



42A05NE0325 2.7092 CARSCALLEN

010

KIDD CREEK MINES LTD.

GEOPHYSICAL REPORT

CARSCALLEN 52

CARSCALLEN TOWNSHIP

N.T.S.: 42-A-5

PROJECT NO. 935

RECEIVED

AUG 23 1984

MINING LANDS SECTION

AUGUST, 1984

E. HONSBERGER

SUMMARY AND RECOMMENDATIONS

A conductor located on the south edge of the Carscallen 52 property was detected by a horizontal loop survey in June of 1984.

Conductor 'A' is reflected by a one-line, dual frequency HEM anomaly and perhaps by a coincident magnetic high. Both appear about 700 metres west of the baseline on Line 00.

The conductor has the following characteristics;

Thickness	= narrow
Depth	= 70 to 80 metres
Dip	= 60° to 70° east
Δ_t	= moderate

Recommendations include a resurveying of the property west of the baseline using a larger HEM coil separation. This would test for a possible deepening of the source of anomaly 'A' outside of the detection range of a 160 metre coil separation.



42A05NE0325 2.7092 CARSCALLEN

010C

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INTRODUCTION

In June of 1984, magnetic and horizontal loop electromagnetic surveys were completed by Kidd Creek Mines Ltd. over four contiguous claims in Carscallen Township, Porcupine Mining District. The four mining claims are:

P 725282

P 725286

P 641606

P 641607

These claims are four of a block of 24 contiguous claims held by Kidd Creek Mines Ltd. They rest along the south edge of the block which is located in the northwest corner of Carscallen Township, approximately 27 kilometres west southwest of Timmins.

A Malette lumber road travelling north off of Highway 101 was used to access the property.

The fieldcrew included B. Cambell, E. Honsberger and B. Pigeon.

PREVIOUS WORK

In June of 1984, airborne magnetic and electromagnetic surveys were flown over all 24 claims for Kidd Creek Mines Ltd. by Questor Surveys Ltd.

Groundwork follow-up was recommended in the area of a three channel anomaly having a magnetic correlation of 13 gammas. The anomaly is situated near the southeast corner of claim P 725286.

SURVEY DESCRIPTION

In June of 1984, east-west lines were cut over the four claims. The lines intersect a north-south baseline at 100 metre intervals and have stations established every 20 metres.

Magnetic readings were taken every 20 metres (10 metres in anomalous areas) with the Scintrex MP-4 proton precession magnetometer. This instrument measures the earth's total magnetic field to an accuracy of + .1 gamma.

Horizontal loop measurements were taken with the Apex Parametrics Max Min II using a coil separation of 160 metres. In-phase and quadrature components were read every 40 metres (20 metres in anomalous areas) at frequencies of

444 and 1777 Hertz.

SURVEY RESULTS

HEM

A one-line anomaly, anomaly 'A', was detected about 700 metres west of the baseline on Line 00 by a horizontal loop (HEM) survey. The source was reflected by a moderate response at 1777 Hz and a fairly weak response at 444 Hz.

The narrow conductor lies 70 to 80 metres below surface and has a moderate conductivity thickness. It appears to be dipping at 60° to 70° east.

Figures 4 and 5 house the HEM results for the frequencies of 444 Hz and 1777 Hz respectively. The interpreted HEM parameters for anomaly 'A' can be found in Table 1.

Magnetics

Magnetic features to the east of the baseline include north-south striking magnetic highs. These 'highs' are probably a reflection of north-south striking diabase dykes that occur in the same area.

West of the baseline, a relatively lower intensity

north-south striking magnetic high is probably marking a diabase dyke as well. It should be noted that on Line 00, HEM anomaly 'A' is coincident with the peak of this magnetic high. This peak may be partially due to the magnetic response of the HEM conductor, or it may simply indicate a shallower overburden depth.

The magnetic results are contoured every 50 gammas in Figure 3 and every 20 gammas (west of the baseline only) in Figure 2.

Elaine Honsberger

ELAINE HONSBERGER

TABLE 1 (a): Anomaly 'A', 160m Coil Separation, 444 Hz

Line	Anomaly Center	Anomaly Width	Indicated Depth	I. P Max.	O. P Max.	Response Parameter	Conductivity Thickness	Remarks
0	700 W	Thin	80 m	-2	-2	5	9	Possible dip. 60 ⁰ -70 ⁰ E

TABLE 1 (b): Anomaly 'A', 160m Coil Separation, 1777 Hz

Line	Anomaly Center	Anomaly Width	Indicated Depth	I. P Max.	O. P Max.	Response Parameter	Conductivity Thickness	Remarks
0	695 W	10 m	72 m	-7	-4	15	7	Possible dip 60 ⁰ -70 ⁰ E

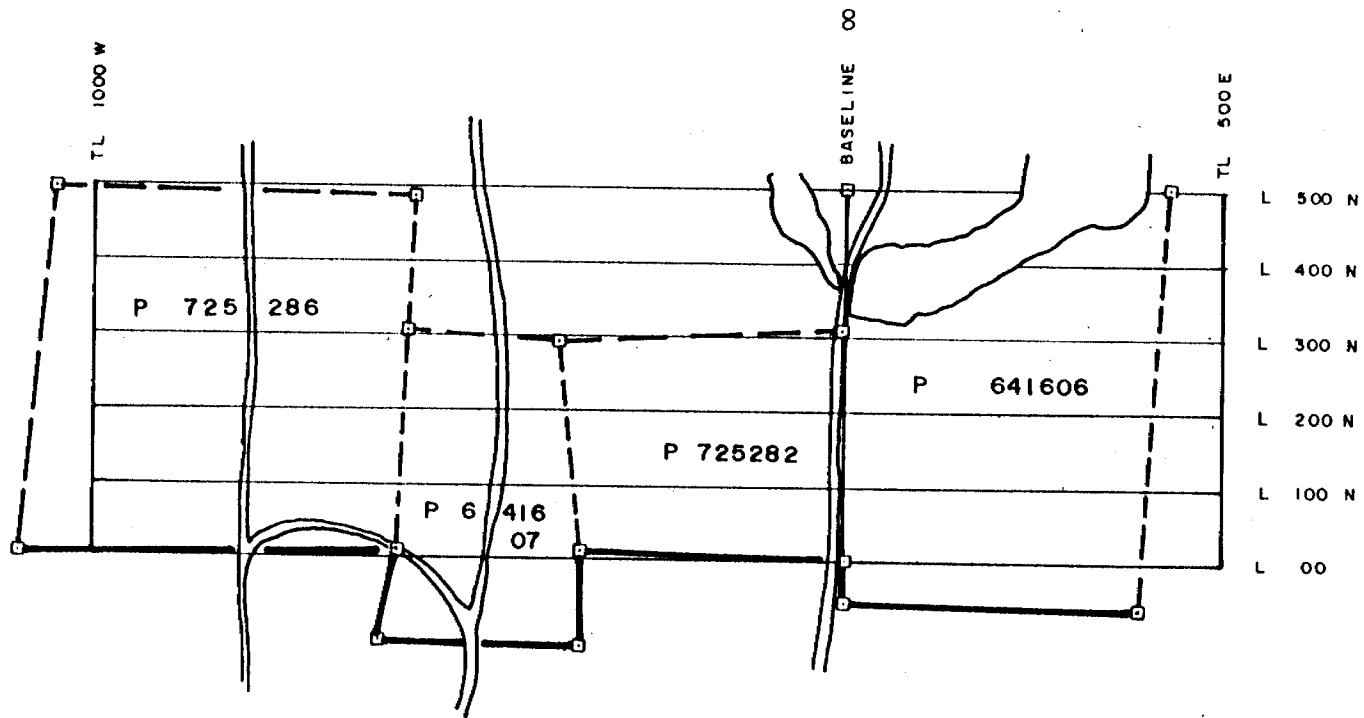
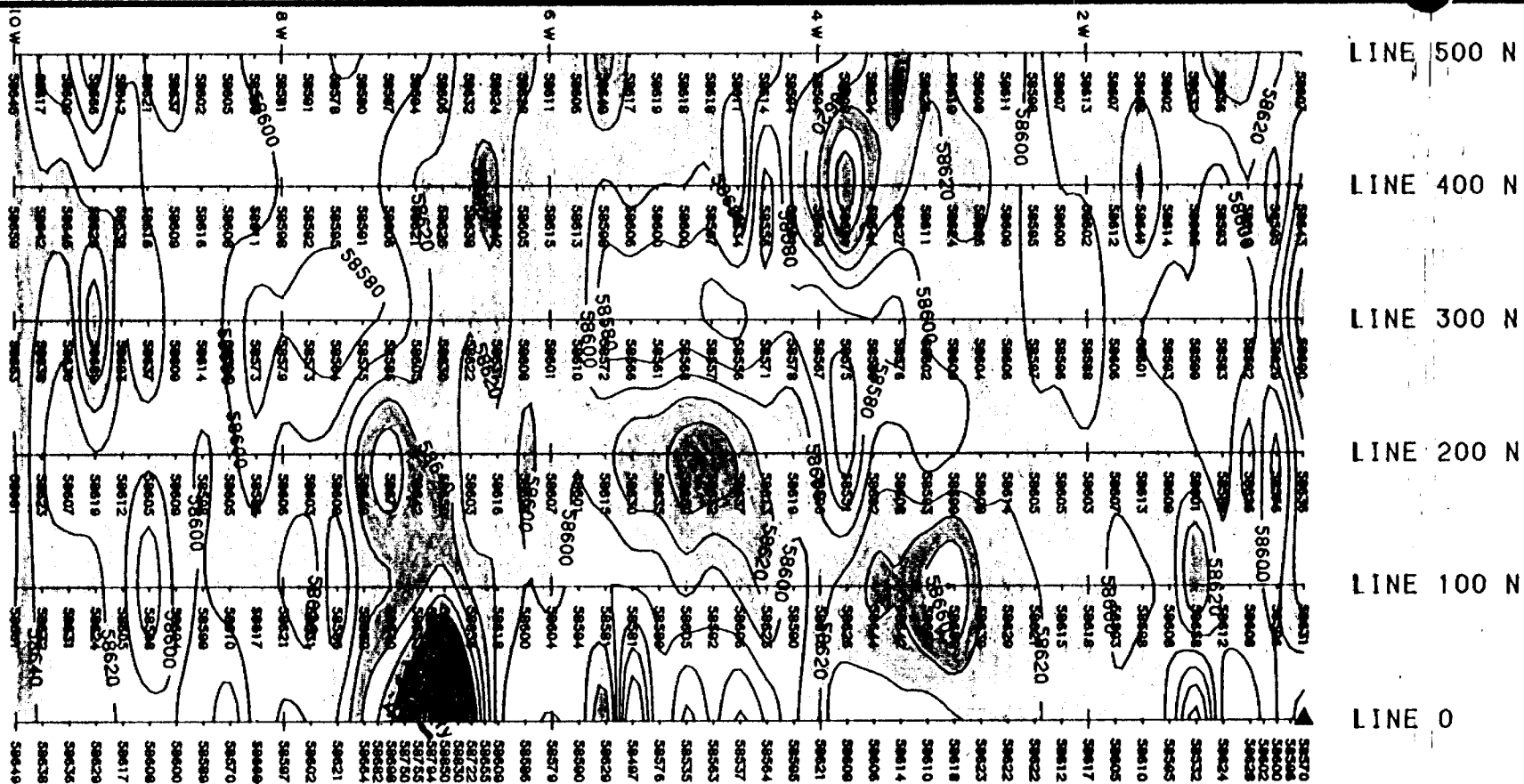


Figure 1

KIDD CREEK MINES LTD.		
Exploration Division		Timmins, ONTARIO
CARSCALLEN CLAIMS CARSCALLEN Twp.		
GRID SKETCH		
SCALE: 1 : 10,000	Data: Honsberger	
Drawn: DEL	Project N ^o : 935	Date: 20/08/84



LEGEND

INSTRUMENT : Scintrex MP - 4
 TYPE : Proton Precession Total Field
 READINGS IN GAMMAS

▲ Magnetic Base Station

--- HEM ANOMALY

KIDD CREEK MINES LTD. Exploration Division Timmins, ONTARIO	
CARSCALLEN CLAIMS CARSCALLEN Twp.	
GEOPHYSICS COMPILATION	
SCALE 1 : 5,000	Date : Honsberger
Drawn: DEL	Project No: Date: 22/08/84

Figure 2



42A05NE0325 2.7092 CARSCALLEN

900

Mining Lands Section

File No 2.7092

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

LP

Dony
Signature of Assessor

4/10/84
Date



Ministry of
Natural
Resources

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

W.R.
#260/84
2.7092

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.

Aug 26/84

The Mining Act

Type of Survey(s) GEOPHYSICS		Township or Area Carscallen	
Claim Holder(s) KIDD CREEK MINES LTD.		Prospector's Licence No. T-1	
Address 571 Moneta Avenue, Timmins, Ontario P4N 7H9			
Survey Company KIDD CREEK MINES LTD.		Date of Survey (from & to) 01 06 84 27 06 84 Day Mo. Yr. Day Mo. Yr.	Total Miles of line Cut 9 km
Name and Address of Author (of Geo-Technical report) D. Londry, Box 1140, 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	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological	
	Geochemical	
	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	725286				
	725282				
	641607				
	641606				

RECEIVED
JUL 17 1984
MINING LANDS SECTION

RECORDED
JUN 27 1984
Receipt No. 20

PORCUPINE MINING DIVISION
RECEIVED
JUN 27 1984
A.M. 7 8 9 10 11 12 | P.M. 1 2 3 4 5 6

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. **4**

For Office Use Only		
Total Days Cr. Recorded 160	Date Recorded June 27, 1984	Mining Registrar <i>[Signature]</i>
Date Approved as Recorded 84.10.9	Mining Recorder <i>[Signature]</i>	

Date June 27, 1984	Recorded Holder or Agent (Signature) <i>Douglas Londry</i>
------------------------------	---

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
D. Londry, P.O. Box 1140, Timmins, Ontario

P4N 7H9

Date Certified
June 27, 1984

Certified by (Signature)
Douglas Londry

Kidd Creek Mines Ltd.

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

2.7092

September 20, 1984

Exploration Division

RECEIVED

Land Management Branch

EXHIBIT/ATE

PERMITS/LEASE

BY

SEP 20 1984

S. E. YUNDT	
J. W. MORRIS	✓
J. J. COLE	
W. L. GOOD	
L. J. SMITH	
A. J. JACKSON	

RETURN TO R. 6643

S. E. Yundt
Director, Land Management Branch
Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

Dear S. Yundt:

This letter is written in response to your request for my qualifications regarding the geophysical survey I submitted on Mining Claims P725286 et al in Carscallen Township, file 2.7092.

I graduated from the University of Western Ontario in May of 1983 with an Honours B.Sc. degree in Applied Geophysics. I have been employed by Kidd Creek Mines Ltd. since July, 1983. I have also been employed for two summers previous to this in geophysics-related jobs.

I hope this information satisfies your request.

Yours truly,


ELAINE HONSBERGER

EH/1v



September 13, 1984

File: 2.7092

Kidd Creek Mines Ltd
571 Moneta Avenue
Timmins, Ontario
P4N 7H9

Dear Sirs:

RE: Geophysical (Electromagnetic) Survey
submitted on Mining Claims P 725286
et al in Carscallen Township

Please provide a resume of qualifications for the author of the above-mentioned report (Elaine Honsberger) as outlined on the attached.

When submitting this information, please quote file 2.7092.

For further information, please contact Susan Hurst 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

S. Hurst:mc

cc: Mining Recorder
Timmins, Ontario

cc: D. Londry
Box 1140
Timmins, Ontario
P4N 7H9

Encl.

1984 08 31

Your File: 260
Our File: 2.7092

Mr. Bruce Hanley
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 725286 et al in the Township of Carscallan.

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-6918

A. Barr:sc

cc: Kidd Creek Mines Limited
571 Moneta Avenue
Timmins, Ontario
P4N 7H9



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 CARSCALLEN
Claim Holder(s) Kidd Creek Mines Ltd.
P.O. Box 1140, Timmins, Ontario P4N 7H9
Survey Company Kidd Creek Mines Ltd.
Author of Report Elaine Honsberger
Address of Author P.O. Box 1140, Timmins, Ontario P4N 7H9
Covering Dates of Survey 01/06/84 - 27/06/84
(linecutting to office)
Total Miles of Line Cut 9 km

MINING CLAIMS TRAVERSED
List numerically

P 725282
(prefix) (number)
P 725286
P 641606
P 641607

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	_____
-Radiometric	_____
-Other	_____
Geological	_____
Geochemical	_____

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

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

DATE: August 22, 1984 SIGNATURE: Elaine Honsberger
Author of Report or Agent

Res. Geol. _____ Qualifications As usual

Previous Surveys

File No. Type Date Claim Holder

File No.	Type	Date	Claim Holder

RECEIVED
AUG 23 1984
MINING LANDS SECTION

TOTAL CLAIMS 4

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 450 Number of Readings 438
Station interval 20m Line spacing 100m
Profile scale 1:2000
Contour interval

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument Apex Parametrics Max Min II
Coil configuration Horizontal Loop
Coil separation 160 m
Accuracy +1% -1%
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 1777 Hz, 444 Hz (specify V.L.F. station)
Parameters measured Inphase and Quadrature components of secondary field

GRAVITY

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

INDUCED POLARIZATION RESISTIVITY

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

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

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 _____

Kidd Creek Mines Ltd.

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

Exploration Division

August 22, 1984

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

Dear Sir:

Re: CARSCALLEN TOWNSHIP

Enclosed please find duplicate copies of a report and maps covering claims in Carscallen Township. The claims aforementioned are P-725282, P-725286, P-641606 and P-641607 inclusive.

Your prompt attention to this matter would be greatly appreciated.

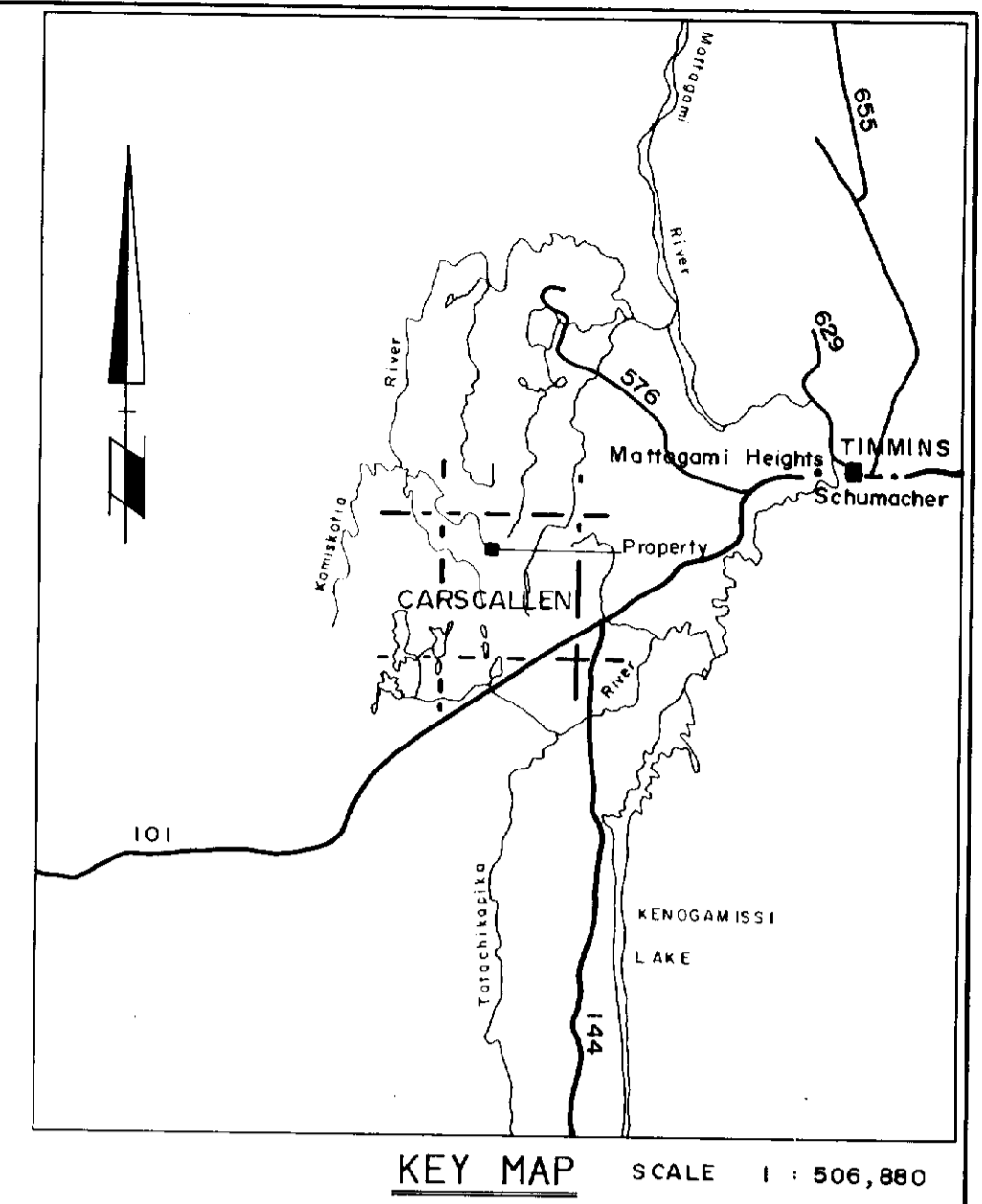
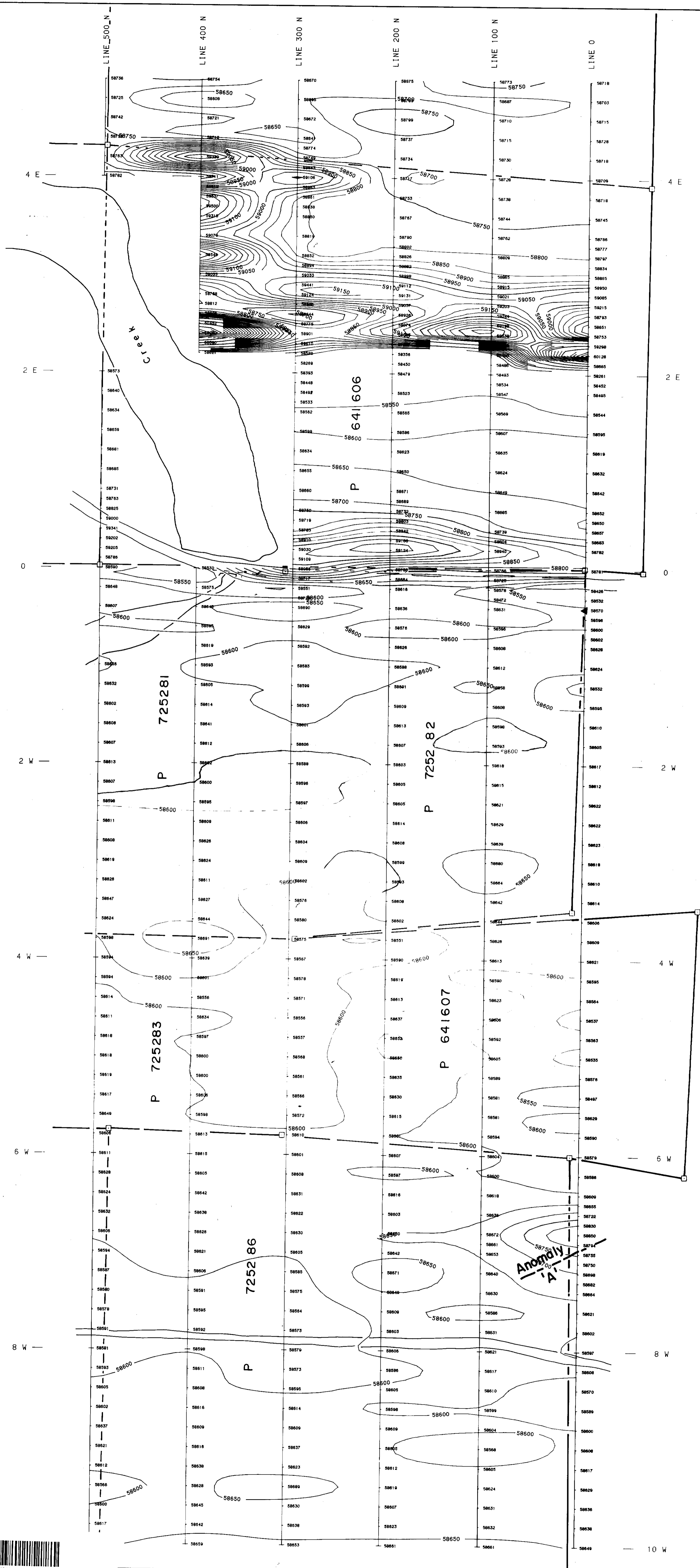
Yours very truly,


ELAYNE HONSBERGER

EH/pp
Encls.

RECEIVED
AUG 23 1984
MINING LANDS SECTION

Kidd

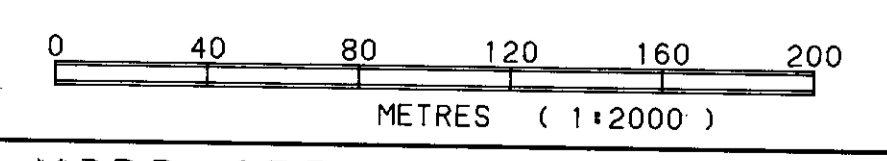


KEY MAP SCALE 1 : 506,880

ASTRO

HEM ANOMALY
 LEGEND

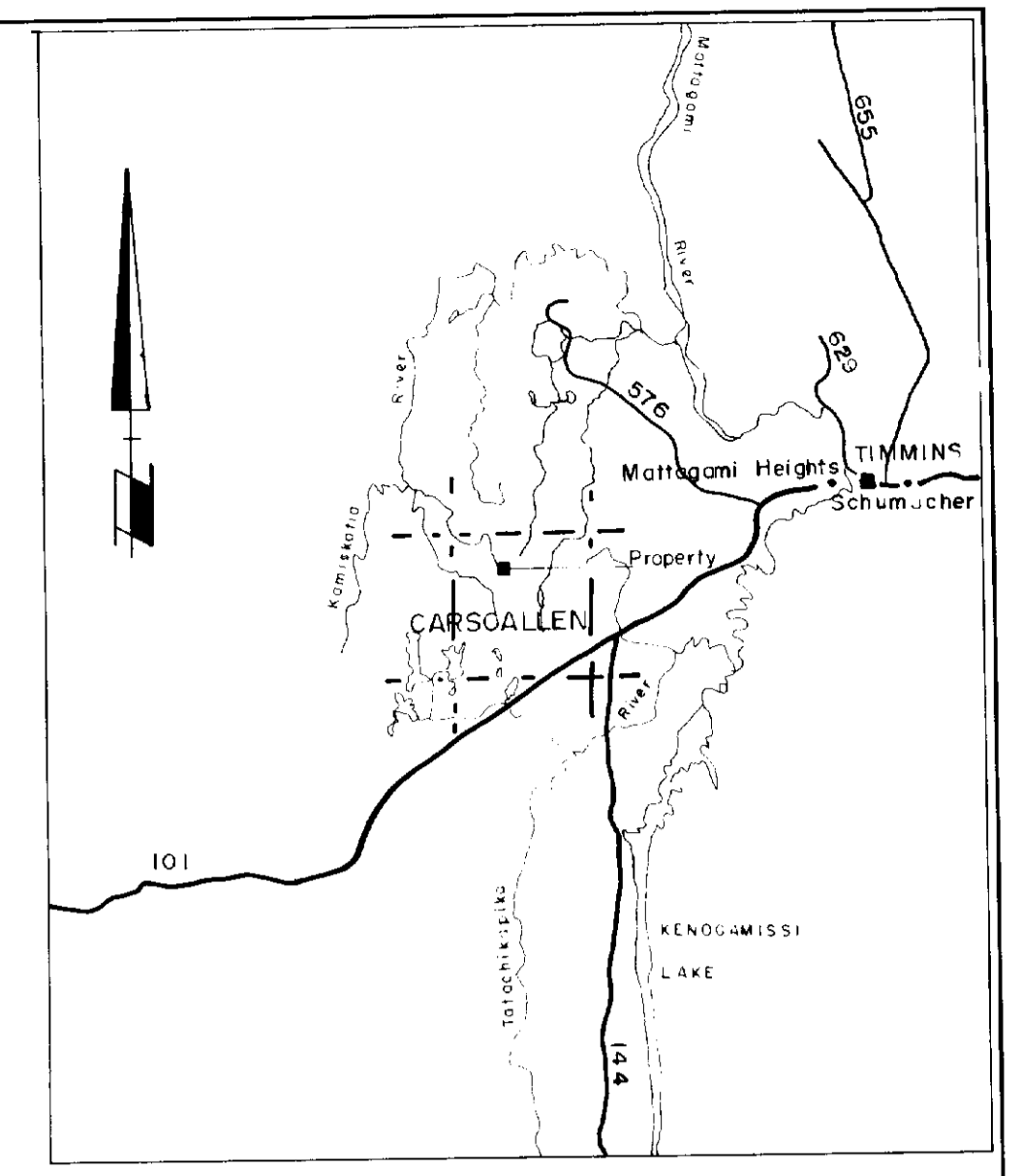
INSTRUMENT : SCINTREX MP-4
 TYPE : PROTON PRECESSION, TOTAL FIELD
 READINGS IN GAMMAS
 ARBITRARY ZERO LEVEL
 ▲ MAGNETIC BASE STATION



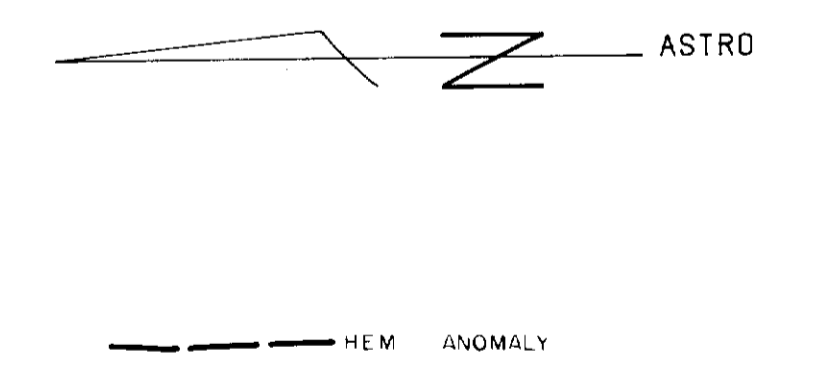
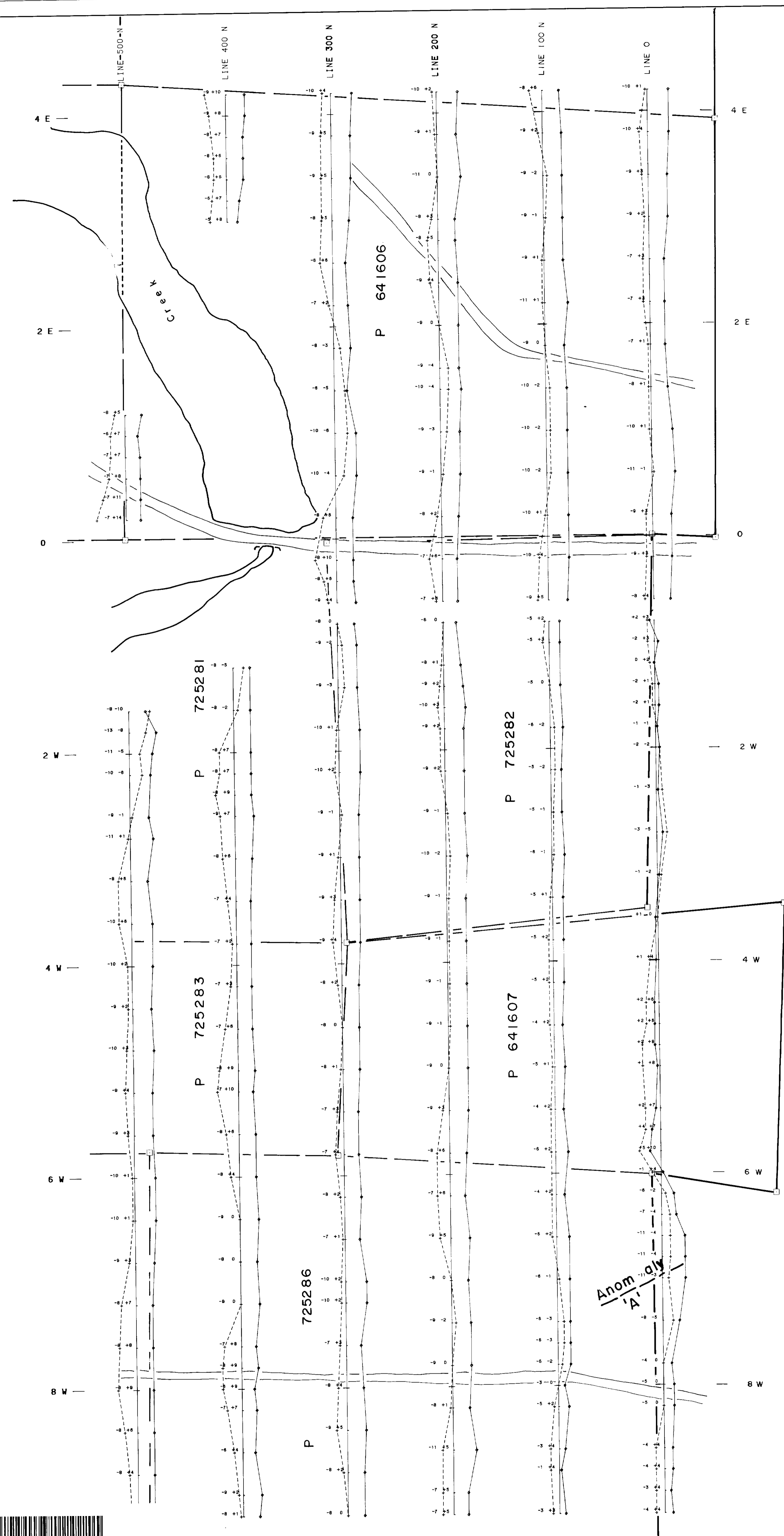
KIDD CREEK MINES LTD.
MAGNETIC SURVEY
CARSCALLEN CLAIMS
 NTS-42-A/05 PROJ.#935

WORK BY: *E. Homburg* DATE: 1984





KEY MAP SCALE 1 : 506,880

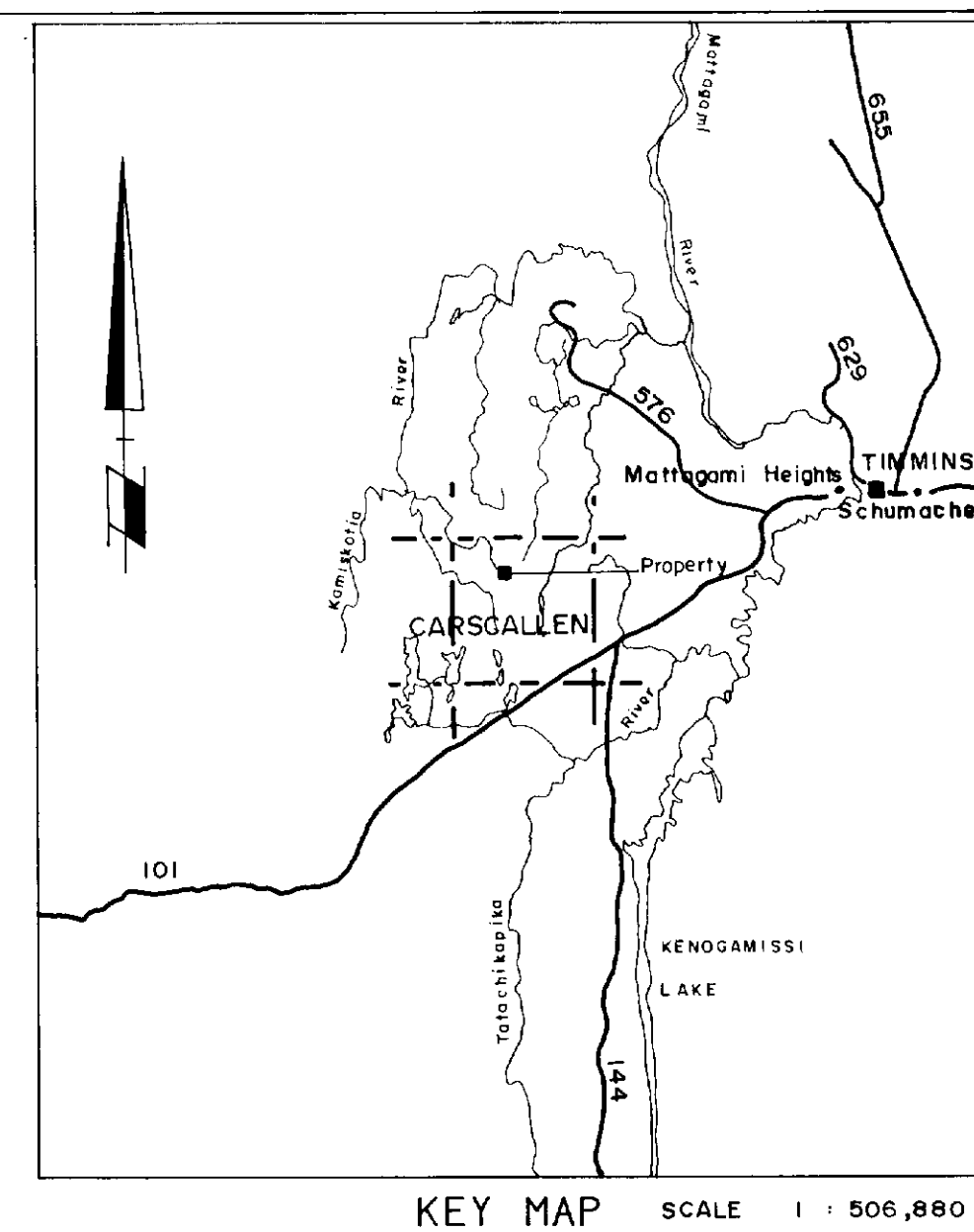
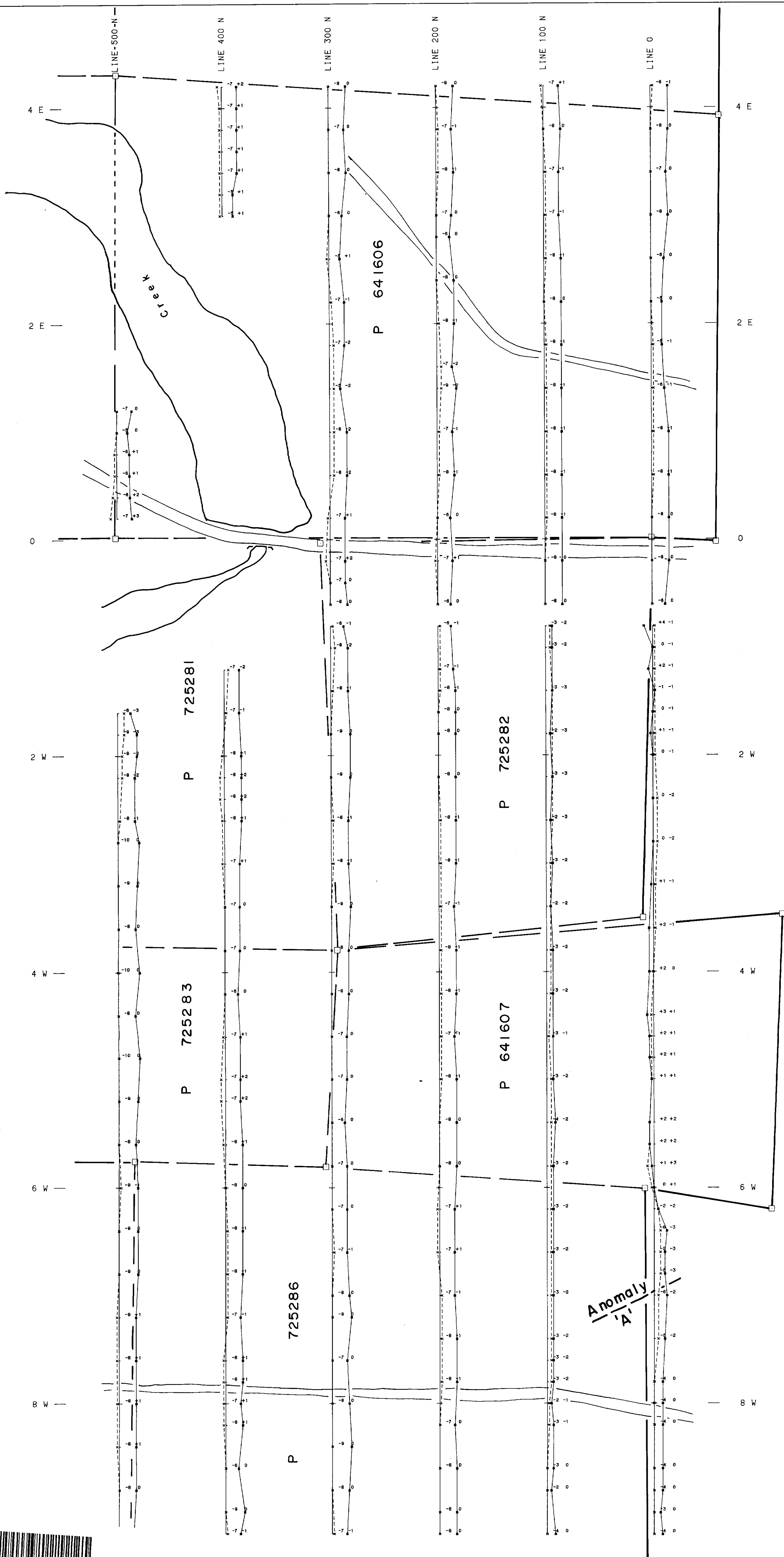


LEGEND

1777 Hz
 IN-PHASE READINGS
 QUADRATURE READINGS
 INSTRUMENT : APEX PARAMETRICS MAXMIN II
 FREQUENCY : 1777 Hz
 COIL SPACING : 160 METRES
 PROFILE SCALE : 1 CM = 10%
 ← + READINGS - READINGS →
 0 40 80 120 160 200
 METRES (1:2000)

KIDD CREEK MINES LTD.	
HORIZONTAL LOOP SURVEY	
CARSCALLEN CLAIMS	
NTS: 42-A/05	PROJ. #935
WORK BY <i>H. H. H.</i>	DATE 1984





KEY MAP SCALE 1 : 506,880



--- HEM ANOMALY

LEGEND

444 Hz
 IN-PHASE READINGS
 QUADRATURE READINGS

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

← + READINGS - READINGS →

0 40 80 120 160 200
 METRES (1:2000)

KIDD CREEK MINES LTD.

HORIZONTAL LOOP SURVEY

CARSCALLEN CLAIMS

NTS: 42-A/05

PROJ. #935

WORK BY
E. Honberg

DATE
 1984



44088325 2.7992 CARSCALLEN