



42A11SW0235 2.8630 TISDALE

010

KIDD CREEK MINES LTD.
GEOPHYSICAL REPORT
ON
TISDALE 52

NTS: 42-A/11

PROJ. #981

RECEIVED

NOV 15 1985

MINING LANDS SECTION

OCTOBER, 1985

D. LONDRY

SUMMARY AND RECOMMENDATIONS

No bedrock conductors were detected in EM surveys carried out on the Tisdale 52 property. Ultramafics on the property are outlined in the magnetic survey.

No further geophysics is recommended.



42A11SW0235 2.8630 TISDALE

010C

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2. VLF RESULTS (BACK POCKET)
3. HEM RESULTS, 444 HZ. (BACK POCKET)
4. HEM RESULTS, 1777 HZ. (BACK POCKET)

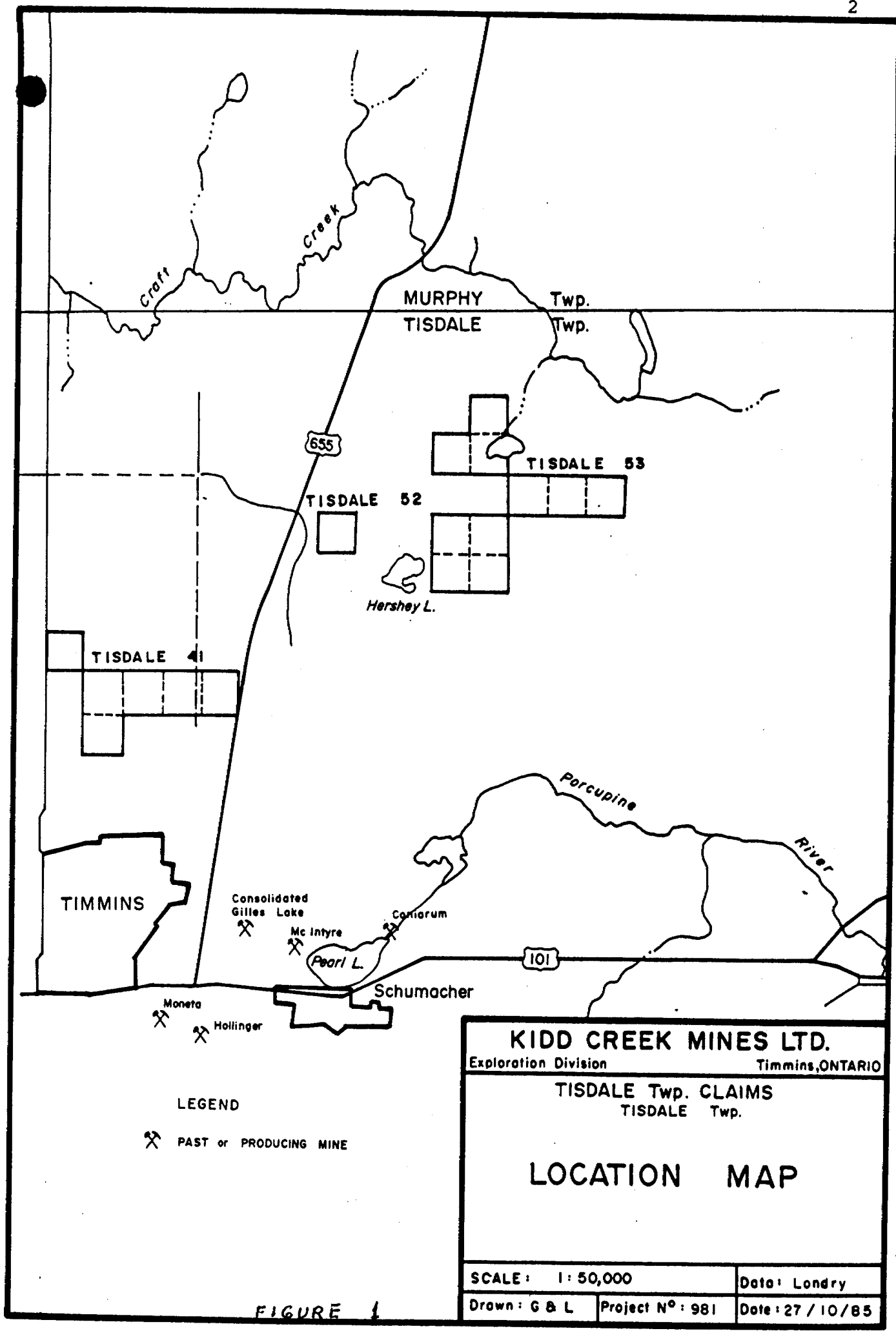
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INTRODUCTION

During August 1985, Kidd Creek Mines Ltd. carried out magnetic, VLF-EM and horizontal loop EM surveys on claim 851801 in Tisdale Township. The claim is located 5.5 km north of the city of Timmins in the SE 1/4, N 1/2 of Concessions V, Lot 9 (Figure 1).

The claim is accessible along the Hershey Lake road off Highway 655. The field crew included R. Daigle, S. Ryan and S. Olink.



KIDD CREEK MINES LTD.
 Exploration Division Timmins, ONTARIO

TISDALE Twp. CLAIMS
 TISDALE Twp.

LOCATION MAP

SCALE: 1:50,000	Date: Londry
Drawn: G & L	Project N°: 981
	Date: 27/10/85

LEGEND
 ⚒ PAST or PRODUCING MINE

FIGURE 1

PREVIOUS WORK

In 1981 Esso Minerals Canada carried out a VLF-EM survey on the claim, then held by Hollinger Argus. No bedrock conductors were detected.

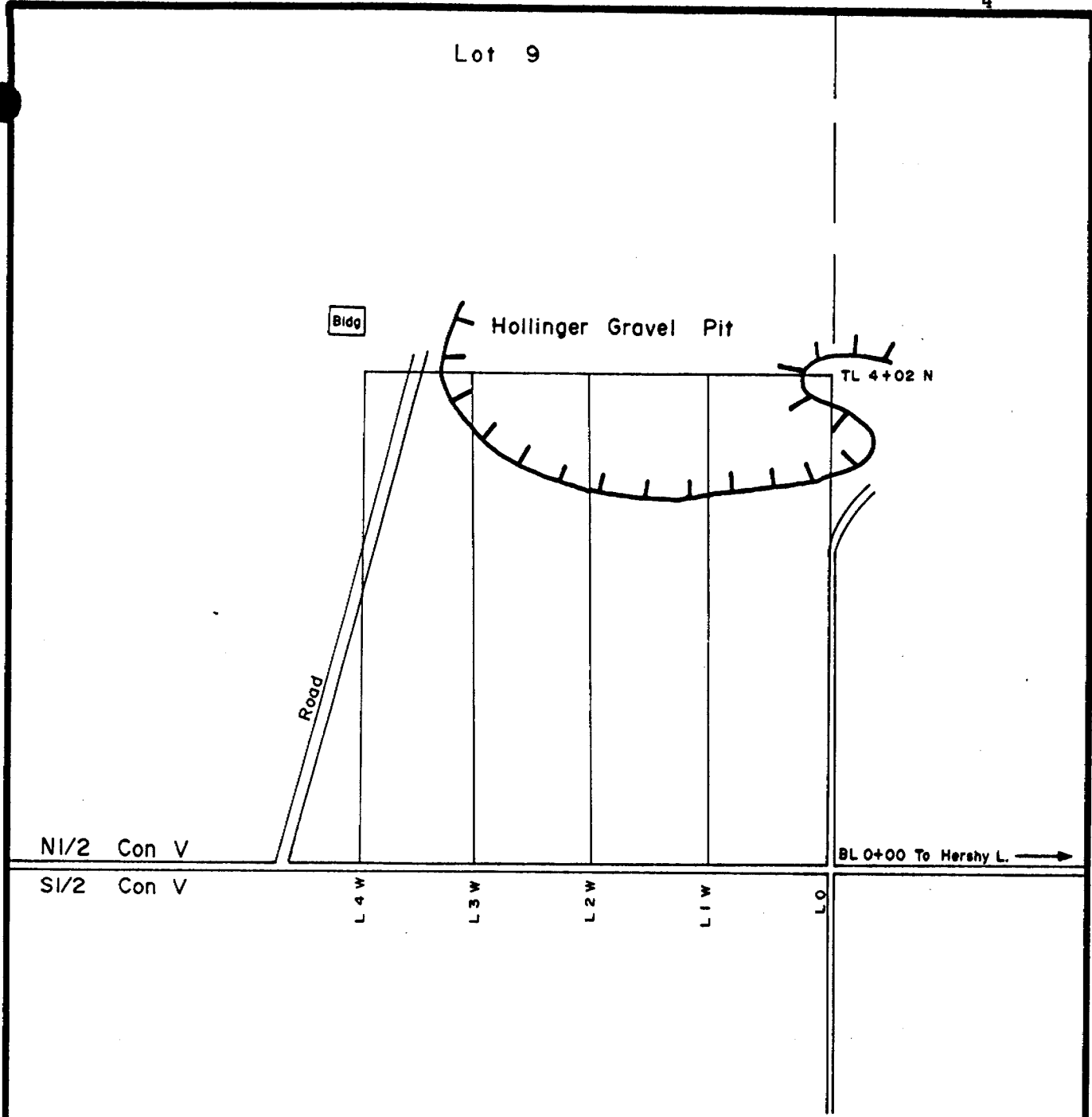
SURVEY DESCRIPTIONS

An east-west base line was established along the south edge of claim 851801. Grid lines were cut every 100 m and picketed every 20 m (Figure 2).

The horizontal loop EM survey was carried out with an Apex Parametrics Max Min I using a coil separation of 160 m. The in-phase and quadrature components of the secondary field were measured as a percentage of the primary field. Readings were taken every 20 m at frequencies of 444 and 1777 hertz. A total of 65 stations were sampled along 2.0 km of line.

The magnetic readings were taken with a Scintrex IGS-2/MP-4. This instrument is a proton precession magnetometer which measures the Earth's total magnetic field to an accuracy of $\pm .1$ gamma. The diurnal drift was monitored every 30 seconds with a Scintrex MP-3 base station magnetometer located at 60 North on Line 0 West. A total of 103 readings were taken.

Lot 9



Lines every 100 m
 Stations every 20m
 Total 2.8 km

KIDD CREEK MINES LTD.	
Exploration Division	Timmins, ONTARIO
TISDALE 52 TISDALE Twp.	
LINE GRID	
SCALE : 1 : 5000	Date : DerWeduwen
Drawn : Milene	Project N° : 981
	Date : 08 / 07 / 85

FIGURE 2

A Scintrex IGS-2/VLF-4 was used in the VLF-EM survey. Parameters measured include the horizontal field strength and the inphase and quadrature components of the vertical field, normalized to the horizontal field. The transmitter station used was Cutler Maine which transmits at a frequency of 24.0 k Hz. The number of stations sampled in this survey was 103.

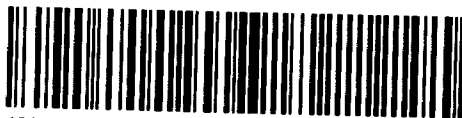
RESULTS

Plan maps of the results, plotted at a scale of 1:2000, can be found in the pockets at the end of this report.

No bedrock conductors were detected in the horizontal loop EM survey (Maps 3 and 4). Positive in-phase readings in the results from both frequencies occur at the north end of Lines 200 and 300 West. This is a short cable effect caused by a steep embankment at the edge of the Hollinger gravel pit. Anomalous readings at the south end of Lines 300 and 400 West in both the VLF and horizontal loop results are due to a power line. The source of weak VLF anomalies, elsewhere on the property, are surficial.

A linear magnetic anomaly which strikes east northeast across the north half of the claim reflects serpentinite (Map 1). The source of the circular feature on Line 100 West is also likely ultramafics.

Douglas Londry.
D. LONDREY



42A11SW0235 2.8630 TISDALE

020

KIDD CREEK MINES LTD.
GEOPHYSICAL REPORT
ON
TISDALE 53

NTS: 42-A/11

PROJ # 981

RECEIVED
NOV 15 1985
MINING LANDS SECTION

OCTOBER 1985

D. LONDRY

SUMMARY AND RECOMMENDATIONS

Magnetic, VLF-EM and horizontal loop EM surveys were carried out on the Tisdale 53 property.

The magnetic survey outlines east northeast striking ultramafics. A bedrock conductor detected in the horizontal loop EM survey has been previously tested by diamond drilling.

It is recommended that an I.P. survey be carried out on Lines 300 and 400 West from 400 to 1200 South.



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INTRODUCTION

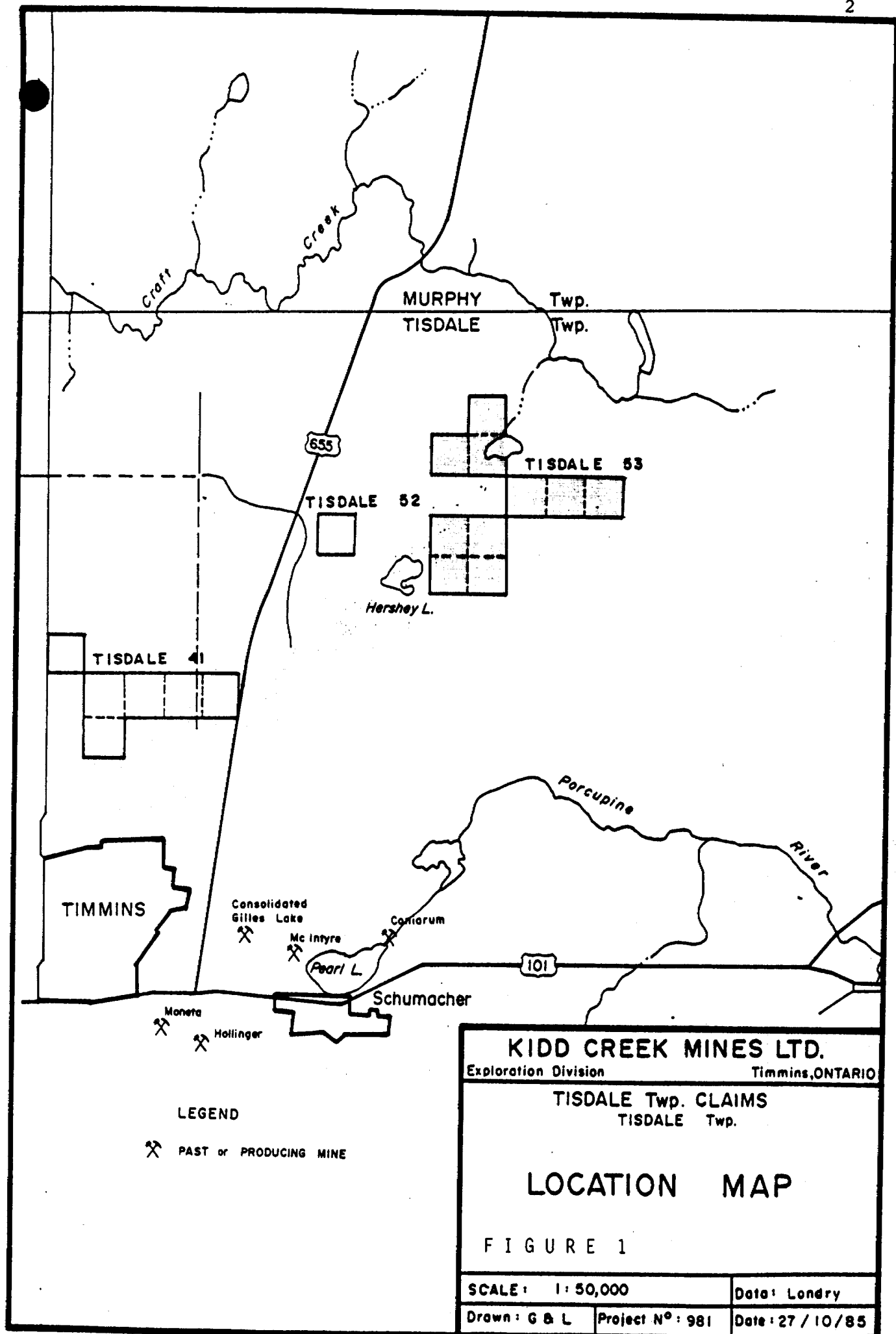
During August 1985, Kidd Creek Mines Ltd. carried out magnetic, VLF-EM and horizontal loop EM surveys on the Tisdale 53 property. The property consists of 10 contiguous claims in the northern half of Tisdale Township. The claims are numbered as follows:

P 825784

P 831692 - P 831694 inclusive


P 831839 - P 831844 inclusive

The property is located about 6 km northeast of the city of Timmins. It is accessible along a gravel road from Highway 655. The field crew included R. Daigle, B. Keen, S. Taylor and S. Olink.



KIDD CREEK MINES LTD.		
Exploration Division		Timmins, ONTARIO
TISDALE Twp. CLAIMS TISDALE Twp.		
LOCATION MAP		
FIGURE 1		
SCALE: 1:50,000	Date: Londry	
Drawn: G & L	Project N°: 981	Date: 27 / 10 / 85

LEGEND

 PAST or PRODUCING MINE

PREVIOUS WORK

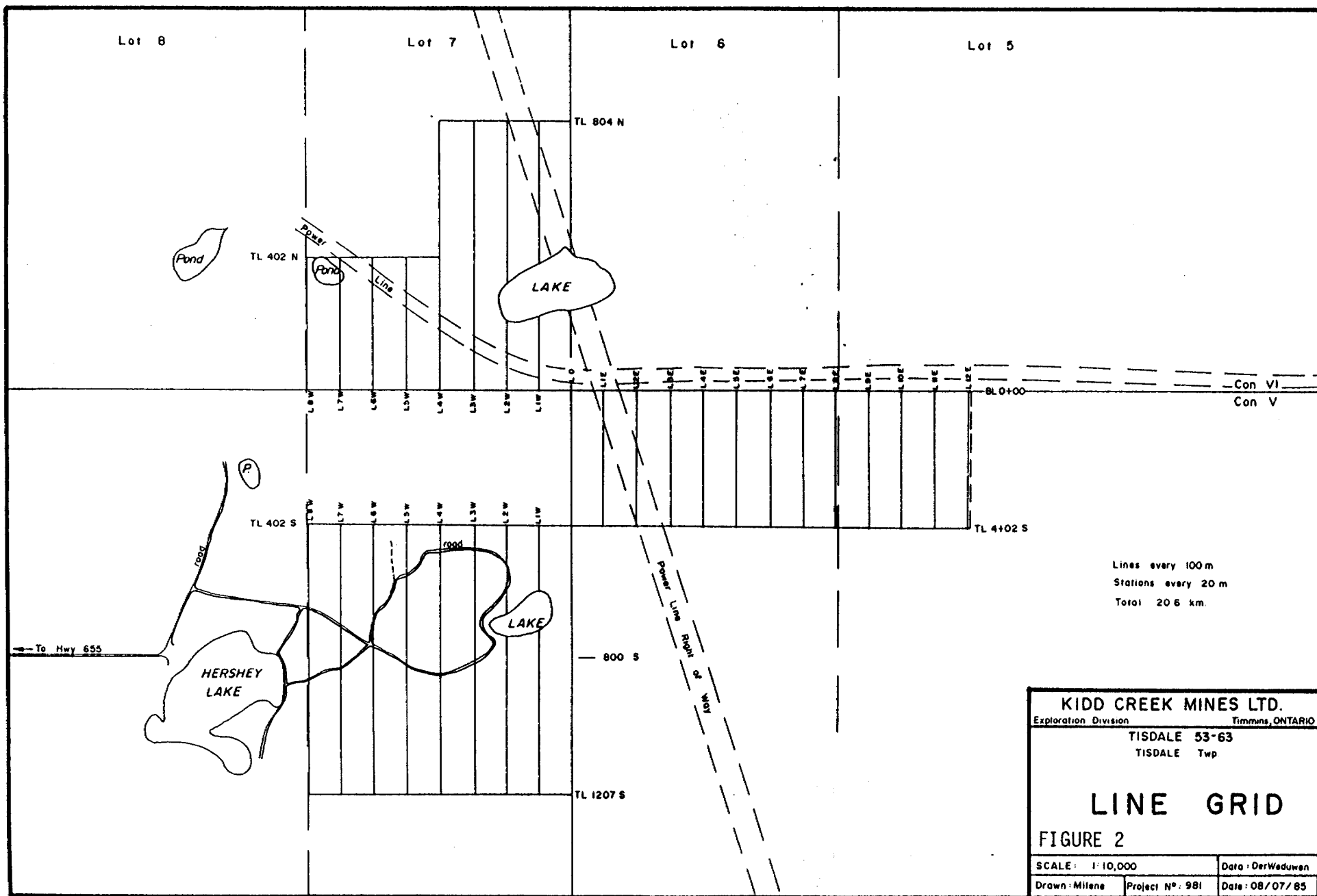
In 1964 Keevil Exploration ran a magnetic survey over the three northwest claims on the property. The source of a linear magnetic high, striking $N70^{\circ}E$ along the southern edge of these claims, was interpreted to be serpentinite. A horizontal loop EM survey was not completed because of interference from power lines.

In 1981 and 1982, Esso Minerals Canada carried out VLF-EM and magnetic surveys over the property, then held by Hollinger Argus. Northeast striking conductors and parallel zones of high magnetic susceptibility were defined.

An I.P. survey was also carried out in 1984 for Labrador Exploration on the three northwest claims. A zone characterized by high chargeability was detected on claim P-831694. It is reported that Inco had previously tested a coincident horizontal loop EM anomaly by drilling. The hole intersected a graphitic horizon in mafic volcanics.

SURVEY DESCRIPTIONS

North-south grid lines were cut every 100m and picketed every 20m (Figure 2). The 0+00 N, 0+00 E point on the grid is located at a survey post at the boundary between Lots 6 and 7, Concessions IV and V.



KIDD CREEK MINES LTD.	
Exploration Division	Timmins, ONTARIO
TISDALE 53-63 TISDALE Twp	
LINE GRID	
FIGURE 2	
SCALE: 1:10,000	Data: DerWaduwan
Drawn: Milene	Project N°: 981
Date: 08/07/85	

The horizontal loop EM survey was carried out with an Apex Parametrics Max Min I using a coil separation of 160m. The in-phase and quadrature components of the secondary field were measured as a percentage of the primary field. Readings were taken every 20m at frequencies of 444 and 1777 Hz. A total of 614 stations were sampled along 18 km of line.

The magnetic readings were taken with a Scintrex IGS-2/MP-4. This instrument is a proton precession magnetometer which measures the Earth's total magnetic field to an accuracy of $\pm .1$ grammas. The diurnal drift was monitored every 30 seconds with a Scintrex MP-3 base station magnetometer, located at 300 North on Line 500 West. A total of 881 readings were taken.

A Scintrex IGS-2/VLF-4 was used in the VLF-EM survey. Parameters measured include the horizontal field strength and in-phase and quadrature components of the vertical field, normalized to the horizontal field. The transmitter station used was Cutler Maine which transmits at a frequency of 24.0 kHz. The number of stations surveyed was 881.

RESULTS

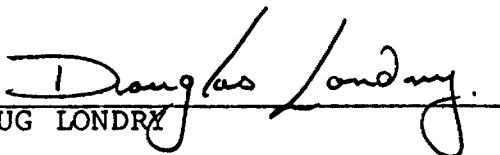
The results are plotted on plan maps at a scale of 1:5000.

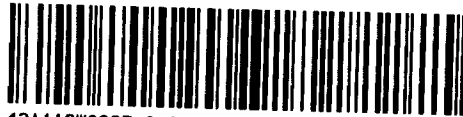
As in previous magnetic surveys, east northeast striking ultramafics (serpentinite) are outlined by high magnetic anomalies.

Weak conductors, detected in the VLF-EM survey, also strike east northeast. The stronger VLF anomalies have corresponding quadrature anomalies in the high frequency horizontal loop results. The poor conductivity thickness suggests that the source of the anomalies is likely surficial.

An I.P. survey should be carried out on Lines 300 and 400 West from 400 to 1200 South. This will test the VLF anomaly at 750 South. It may also help explain why the magnetic anomaly, over the lake to the east, ends at this point.

A definite bedrock conductor was detected on Line 400 West at 620 North. The width of the conductor is 20m and the conductivity thickness is 14 mhos; the dip cannot be determined because the anomaly is incomplete. This appears to be the graphitic horizon drilled by Inco.


DOUG LONDREY



42A11SW0235 2.8630 TISDALE

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KIDD CREEK MINES LTD.

GEOPHYSICAL REPORT

ON

TISDALE 41

N.T.S.: 42-A-11

PROJ. #981

RECEIVED

NOV 15 1985

MINING LANDS SECTION

OCTOBER, 1985

D. LONDRY

SUMMARY AND RECOMMENDATIONS

No bedrock conductors were detected in EM surveys carried out on the Tisdale 41 property. A magnetic survey outlined east northeast striking ultramafics.

An IP survey should be carried out to test for disseminated sulphides, which may be associated with gold mineralization, along the volcanic-ultramafic contacts.

TABL



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- MAP 2 VLF RESULTS (Back Pocket)
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- MAP 4 HEM RESULTS, 1777 Hz (Back Pocket)

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INTRODUCTION

During September 1985, Kidd Creek Mines Ltd. carried out magnetic, VLF-EM and horizontal loop EM surveys on their Tisdale 41 property. The property is located about 2 kilometres north of the City of Timmins in Lots 10, 11 and 12, Concession VI, Tisdale Township (Figure 1). It is bordered by McLean Drive to the west and by Highway 655 to the east.

The six claims are numbered as follows:

P-849485, P-849486

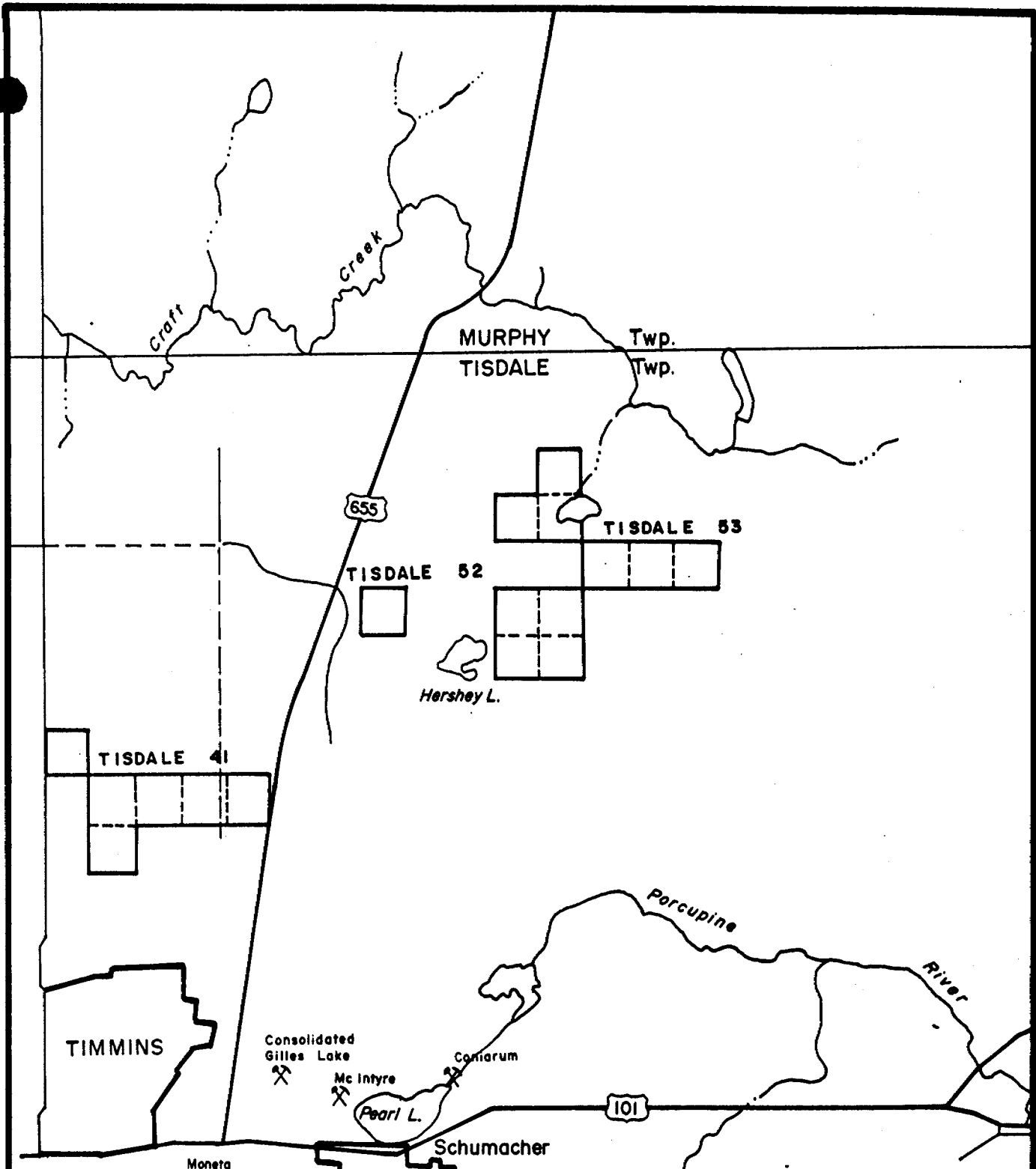
P-851802, P-851803

P-851880, P-851881

The field crew included R. Daigle, S. Olink and B. Keen.

PREVIOUS WORK

In 1981/82 Esso Minerals Canada ran magnetic and VLF-EM surveys on the property. High magnetic anomalies, striking northeast, were interpreted to reflect serpentinite. The source of VLF anomalies was interpreted to be conductive overburden.



TIMMINS

TISDALE 41

TISDALE 52

TISDALE 53

Hershey L.

Consolidated
Gilles Lake

Mc Intyre

Comarum

Pearl L.

Schumacher

Moneta

Hollinger

LEGEND

 PAST or PRODUCING MINE

KIDD CREEK MINES LTD.

Exploration Division

Timmins, ONTARIO

TISDALE Twp. CLAIMS
TISDALE Twp.

LOCATION MAP

SCALE: 1:50,000

Date:

Drawn: G & L

Project N°: 981

Date: 27/10/85

SURVEY DESCRIPTIONS

An east-west base line was established 400 metres south of the boundary between Concession V and VI. North-south grid lines were cut every 100 metres and picketed every 20 metres (Figure 2).

The horizontal loop EM survey was carried out with an Apex Parametrics Max Min I using a coil separation of 160 metres. The in-phase and quadrature components of the secondary field were measured as a percentage of the primary field. Readings were taken every 20 metres at frequencies of 444 and 1777 Hz. A total of 332 stations were sampled along 9.2 kilometres of line.

The magnetic readings were taken with a Scintrex IGS-2/MP-4. This instrument is a proton precession magnetometer which measures the Earth's total magnetic field to an accuracy of $\pm .1$ gammas. The diurnal drift was monitored every 30 seconds with a Scintrex MP-3 base station magnetometer located at 0 North on Line 200 West. A total of 488 readings were taken.

A Scintrex IGS-2/VLF-4 was used in the VLF-EM survey. Parameters measured include the horizontal field strength and in-phase and quadrature components of the vertical field, normalized to the horizontal field. The transmitter station used was Cutler Maine which transmits at

MOUNTJOY TWP.

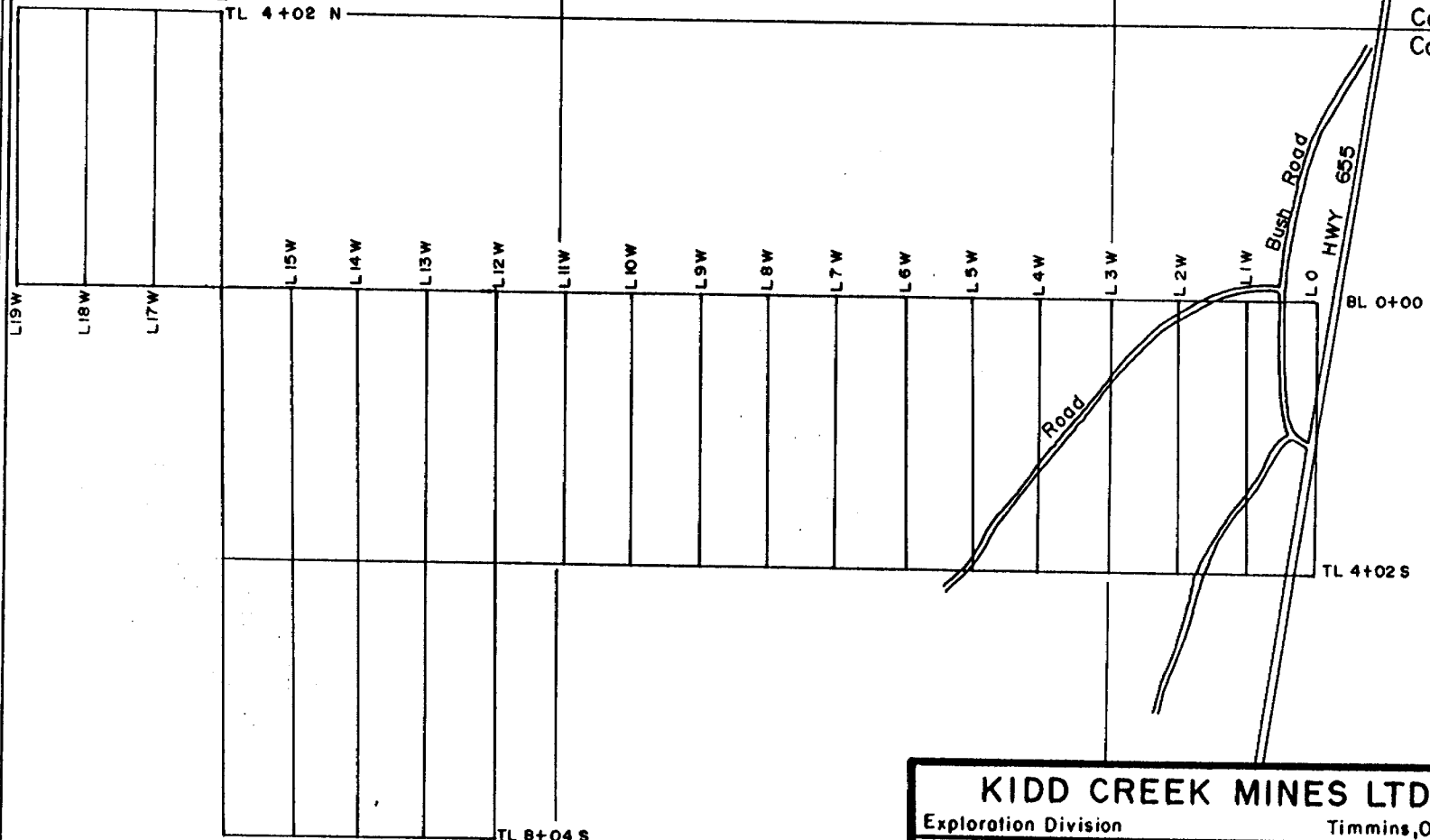
TISDALE TWP.

McLean Drive

Lot 12

Lot 11

Lot 10



Lines every 100 m
 Stations every 20m
 Total 14.4 km.



KIDD CREEK MINES LTD.		
Exploration Division		Timmins, ONTARIO
TISDALE 41 TISDALE Twp		
LINE GRID		
FIGURE 2		
SCALE: 1:10,000	Date: DerWeduwen	
Drawn: MG, DL	Project N°: 981	Date: 17/10/85

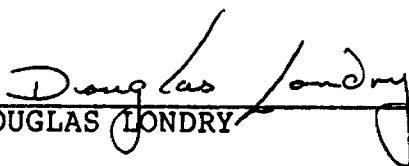
a frequency of 24.0 kHz. The number of stations surveyed was 488.

RESULTS

The results are plotted on maps 1 to 4 at a scale of 1:2000.

The magnetic field over the property is dominated by two east northeast striking magnetic highs. The source of these anomalies is believed to be serpentinite units.

No bedrock conductors were detected in the horizontal loop EM survey. The anomalous high readings on Line 1900 West are due to noise from the power line along McLean Drive. The source of VLF-EM anomalies on the property are most likely surficial.


DOUGLAS LONDROY



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900

Mining Lands Section

File No 2.8630

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

*leg
L.V.*

S. Hurst

Signature of Assessor

Nov 18/85

Date

append to # 319/85

D.L. 28630
412/85

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Dec 27

Mining Act

Type of Survey(s) Geophysical		Township or Area Tisdale Township	
Claim Holder(s) Kidd Creek Mines Ltd.		Prospector's Licence No. T-1848	
Address P. O. Box 1140, 571 Moneta Avenue, Timmins, Ontario, P4N 7H9			
Survey Company Kidd Creek Mines Ltd.	Date of Survey (from & to) 15 07 85 13 07 85		Total Miles of line Cut 30 km
Name and Address of Author (of Geo-Technical report) Doug Londry, P. O. Box 1140, 571 Moneta Avenue, Timmins, Ontario P4N 7H9			

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)		
Special Provisions	Geophysical	Days per Claim	Mining Claim		Expend. Days Cr.
			Prefix	Number	
For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	- Electromagnetic	20	P	825784	
	- Magnetometer			831692	
	- Radiometric			831693	
	- Other (VLF)			831694	
Man Days Complete reverse side and enter total(s) here	Geological			831839	
	Geochemical			831840	
	- Electromagnetic			831841	
	- Magnetometer			831842	
	- Radiometric			831843	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	- Other			849485	
	Geological			849486	
	Geochemical			851801	
	Electromagnetic			851802	
	Magnetometer			851803	
	Radiometric		851880		
			851881		

RECORDED
NOV - 6 - 1985

PORCUPINE MINING DIVISION
RECEIVED
NOV - 6 1985

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **17**

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
340	Nov. 6/85	<i>[Signature]</i>
	Date Approved as Recorded	Branch Director
	Nov. 12/85	<i>[Signature]</i>

Date: Nov. 6, 1985
Recorded Holder or Agent (Signature): *Douglas Londry*

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
Doug Londry, Kidd Creek Mines Ltd., P. O. Box 1140,
Timmins, Ontario

Date Certified: Nov. 6, 1985
Certified by (Signature): *Douglas Londry*



Ministry of
Natural
Resources

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

319/85
28630

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

new 6

Mining Act

Type of Survey(s) GEOPHYSICAL		Township or Area TISDALE TOWNSHIP	
Claim Holder(s) Kidd Creek Mines Ltd.		Prospector's Licence No. T-1848	
Address P. O. Box 1140, 571 Moneta Avenue, Timmins, Ontario P4N 7H9			
Survey Company Kidd Creek Mines Ltd.		Date of Survey (from & to) 15 07 85 13 07 85 Day Mo. Yr. Day Mo. Yr.	Total Miles of line Cut 30 km
Name and Address of Author (of Geo-Technical report) Doug Londry, P. O. Box 1140, 571 Moneta Avenue, Timmins, Ontario P4N 7H9			

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	825784				
	831692				
	831693				
	831694				
	831839				
	831840				
	831841				
	831842				
	831843				
	831844				
	849485				
	849486				
	851801				
	851802				
	851803				
	851880				
	851881				

RECORDED
SEP 17 1985

FORCUPINE MINING DIVISION
RECEIVED
SEP 17 1985

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **17**

Date **Sept. 17, 1985** Recorded Holder or Agent (Signature) *Douglas Londry*

For Office Use Only

Total Days Cr. Recorded **1020** Date Recorded **Sept 17/85** Mining Director *[Signature]*

Date Approved as Recorded **85-11-21** Branch Director *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
Doug Londry, P. O. Box 1140, 571 Moneta Avenue, Timmins, Ontario P4N 7H9

Date Certified **Sept. 17, 1985** Certified by (Signature) *Douglas Londry*

REGISTERED

November 6, 1985

Report Of Work #319

Kidd Creek Mines Ltd
P.O. Box 1140
571 Moneta Avenue
Timmins, Ontario
P4N 7H9

Dear Sir:

RE: Mining Claims P 825784, et al,
in Tisdale Township

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

As the assessment "Report of Work" was recorded by the Mining Recorder on September 17, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on November 16, 1985.

If the material is not submitted to this office by November 16, 1985 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

AB/mc

cc: Doug Londry
P.O. Box 1140
571 Moneta Avenue
Timmins, Ontario

Mining Recorder
Timmins, Ontario

Encl. P4N 7H9

Kidd Creek Mines Ltd.

Box 1140
571 Moneta Avenue.
Timmins, Ontario P4N 7H9
(705) 267-1188

Exploration Division

November 14, 1985

Mr. Fred Matthews
Director, Land Management Branch
Whitney Block, Room 6450
Queen's Park
TORONTO, Ontario
M7A 1W3

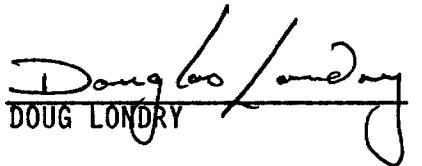
Dear Sir:

Re: TISDALE TOWNSHIP

Enclosed please find duplicate copies of a report and maps covering claims in Tisdale Township. The claims aforementioned are P-825784 et al.

Your prompt attention to this matter would be greatly appreciated.

Yours truly,


DOUG LONDY

DL/pp
Encls.

Kidd



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
Township or Area Tisdale
Claim Holder(s) Kidd Creek Mines Ltd.
P.O. Box 1140, Timmins Ontario
Survey Company Kidd Creek Mines Ltd.
Author of Report D. Londry
Address of Author P.O. Box 1140, Timmins Ontario
Covering Dates of Survey July 15, 1985 - November 10, 1985
(linecutting to office)
Total Miles of Line Cut 20 Km

MINING CLAIMS TRAVERSED
List numerically

P 851801 ✓
(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	40
--Magnetometer	20
--Radiometric	
--Other (VLF)	20
Geological	
Geochemical	

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

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

DATE: Nov. 14/85 SIGNATURE: Douglas Londry
Author of Report or Agent

Res. Geol. _____ Qualifications 22289

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 1

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

HL : 65

Number of Stations 103 Number of Readings MAG/VLF : 103
Station interval 20m Line spacing 100m
Profile scale VLF: 1 cm = 10^0 HL: 1 cm = 10%
Contour interval 50 gammas

MAGNETIC

Instrument Scintrex 1GS-2/MP4
Accuracy - Scale constant + .1 gamma
Diurnal correction method Scintrex MP-3 Base Station Magnetometer
Base Station check-in interval (hours) 30 seconds
Base Station location and value 60 North, Line 0 West
58971 gammas

ELECTROMAGNETIC

Instrument Apex Parametrics Max Min I
Coil configuration Horizontal Loop
Coil separation 160m
Accuracy +
- 1%
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency 444 and 1777 Hz
Parameters measured In-phase and quadrature components of secondary field measured as a percentage of the primary 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 _____ VLF - EM

Instrument _____ Scintrex 1GS-2/VLF-4

Accuracy _____ - 1%

Parameters measured _____ horizontal field strength and in-phase and quadrature components of vertical field.

Additional information (for understanding results) _____ METHOD: Fixed transmitter

TRANSMITTED STATION: Cutler, Maine

FREQUENCY: 24.0 KHz.

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

GEOPHYSICAL TECHNICAL DATA

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

HL: 332

Number of Stations 488 Number of Readings MAG/VLF: 488
Station interval 20m Line spacing 100m
Profile scale VLF: 1 cm = 10° HL: 1 cm = 10%
Contour interval 100 gammas

MAGNETIC

Instrument Scintrex 1GS-2/MP-4
Accuracy - Scale constant + .1 gamma
Diurnal correction method Scintrex MP-3 Base Station Magnetometer
Base Station check-in interval (hours) 0 North, Line 200 West
Base Station location and value 58871 Gammas

ELECTROMAGNETIC

Instrument Apex Parametrics Max Min I
Coil configuration Horizontal Loop
Coil separation 120m
Accuracy + 1%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 444 and 1777 Hz
(specify V.L.F. station)
Parameters measured In-Phase and quadrature components of secondary field
measured as a percentage of primary 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 _____ VLF - EM

Instrument _____ Scintrex 1GS-2/VLF-4

Accuracy _____ + 1%
- 1%

Parameters measured _____ Horizontal field strength and in-phase quadrature components
of vertical field

Additional information (for understanding results) _____ METHOD: Fixed transmitter

TRANSMITTER STATION: Cutler, Maine

FREQUENCY: 24.0 KHz.

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 _____



**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
 Township or Area Tisdale Township
 Claim Holder(s) Kidd Creek Mines Ltd.
P.O. Box 1140, Timmins Ontario
 Survey Company Kidd Creek Mines Ltd.
 Author of Report D. Londry
 Address of Author P.O. Box 1140, Timmins, Ontario
 Covering Dates of Survey July 15, 1985 - November 10, 1985
 (linecutting to office)
 Total Miles of Line Cut 18 Km

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P	825784 ✓
P	831692 ✓
P	831693 ✓
P	831694 ✓
P	831839 ✓
P	831840 ✓
P	831841 ✓
P	831842 ✓
P	831843 ✓
P	831844 ✓

If space insufficient, attach list

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	<u> </u>
--Other (VLF)	<u>20</u>
Geological	<u> </u>
Geochemical	<u> </u>

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Nov. 14/85 SIGNATURE: *D. Londry*
Author of Report or Agent

Res. Geol. Qualifications

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 10

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

HL : 614

Number of Stations 881 Number of Readings MAG/VLF : 881
Station interval 20m Line spacing 100m
Profile scale VLF: 1 cm = 20 degrees HL: 1 cm = 20%
Contour interval 200 gammas

MAGNETIC

Instrument Scintrex 1GS-2/MP-4
Accuracy - Scale constant + .1 gamma
Diurnal correction method Scintrex MP-3 Base Station Magnetometer
Base Station check-in interval (hours) 30 seconds
Base Station location and value 300 North, Line 500 West
58660 gammas

ELECTROMAGNETIC

Instrument Apex Parametrics Max Min I
Coil configuration Horizontal Loop
Coil separation 160 Metres
Accuracy + 1%
Method: [] Fixed transmitter [] Shoot back [x] In line [] Parallel line
Frequency 444 and 1777 Hz (specify V.L.F. station)
Parameters measured In-Phase and quadrature components of secondary field
measured as a percentage of primary 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 _____ VLF - EM

Instrument _____ Scintrex 1GS-2/VLF-4

Accuracy _____ +
- 1%

Parameters measured _____ Horizontal field strength and in-phase quadrature
components of vertical field.

Additional information (for understanding results) _____ METHOD: Fixed transmitter

TRANSMITTER STATION: Cutler, Maine

FREQUENCY: 24.0 KHz.

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

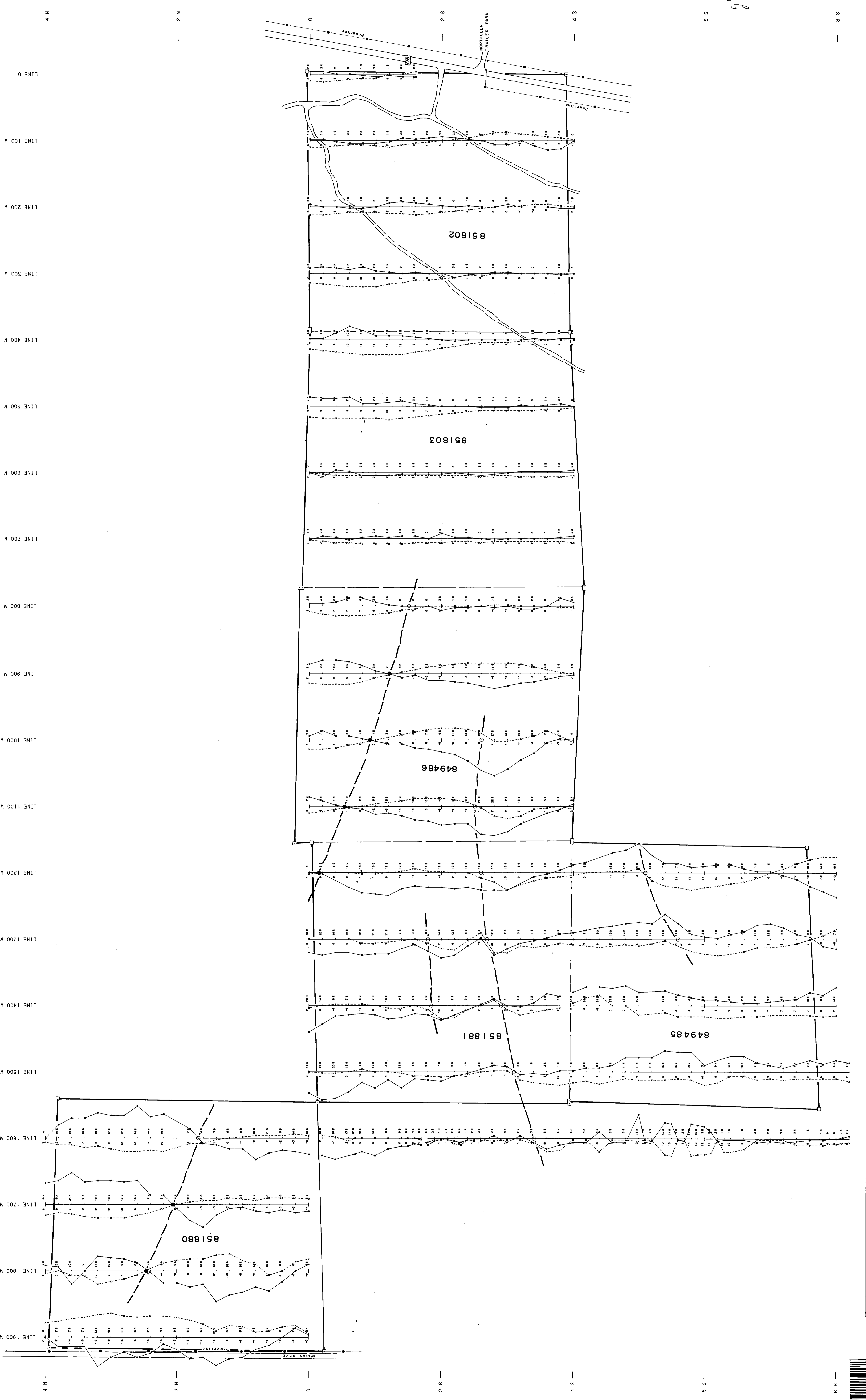
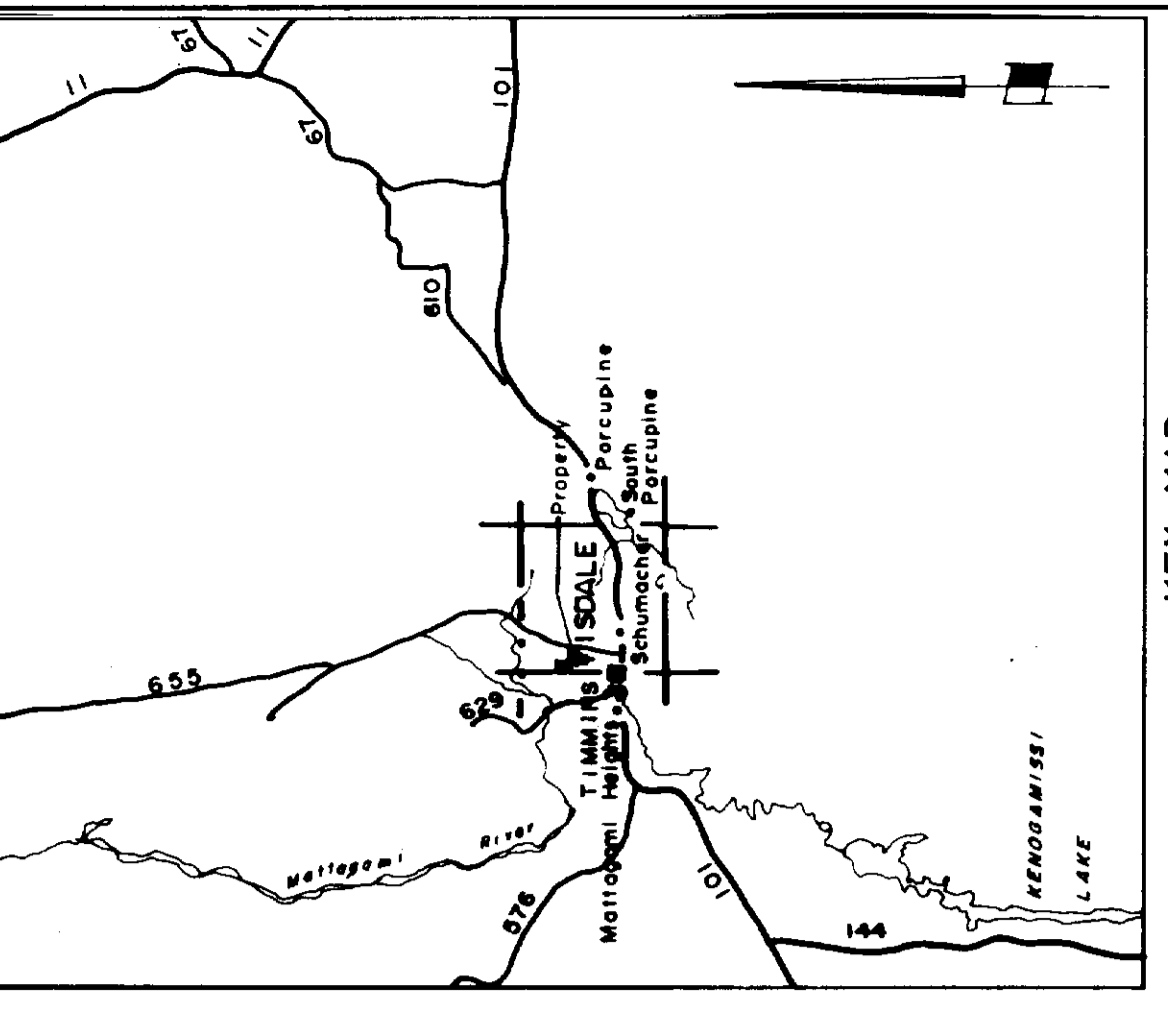
Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

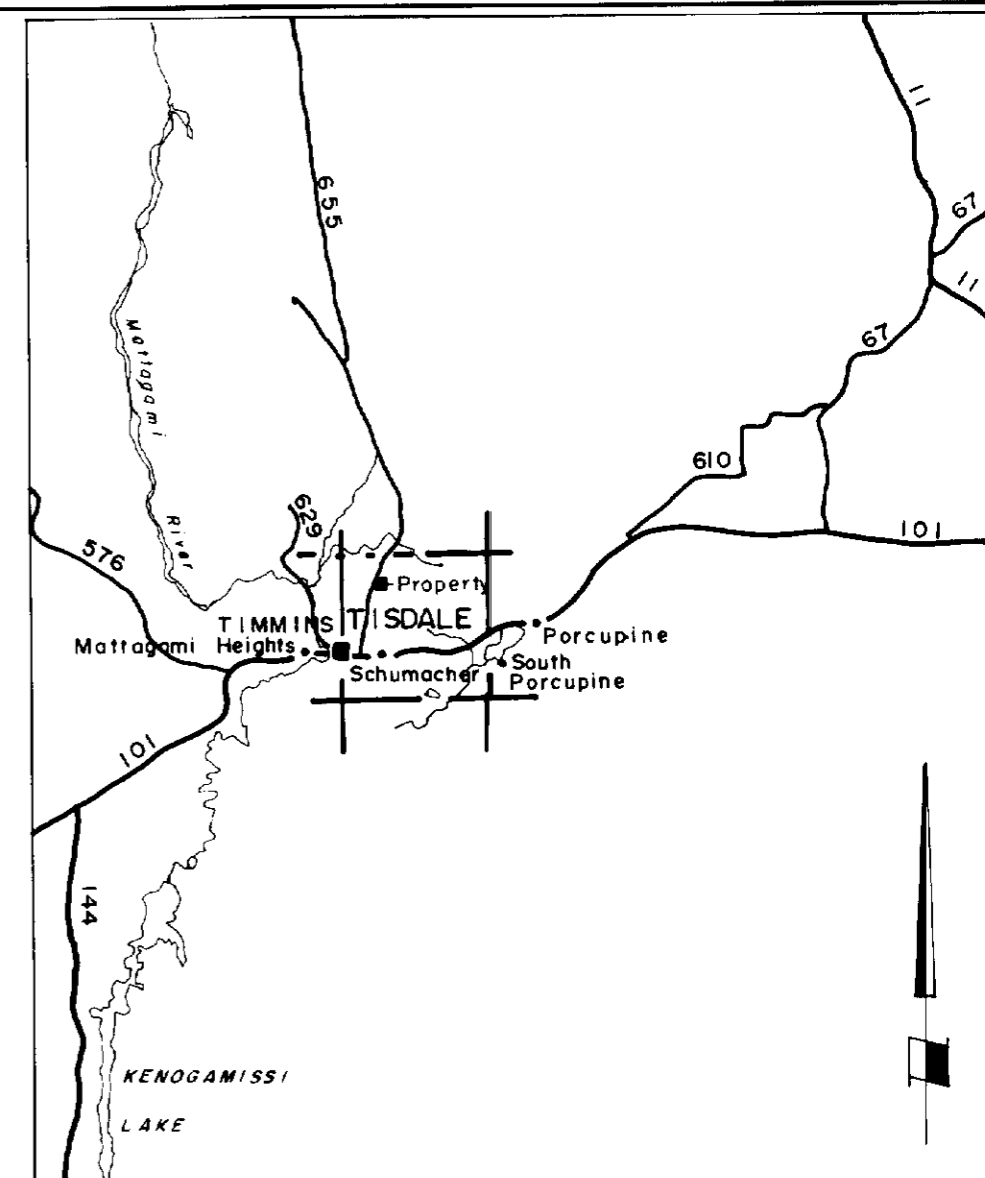
General _____



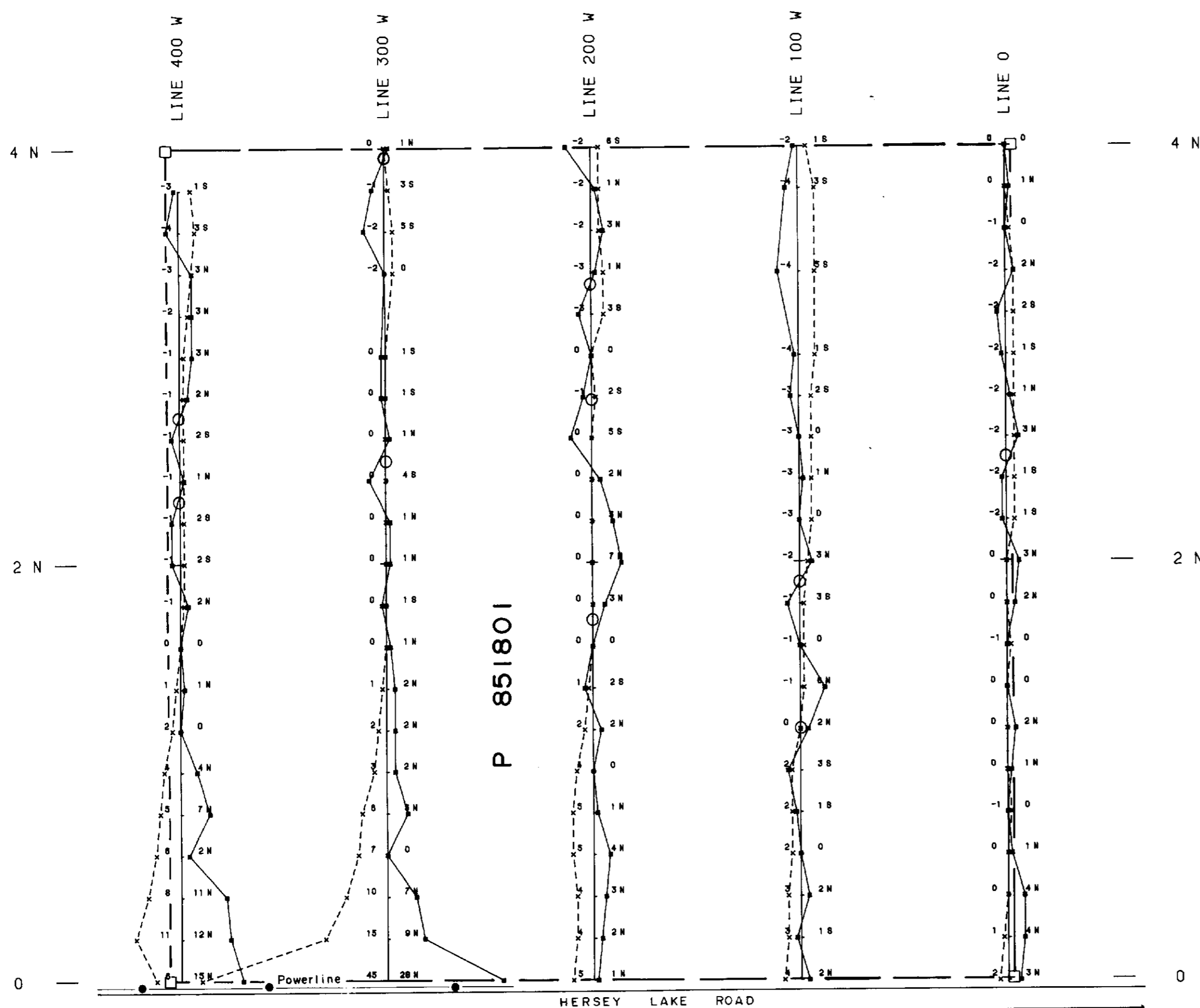
LEGEND
 INSTRUMENT * SCINTREX 16S-2/VLF-4
 STATION * CUTLER, 24.0 KHZ
 PROFILE SCALE * DIP ANGLE 1 CM= 10
 FIELD STRENGTH (VERT. QUADRATURE)
 DIP ANGLE (DEGREES)
 N DIPS
 S DIPS
 METRES (1:12000)
 0 40 80 120 160 200

KIDD CREEK MINES LTD.
 V L F SURVEY
 TISDALE GOLD
 TISDALE 41
 PROJ. #981
 NTS#42-A-06
 DATE 1985
 FILE NAME 8518D41-VLF

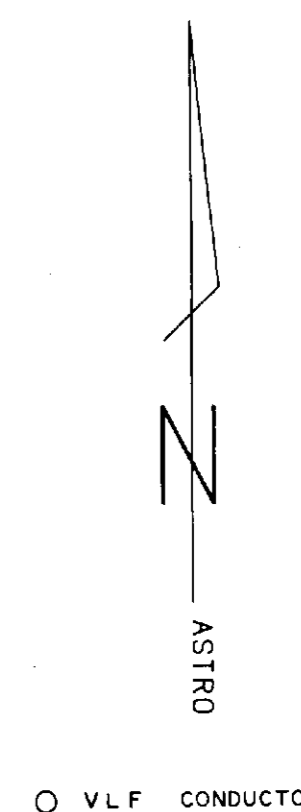
Lot 9 Lot 8



KEY MAP SCALE 1 : 506,880



2830

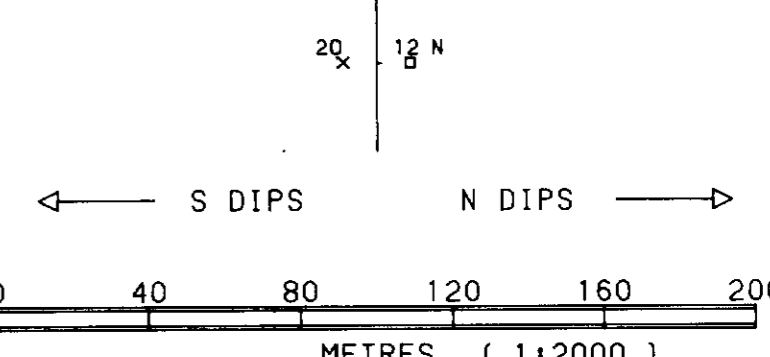


LEGEND

INSTRUMENT : SCINTREX IGS-2/VLF-4
 STATION : CUTLER, 24.0 KHz
 PROFILE SCALE : DIP ANGLE 1 CM= 10

FIELD STRENGTH (VERT. QUADRATURE) DIP ANGLE (DEGREES)

N 1/2 Con V
 S 1/2 Con IV



KIDD CREEK MINES LTD.

V L F SURVEY
 TISDALE GOLD
 TISDALE 52

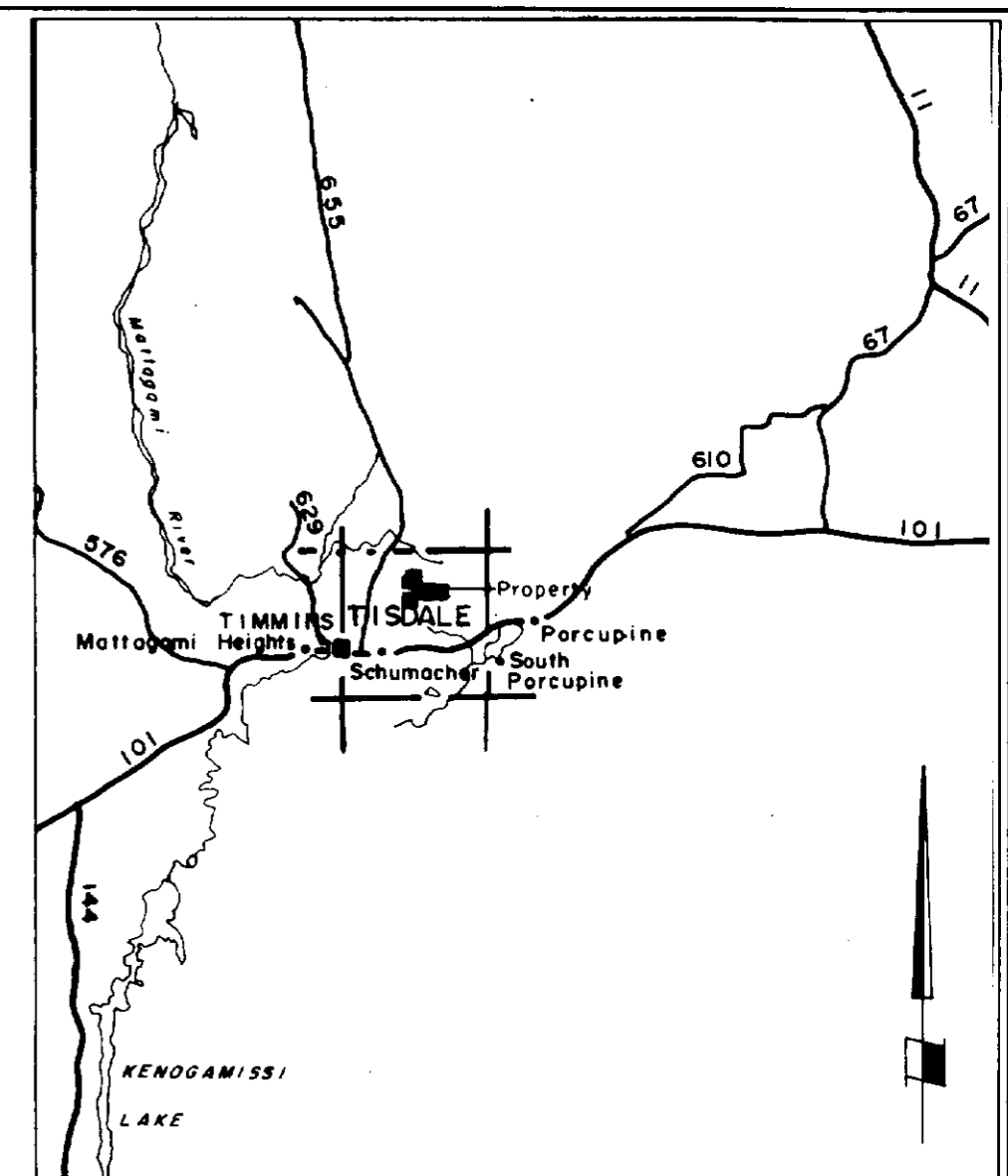
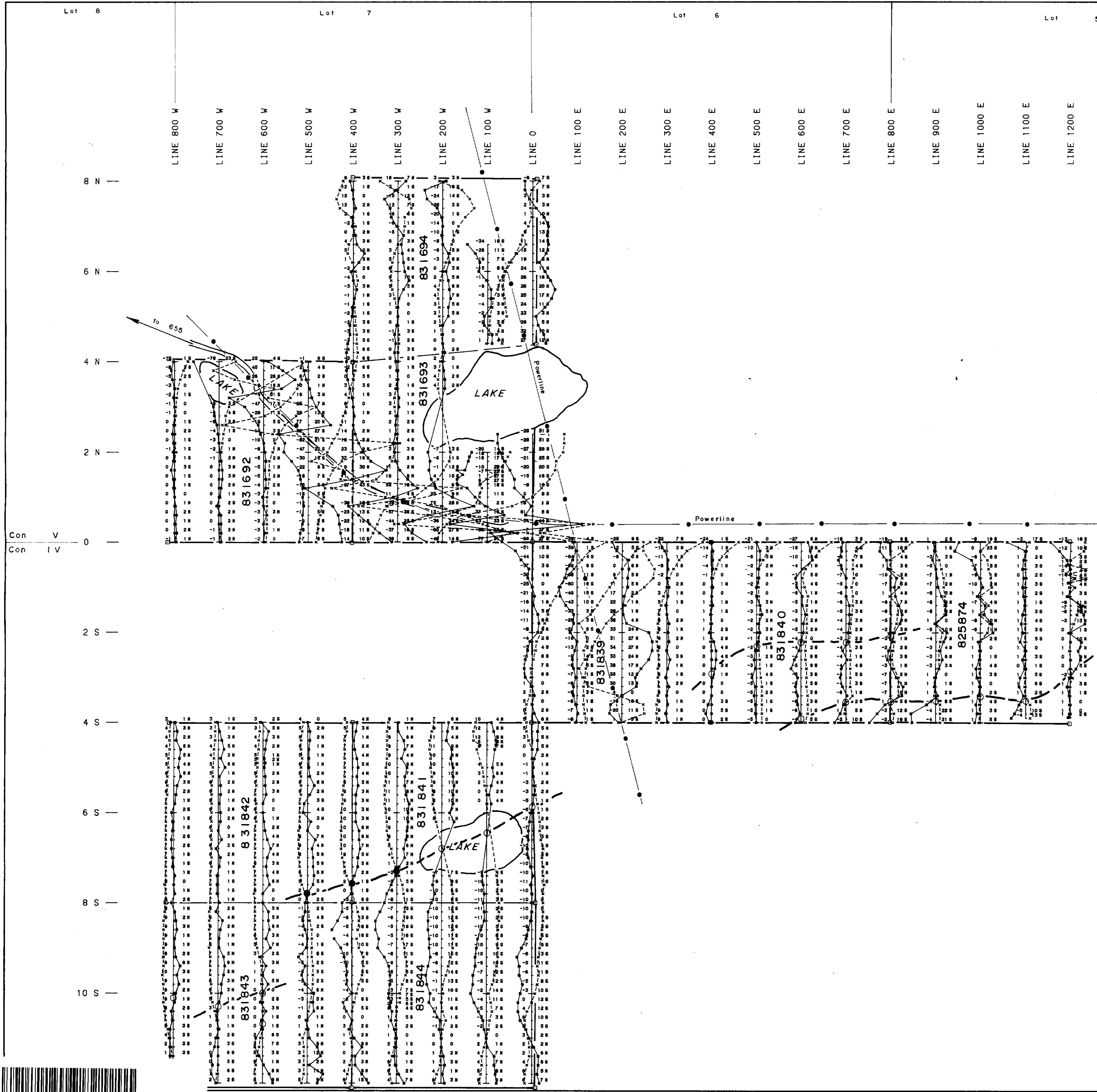
NTS:42-A-06

PROJ. #981

WORK BY <i>Douglas/Day</i>	DATE 1985	FILE NAME 85TISD52.VLF
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42A115W0235 2.8638 TISDALE



KEY MAP SCALE 1 : 506,880

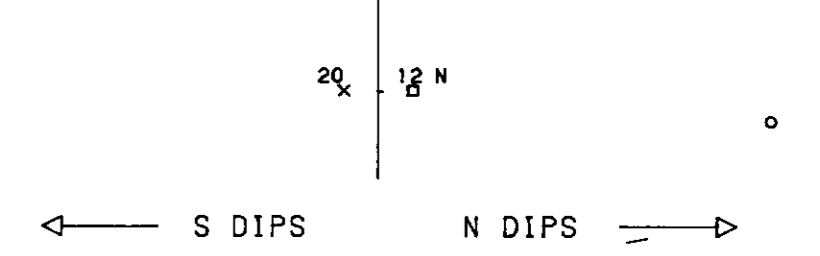


CONDUCTOR AXIS

LEGEND

INSTRUMENT : SCINTREX IGS-2/VLF-4
 STATION : CUTLER, 24.0 KHz
 PROFILE SCALE : DIP ANGLE 1 CM= 20

FIELD STRENGTH (VERT. QUADRATURE) DIP ANGLE (DEGREES)



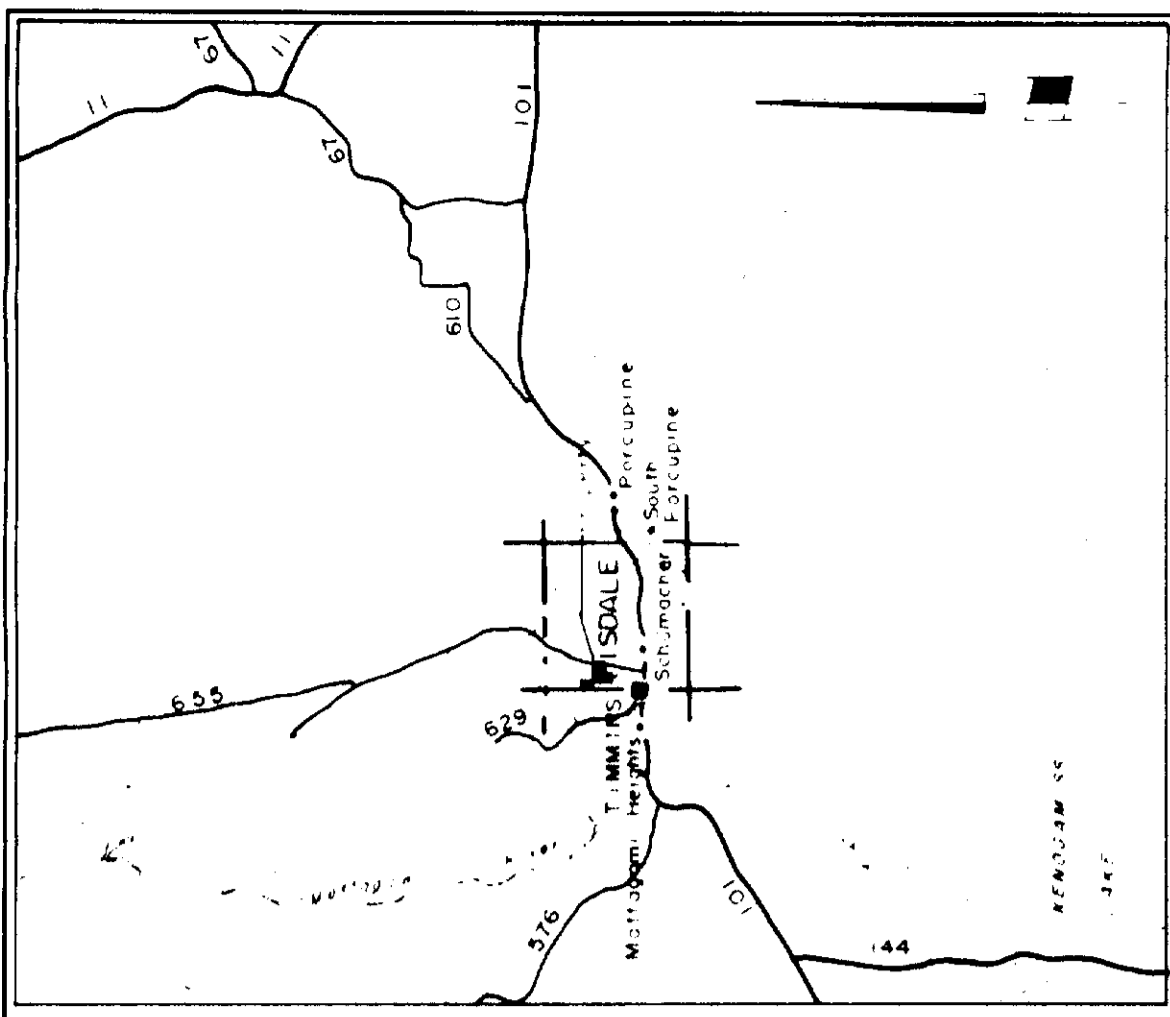
KIDD CREEK MINES LTD.

V L F SURVEY
 TISDALE GOLD
 TISDALE 53-63

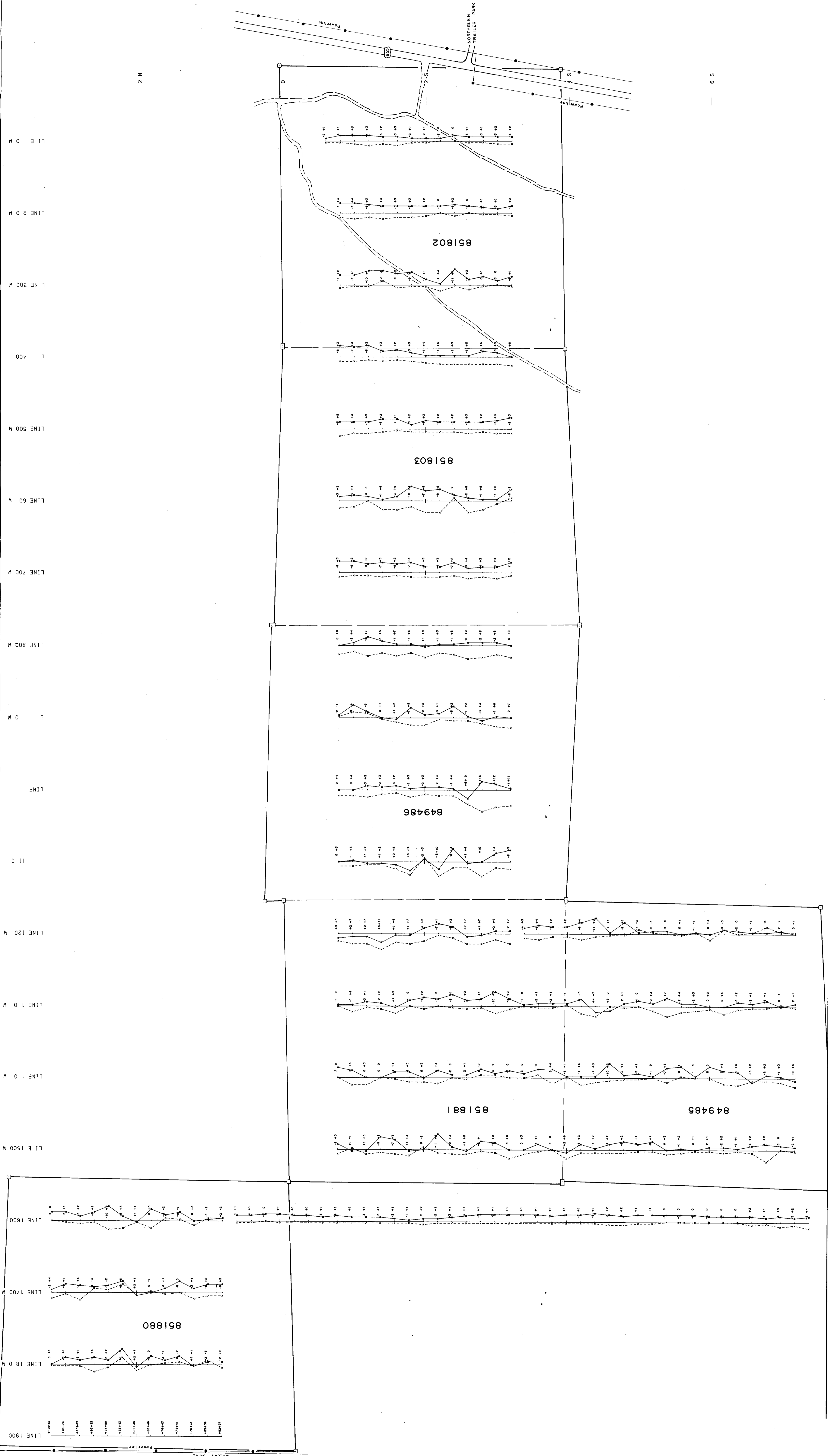
NTS:42-A-06 PROJ. #981

WORK BY	DATE	FILE NAME
<i>Douglas</i>	1985	85TISD53.VLF





KEY MAP SCALE 1:500,000

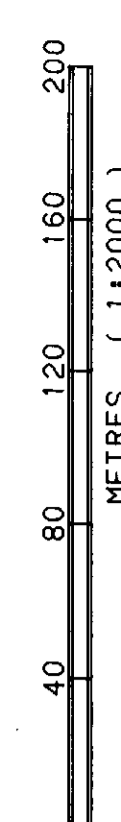


LEGEND

INSTRUMENT - APEX PARAMETRICS MAXMIN I
 WAVELENGTH - 444.76
 PULSE SPACING - 120 METRES
 PROFILE SCALE - 1 CM=10%

444 HZ
 IN-PHASE READINGS
 QUADRATURE READINGS

+ READINGS
 - READINGS

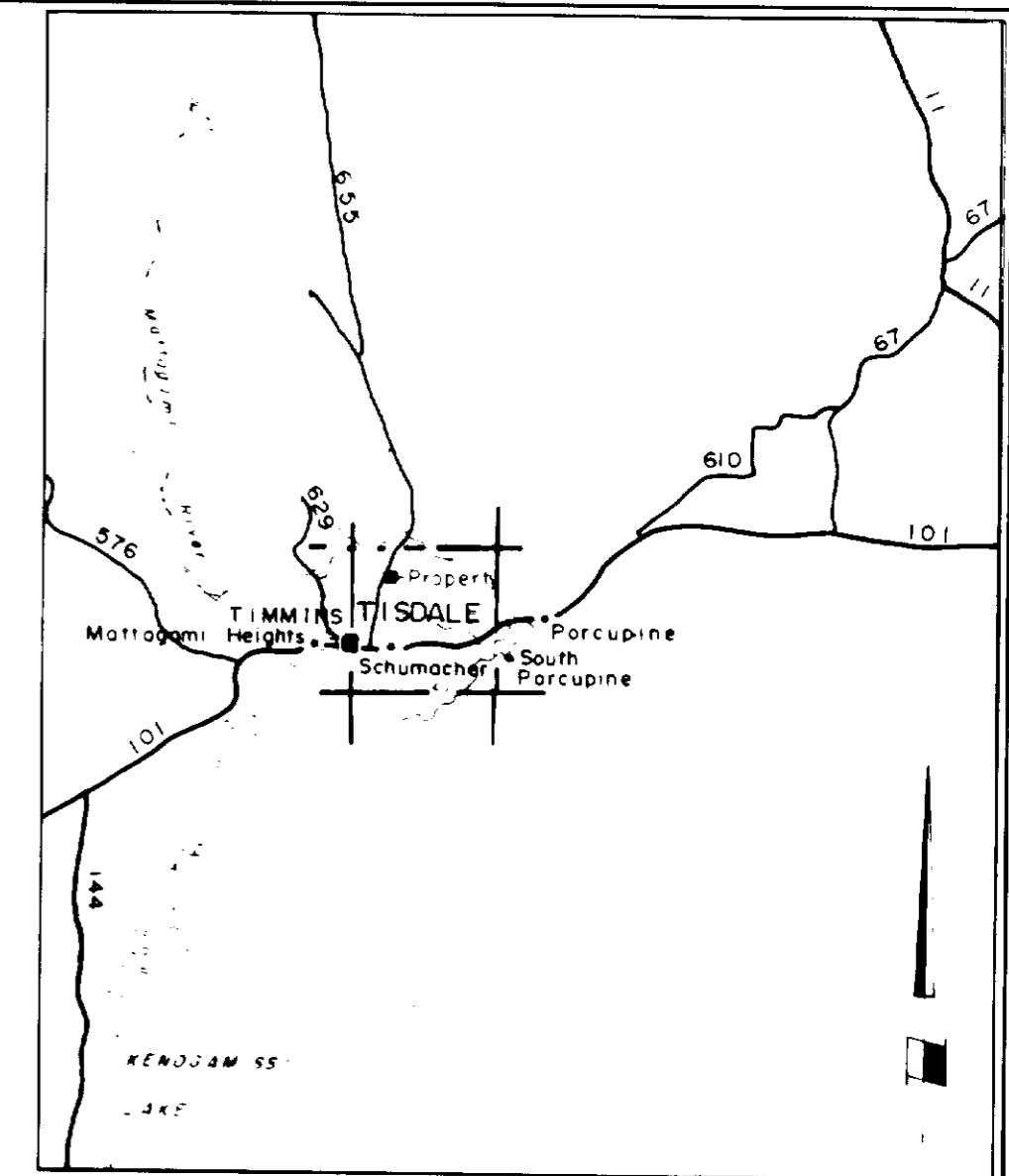


KIDD CREEK MINES LTD.
 HORIZONTAL LOOP SURVEY
 TISDALE GOLD
 TISDALE 41
 NTS142-A-06 PROJ. #981

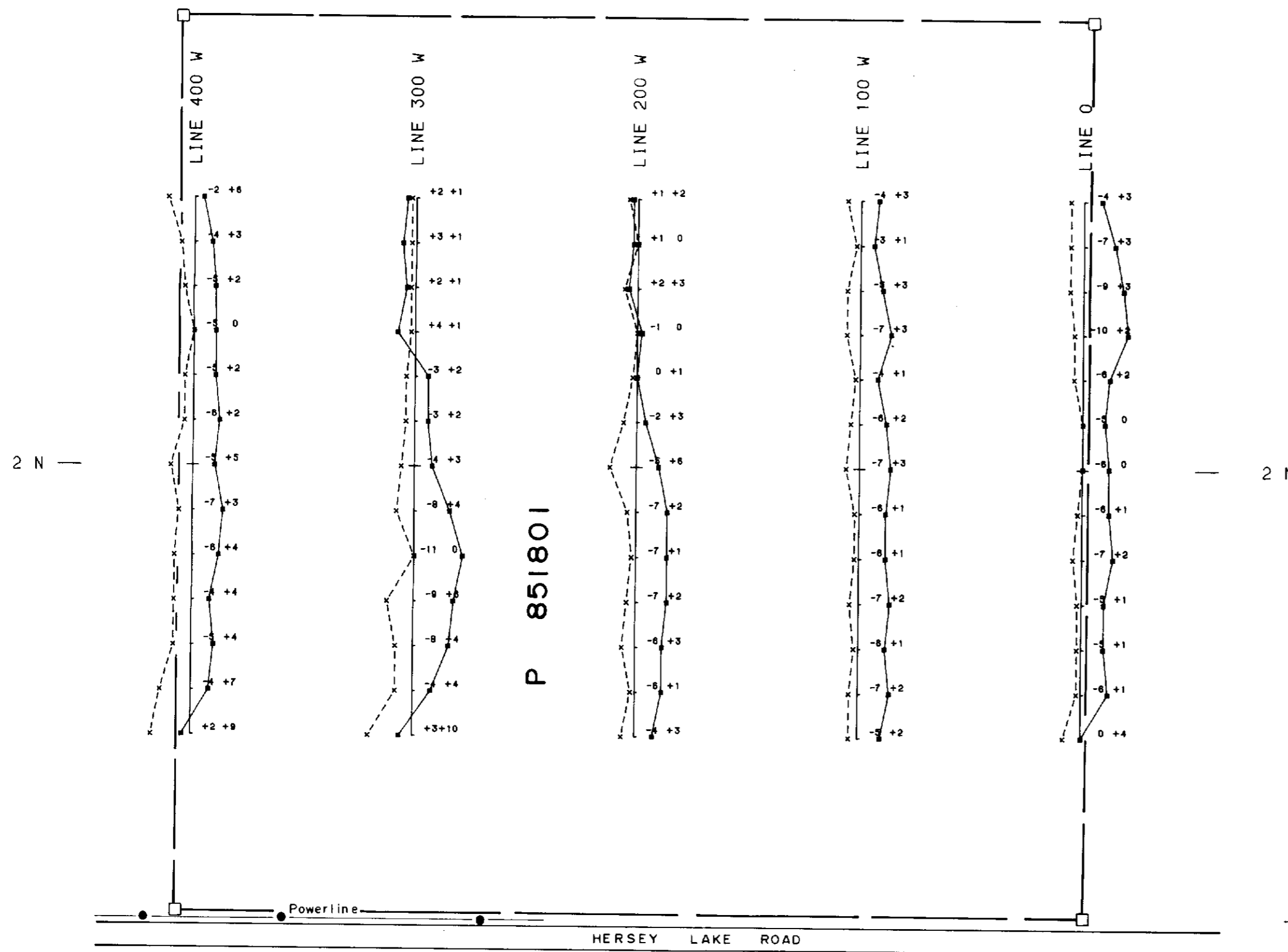
DATE 1985
 FILE NAME 85115041.HL



Lot 9 Lot 8



KEY MAP SCALE 1 : 506,880



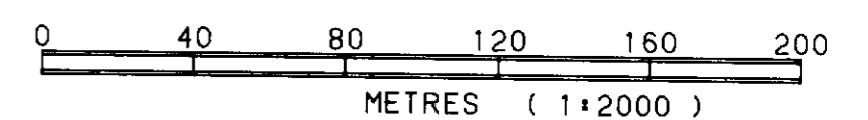
LEGEND

INSTRUMENT : APEX PARAMETRICS MAXMIN I
FREQUENCY : 444 Hz
COIL SPACING : 160 METRES
PROFILE SCALE : 1 CM = 10%

444 Hz
IN-PHASE READINGS

QUADRATURE READINGS

← + READINGS - READINGS →



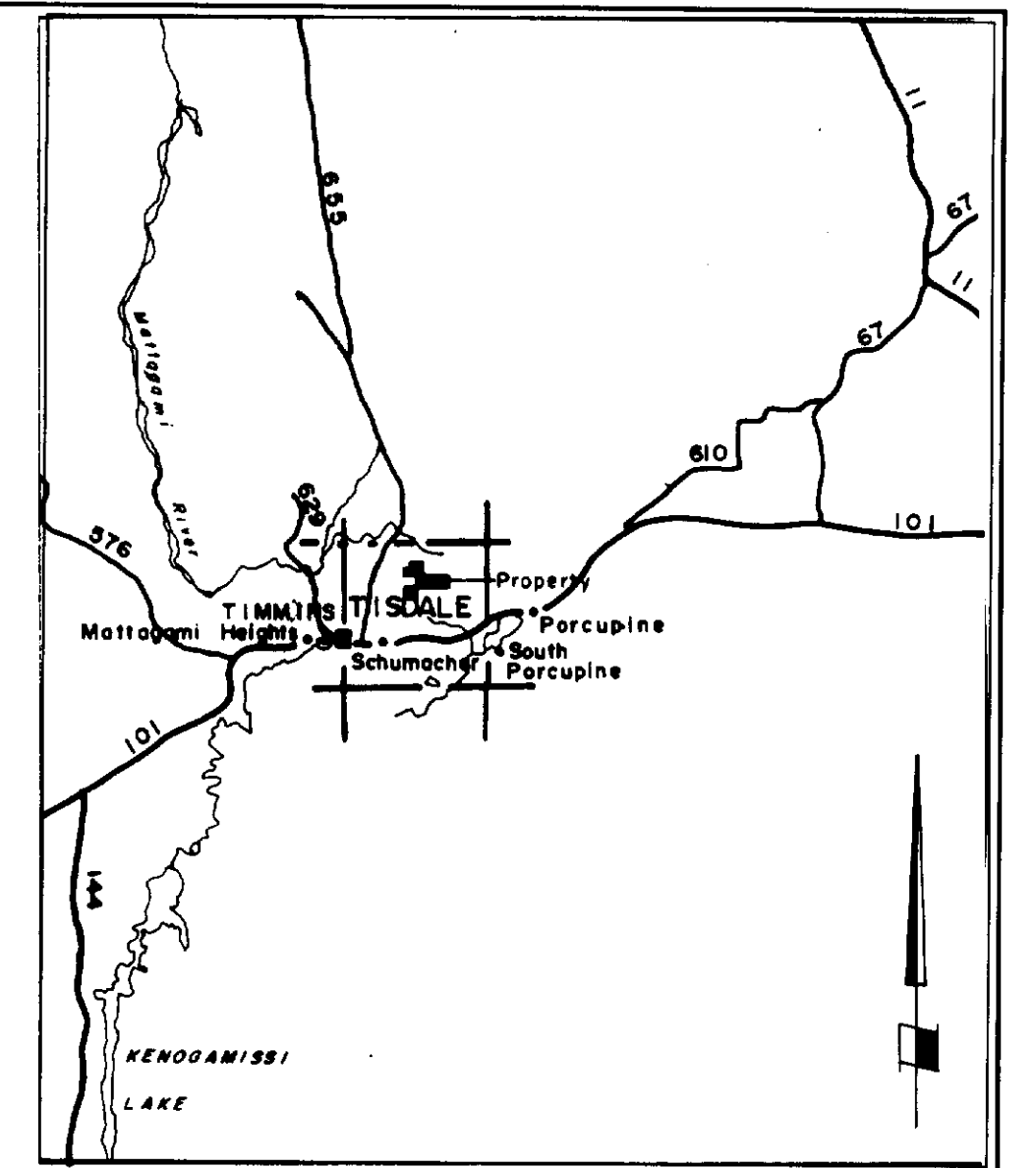
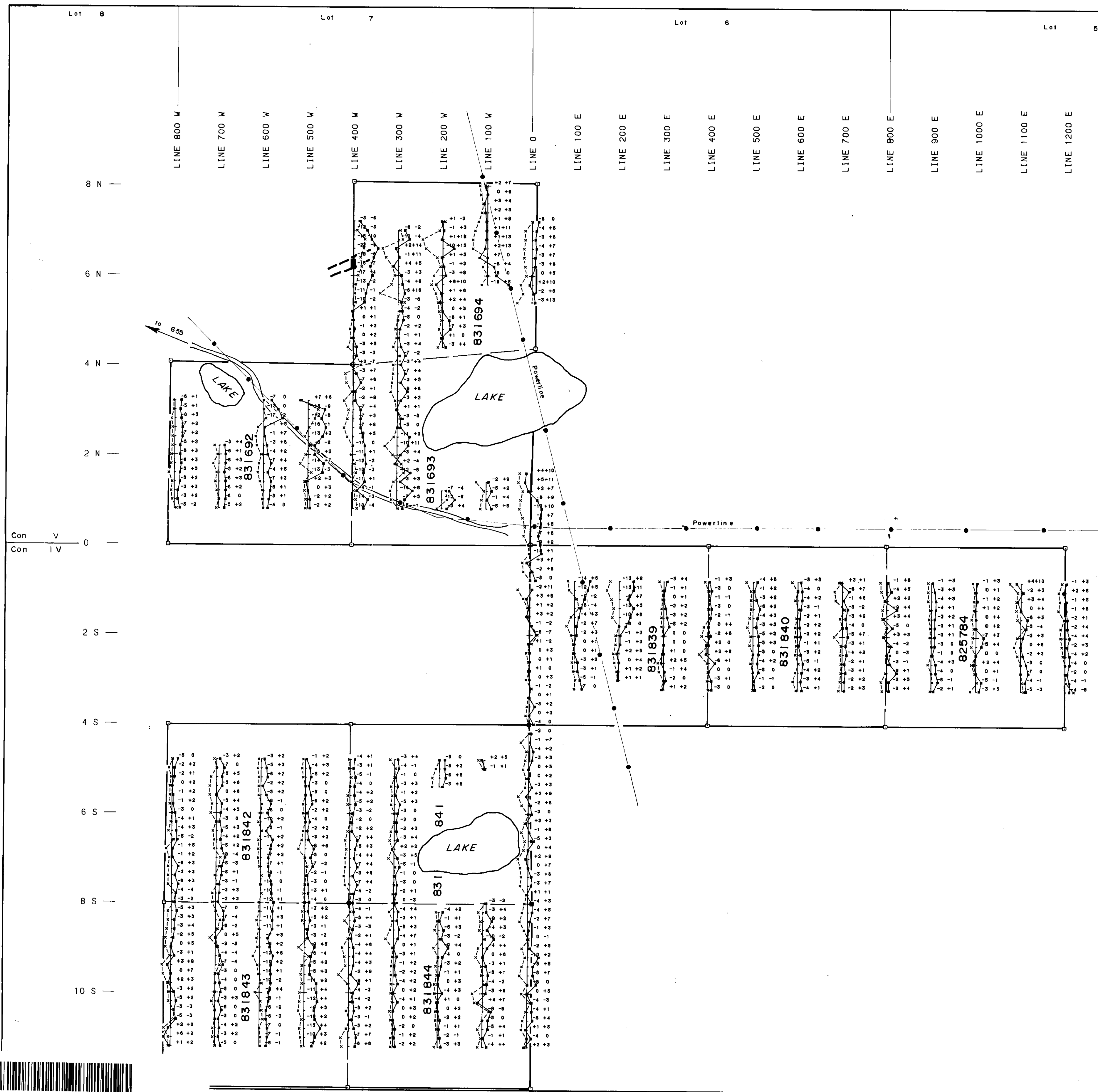
KIDD CREEK MINES LTD.
HORIZONTAL LOOP SURVEY
TISDALE GOLD
TISDALE 52

NTS: 42-A/06

PROJ#981

WORK BY	DATE	FILE NAME
Douglas Lowry	1985	85TISD52.HL

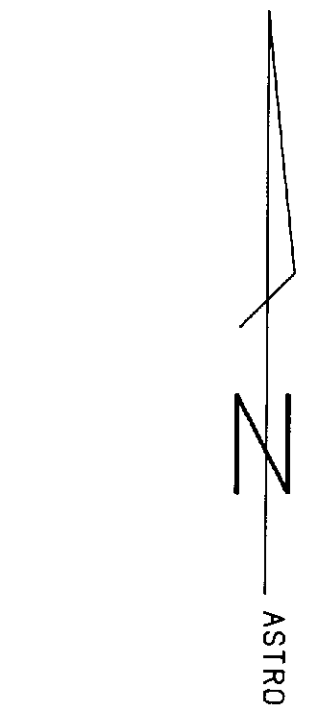




KEY MAP SCALE 1 : 506,880

Con V
Con IV

Con V
Con IV

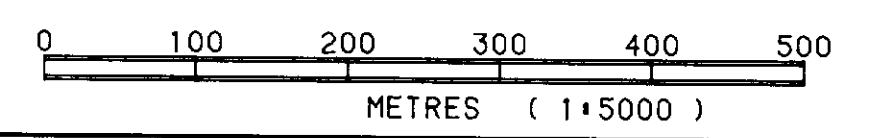
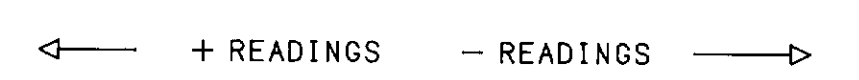
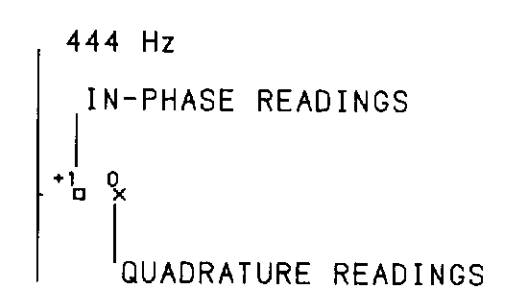


CONDUCTOR

LEGEND

INSTRUMENT : APEX PARAMETRICS MAXMIN I
 FREQUENCY : 444 Hz
 COIL SPACING : 160 METRES
 PROFILE SCALE : 1 CM = 20%

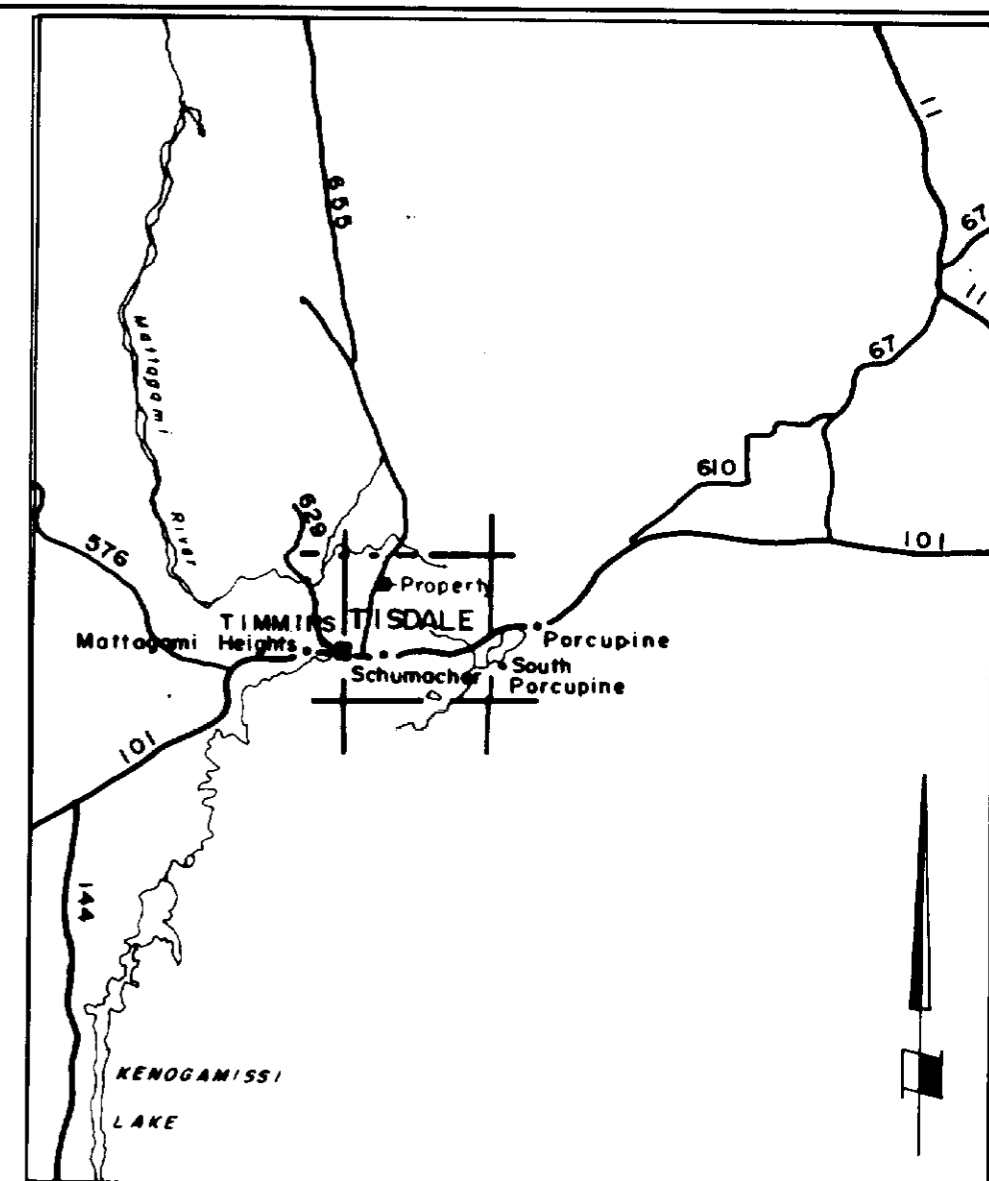
28630



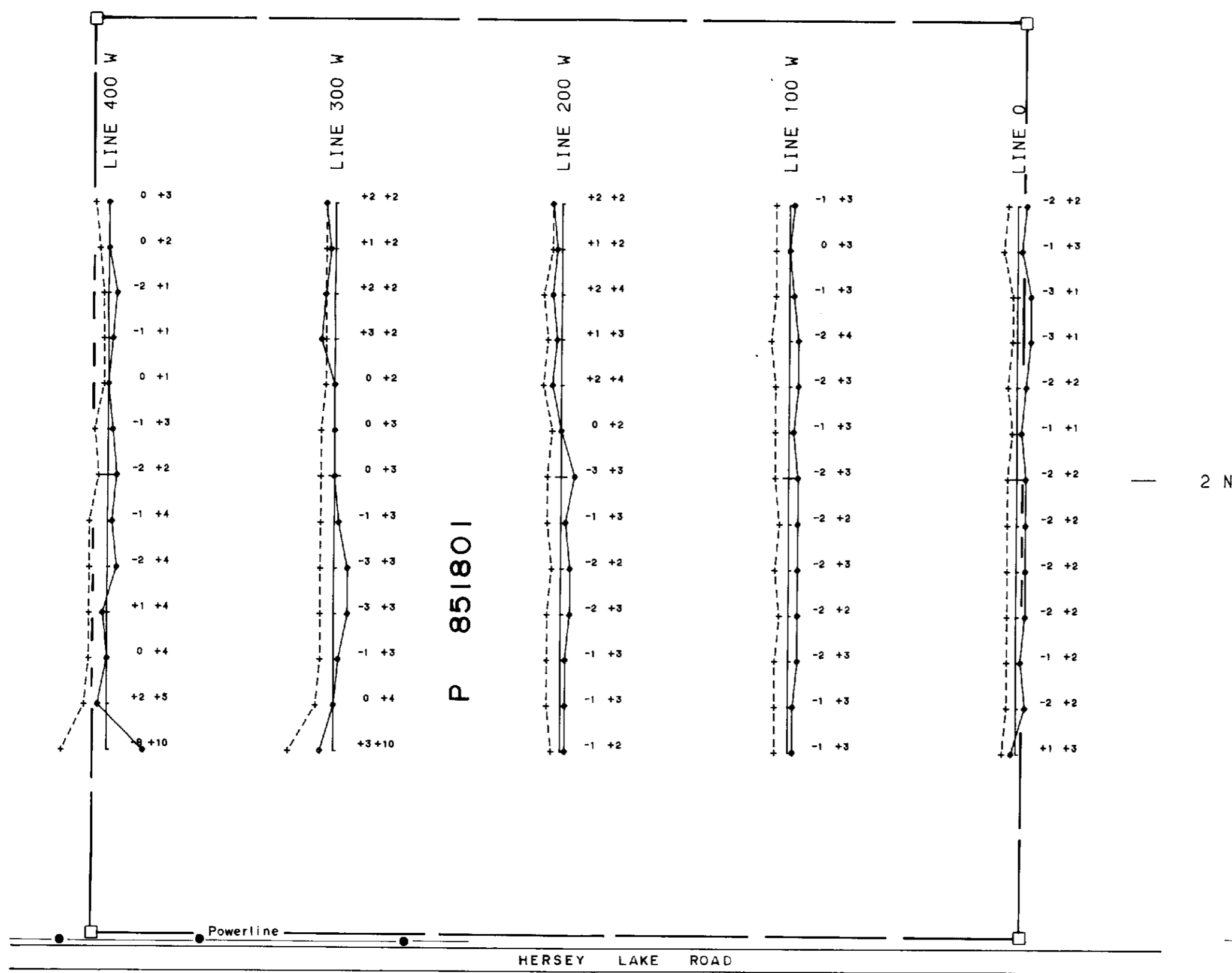
KIDD CREEK MINES LTD.		
HORIZONTAL LOOP SURVEY		
TISDALE GOLD		
TISDALE 53-63		
NTS:42-A/06	PROJ#981	
WORK BY <i>Dayle Lundy</i>	DATE 1985	FILE NAME 85TISD53.HL



Lot 9 Lot 8



KEY MAP SCALE 1 : 506,880



LEGEND

INSTRUMENT : APEX PARAMETRICS MAXMIN I
 FREQUENCY : 1777 Hz
 COIL SPACING : 160 METRES
 PROFILE SCALE : 1 CM = 10%

1777 Hz

IN-PHASE READINGS



QUADRATURE READINGS

N 1/2 Con V
 S 1/2 Con IV

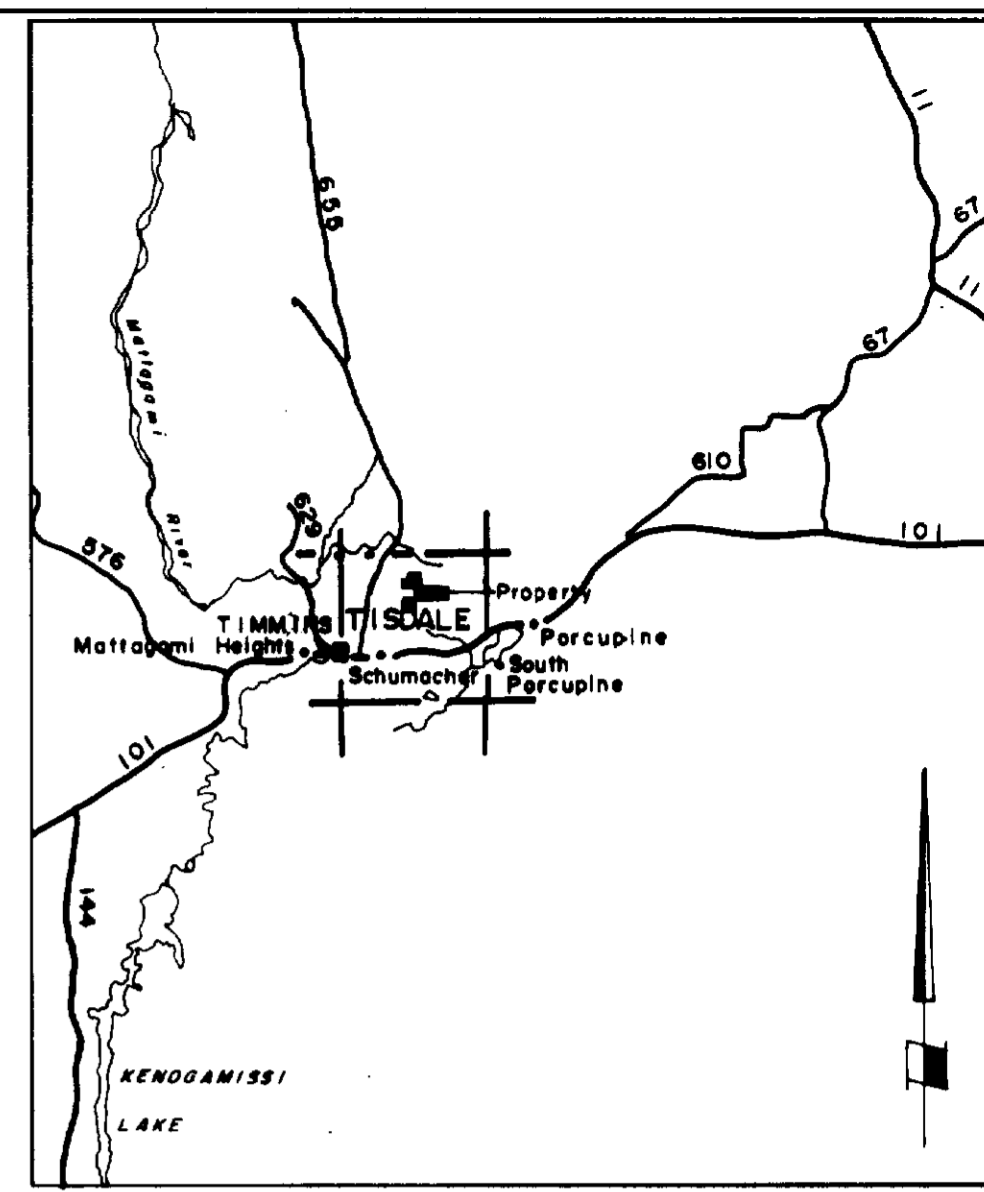
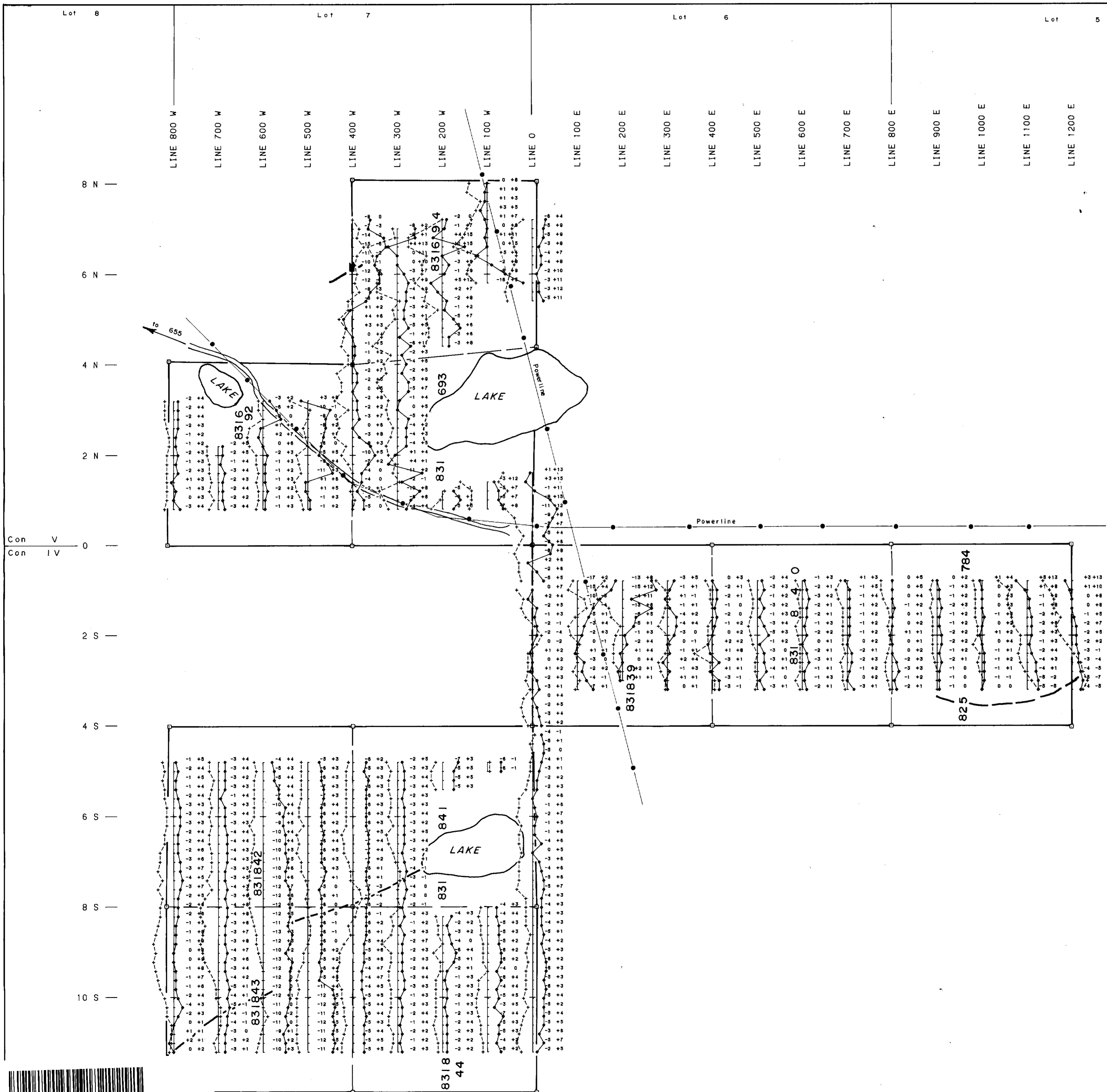
← + READINGS - READINGS →



KIDD CREEK MINES LTD.		
HORIZONTAL LOOP SURVEY		
TISDALE GOLD		
TISDALE 52		
NTS: 42-A/06		PROJ#981
WORK BY	DATE	FILE NAME
<i>Douglas Ludwig</i>	1985	85TISD52.HL



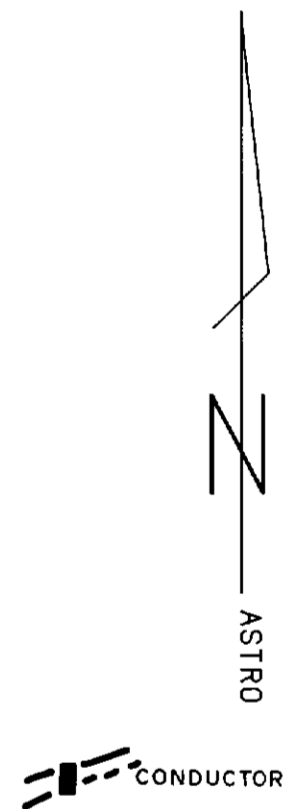
42A115W0235 2.8630 TISDALE



KEY MAP SCALE 1 : 506,880

Con V
Con IV

Con V
Con IV



LEGEND

INSTRUMENT : APEX PARAMETRICS MAXMIN I
 FREQUENCY : 1777 Hz
 COIL SPACING : 160 METRES
 PROFILE SCALE : 1 CM= 10%

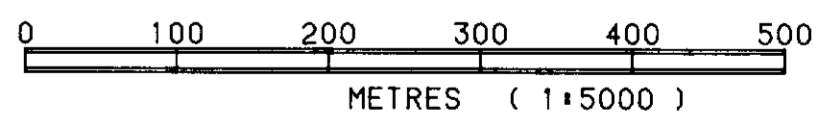
28030

1777 Hz

IN-PHASE READINGS

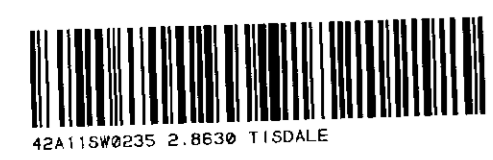
QUADRATURE READINGS

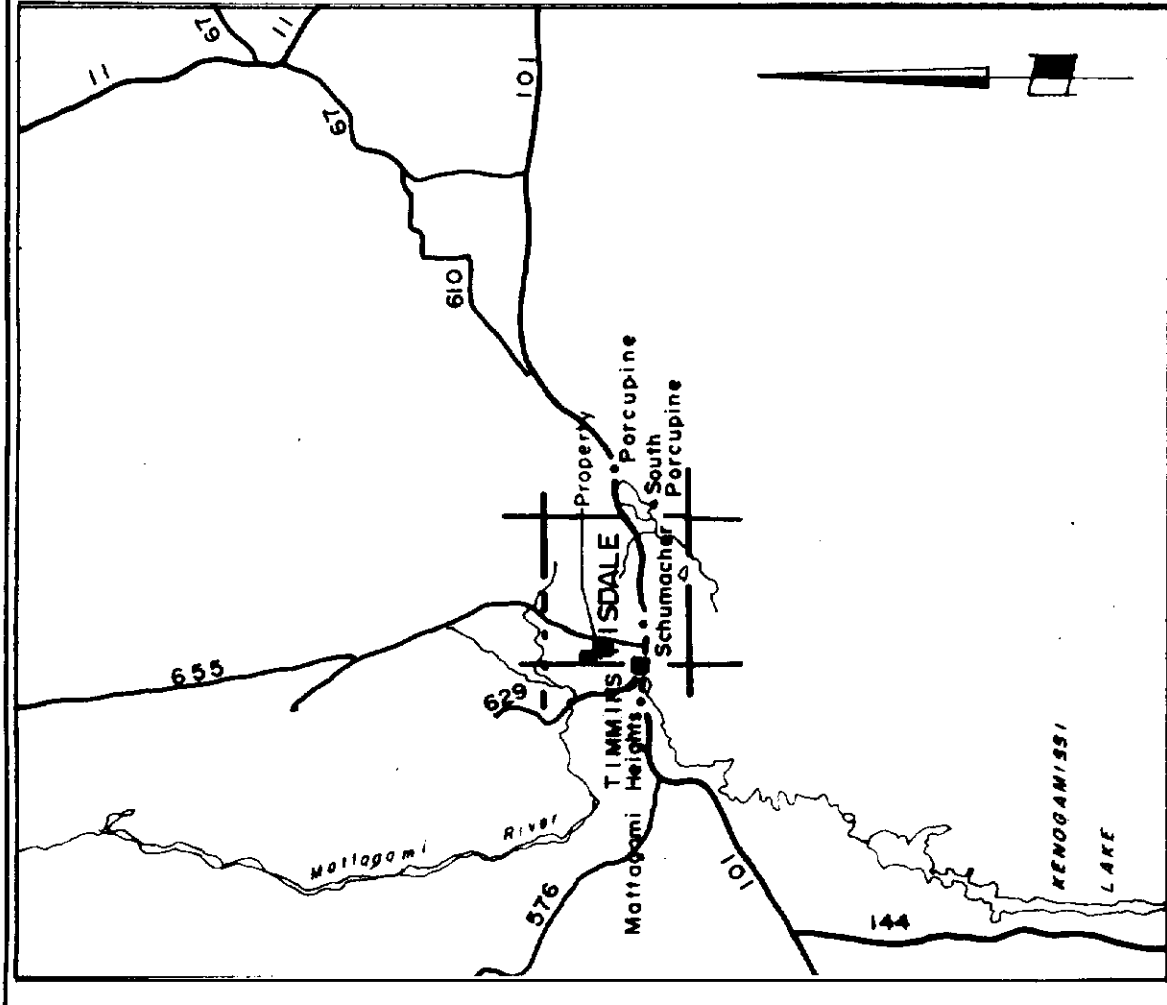
← + READINGS - READINGS →



KIDD CREEK MINES LTD.
HORIZONTAL LOOP SURVEY
TISDALE GOLD
 TISDALE 53-63
 NTS:42-A/06 PROJ#981

WORK BY	DATE	FILE NAME
Douglas Lindsay	1985	85TISD53.HL



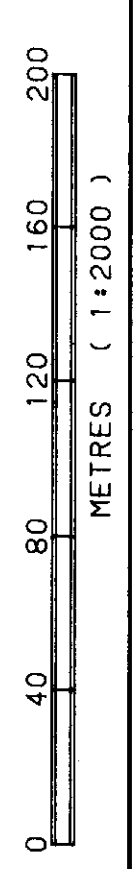


KEY MAP SCALE 1 : 500,000

ASTRO

LEGEND

- INSTRUMENT : SCINTREX 10S-2/MP-4
- TYPE : PROTON PRESSION, TOTAL FIELD
- READINGS IN GAMMAS
- ▲ MAGNETIC BASE STATION



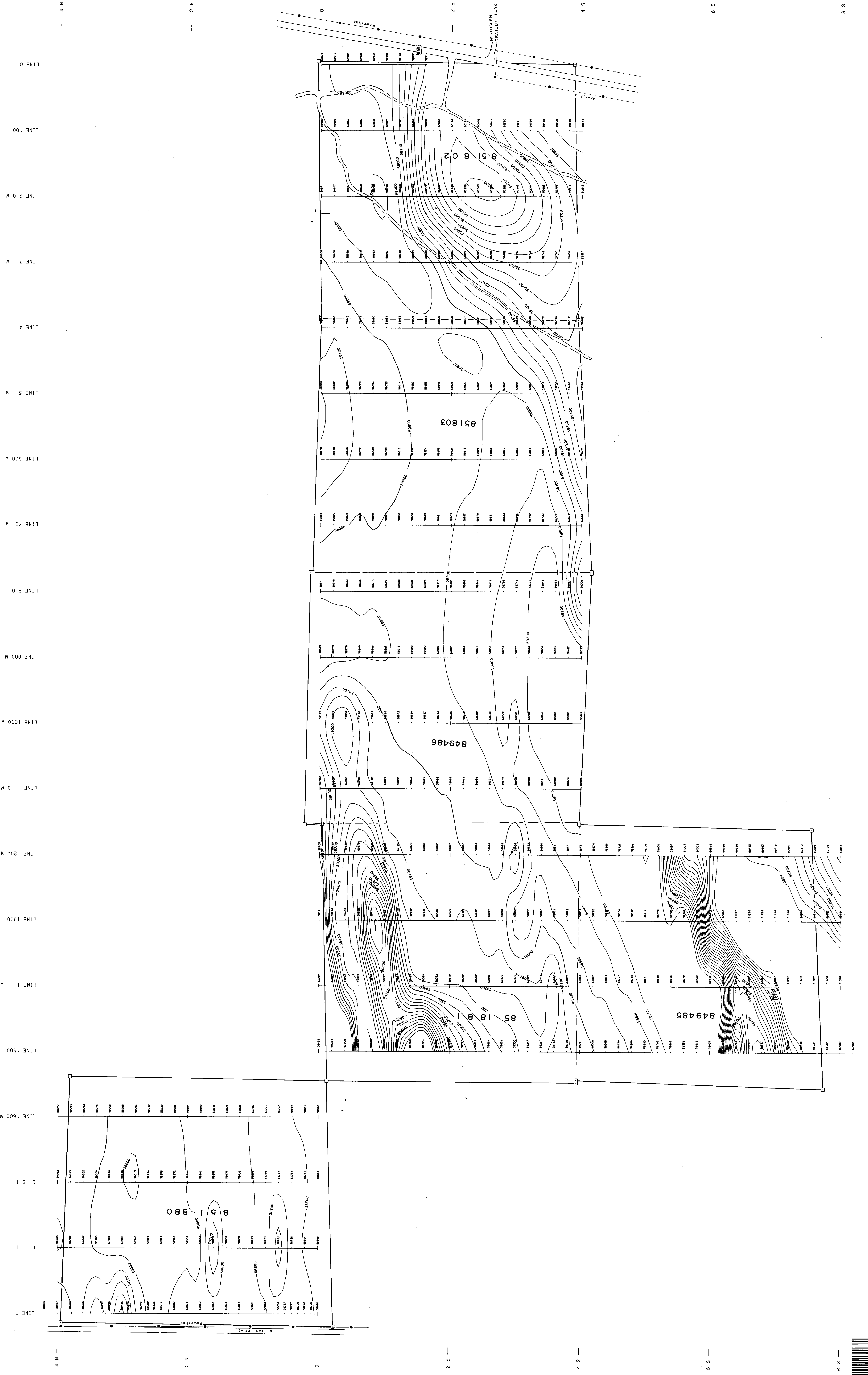
METRES (1:2000)

KIDD CREEK MINES LTD.

MAGNETIC SURVEY
TISDALE GOLD
TISDALE 41

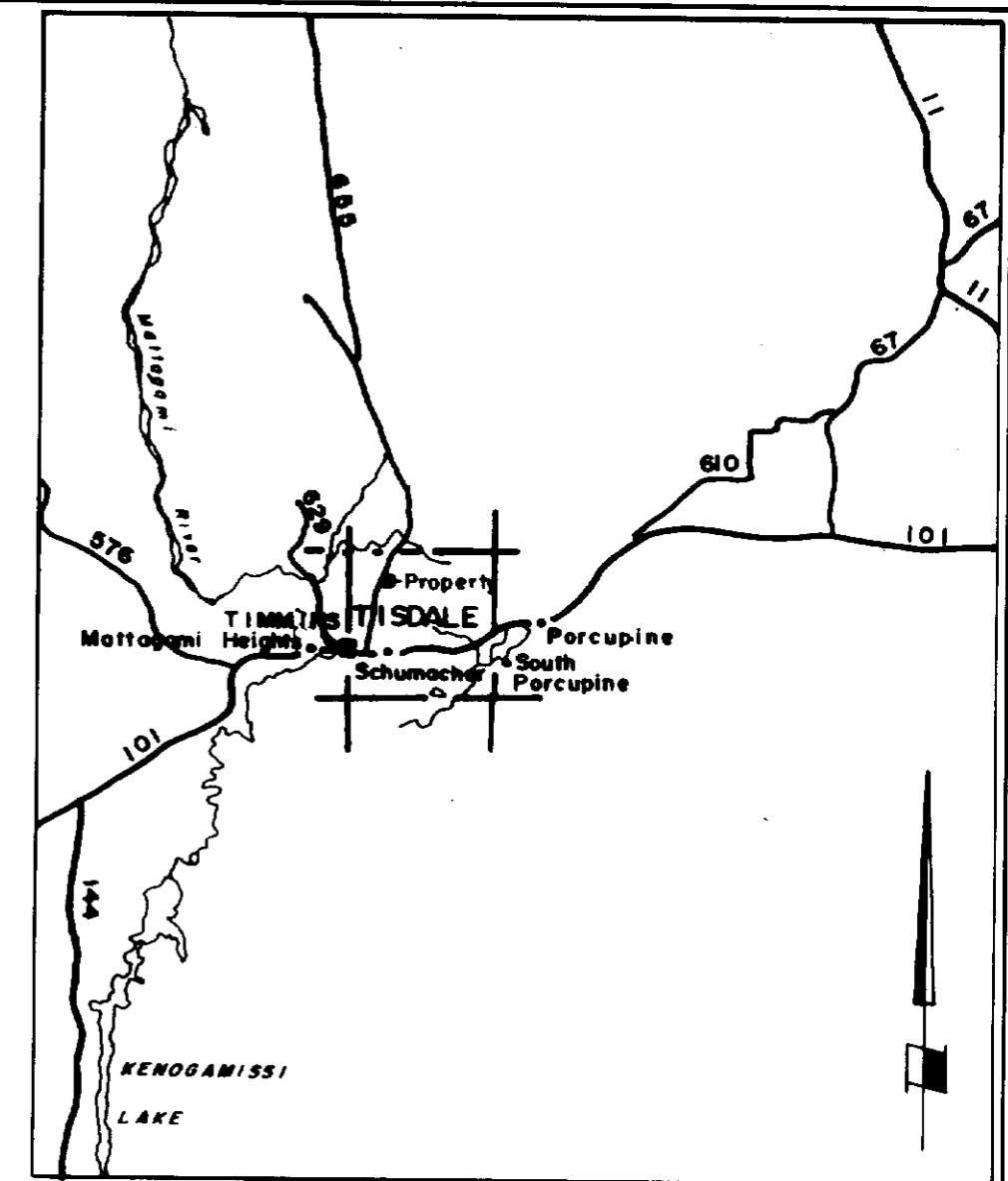
NTS:42-A-06 PROJ. #981

DATE 1985 FILE NAME 85TISD41.MWG

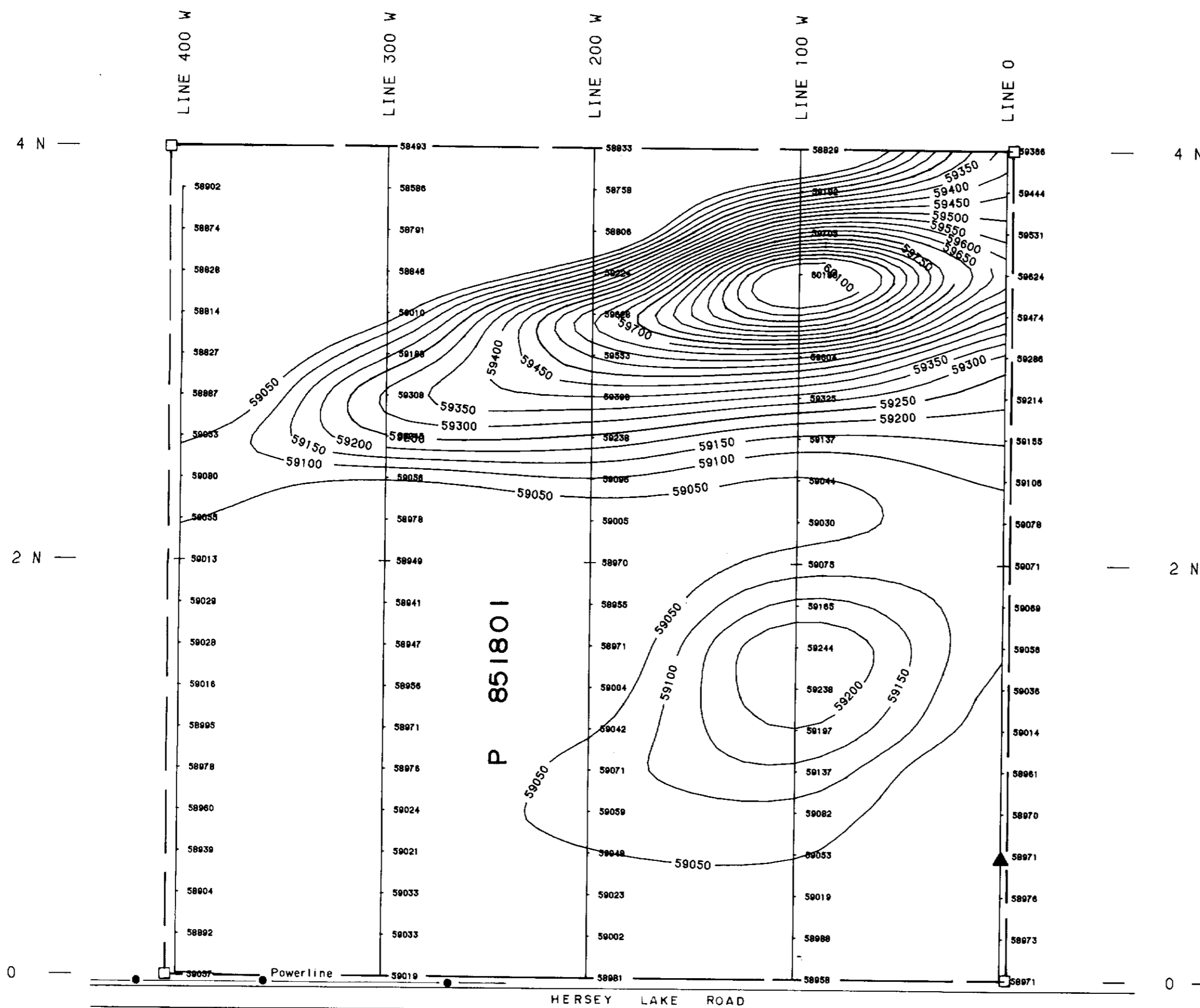


Lot 9

Lot 8



KEY MAP SCALE 1 : 506,880

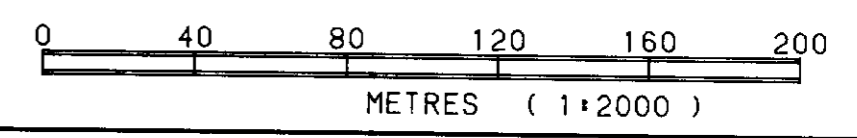


28630

LEGEND

INSTRUMENT : SCINTREX IGS-2/MP-4
 TYPE : PROTON PRECESSION, TOTAL FIELD
 READINGS IN GAMMAS
 ▲ MAGNETIC BASE STATION

N 1/2 Con V
 S 1/2 Con IV



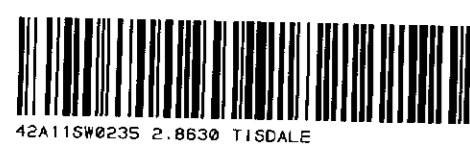
KIDD CREEK MINES LTD.

MAGNETIC SURVEY
 TISDALE GOLD
 TISDALE 52

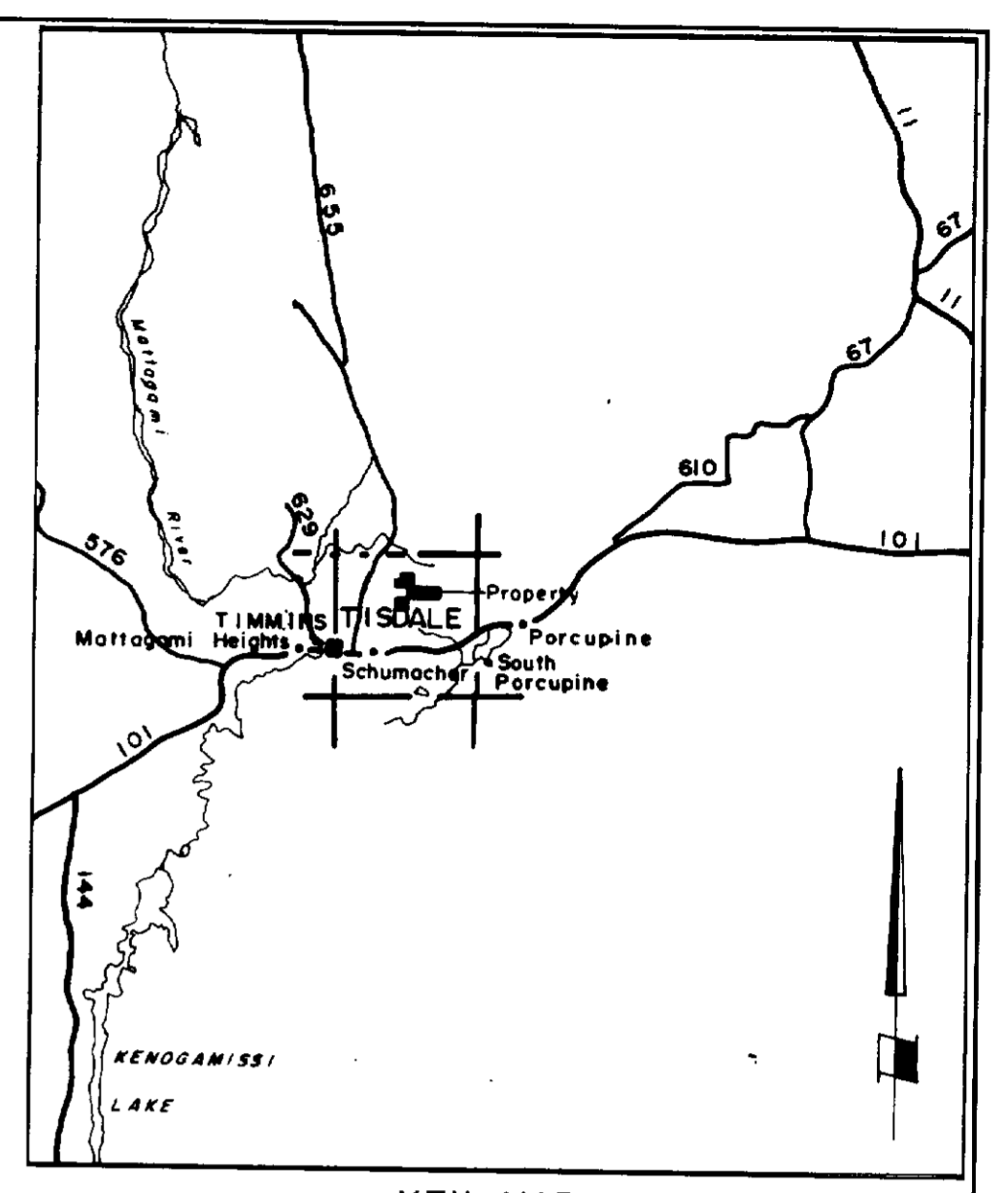
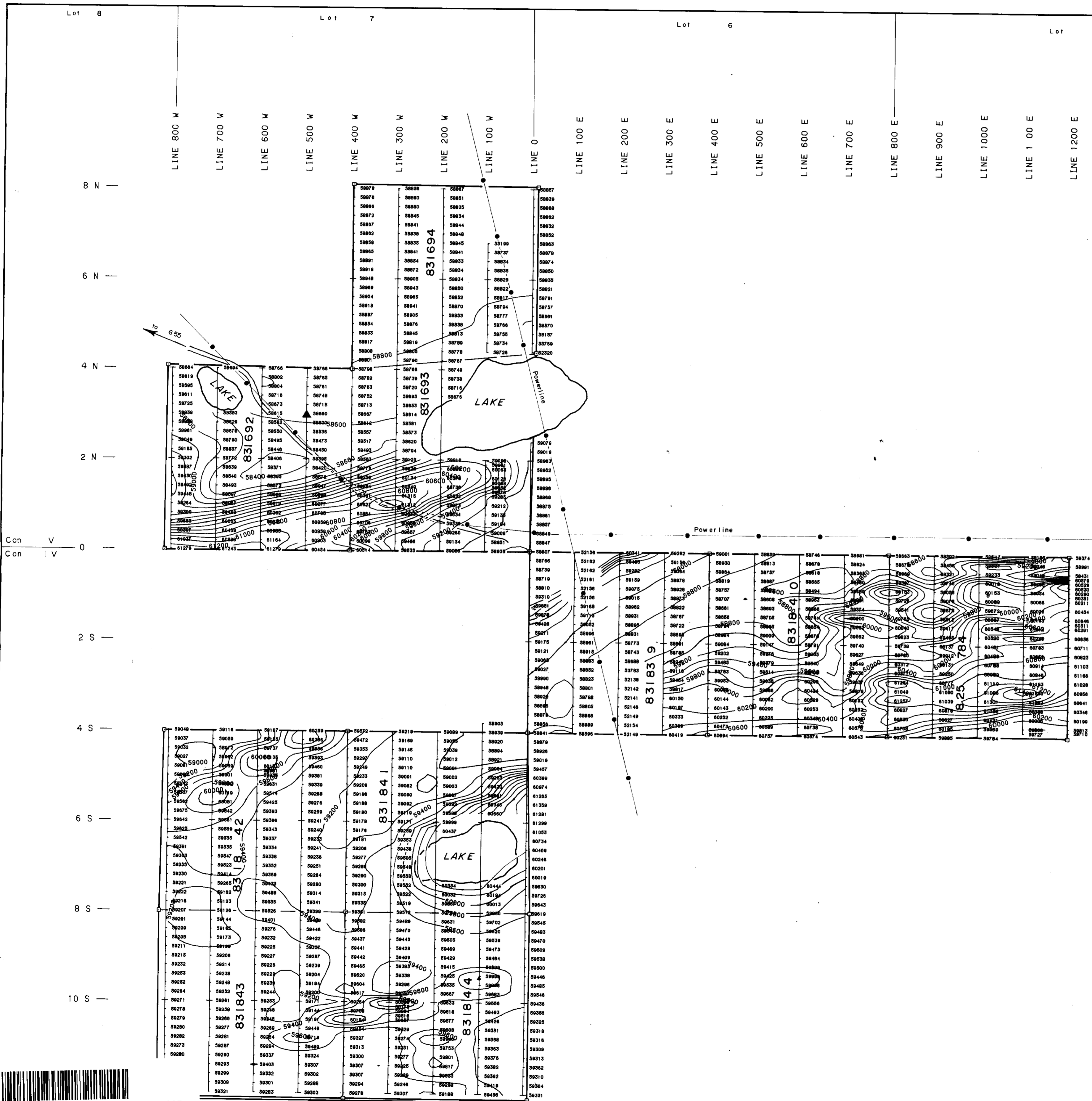
NTS:42-A-06

PROJ. #981

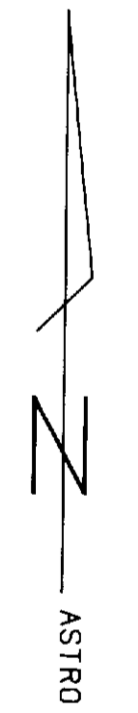
WORK BY	DATE	FILE NAME
Douglas Dwy	1985	85TISD52.MAG



42A115#0235 2.8630 TISDALE

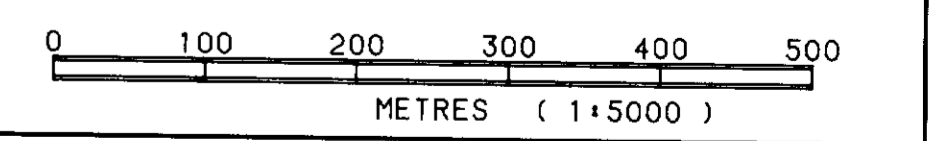


KEY MAP SCALE 1 : 506,880



LEGEND

INSTRUMENT : SCINTREX IGS-2/MP-4
 TYPE : PROTON PRECESSION, TOTAL FIELD
 READINGS IN GAMMAS
 ▲ MAGNETIC BASE STATION



KIDD CREEK MINES LTD.

MAGNETIC SURVEY
TISDALE GOLD
TISDALE 53-63

NTS: 42-A-06 PROJ. #981

WORK BY	DATE	FILE NAME
<i>Douglas Lundy</i>	1985	BSTISD53.MAG

