



42A12SW0205 2.5232 COTE

010

KIDD CREEK MINES LTD

GEOPHYSICAL REPORT

ON

FORTUNE TOWNSHIP

PROJECT #11

N.T.S.: 42-A-12

RECEIVED

NOV 20 1982

MINING LANDS SECTION

NOVEMBER, 1982

D. LONDRY



42A12SW0205 2.5232 COTE

010C

TABLE OF CONTENTS

	page
LIST OF MAPS	ii
LOCATION MAP	iii
SUMMARY AND RECOMMENDATIONS	iv
INTRODUCTION	1
PREVIOUS GEOPHYSICAL WORK	1
SURVEY DESCRIPTIONS	2
MAGNETIC RESULTS	3
VLF RESULTS	3

LIST OF MAPS

MAP NO.		Scale
1	MAGNETIC RESULTS	1:5000
2	SMOOTHED MAGNETIC RESULTS	1:5000
3	VLF RESULTS	1:5000
4	FILTERED VLF RESULTS	1:5000

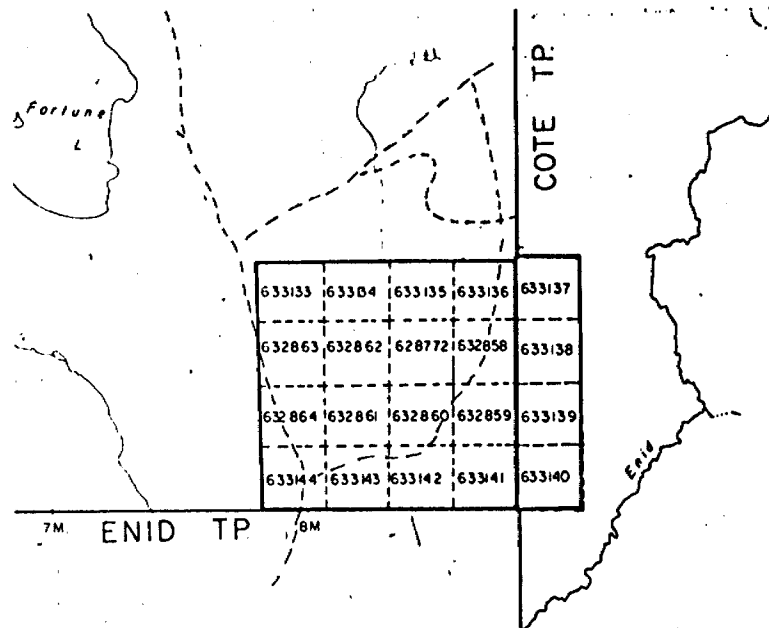
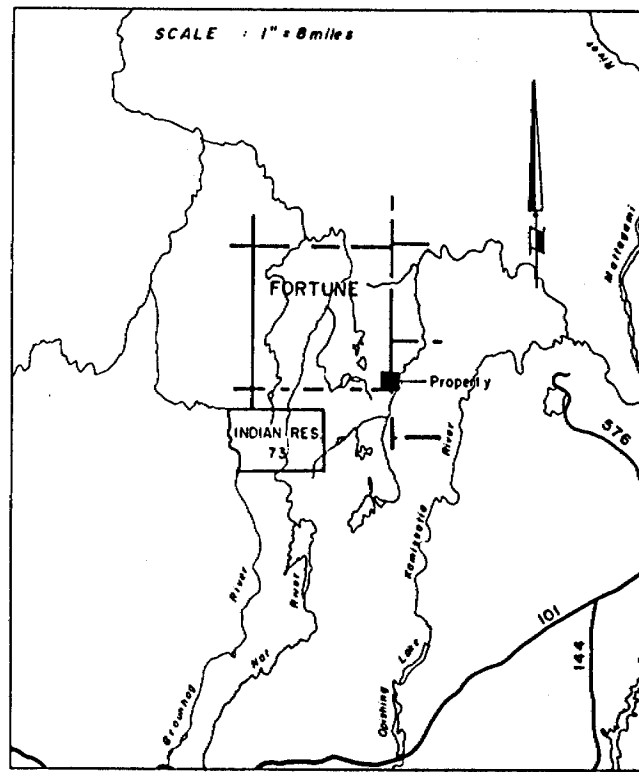


FIGURE 1: LOCATION MAP AND CLAIM NUMBERS

SUMMARY AND RECOMMENDATIONS

The geophysics carried out so far have aided in mapping intrusive rocks and the geological structure on the property, however neither the magnetic or VLF results have helped define the zones of gold mineralization. An I.P. survey might outline the pyrite mineralization or the altered rocks associated with the gold occurrences.

None of the VLF responses are strong enough to reflect a massive sulphide deposit.

INTRODUCTION

During the summer of 1982 a magnetic and VLF EM survey was carried out on 20 contiguous claims held by Kidd Creek Mines Ltd. in the southwest corner of Fortune township. The claims are numbered as follows :

P 628772

P 632858 - P 632864 inclusive

P 633133 - P 633144 inclusive

The four east claims, 633137 - 633140, are located in Cote Township.

The property is located 40 miles northwest of the city of Timmins. It is accessible by helicopter from Timmins or by means of vehicle along the Cote Camp road, off Highway 101.

PREVIOUS GEOPHYSICAL WORK

Interest began in the area in the 1930's in the search for gold and later for Cu-Ni deposits associated with gabbro intrusives.

The Luskauf gold showing is located 2.5 kilometres to the east in Cote Township. There are two gold showings on the property at approximately 500 West, 1800 North and 230

West, 1245 North. The George Sweet Cu-Ni showings are .5 kilometres to the southwest in Enid Township.

In 1955 Dominion Gulf Co. staked a large claim group around the Sweet showings and ran a magnetic survey which covered the southern claims of the present Kidd Creek Mines property. Two rock types accounted for most of the high magnetic expressions : gabbros and north northwest trending diabase dikes.

In the same year, Dominion Gulf Co. also staked 40 claims to the east, in Cote Township, to investigate an airborne magnetic anomaly. This ground included the four east claims of the present Kidd Creek Mines property. Results from a magnetic survey were described as complex, reflecting the occurrence of diabase dikes, gabbro intrusives, iron formation and magnetite-bearing shear zones. In 1956, a vertical loop electromagnetic survey, carried out on the Dominion Gulf property, outlined a number of weak conductors explained by shear zones, contact zones and iron formation.

SURVEY DESCRIPTIONS

North-south lines were cut every 100 metres and picketed every 20 metres. There was some difficulty in locating the exact position of the Enid-Fortune township boundary when the grid lines were being cut, however, it has since been estimated at 300 North.

The magnetic survey was carried out with a Geometrics G-816. This is a proton precession magnetometer which measures the earth's total magnetic field to an accuracy of ± 1 gamma. Base stations were established along base line 0 North and all other readings were taken by looping between base stations. A total of 2354 readings were taken along 44.56 kilometres of line.

During the VLF survey, dip angles of the secondary field were measured with a Crone RADEM. Seattle Washington was used as the transmitting station. The survey covered 44.02 kilometres of line and 2250 readings were observed.

MAGNETIC RESULTS

The magnetic results are plotted on two maps at a scale of 1:5000. The original data is contoured on Map #1, and on Map #2 it has been smoothed using a weighted 5 point moving average. Interpretation of the results is shown on the second map.

As in previous surveys a number of north northwest trending diabase dikes are outlined as magnetic highs. Three possible east-west striking faults are interpreted on displacements of the diabase dikes. The most northerly one is associated with a narrow magnetic high. A north side west movement along the suggested faults agree with that noted to the south by Dominion Gulf.

Three magnetic highs in the south are interpreted as

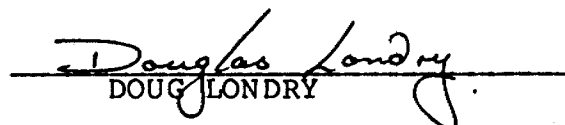
gabbro intrusives. Two highs in the east central part of the property are also labelled as gabbro on Map #2, however they are quite linear and may reflect a more magnetic stratigraphic unit. They may be the same unit; the more westerly one displaced to the north along a fault which the diabase has followed.

Three areas of low magnetic readings to the north are underlain by granites. Granite in outcrop has been mapped in the area to the east and granite boulders have been mapped in the other two areas.

VLF RESULTS

The dip angles are profiled on Map #4 and filtered, using the Fraser method, on Map #5.

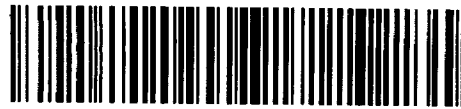
A large number of east-west striking conductors were detected throughout the property. Most of the anomalies are too weak to be caused by mineralization, but more likely reflect zones of weakness or shears. Some of the strongest anomalies are located along the interpreted faults.


DOUG LONDREY



Ministry of Natural Resources

GEOPHYSICAL - GEOLOGICAL
TECHNICAL DATA



42A12SW0205 2.5232 COTE

900

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

Type of Survey(s) MAGNETIC, VLF

Township or Area FORTUNE TOWNSHIP

Claim Holder(s) KIDD CREEK MINES LTD.

Survey Company KIDD CREEK MINES LTD.

Author of Report DOUGLAS LONDREY

Address of Author Box 1140, Timmins, Ontario.

Covering Dates of Survey May 15/82 - November 25/82
(linecutting to office)

Total Miles of Line Cut 46.2 Kilometres

MINING CLAIMS TRAVERSED
List numerically

- P 628772
- P (prefix) 633133 (number)
- P 633134
- P 633135
- P 633136
- P 633137
- P 633138
- P 633139
- P 633140
- P 633141
- P 633142
- P 633143
- P 633144
- P 632858
- P 632859
- P 632860
- P 632861
- P 632862
- P 632863
- P 632864

If space insufficient, attach list

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

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

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

DATE: Nov. 25/82 SIGNATURE: Douglas Londrey
Author of Report or Agent

Res. Geol. _____ Qualifications 2. 2289

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 20

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations VLF 2331 MAG 2331 Number of Readings VLF 2250 MAG 2354
Station interval 20 Metres (10 m Detail) Line spacing 100 Metres
Profile scale VLF 1 cm = 20 degrees
Contour interval VLF <10 degrees every 2 degrees, >10 degrees every 5 degrees MAG every 100 gammas

MAGNETIC

Instrument GEOMETRICS G816
Accuracy - Scale constant + 1 Gamma
Diurnal correction method Base stations established along base line by looping
Base Station check-in interval (hours) and other readings tied into these. 1.5
Base Station location and value Line 400 east, 0 North 59516

ELECTROMAGNETIC

Instrument CRONE RADEM
Coil configuration VLF
Coil separation
Accuracy + Degree
Method: [x] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency 24.8 Seattle, Washington (specify V.L.F. station)
Parameters measured Dip angles

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 _____



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

2.5232

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

Naturel Cole Top

The Mining Act

375
P-62872

Type of Survey(s) GEOPHYSICAL		Township or Area Fortune & Cote Twps.	
Claim Holder(s) KIDD CREEK MINES LTD.		Prospector's Licence No. T-1	
Address P.O. Box 1140, TIMMINS, Ontario.			
Survey Company KIDD CREEK MINES LTD.		Date of Survey (from & to) 15 5 82 27 9 82 Day Mo. Yr. Day Mo. Yr.	Total Miles of Line Cut 23
Name and Address of Author (of Geo-Technical report) DOUG LONDRY (as above)			

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	40
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	
Airborne Credits	Geological	
	Geochemical	
	Electromagnetic	
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	628772	60			
	632858	60			
	632859	60			
	632860	60			
	632861	60			
	632862	60			
	632863	60			
	632864	60			
	633133	60			
	633134	60			
	633135	60			
	633136	60			
	633137	60			
	633138	60			
	633139	60			
	633140	60			
	633141	60			
	633142	60			
	633143	60			
	633144	60			

RECEIVED
OCT 12 1982
MINING LANDS SECTION

RECORDED
SEP 28 1982
Receipt No.

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

PORCUPINE MINING DIVISION

Calculation of Expenditure Days Credits

Total Expenditures: \$ ÷ 15 =

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. **20**

Date **Sept. 27/82** Recorded Holder or Agent (Signature) *Will Gasteiger*

For Office Use Only

Total Days Cr. Recorded **15200** Date Recorded **Sept 28/82** Mining Recorder *[Signature]*

Date Approved as Recorded **83:07:08** Branch Director *[Signature]* Regional Mining Recorder *[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 **WILL GASTEIGER, P.O. Box 1140, TIMMINS, Ontario**

Date Certified **Sept. 27/82** Certified by (Signature) *Will Gasteiger*

2.5232

Kidd Creek Mines Ltd.

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

Exploration Division

May 10, 1983

Mr. E. F. Anderson, Director
Land Management Branch
Whitney Block, Room 6450
TORONTO, Ontario
M7A 1W3

ATTENTION: A. Barr

Dear Sir/Madam:

Re: Geophysical (Electromagnetic & Magnetometer)
Survey submitted on Mining Claims P 628772 et
al in the Townships of Fortune and Cote

I acknowledge receipt of your letter dated May 6, 1983
regarding VLF plans re: your file 2.5232.

Please find the above mentioned signed and dated as per
your request. I apologize for any inconvenience this may
have caused.

Yours truly

Douglas Londry / per pp
DOUGLAS LONDRY

DL/pp
Encls.

RECEIVED	
Land Management Branch	
CIRCULATE	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
MAY 13 1983	
E. F. ANDERSON	
J. R. ANDERSON	
J. C. SMITH	<input checked="" type="checkbox"/>
G. SHERMAN	
J. M. SMALL	
RETURN TO R.6450	



1983 05 06

2,5232

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

Dear Sirs:

RE: Geophysical (Electromagnetic & Magnetometer)
Survey submitted on Mining Claims 232872 et
al in the Townships of Fortune and Cole

Enclosed are the VLF plans, in duplicate, for the above
mentioned survey. Please have the author of the report
date and sign each map and return them to this office.

For further information, please contact Mr. F.W. Matthews
at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

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

A. Barr:sc

Encls:

cc: Mining Recorder
Timmins, Ontario



Jan 31/83

Mining Lands Comments

- EM maps not signed

To: Geophysics *Mr Barkan*

Comments

VLF maps not signed OK!

Approved Wish to see again with corrections Date Feb 28/83 Signature *Byn TCh*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections Date Signature

To: Geochemistry

Comments

LP

Approved Wish to see again with corrections Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1982 12 02

175
2,5232

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 and Magnetometer) Survey submitted
under Special Provisions (credit for Performance and
Coverage) on Mining Claims P 628772 et al in the
Townships of Fortune and Cote.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

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

DW:sc

cc: Kidd Creek Mines Limited
Timmins, Ontario.
Attn: Doug Londry.

Kidd Creek Mines Ltd.

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

Exploration Division

November 25, 1982

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

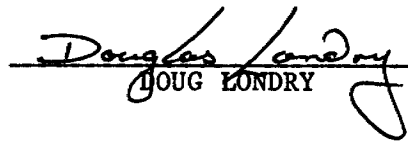
Dear Sir:

Re: Fortune Township Assessment Report

Enclosed please find duplicate copies of a report and maps covering claims in Fortune Township. The claims aforementioned are P-628772 et al.

Your prompt attention to this matter would be greatly appreciated.

Yours very truly,


DOUG LONDY

WG/pp
Encls.

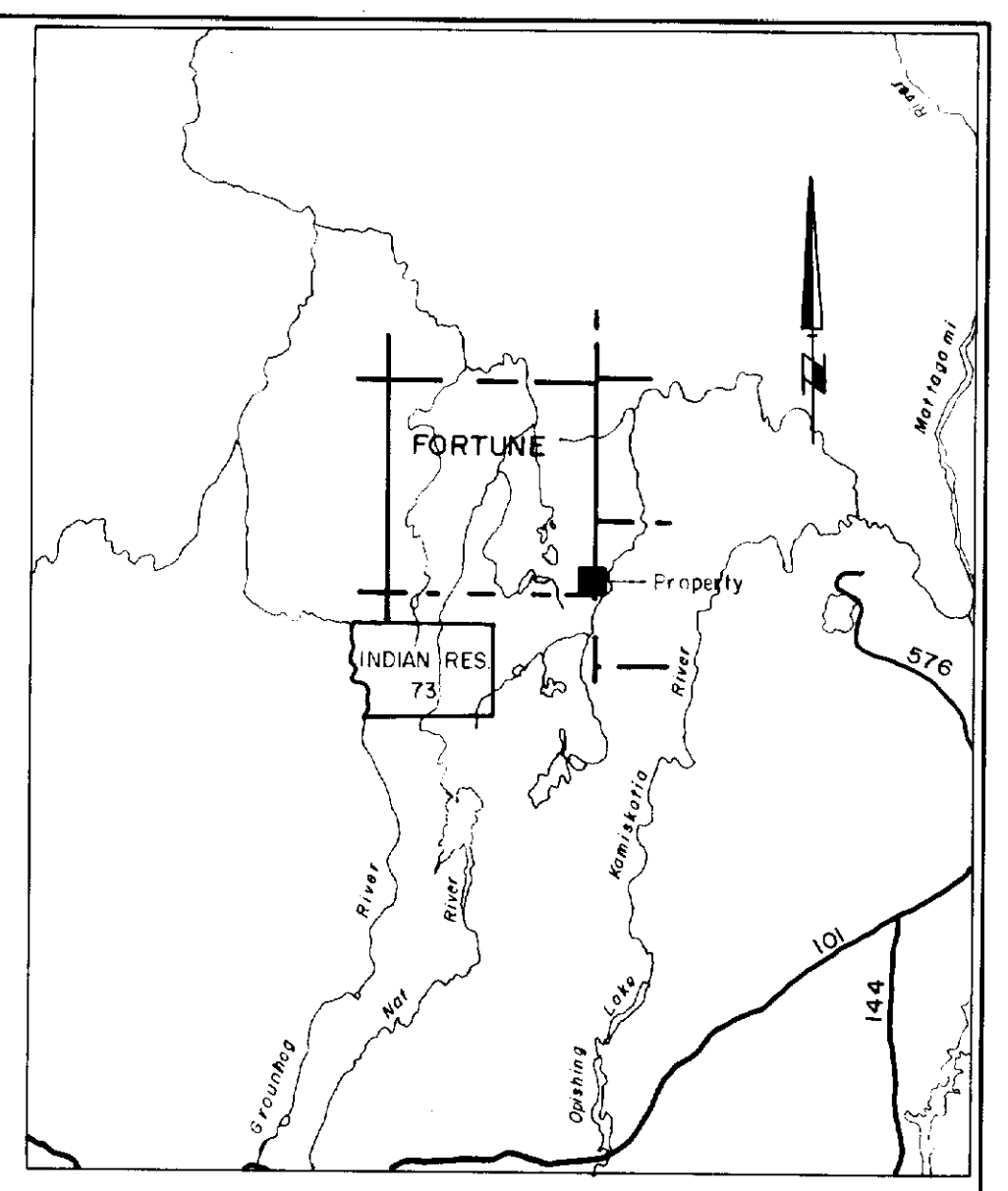
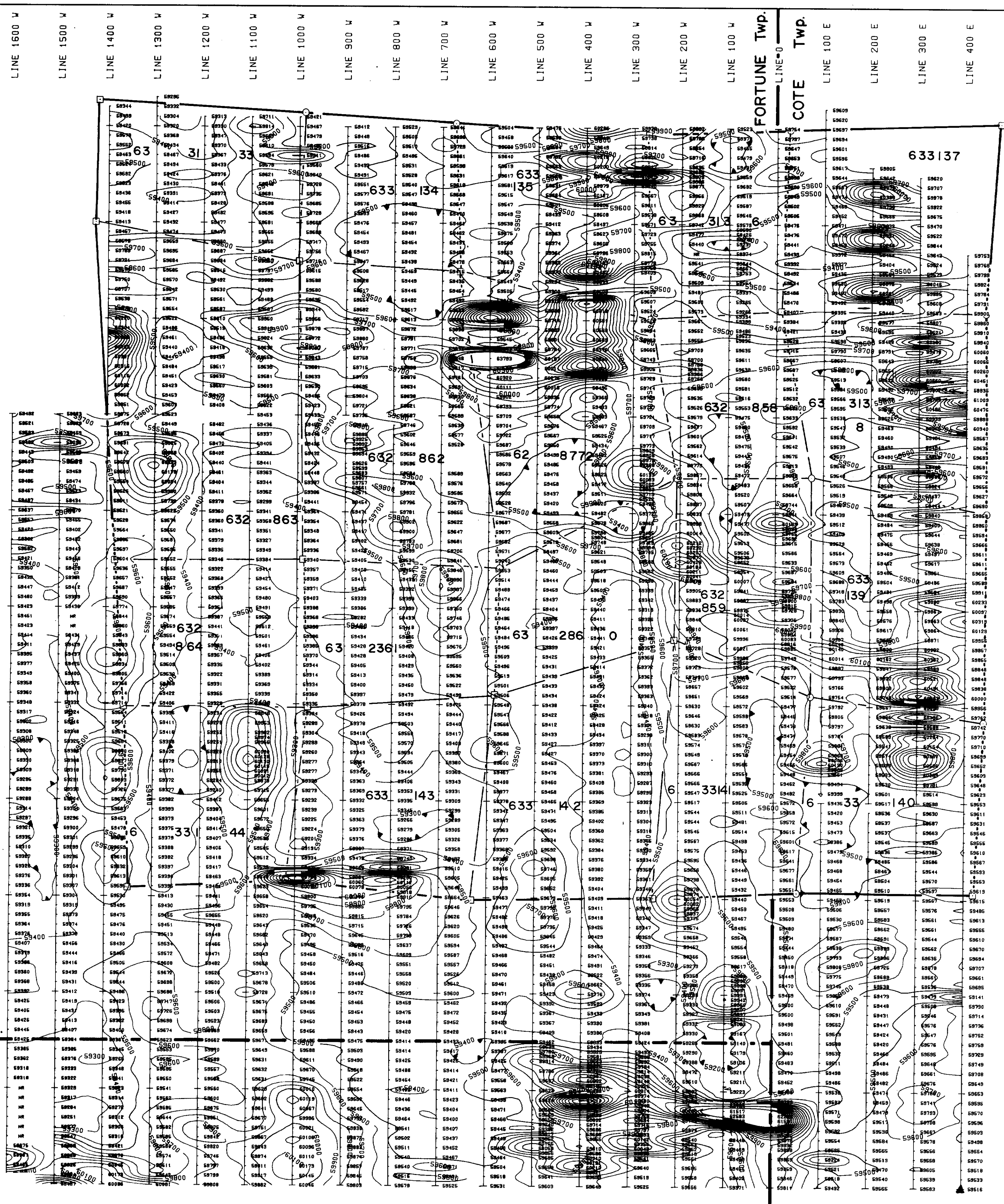
RECEIVED

NOV 26 1982

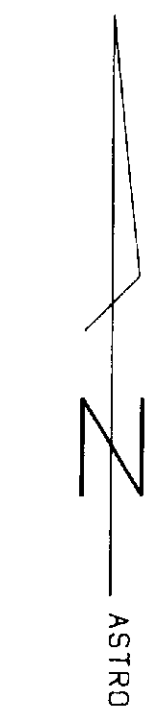
MINING LANDS SECTION

KIDD

	Em (a)	Ma to		Em	mag.
P 628772	✓	✓	633133	✓	✓
632858	✓	✓	134	✓	✓
59	✓	✓	135	✓	✓
60	✓	✓	136	✓	✓
61	✓	✓	137	✓	✓
62	✓	✓	138	✓	✓
63	✓	✓	139	✓	✓
64	✓	✓	140	✓	✓
			141	✓	✓
			142	✓	✓
			143	✓	✓
			144	✓	✓

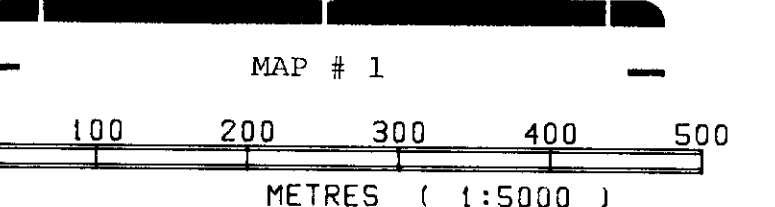


KEY MAP SCALE 1" = 8 miles



LEGEND

INSTRUMENT : GEOMETRICS G816
 TYPE : PROTON PRECESSION, TOTAL FIELD
 READINGS IN GAMMAS



MAP # 1

KIDD CREEK MINES LTD.

MAGNETIC SURVEY

FORTUNE

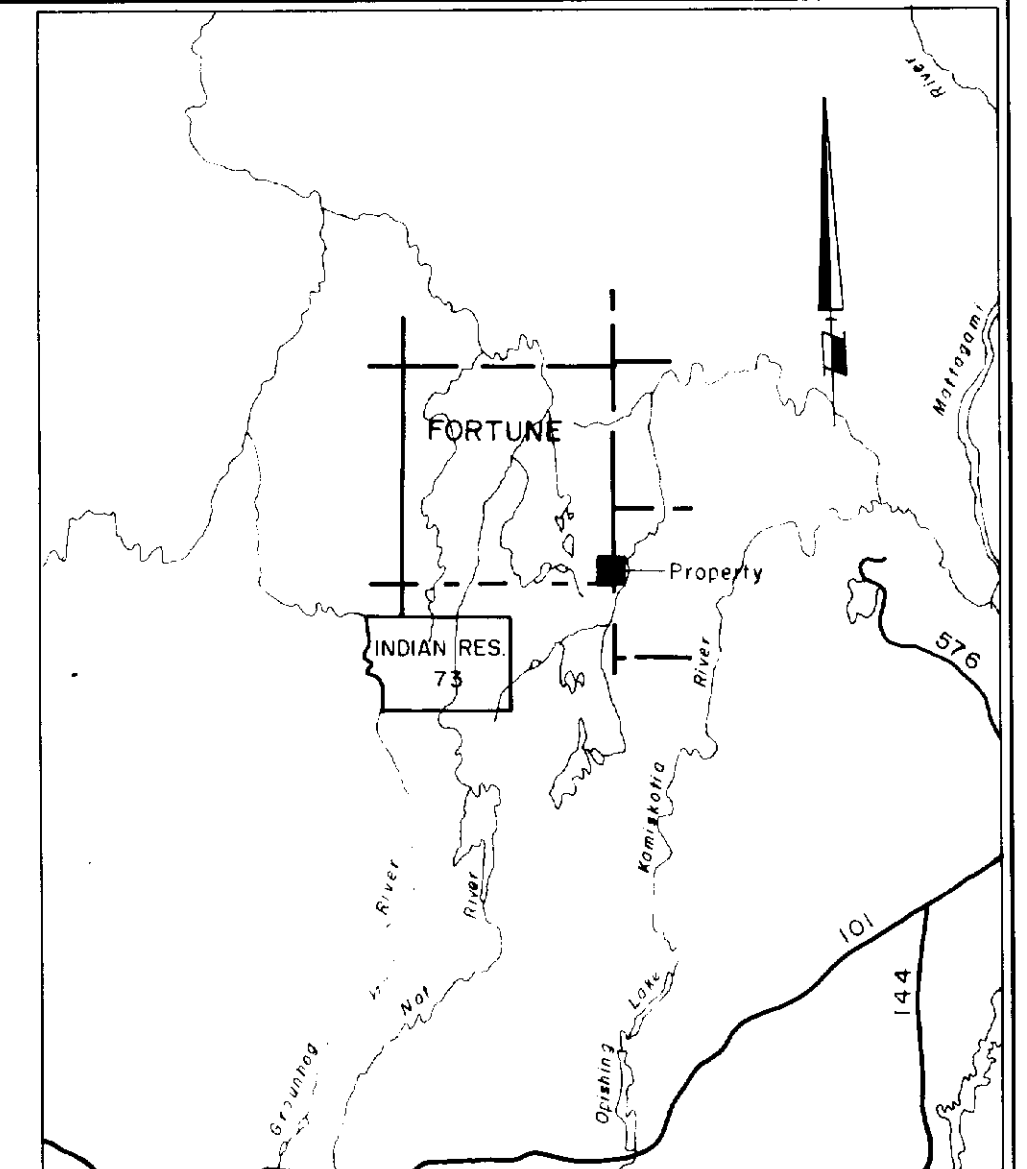
NTS:42-A-12 PROJ. # 11

WORK BY	DATE
<i>Douglas Landry</i>	1982

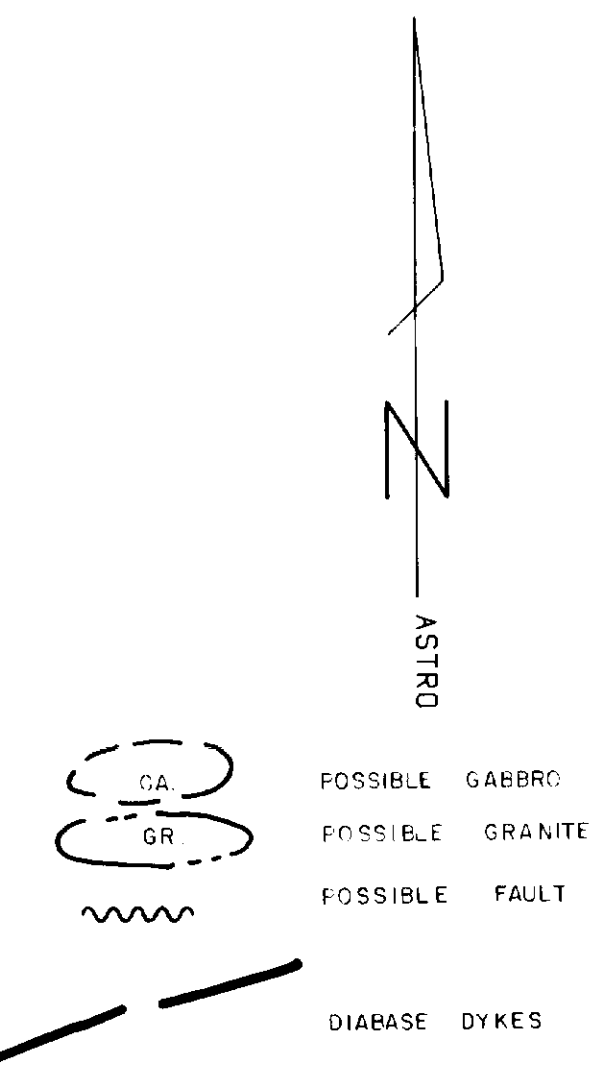


05232

LINE 1600 W
 LINE 1500 W
 LINE 1400 W
 LINE 1300 W
 LINE 1200 W
 LINE 1100 W
 LINE 1000 W
 LINE 900 W
 LINE 800 W
 LINE 700 W
 LINE 600 W
 LINE 500 W
 LINE 400 W
 LINE 300 W
 LINE 200 W
 LINE 100 W
 FORTUNE Twp.
 LINE 0
 COTE Twp.
 LINE 100 E
 LINE 200 E
 LINE 300 E
 LINE 400 E

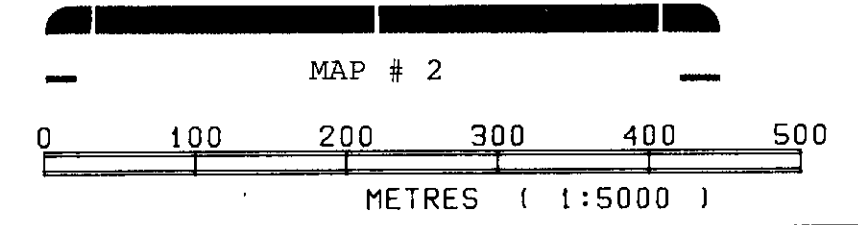


KEY MAP SCALE : 1" = 8 miles



LEGEND

INSTRUMENT : GEOMETRICS G816
 TYPE : PROTON PRECESSION, TOTAL FIELD
 READINGS IN GAMMAS
 ▲ MAGNETIC BASE STATION

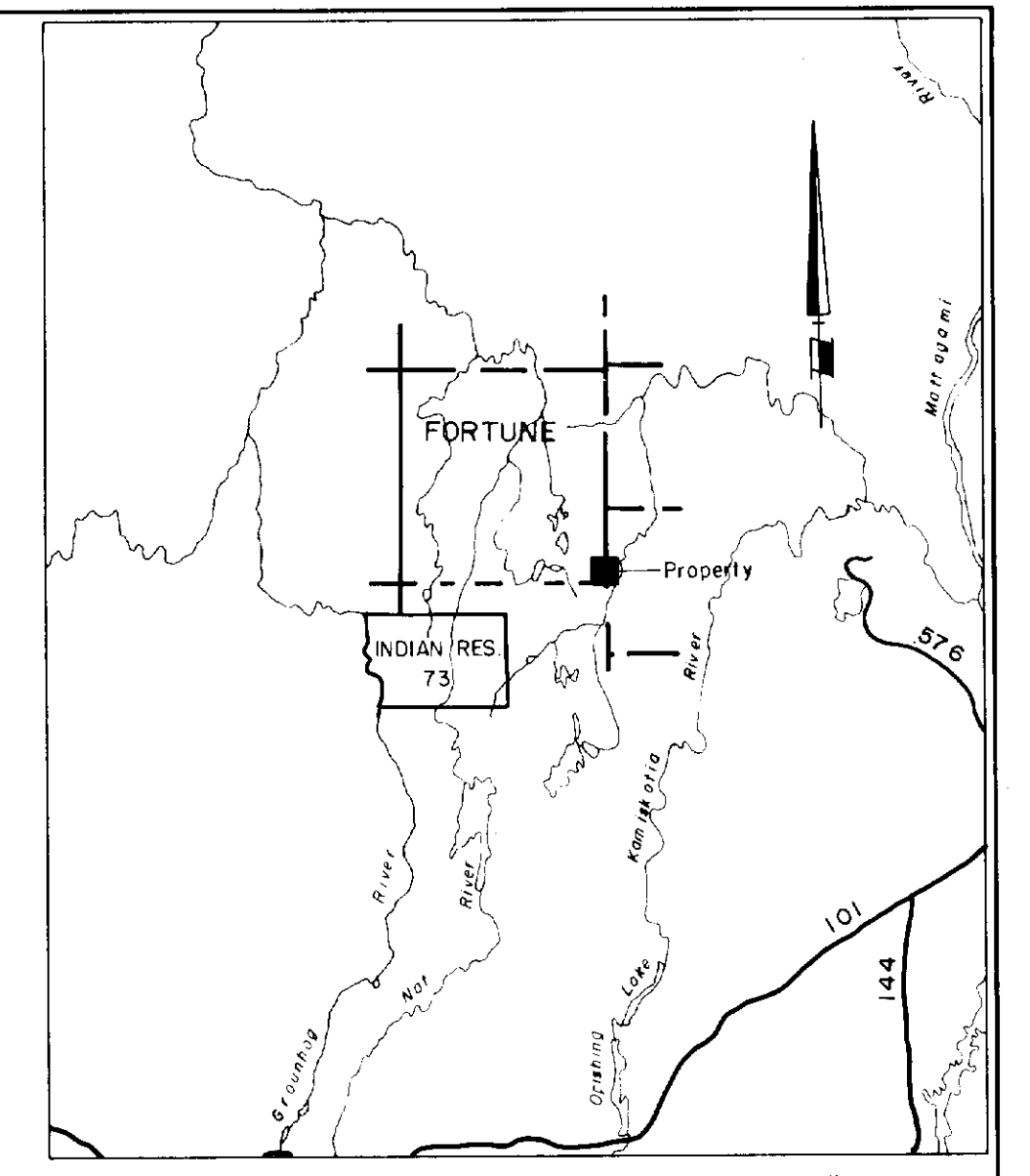
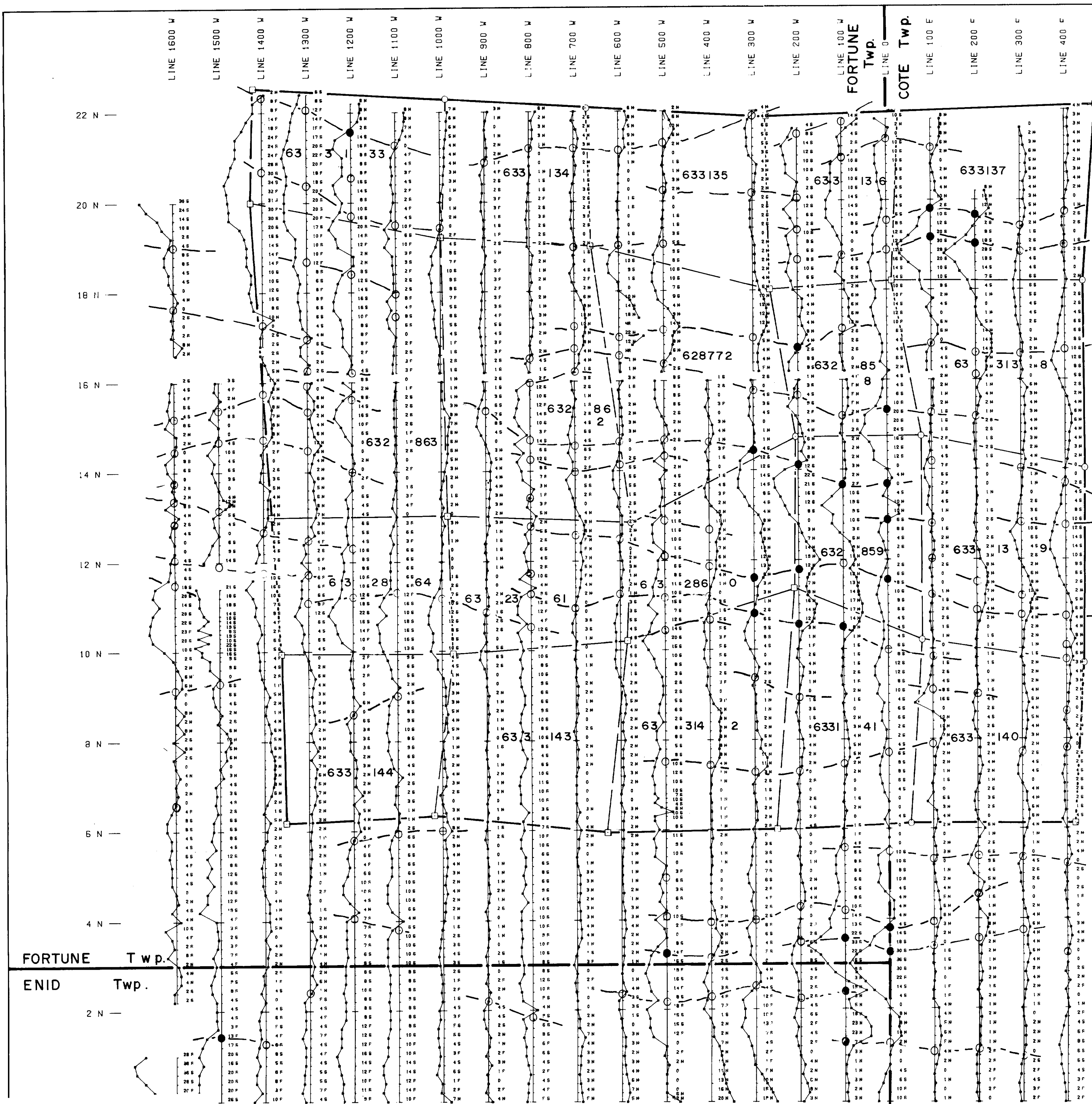


KIDD CREEK MINES LTD.
 MAGNETIC SURVEY
 FORTUNE
 NTS:42-A-12 PROJ.#11

WORK BY	DATE
	1982



20032 Douglas Landry

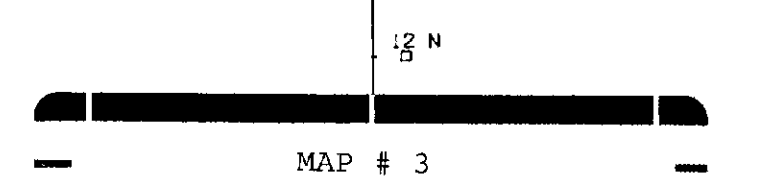


KEY MAP SCALE 1" = 8 miles

- STRONG CONDUCTOR
- WEAK CONDUCTOR

LEGEND

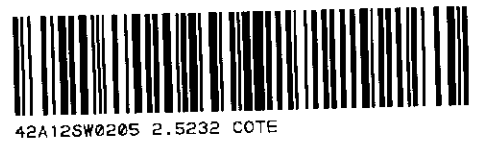
DIP ANGLE (DEGREES)



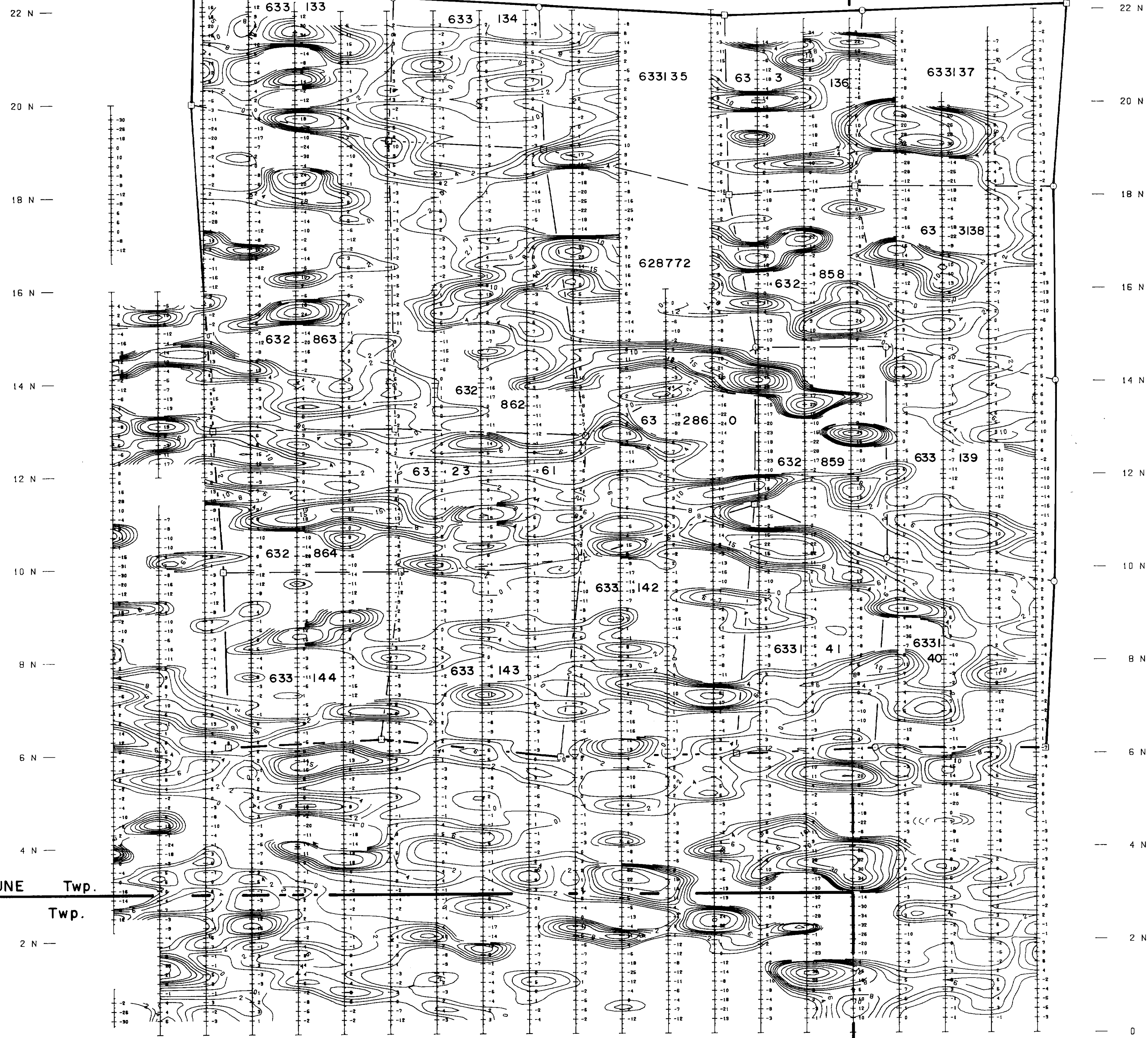
MAP # 3
 INSTRUMENT : CRONE RADEM
 STATION : SEATTLE, 24.6 KHz
 PROFILE SCALE : DIP ANGLE 1 CM = 20°

← S DIPS N DIPS →

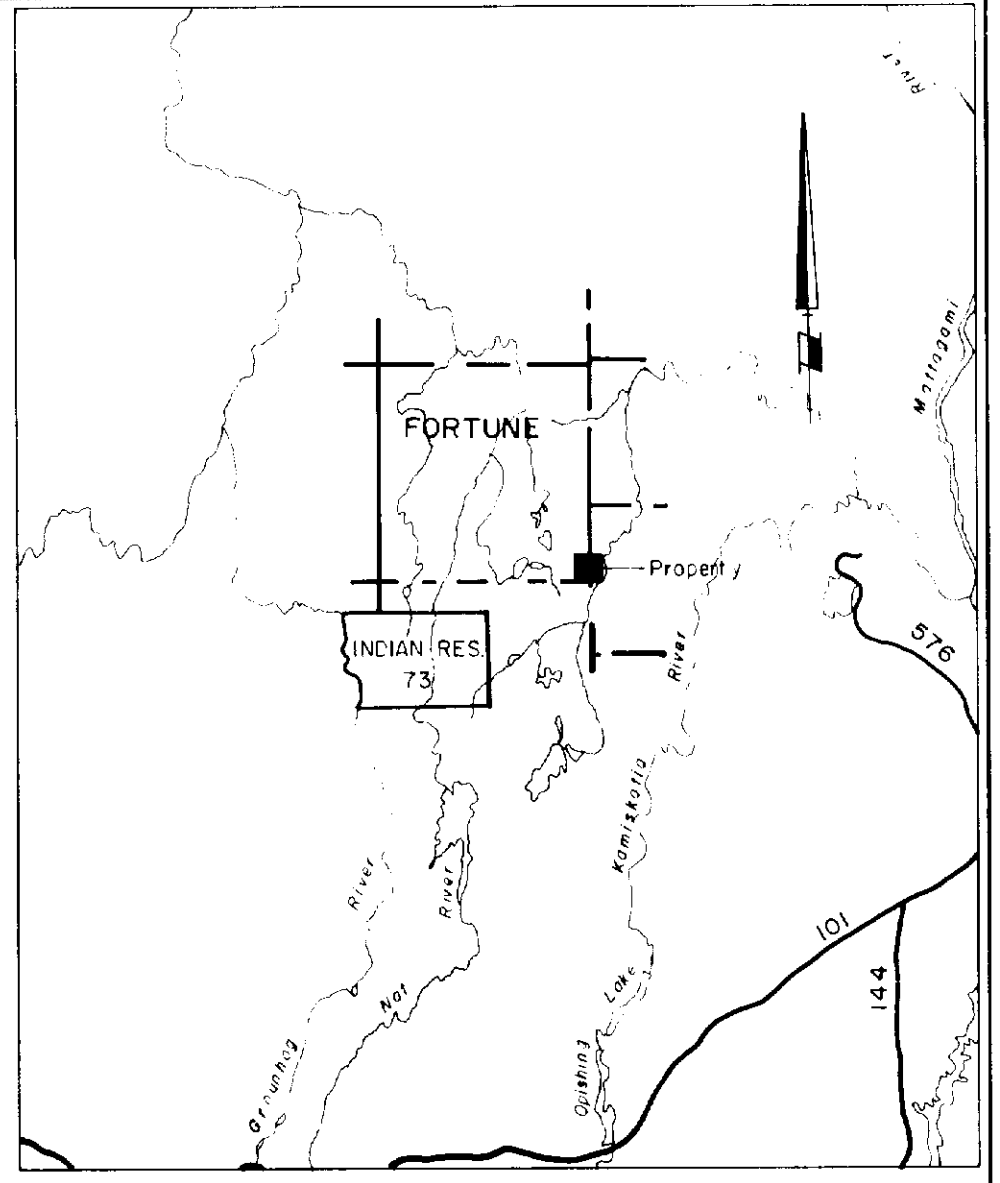
KIDD CREEK MINES LTD.	
V L F SURVEY	
FORTUNE	
NTS:42-A-12	PROJ.#11
 1982	ATE



LINE 1600 W
 LINE 1500 W
 LINE 1400 W
 LINE 1300 W
 LINE 1200 W
 LINE 1100 W
 LINE 1000 W
 LINE 900 W
 LINE 800 W
 LINE 700 W
 LINE 600 W
 LINE 500 W
 LINE 400 W
 LINE 300 W
 LINE 200 W
 LINE 100 W
 FORTUNE Twp.
 COTE Twp.
 LINE 100 E
 LINE 200 E
 LINE 300 E
 LINE 400 E



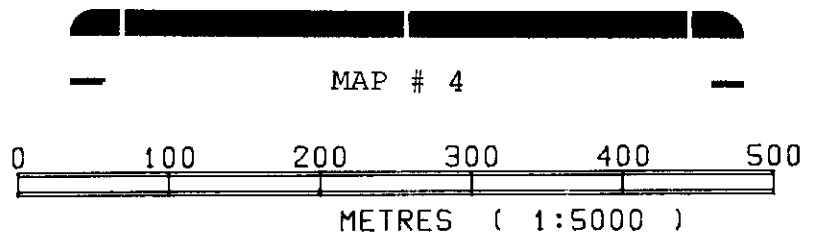
FORTUNE Twp.
 ENID Twp.
 2 N



KEY MAP SCALE 1" = 8 miles



LEGEND



KIDD CREEK MINES LTD.	
VLF SURVEY	
FORTUNE	
NTS:42-A-12	PROJ.#11
WORK BY <i>Douglas Lindsay</i>	DATE 1982

Nov. 25/82 *5232*

