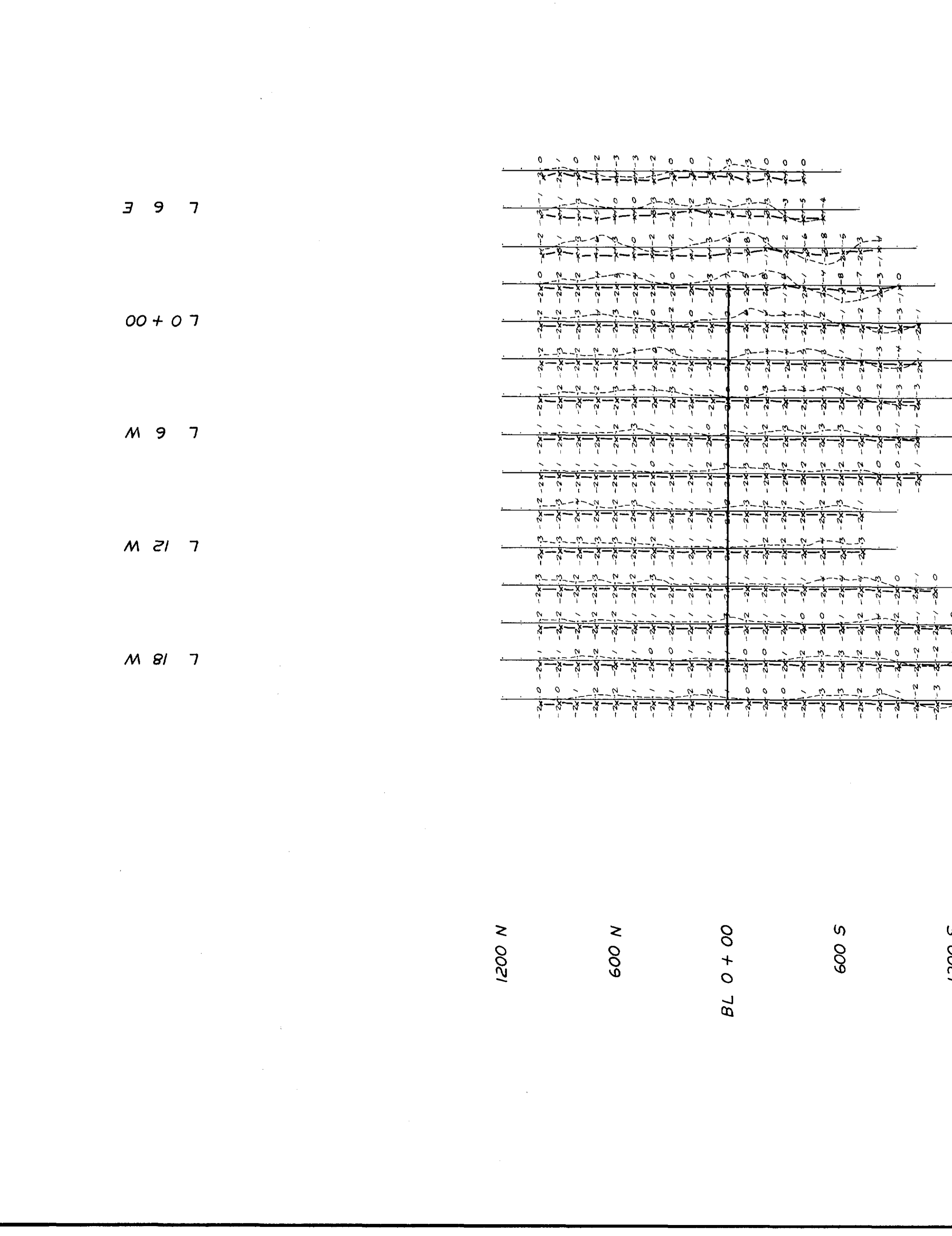
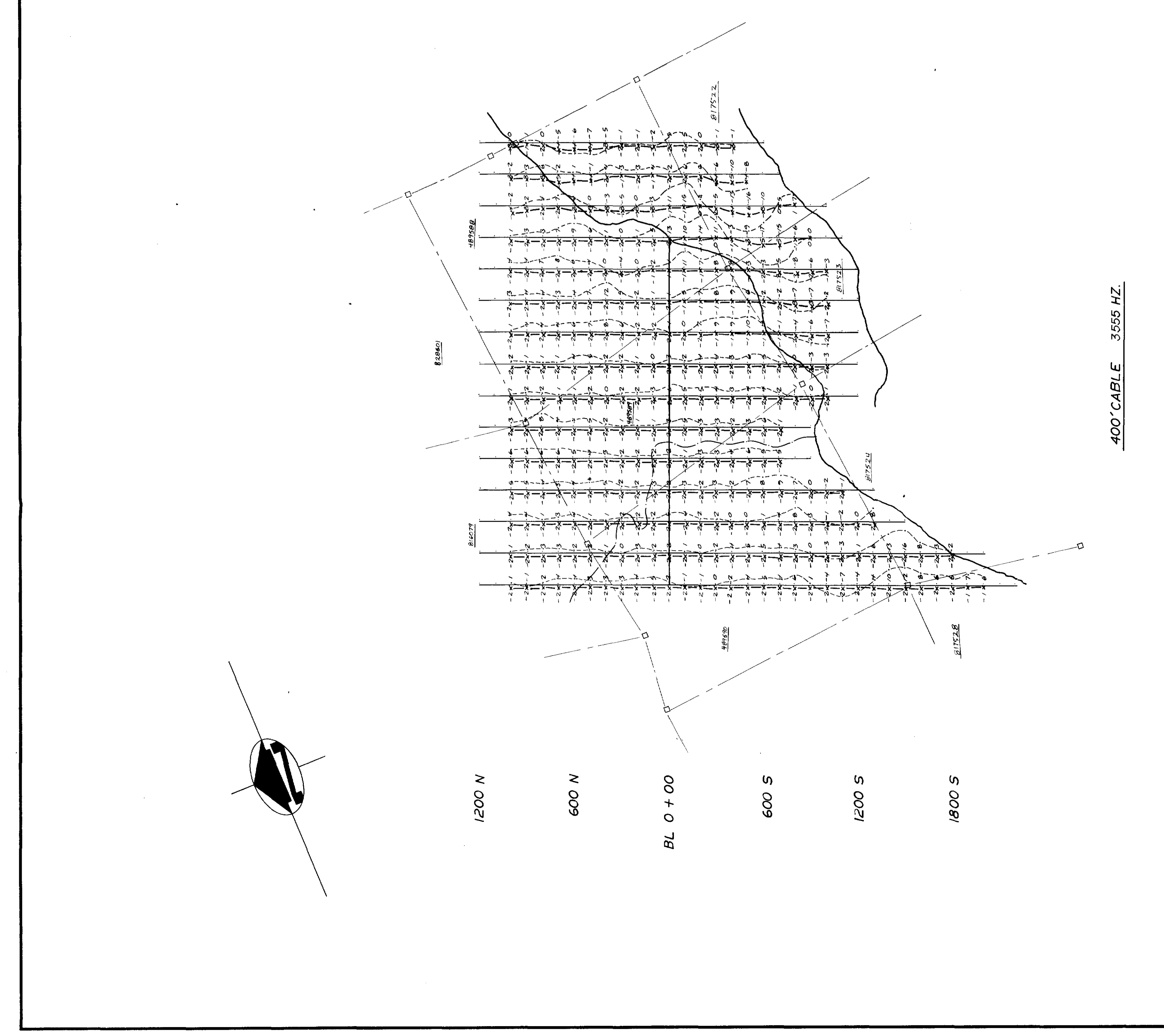
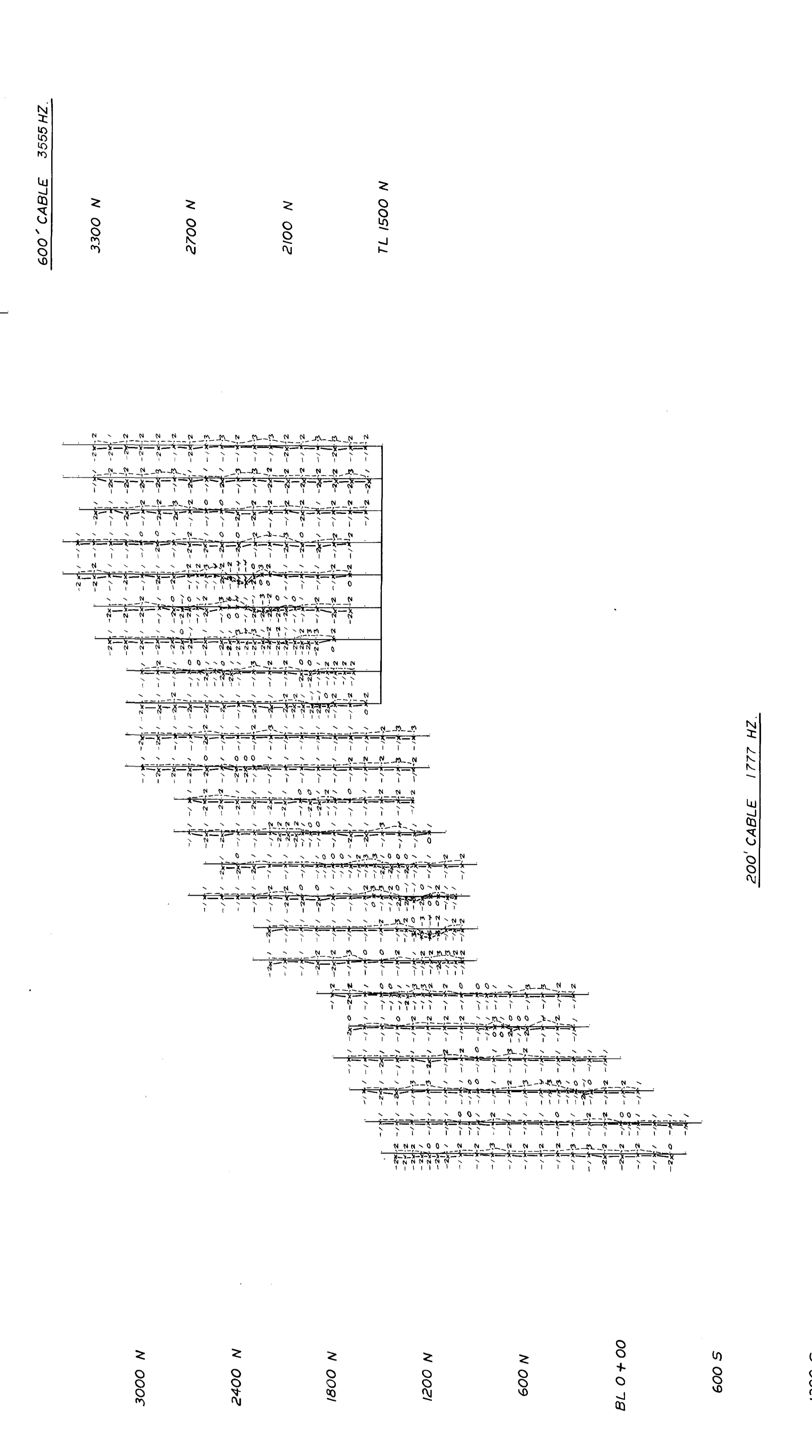
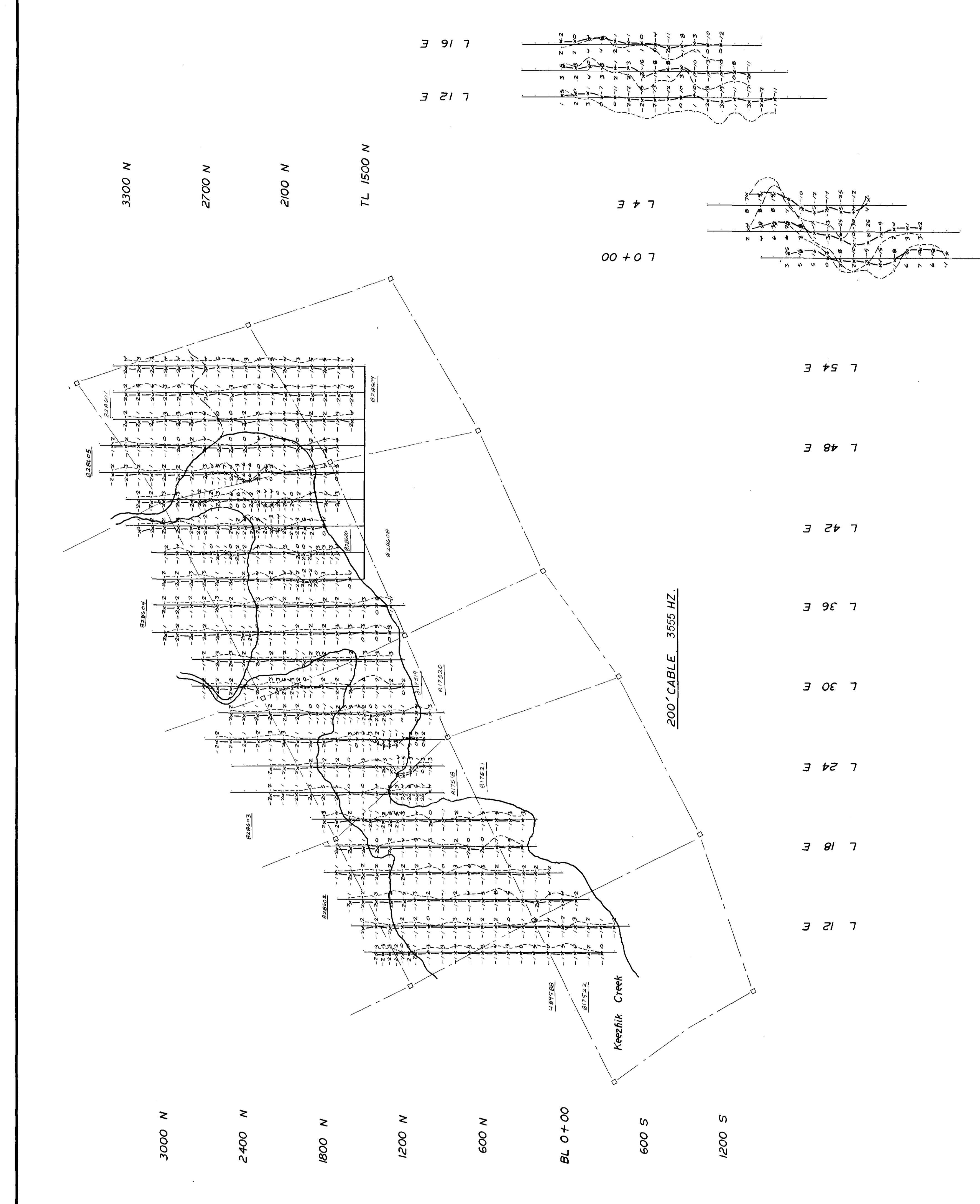


NORTHWEST GEOPHYSICS LTD.
THUNDER BAY, ONT.

MAXMIN II SURVEY
NORTH KEEZHNIK CREEK GRID

GOLD FIELDS CANADIAN MINING LTD.
MIMINISKA PROJECT

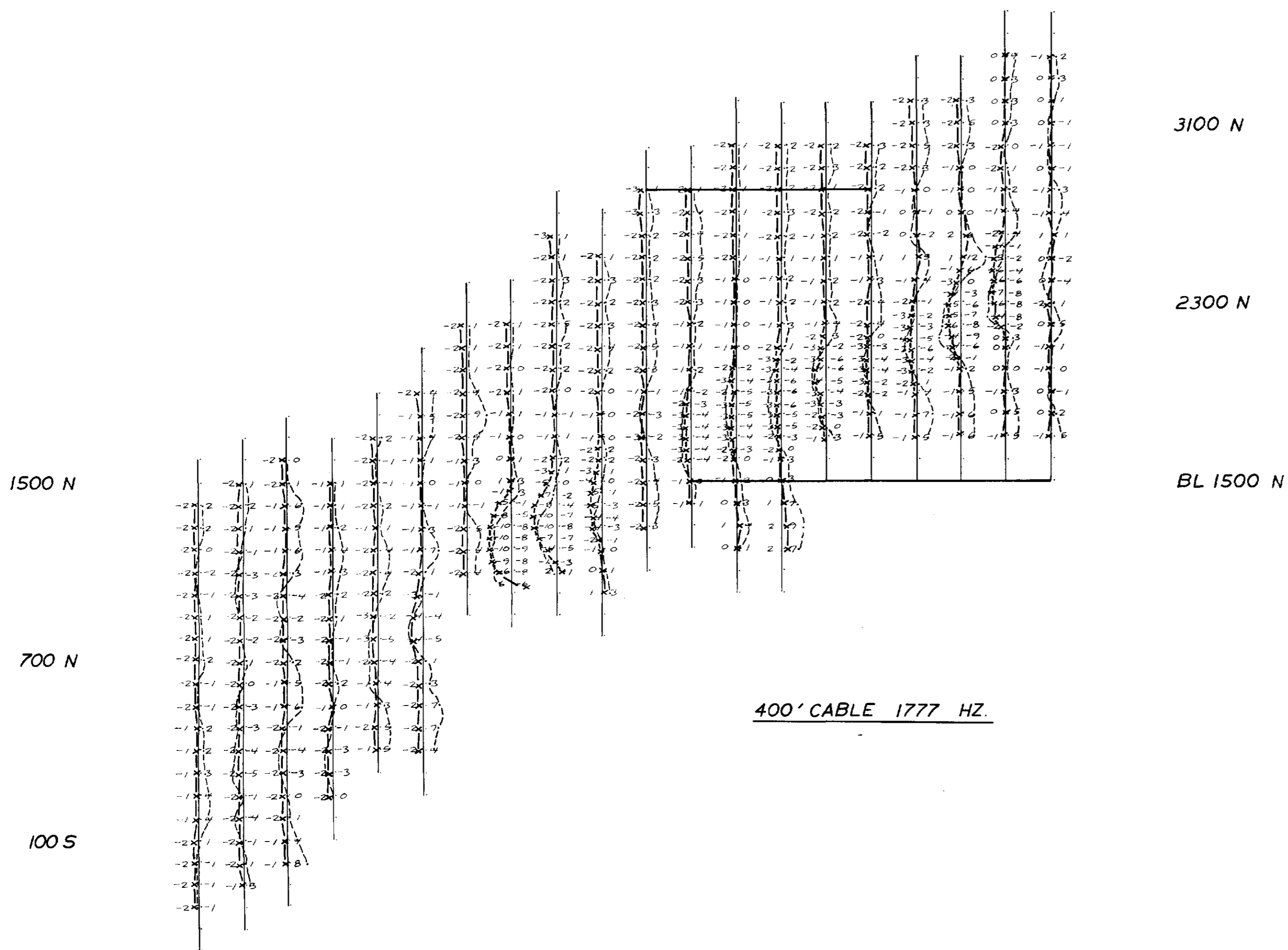
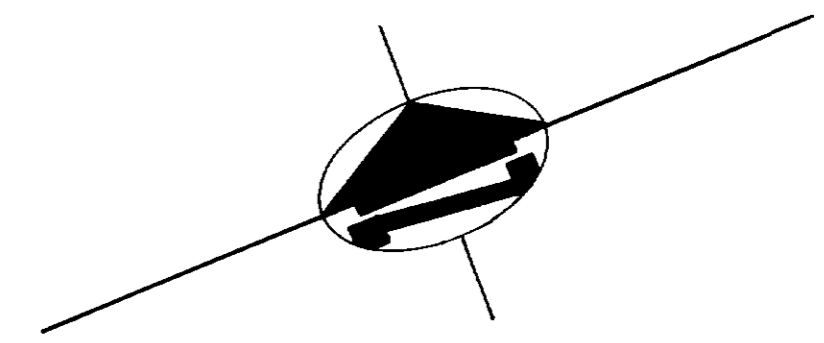
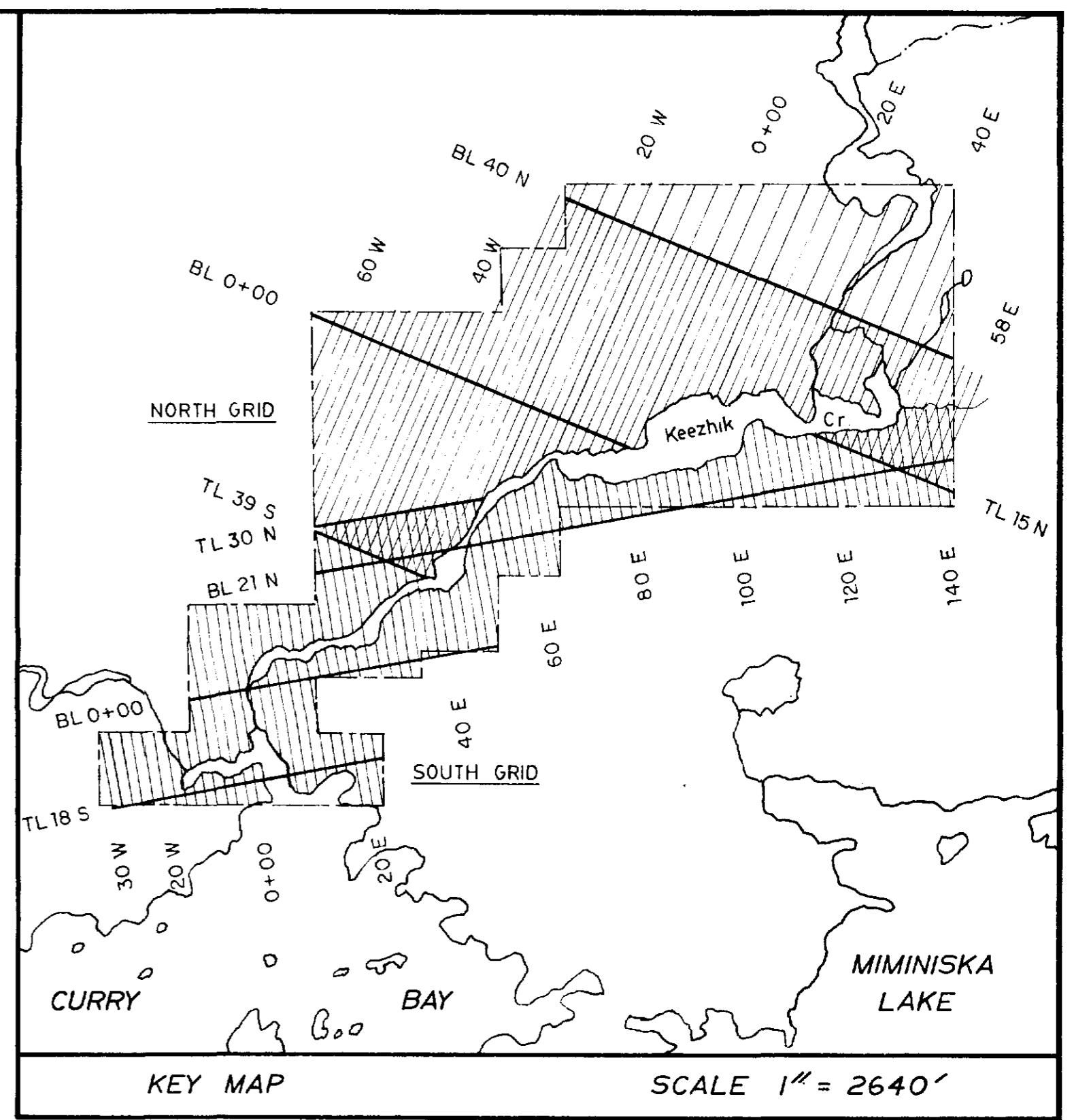
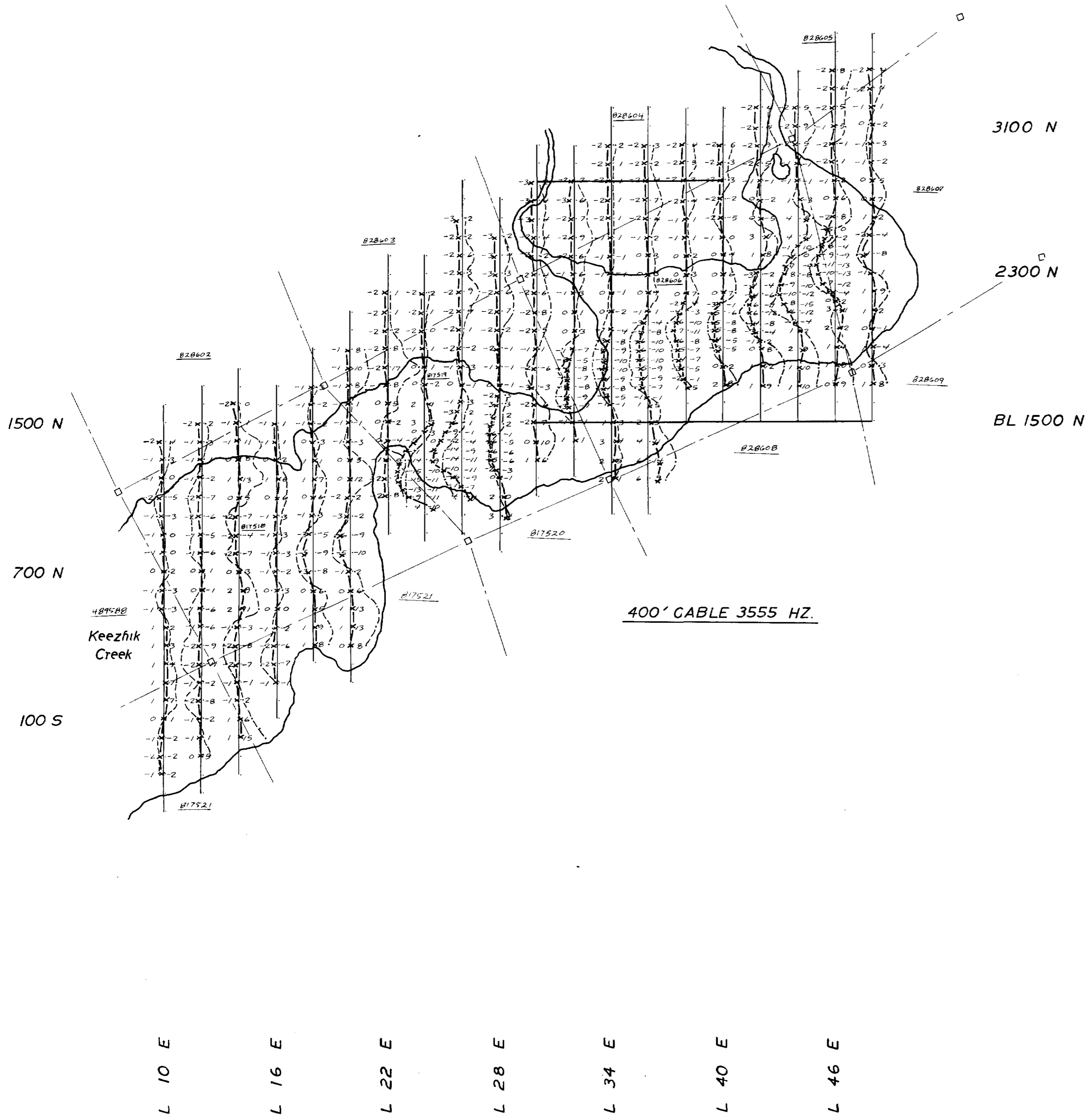
SCALE - 1 IN. = 400 FT. DATE - 04.19.87 DRAWN BY - J.P.M. 1/1/87



SURVEY NOTES
INSTRUMENT - MAXMIN II
PROFILE SCALE - 1 IN. = 40 FT.
IN PHASE AND NEGATIVE TO LEFT OF LINE
OUT OF PHASE AND POSITIVE TO RIGHT OF LINE

TOPOGRAPHY
Claim Post (Located, Assumed)
Claim Line
Swamp
Cliff
Outcrop
OC

29217



SURVEY NOTES

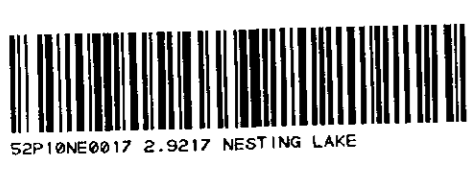
INSTRUMENT - MAXMIN II
 PROFILE SCALE - 1 IN. = 40 %
 IN PHASE AND NEGATIVE TO LEFT OF LINE
 OUT OF PHASE AND POSITIVE TO RIGHT OF LINE

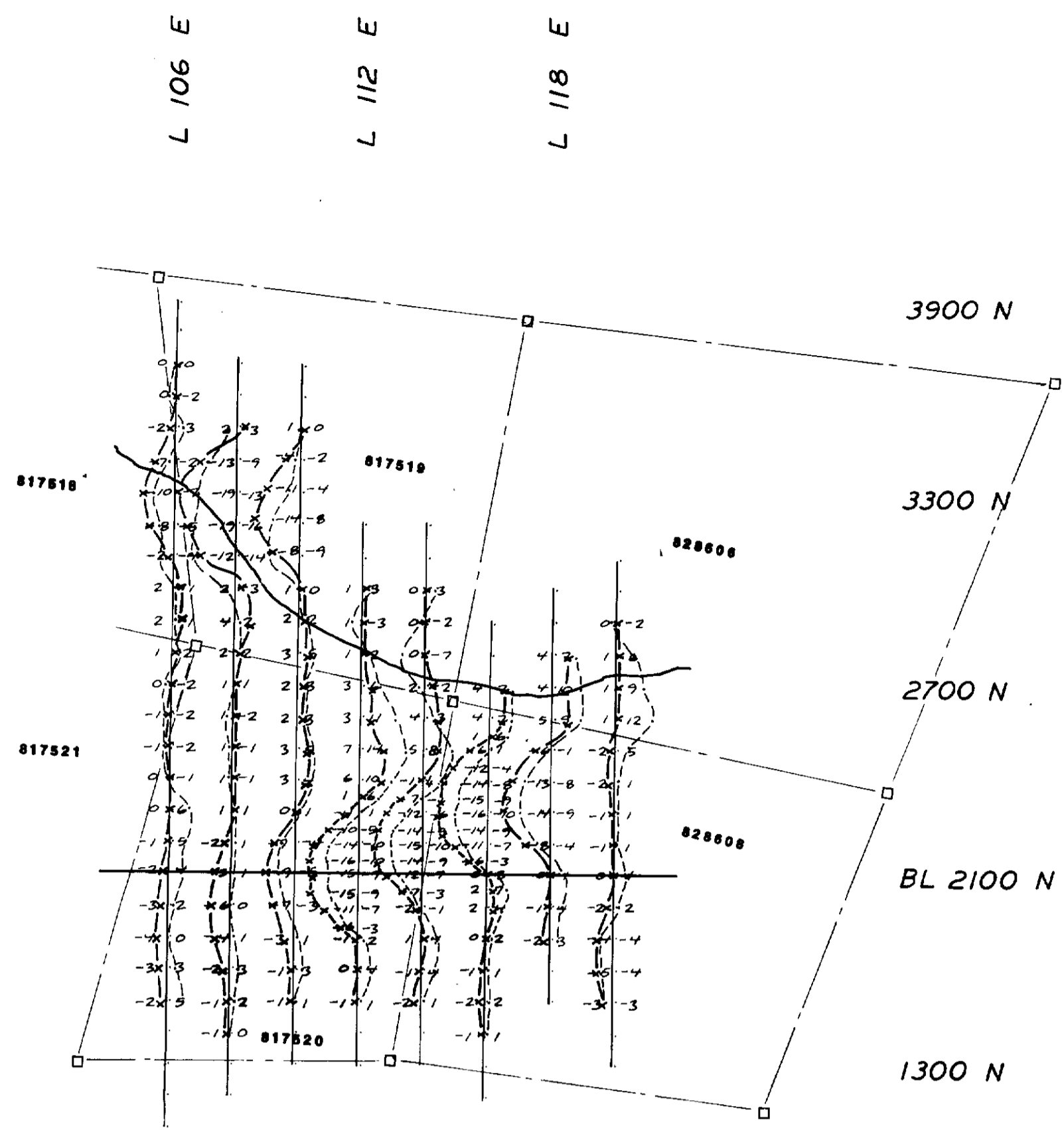
TOPOGRAPHY

- □ Claim Post (Located , Assumed)
- Claim Line
- Swamp
- Cliff
- OC Outcrop

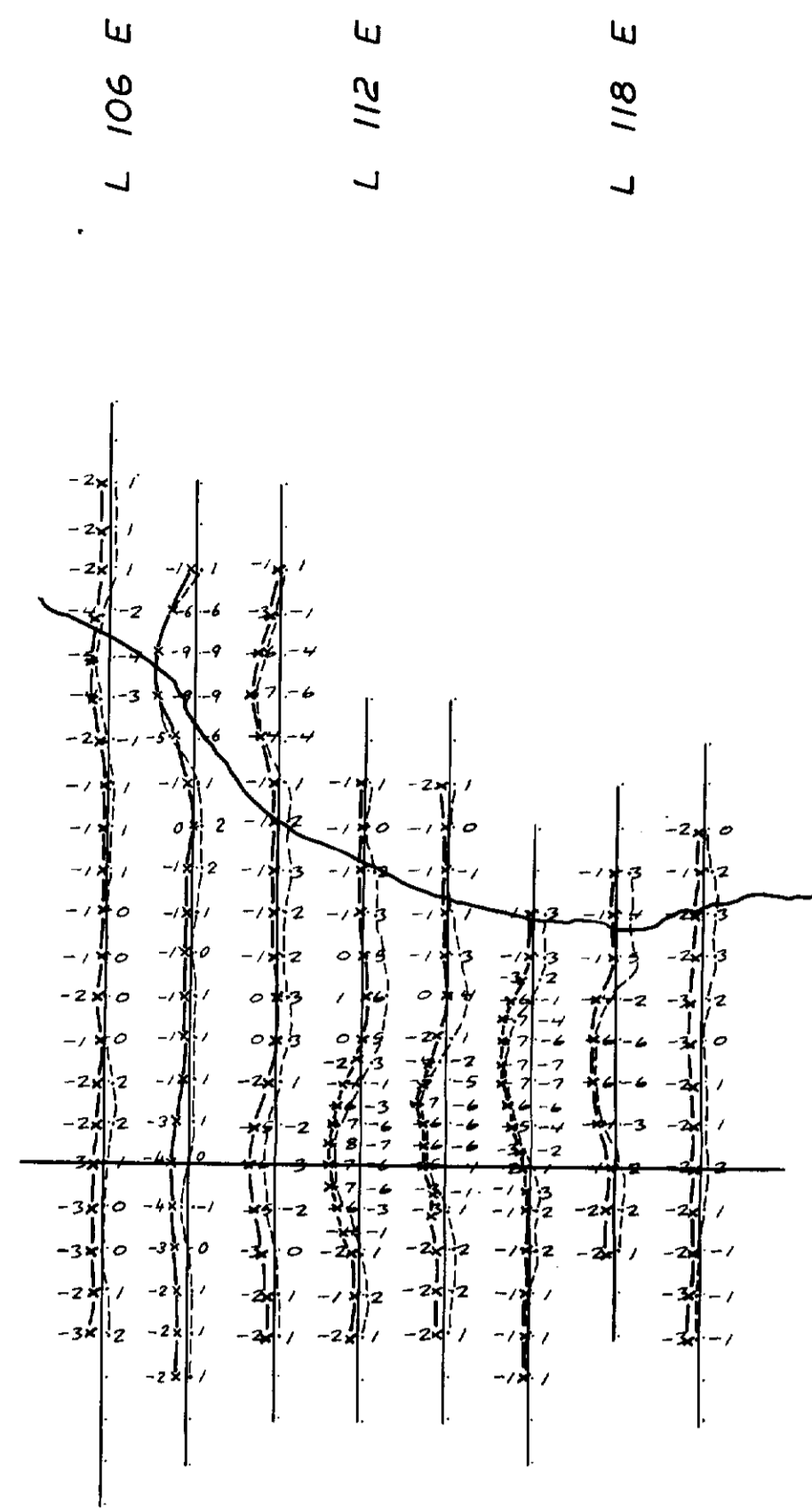
29217

NORTHWEST GEOPHYSICS LTD. THUNDER BAY, ONT.		
MAXMIN II SURVEY NORTH KEEZHIC CREEK GRID		
GOLD FIELDS CANADIAN MINING LTD. MIMINISKA PROJECT		
SCALE - 1 IN. = 400 FT.	DATE - SEPT., 1985.	DRAWN BY - JPM

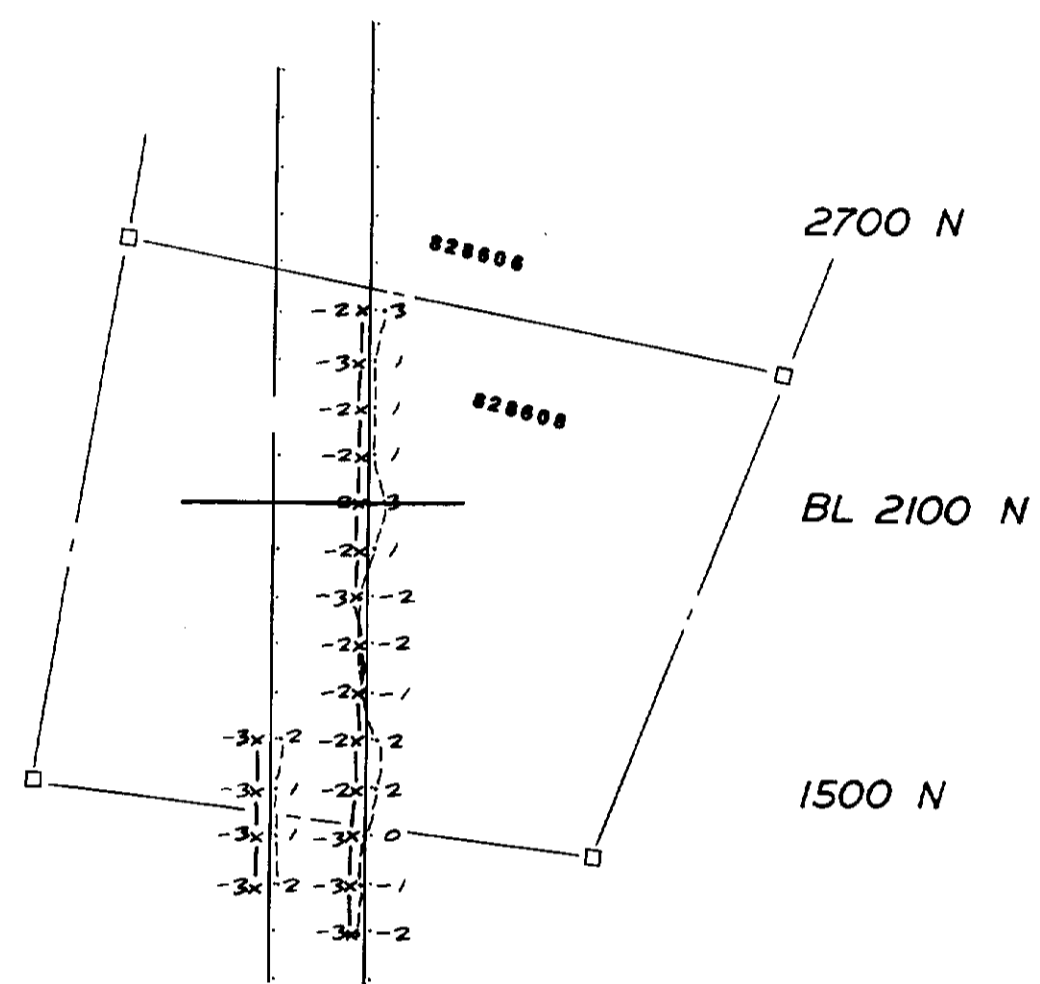




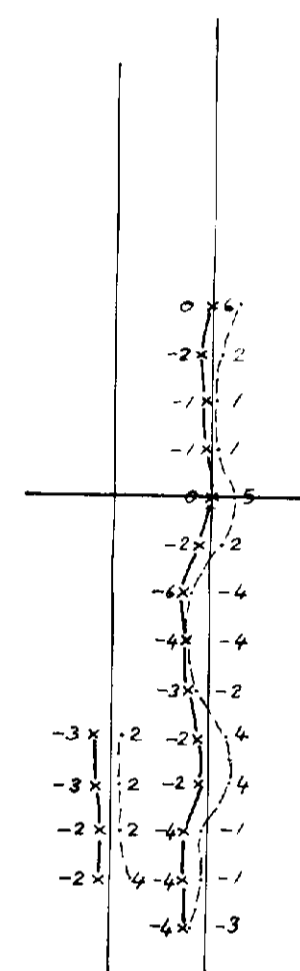
400' CABLE 3555 HZ.



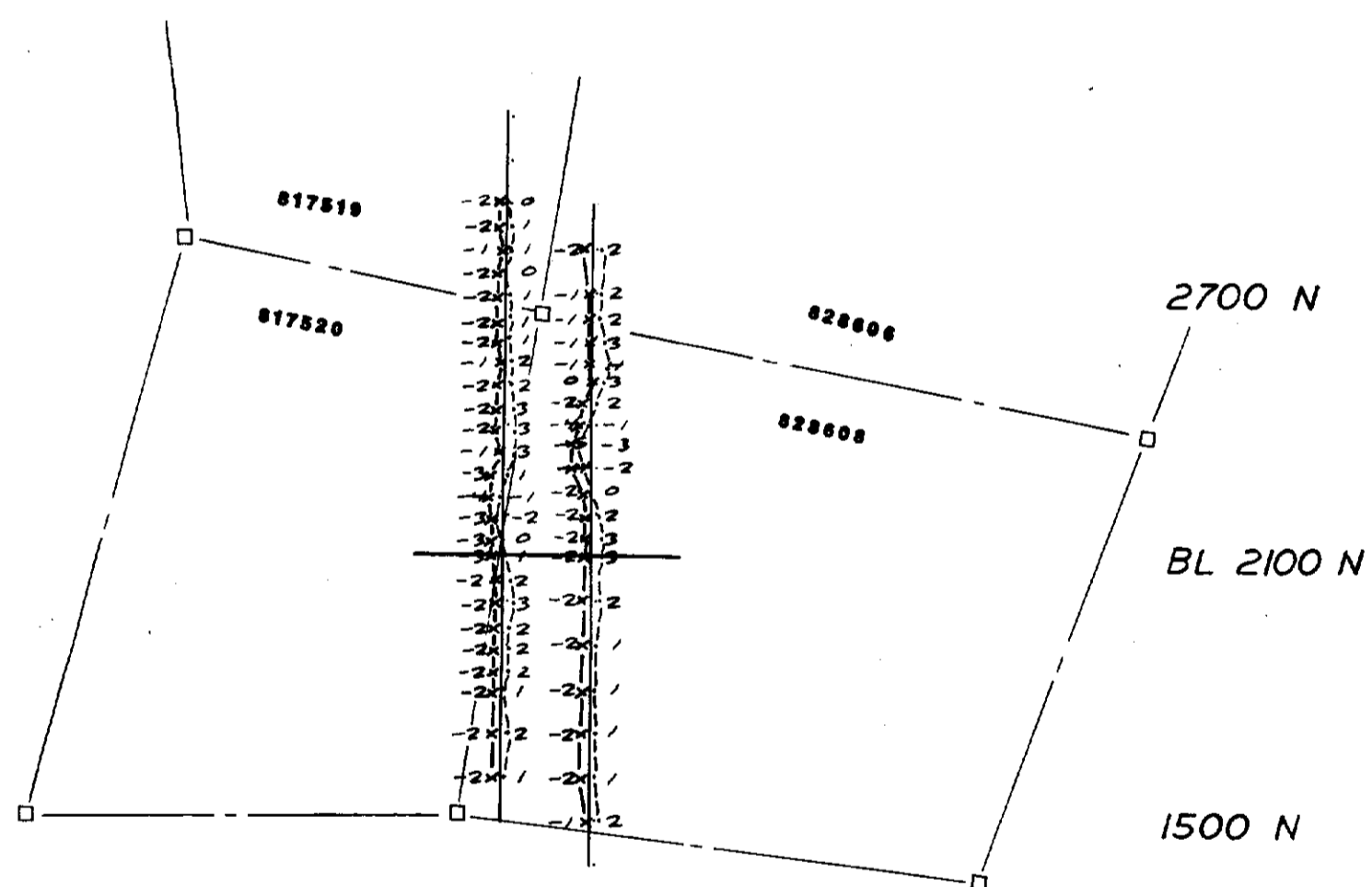
400' CABLE 888 HZ.



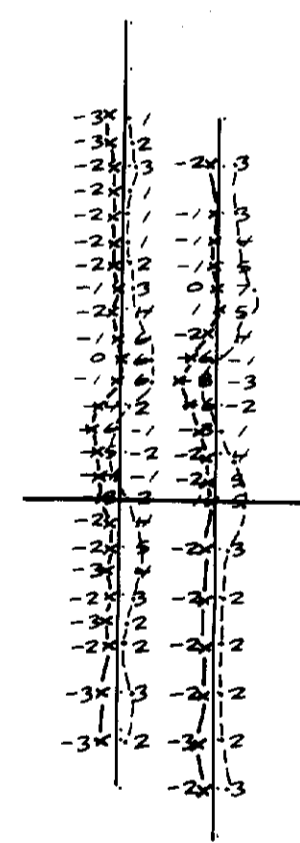
400' CABLE 1777 HZ.



400' CABLE 3555 HZ.



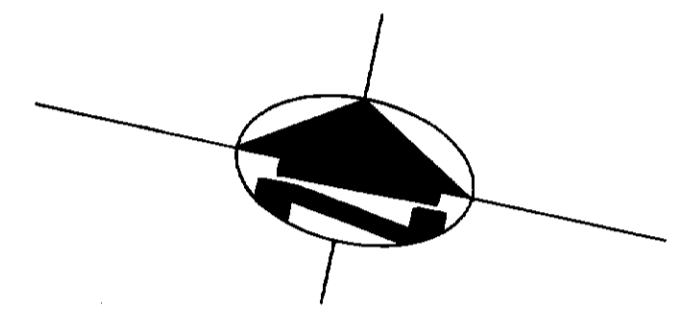
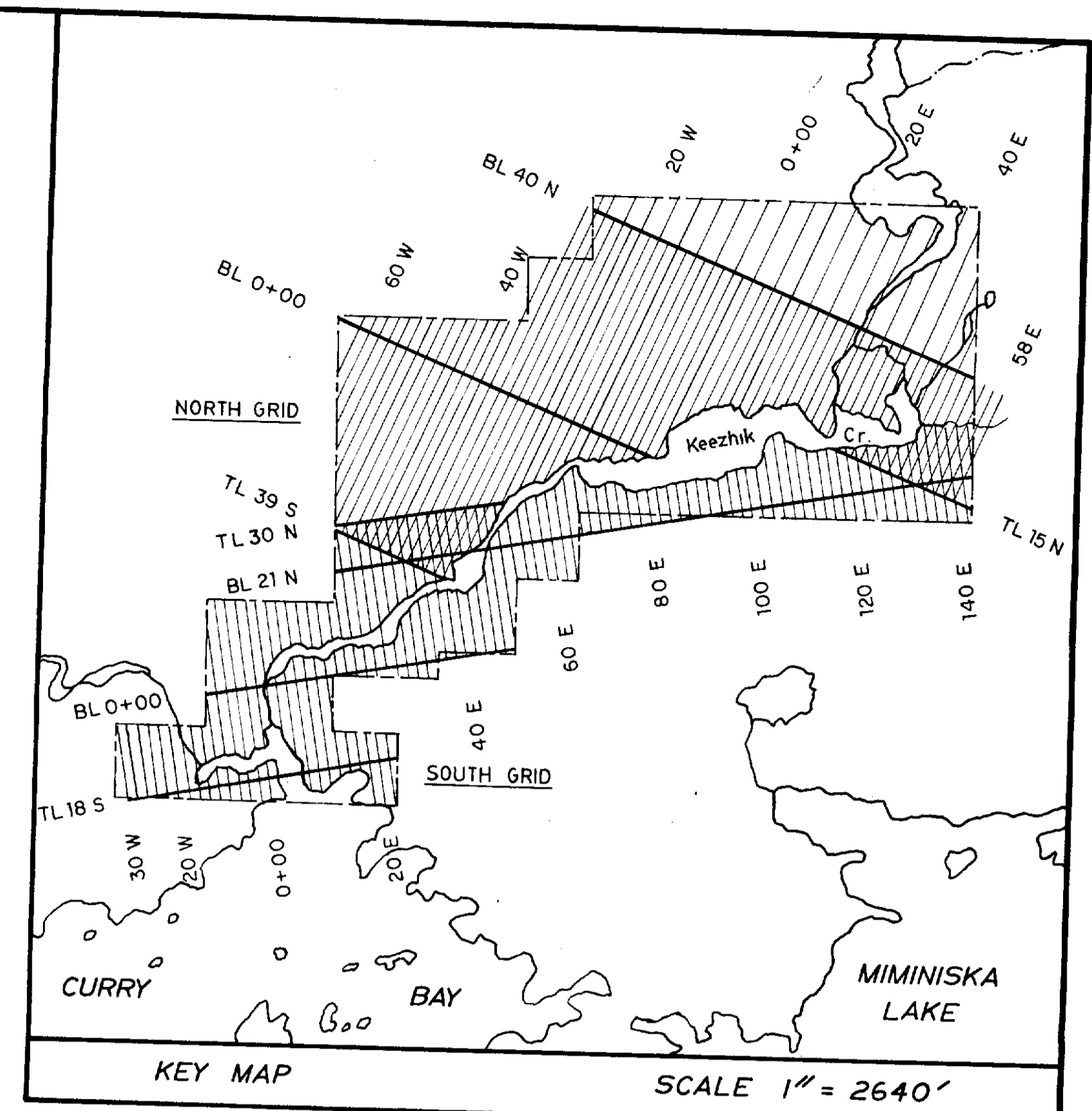
200' CABLE 1777 HZ.



200' CABLE 3555 HZ.

L 114 E
L 120 E

L 114 E
L 120 E



SURVEY NOTES

INSTRUMENT - MAXMIN II
 PROFILE SCALE - 1 IN. = 40 %
 IN PHASE AND NEGATIVE ON LEFT OF LINE
 OUT OF PHASE AND POSITIVE ON RIGHT OF LINE

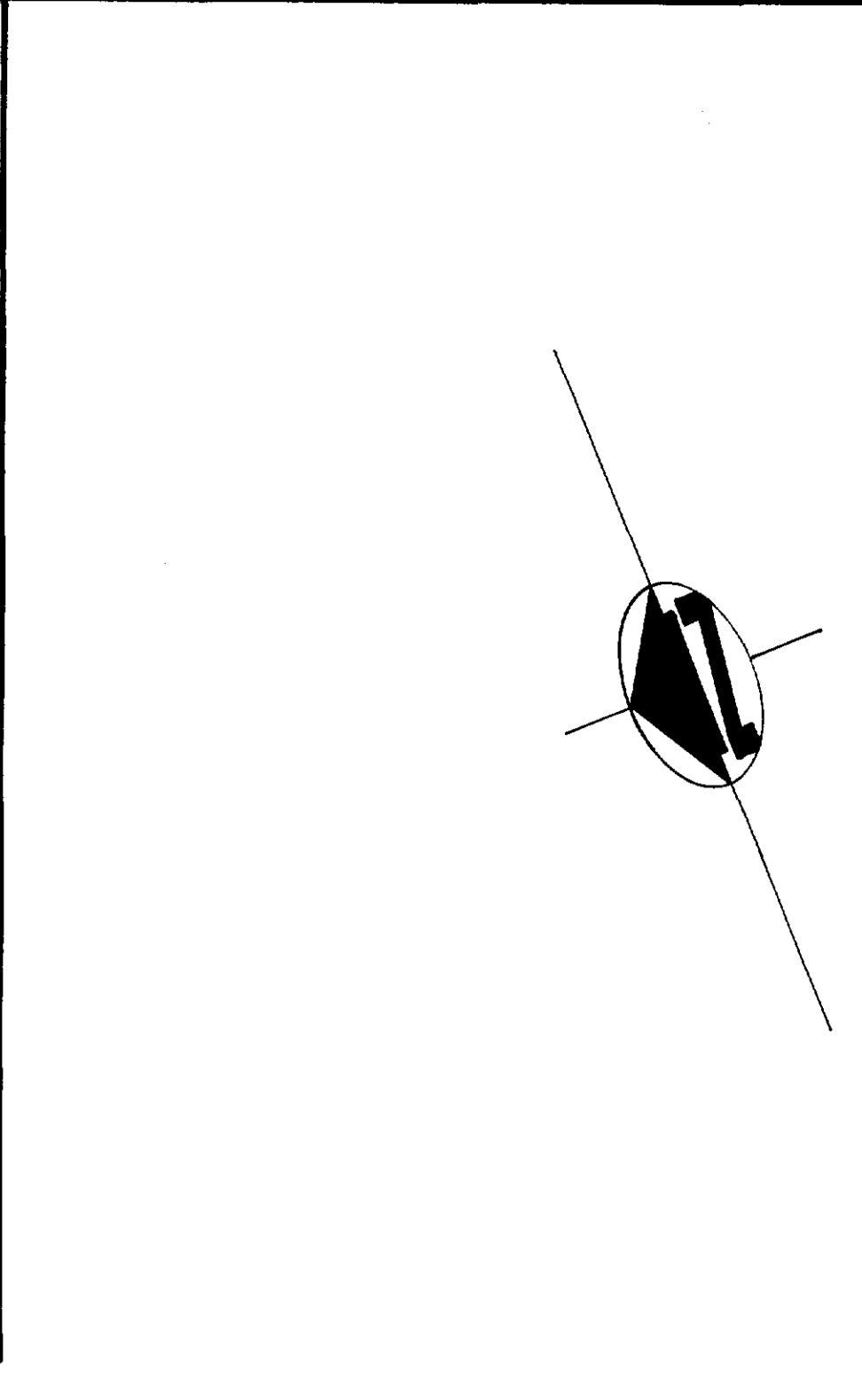
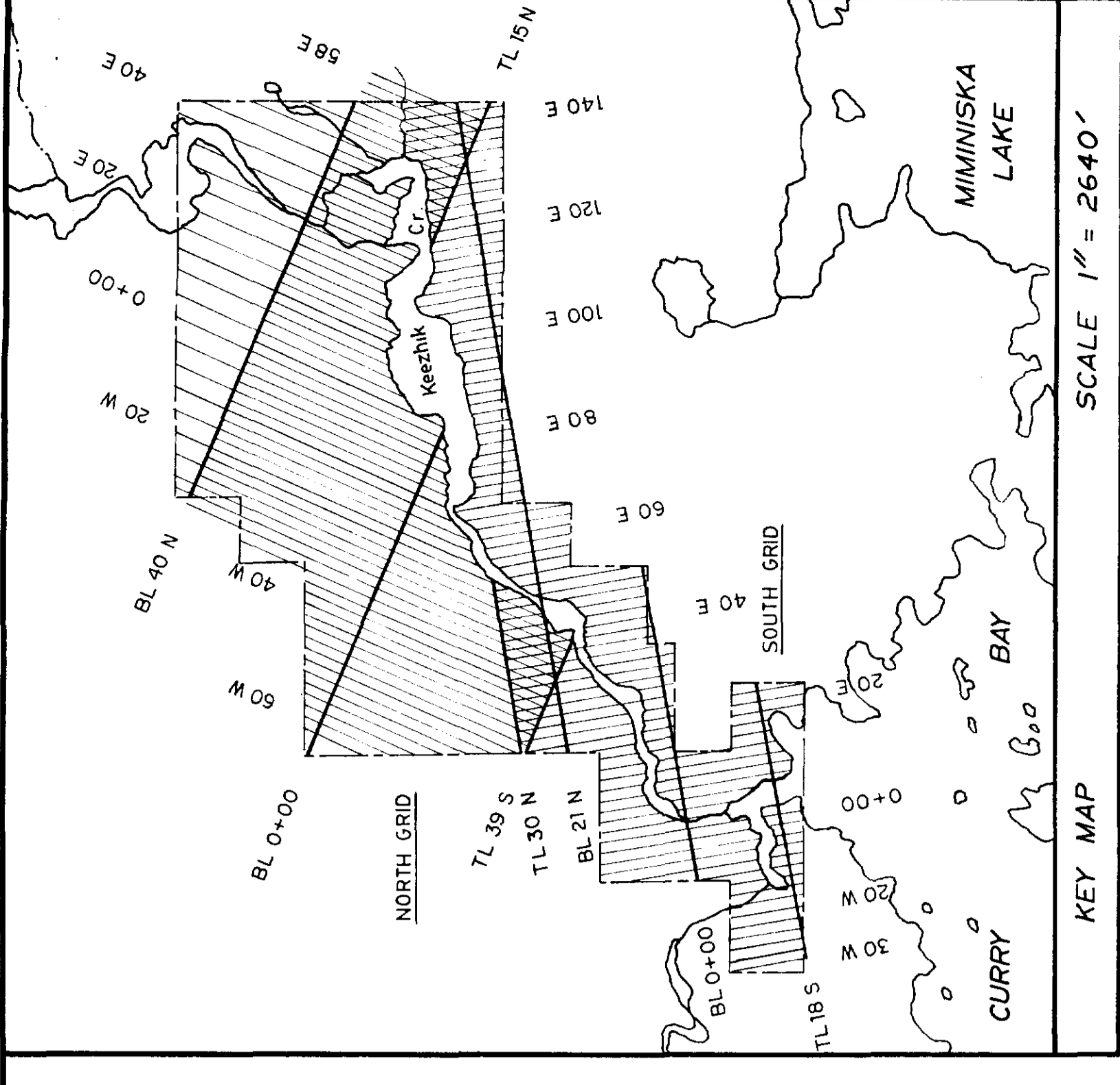
TOPOGRAPHY

- □ Claim Post (Located, Assumed)
- Claim Line
- ~ Swamp
- ||||| Cliff
- OC Outcrop

2927

NORTHWEST GEOPHYSICS LTD. THUNDER BAY, ONT.		
MAXMIN II SURVEY SOUTH KEEZHNIK CREEK GRID		
GOLD FIELDS CANADIAN MINING LTD. MIMINISKA PROJECT		
SCALE - 1 IN. = 400 FT.	DATE - SEPT., 1985.	DRAWN BY - JPM <i>WLB T. Prof</i>





SURVEY NOTES

INSTRUMENT - SCINTREX 105-2 VLF-4
 READING DIRECTION FACING WEST
 IN PHASE AND NEGATIVE ON LEFT OF LINE
 HOR. FIELD STRENGTH AND POSITIVE ON RIGHT OF LINE
 PROFILE SCALE - 1 IN. = 40 %
 VLF-1 H.F.S. READINGS REDUCED BY 20

TOPOGRAPHY

Claim Post (Located, Assumed)
 Claim Line
 Swamp
 Cliff
 Outcrop
 OC

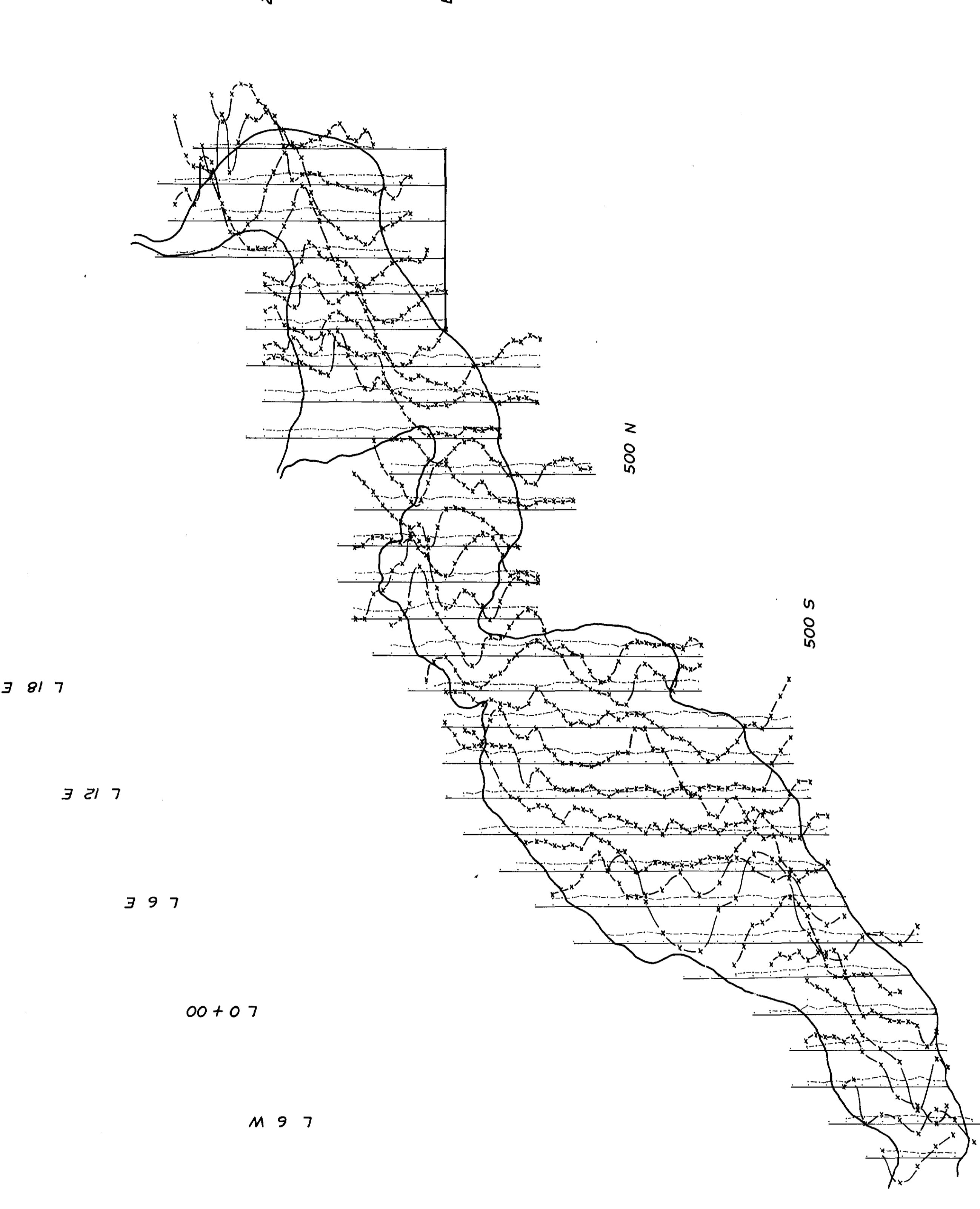
09217

NORTHWEST GEOPHYSICS LTD.
 THUNDER BAY, ONT.

VLF SURVEY
 NORTH KEEZHIK CREEK GRID

GOLD FIELDS CANADIAN MINING LTD.
 MIMINISKA PROJECT

SCALE - 1 IN. = 400 FT. DATE - DEC. 1985. DRAWN BY - J.P.M. W.S. Jorg



VLF II SEATTLE

VLF I CUTLER

Problem Page

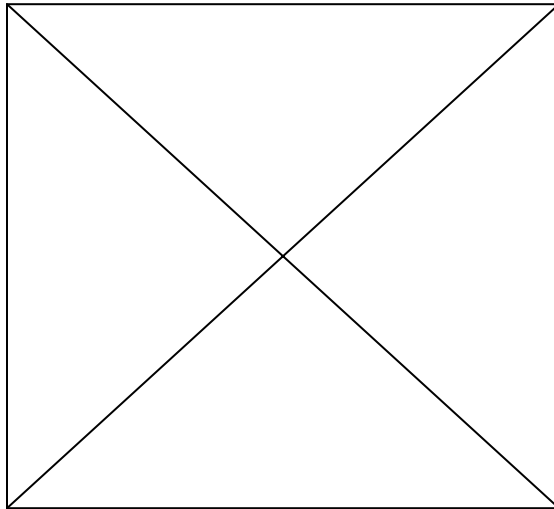
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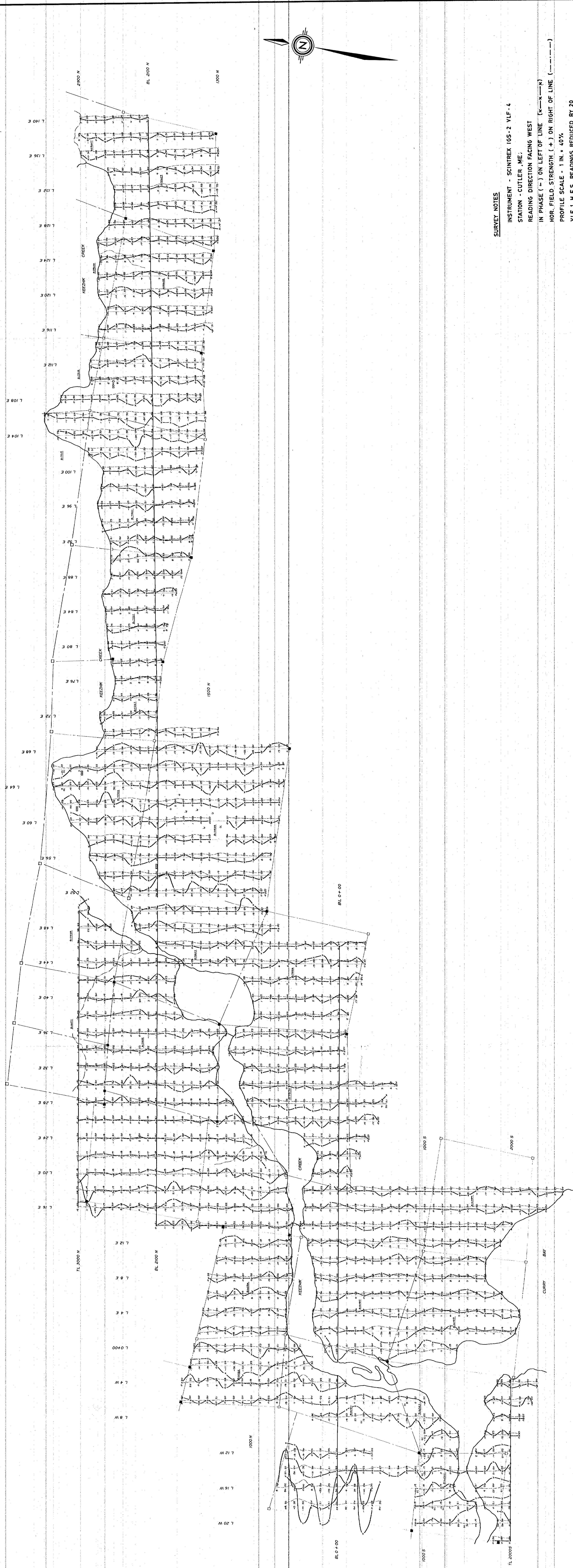
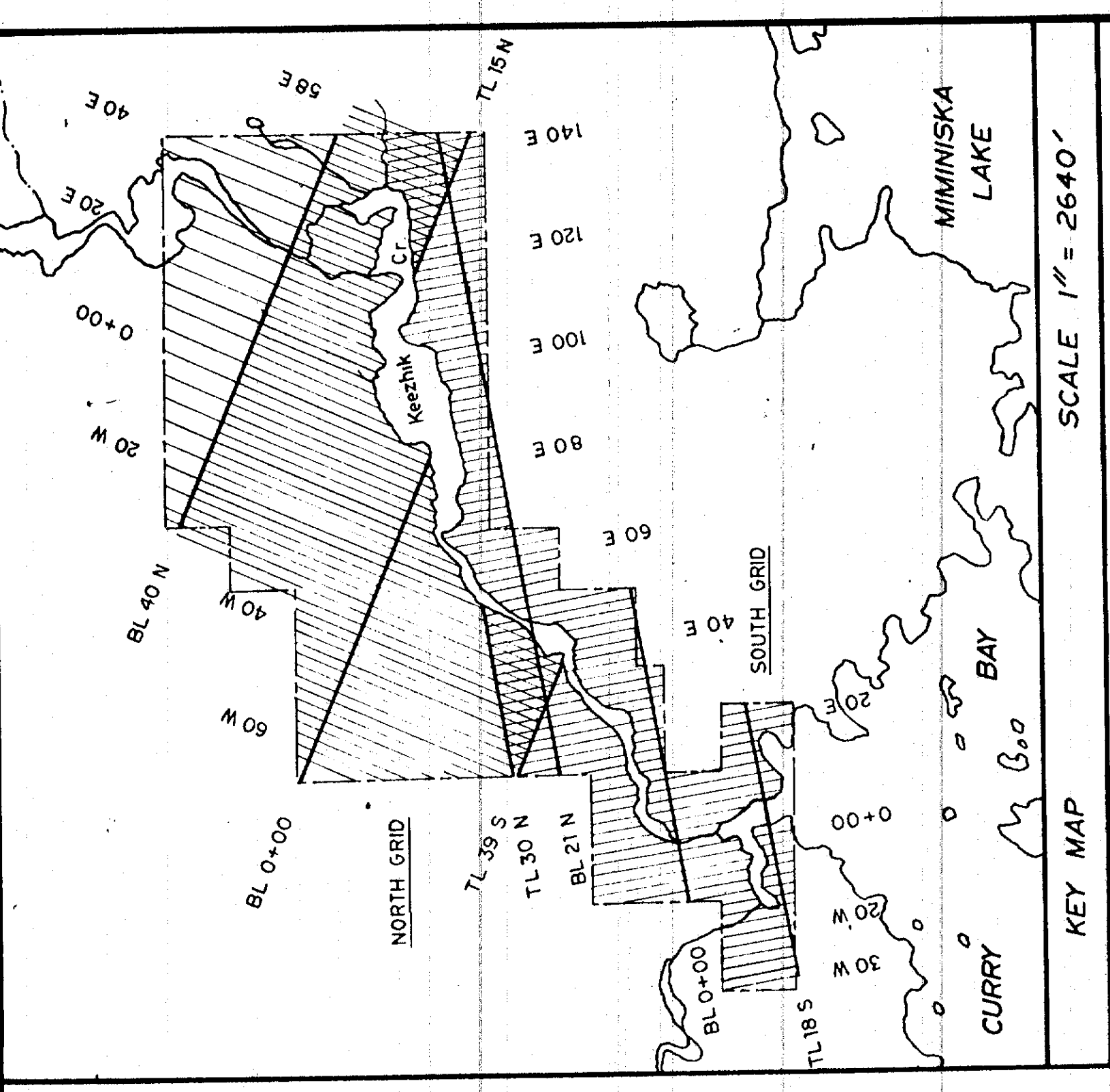
We apologize for the inconvenience.

Problème de conversion de page

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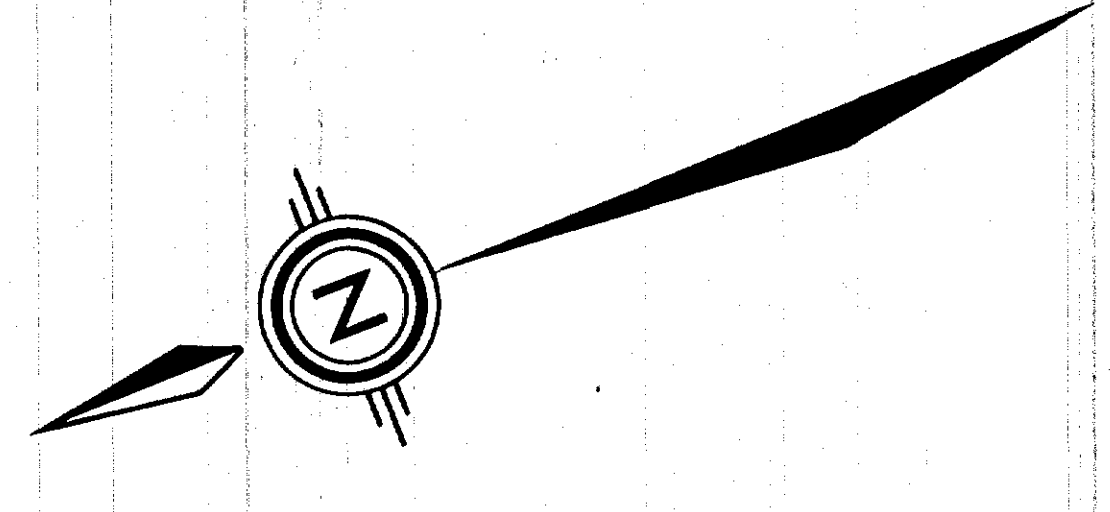
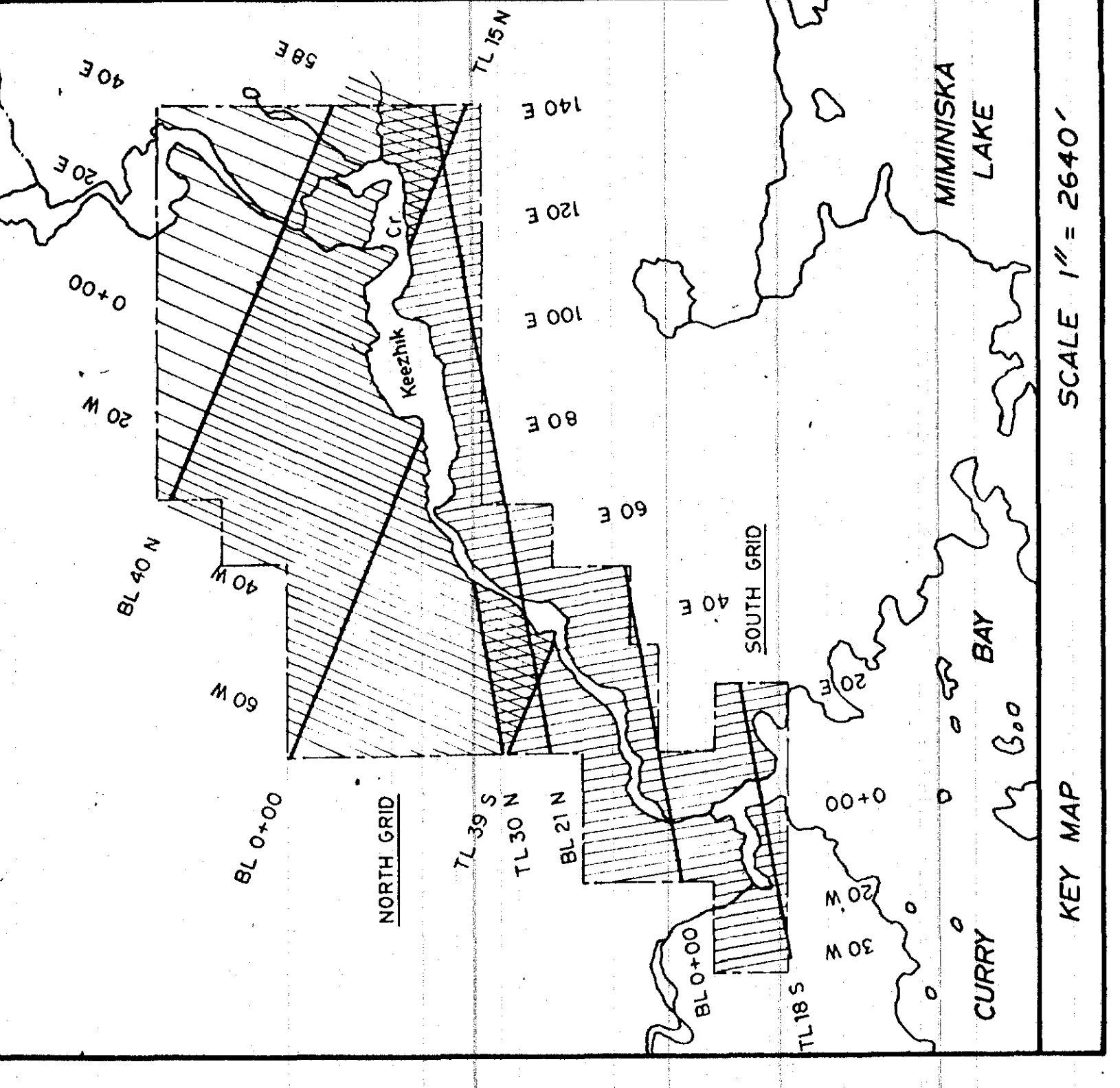




SURVEY NOTES
 INSTRUMENT - SCINTREX (S-2) VLF-4
 STATION - CUTLER, ME.
 READING DIRECTION FACING WEST
 IN PHASE (-) ON LEFT OF LINE (+) ON RIGHT OF LINE (---)
 HOR. FIELD STRENGTH - 1 IN. = 40 FT.
 PROFILE SCALE - 1 IN. = 40 FT.
 VLF 1 H.F.S. READINGS REDUCED BY 20
 FRASER FILTER - SOUTH TO NORTH
 CONTOUR INTERVAL - 5'

219217

NORTHWEST GEOPHYSICS LTD.
 THUNDER BAY, ONT.
 VLF 1 SURVEY
 SOUTH GRID
 GOLD FIELDS CANADIAN MINING LTD.
 MINNISKA PROJECT
 SCALE - 1 IN. = 400 FT. DATE - SEPT. 1985. DRAWN BY - J.P.M. *J.P.M.*



SURVEY NOTES
 INSTRUMENT - SCINTREX 165-2 VLF-4
 STATION - SEATTLE, WASH.
 READING DIRECTION FACING WEST
 IN PHASE (-) ON LEFT OF LINE (---+---)
 HOR. FIELD STRENGTH (+) ON RIGHT OF LINE (---+---)
 PROFILE SCALE - 1 IN. = 40 FT.
 VLF I. N.F.S. READINGS REDUCED BY 20
 FRASER FILTER - SOUTH TO NORTH
 CONTOUR INTERVAL - 5'

- TOPOGRAPHY**
- Claim Post (Located, Assumed)
 - Claim Line
 - ~ Swamp
 - Cliff
 - OC Outcrop

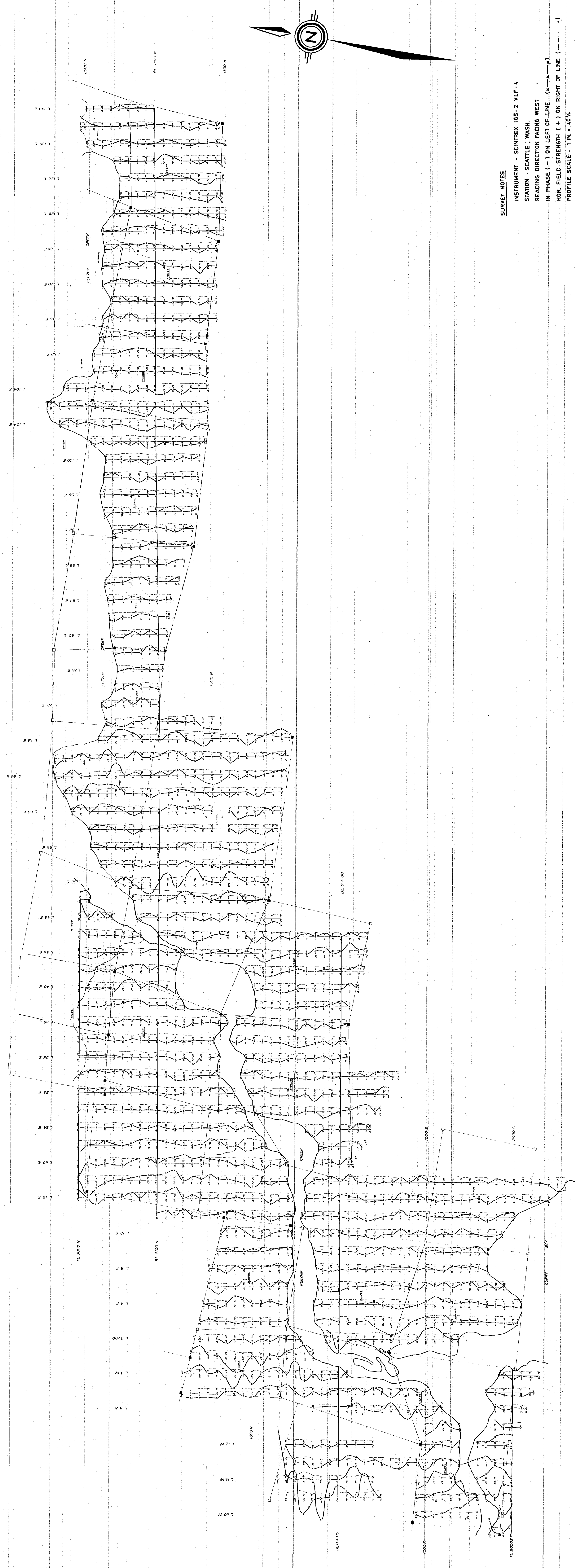
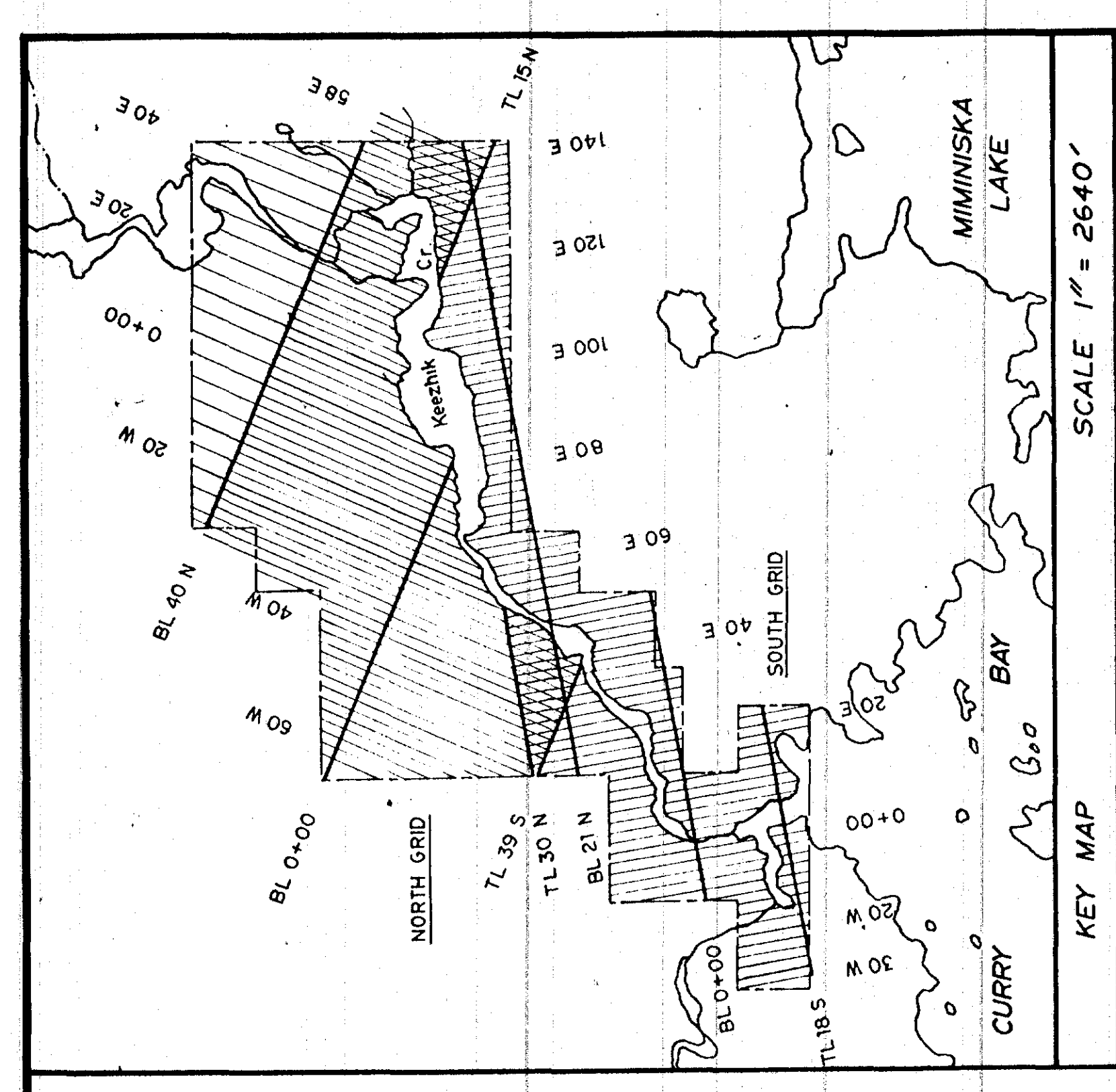
29217

NORTHWEST GEOPHYSICS LTD.
 THUNDER BAY, ONT.

VLF II SURVEY
 NORTH GRID

GOLD FIELDS CANADIAN MINING LTD.
 MIMINISKA PROJECT

SCALE - 1 IN. = 400 FT. DATE - SEPT. 1985. DRAWN BY - S.P.M. *L.B. Trapp*



SURVEY NOTES
 INSTRUMENT - SCINREX 105-2 VLF-4
 STATION - SEATTLE, WASH.
 READING DIRECTION FACING WEST
 IN PHASE (-) ON LEFT OF LINE (---) (+) ON RIGHT OF LINE (---)
 HOR. FIELD STRENGTH (+) ON RIGHT OF LINE (---)
 PROFILE SCALE - 1 IN. = 40'
 VLF 1 M.F.S. READINGS REDUCED BY 20
 FRASER FILTER - SOUTH TO NORTH
 CONTOUR INTERVAL - 5'

TOPOGRAPHY
 □ Claim Post (Located, Assumed)
 --- Claim Line
 ~~~~~ Swamp  
 - - - - - Cliff  
 - - - - - Outcrop  
 OC

9.217

NORTHWEST GEOPHYSICS LTD.  
 THUNDER BAY, ONT.  
 VLF II SURVEY  
 SOUTH GRID  
 GOLD FIELDS CANADIAN MINING LTD.  
 MIMINISKA PROJECT  
 SCALE - 1 IN. = 400 FT. DATE - SEPT. 1985. DRAWN BY - S.P.M. *S.P.M.*