



41009SE0057 2.5581 YEO

010

KIDD CREEK MINES LTD.

REPORT ON GEOPHYSICAL WORK

YEO TOWNSHIP

SWAYZE BELT PROJECT

RECEIVED

MAY 26 1983

MINING LANDS SECTION

MAY, 1983

M.W. ZANG

SUMMARY AND RECOMMENDATIONS

Geophysical surveys consisting of proton precession magnetometer, horizontal loop electromagnetic and VLF electromagnetic traverses were conducted over a group of 4 contiguous claims in Yeo Township. A single, highly conductive, nonmagnetic zone was detected in the June 1982 survey.

No further geophysical surveys are planned for this claim group.



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INTRODUCTION

In June of 1982 a geophysical program consisting of proton precession magnetometer and horizontal loop electromagnetic surveys was carried out on four contiguous claims in Yeo Township. The claims P634424, P634425, P641536 and P641537 are located in the east central part of the township located 115 kilometres south southwest of Timmins.

Access to the property was attained by truck from the Eddy forest road to Sultan west of Highway 144.

People involved in the field work include R. Majcher, R. Daigle and S. Ryan.

There has been no previous work recorded on this property.

SURVEY DESCRIPTION

The base line of the property runs east-west with crosslines cut at 100 metre intervals and stations established every 20 metres.

Magnetic readings were taken with a Geometrics G-816 proton precession magnetometer. This instrument measures the earth's total magnetic field to an accuracy of ± 1 gamma.

Base stations were established by looping at all the cross lines on Base Line 0. All other readings were tied into these stations. A total of 536 stations were sampled along 7.2 kilometres of line.

The horizontal loop survey was carried out with an Apex Parametrics MaxMin II using a coil separation of 160 metres. Readings were taken every 20 metres at frequencies of 444 and 1777 Hz. A total of 282 stations were sampled along 5.76 kilometres of line.

VLF readings were taken with a Crone RADEM EM receiver. This instrument measures the dip angle of the magnetic field component in degrees with an accuracy of $\pm 1/2$ degree. The transmitting station used in this survey was Cutler, Maine which employs a frequency of 17.8 kHz. In this survey a total of 365 readings were taken along 7.2 kilometres of line.

SURVEY RESULTS

The horizontal loop survey outlined a single, highly conductive zone labelled anomaly 'A'. The interpretation of this anomaly at the two survey frequencies is given in Table 1. The anomaly found on Line 800 East at 0+50 North represents a deeply buried bedrock conductor. The VLF results gave a coincident anomaly at this location but there

is no correlating magnetic anomaly. Both electromagnetic surveys indicate that the conductor does not continue to the west.

The VLF survey results gave numerous weak anomalies, many of which are due to outcrop in contact with conductive overburden. The VLF anomaly found on Line 0 through to Line 600 East between 0 and 2+00 North indicates a geologic contact. A parallel anomaly to the north also represents a geologic contact.

The numerous erratic magnetic highs found throughout the property are found coincident to diabase outcrops. Geologic mapping has indicated that four north-south trending diabase dikes are found on the property. These highly magnetic units are probably the cause of the erratic responses recorded in the magnetic survey.


Michael W. Zang

Table 1: Anomaly 'A' June 1982 HEM Anomalies YEO 34, 1777 Hz & 444 Hz, 160m separation

Line	Anomaly Center	Anomaly Width	Indicated Depth	I. P Max.	O. P Max.	Response Parameter	Conductivity Thickness	Remarks
800 E	0+48 N	6m	92m	-6	-2	45	20 mhos	<u>1777 Hz</u> Assume Dip 90° No mag correlation
800 E	0+50 N	2m	96m	-4	-2	25	45 mhos	<u>444 Hz</u> Assume Dip 90°



Ministry of
Natural
Resources

Geotechnical
Report
Approval

June 30/83

File 2.5581

Mining Lands Comments

To: Geophysics *Mr. Barlow.*

Comments

<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date <i>Sept 1/83</i>	Signature <i>Ry TCH</i>
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To: Geology - Expenditures

Comments

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

Comments

LD

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

Purolator

CANADA'S LARGEST COURIER SERVICE - LE SERVICE DE COURRIER LE PLUS IMPORTANT AU CANADA

BILL OF LADING NOT NEGOTIABLE
CONNAISSANCE NON NEGOCIABLE

TYPE OF SERVICE/MODE DE TRANSPORT
VIA GROUND 1 VIA AIR
VOIE TERRESTRE VOIE AERIENNE

72299408 **4**

ACCOUNT NO./NO DE COMPTE	MO 05	DY/JR 24	YR/AN 83	ORIGINATING/POINT D'ORIGINE AREA/ZONE	AIRPORT/AEROPORT	DESTINATION AREA/ZONE	AIRPORT/AEROPORT
--------------------------	-----------------	--------------------	--------------------	--	------------------	--------------------------	------------------

CONSIGNOR (FROM)/EXPÉDITEUR (DE)
Kidd Creek Mines Ltd. (Exploration)
STREET ADDRESS/ADRESSE (NO ET RUE)
571 Moneta Avenue, Box 1140,
CITY/VILLE **Timmins,** PROV. **Ontario** POSTAL CODE/CODE POSTAL **P4N 7H9**

CONSIGNEE (TO)/DESTINATAIRE (A)
Mr. E. R. Anderson, Director
Land Management Branch, Whitney Block,
STREET ADDRESS/ADRESSE (NO ET RUE)
Room 6450, Queen's Park,
CITY/VILLE **Toronto,** PROV. **Ontario** POSTAL CODE/CODE POSTAL **M5S 2V3**

CHECK ONE
COCHER
PREPAID PORT PAYÉ COLL PORT DO

SHIPPER SIGNATURE/SIGNATURE DE L'EXPÉDITEUR	NO DECLARED VALUE/PAS DE VALEUR DÉCLARÉE	COURIER SIGNATURE/SIGNATURE DU TRANSPORTEUR	DATE	TIME/HEURE	WEIGHT RATE/TARIF AU POIDS
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LIMITATION OF LIABILITY IMPORTANT, PLEASE READ
(a) No carrier is liable for loss, damage or delay to any goods carried under the Bill of Lading unless notice thereof setting out particulars of the origin, destination and date of shipment of the goods and the estimated amount claimed in respect of such loss, damage or delay is given in writing to the originating carrier or the delivering carrier within sixty (60) days after the delivery of the goods, or, in the case of failure to make delivery, within nine (9) months from the date of shipment.
(b) The final statement of the claim must be filed within nine (9) months from the date of shipment together with a copy of the paid freight bill.
Maximum liability of two dollars per pound, (or \$4.41 per kilogram) unless declared valuation states otherwise or as provided by special agreement in Condition 2 (see reverse).
N.B. NOTE CAREFULLY CONDITIONS ON BACK HEREOF INCLUDING LIMITATIONS AND EXCLUSIONS OF CARRIER'S LIABILITY, WHICH ARE HEREBY ACCEPTED.

LIMITATION DE RESPONSABILITÉ IMPORTANT, LISEZ S.V.P.
(a) Le transporteur n'est responsable de pertes, de dommages ou de retards aux marchandises transportées qui sont décrites au connaissement, qu'à la condition qu'un avis écrit précisant l'origine des marchandises, leur destination, leur date de l'expédition et le montant approximatif réclamé en réparation de la perte, des dommages ou du retard ne soit signifié au transporteur initial ou au transporteur de destination, dans les soixante (60) jours suivant la date de la livraison des marchandises, ou dans les cas de non-livraison, dans un délai de neuf (9) mois suivant la date de l'expédition.
(b) La présentation de la réclamation finale accompagnée d'une preuve du paiement des frais de transport doit être soumise au transporteur d'origine au plus tard de neuf (9) mois suivant la date de l'expédition.
Responsabilité maximum de \$2.00 la livre (ou \$4.41 le kilogramme) à moins d'indication contraire par la valeur déclarée ou tel que stipulé par entente spéciale à la condition 2 (voir verso).
N.B. VEUILLEZ PRENDRE CONNAISSANCE DES CONDITIONS AU VERSO, Y COMPRIS LES LIMITATIONS ET EXCLUSIONS DE RESPONSABILITÉ DU TRANSPORTEUR, QUI SONT ACCEPTÉES PAR LES PRÉSENTES.

NO OF PIECES/NO DE COLIS	DESCRIPTION	WEIGHT/POIDS	lb.	kg.
1	Envelope		<input type="checkbox"/>	<input type="checkbox"/>
TOTAL	SPECIAL AGREEMENT/DISPOSITIONS PARTICULIÈRES CONDITION 2 AU VERSO	TOTAL WEIGHT/POIDS TOTAL		

RECEIVED IN GOOD ORDER EXCEPT AS NOTED
REÇU EN BON ÉTAT APPARENT SAUF MENTIONS CI-DESSOUS
CONSIGNEE/DESTINATAIRE

DATE
TIME/HEURE

TOTAL CHARGES/TOTAUX

CONSIGNEE / CONSIGNATAIRE

0-100 REV. 11/82

#89 P634424

1983 06 02

2.5581

Mr. William L. Good
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
TIMMINS, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electro-magnetic and Magnetometer) survey submitted under Special P634424 et al in the Township of Yeo.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

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

A.Barr: eib

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

Att: Mike Zang

Kidd Creek Mines Ltd.

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

Exploration Division

May 24, 1983

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

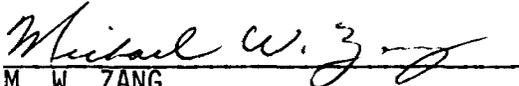
Dear Mr. Anderson:

Re: Yeo Township - Yeo 34 Property

Enclosed please find duplicate copies of a report and maps covering claims in Yeo Township.

Your prompt attention to this matter would be greatly appreciated.

Yours truly,


M. W. ZANG

MWZ/pp
Encls.

RECEIVED
MAY 26 1983
MINING LANDS SECTION

KIDD

ONTARIO M.1188

MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

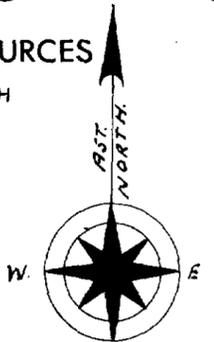
PLAN OF YEO TWP.

FORULPINE MINING DIVISION.

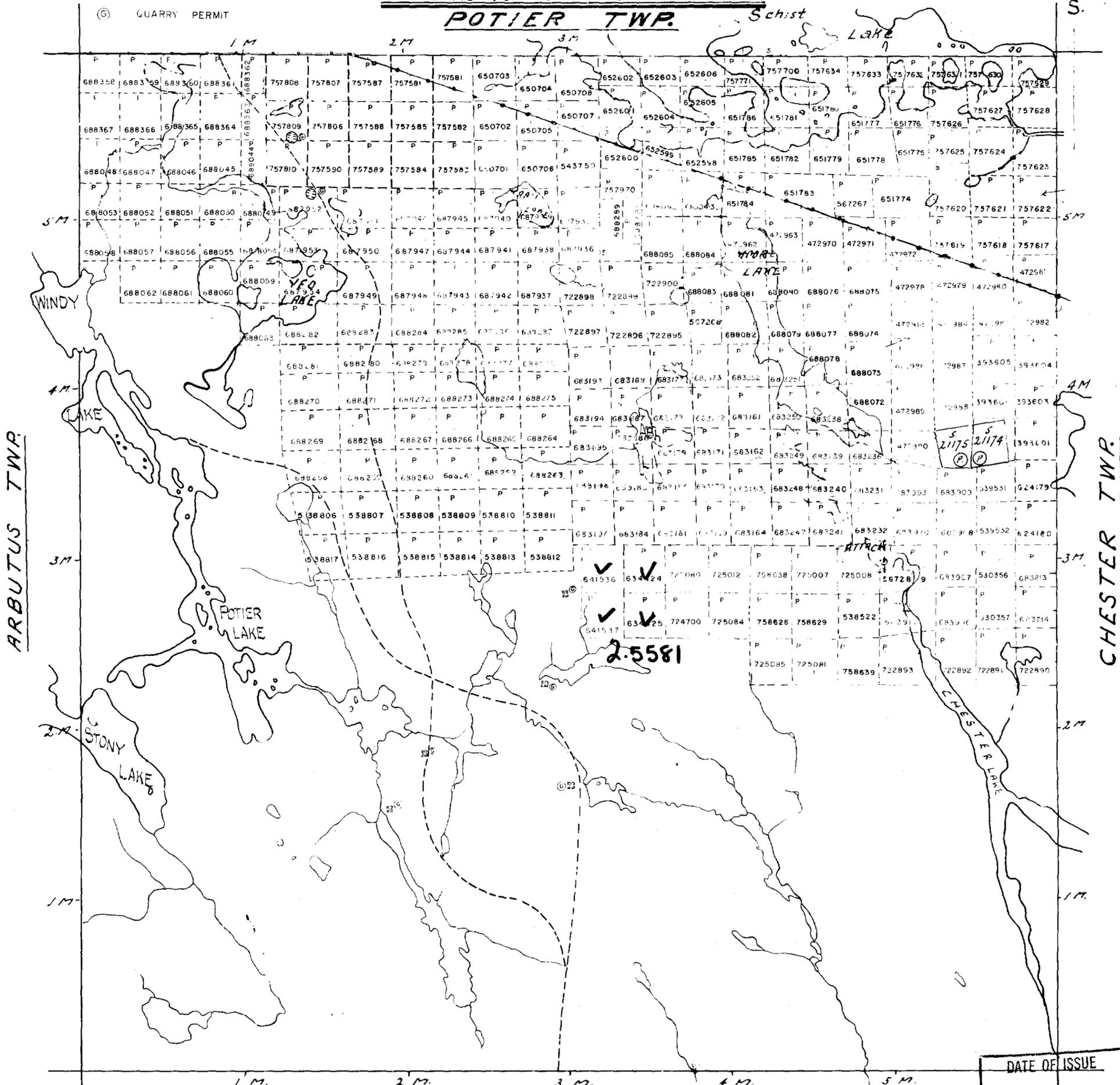
DISTRICT OF SUDBURY

Scale: 40 chains to an inch.

POTIER TWP.



(G) QUARRY PERMIT

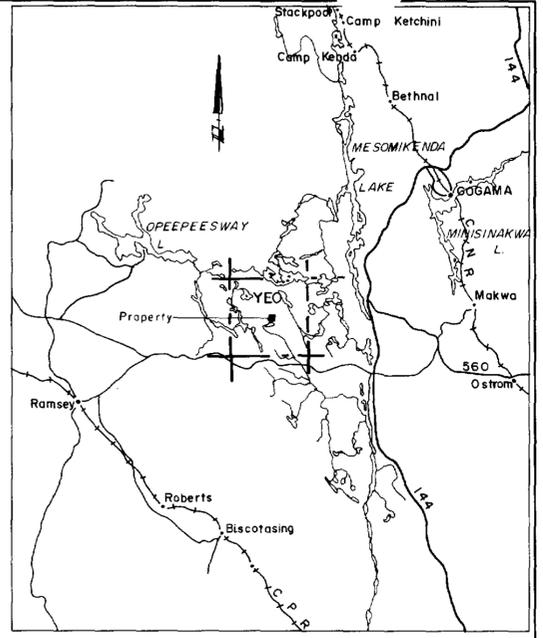
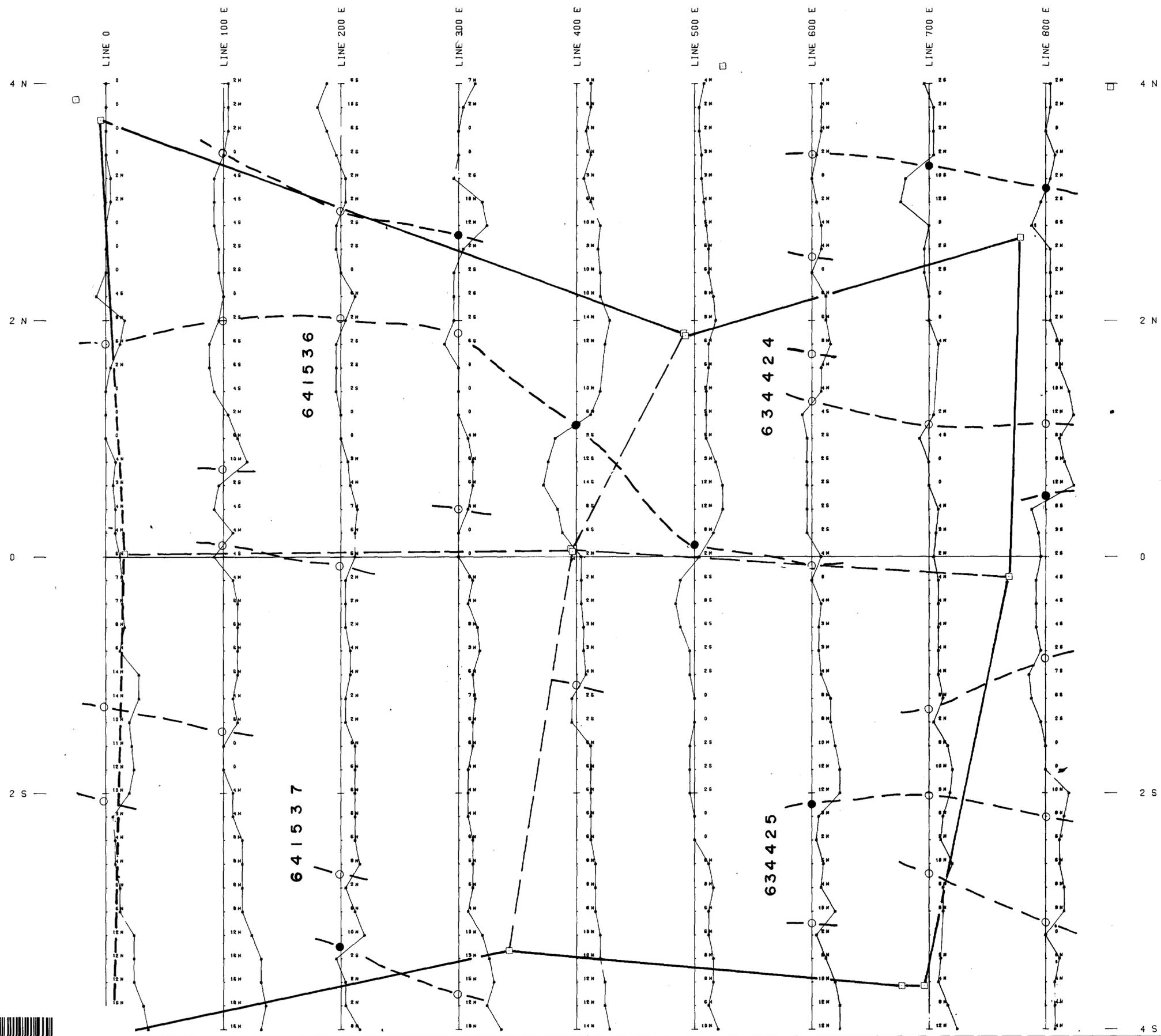


700 Reserve to the Dept. of L & F
SUDBURY DISTRICT

SMUTS TWP

DATE OF ISSUE
SEP 16 1983
Ministry of Natural Resources
TORONTO





KEY MAP SCALE 1:506,880

LEGEND

DIP ANGLE (DEGREES)

12 N

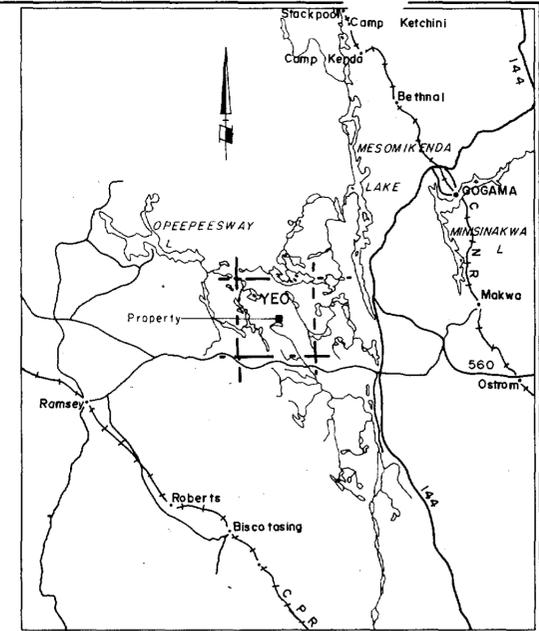
INSTRUMENT : CRONE RADEM
 STATION : CUTLER. 17.8 KHz
 PROFILE SCALE : DIP ANGLE 1 CM = 10°

← S DIPS N DIPS →

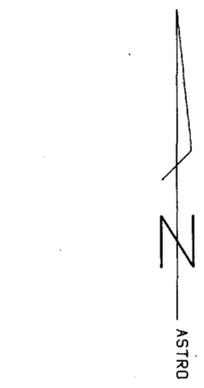
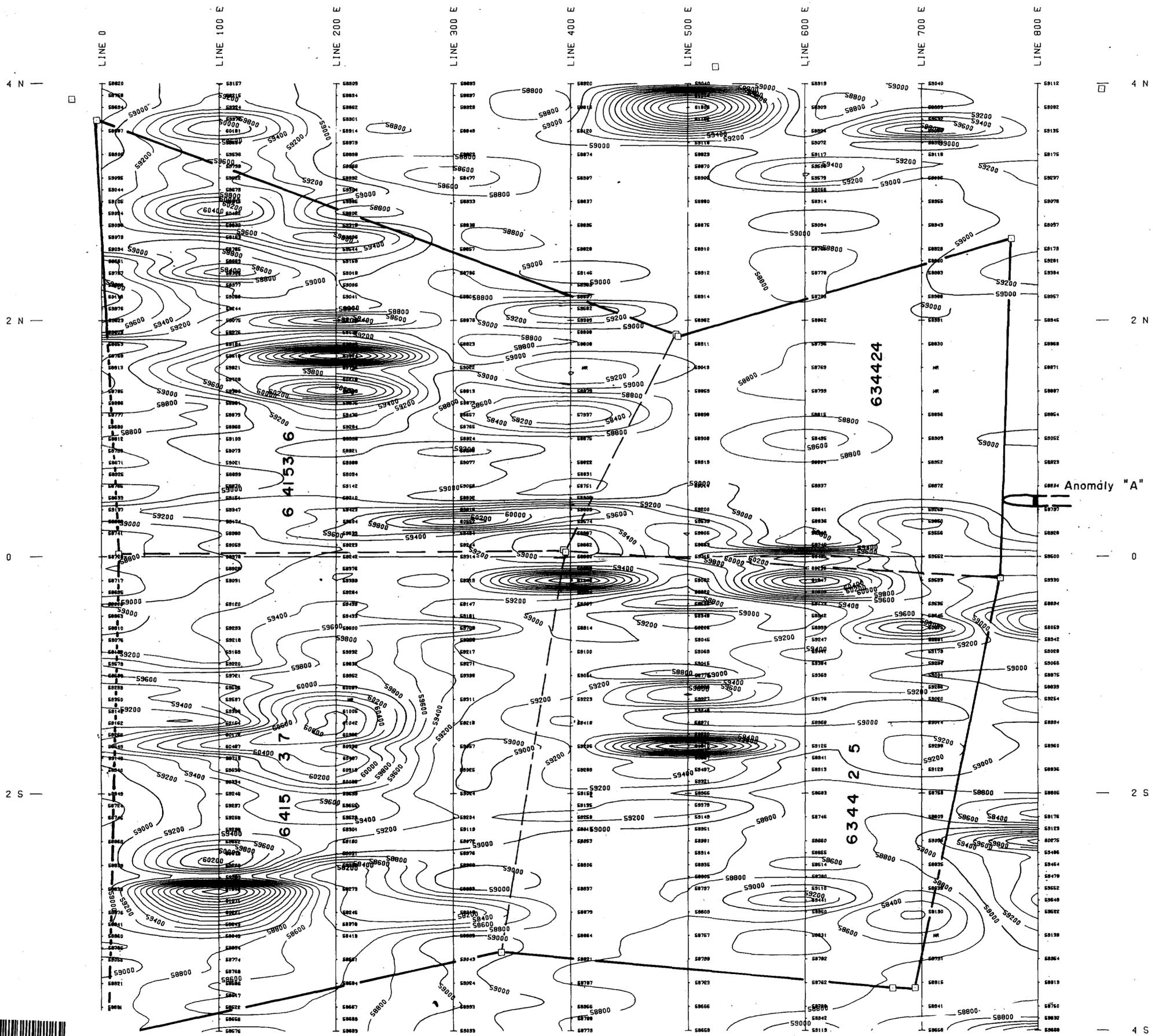


KIDD CREEK MINES LTD.	
V L F SURVEY	
YEO 34	
YEO TWP.	
NTS: 41-0-09	PROJ. #56
WORK BY <i>Michael W. Ziegler</i>	DATE 1982





KEY MAP SCALE 1:506,880



HEM Anomaly

LEGEND

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



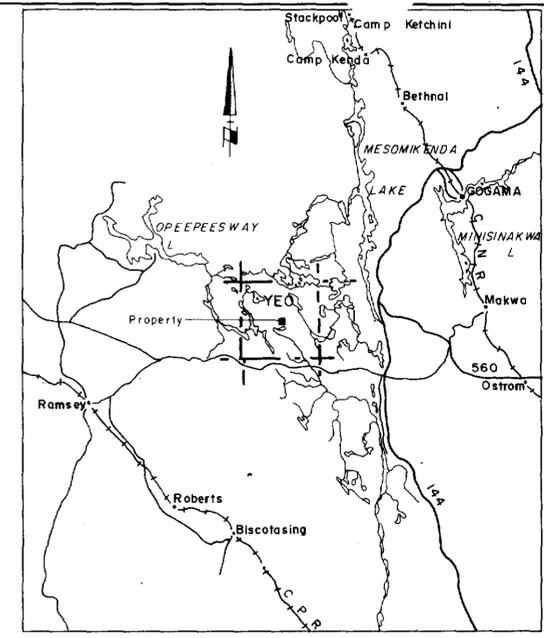
KIDD CREEK MINES LTD.

MAGNETIC SURVEY
YEO 34
YEO TWP

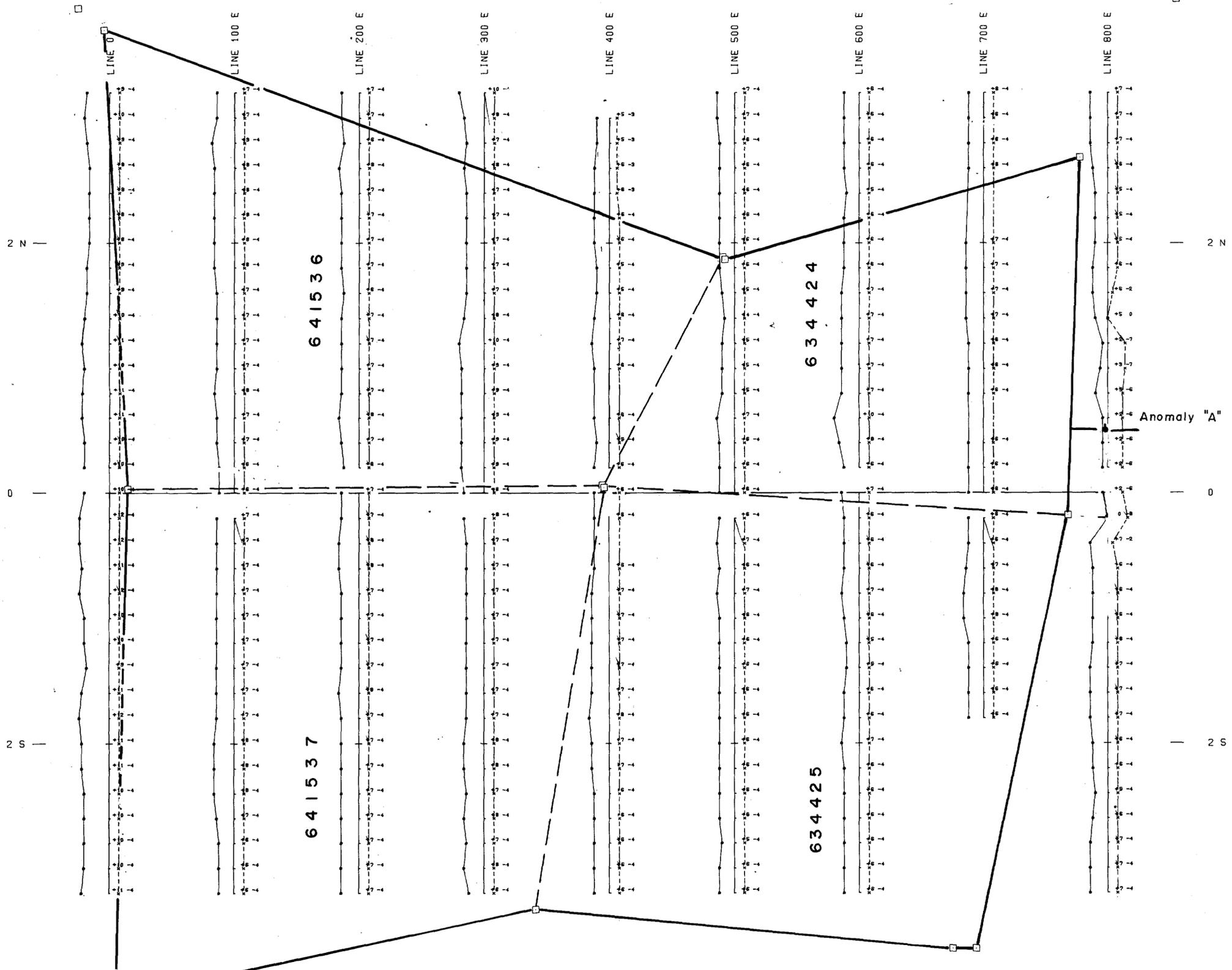
NTS:41-0-9 PROJ #56

WORK BY <i>Michael W. J.</i>	DATE 1982
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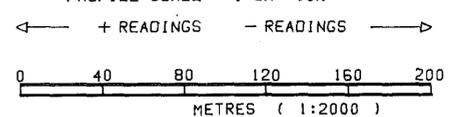
KEY MAP SCALE 1:506,880



LEGEND

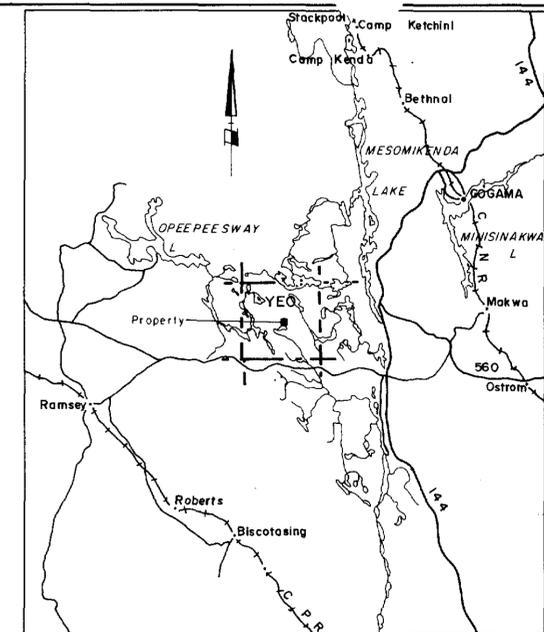
- 444 Hz
- IN-PHASE READINGS
- QUADRATURE READINGS

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

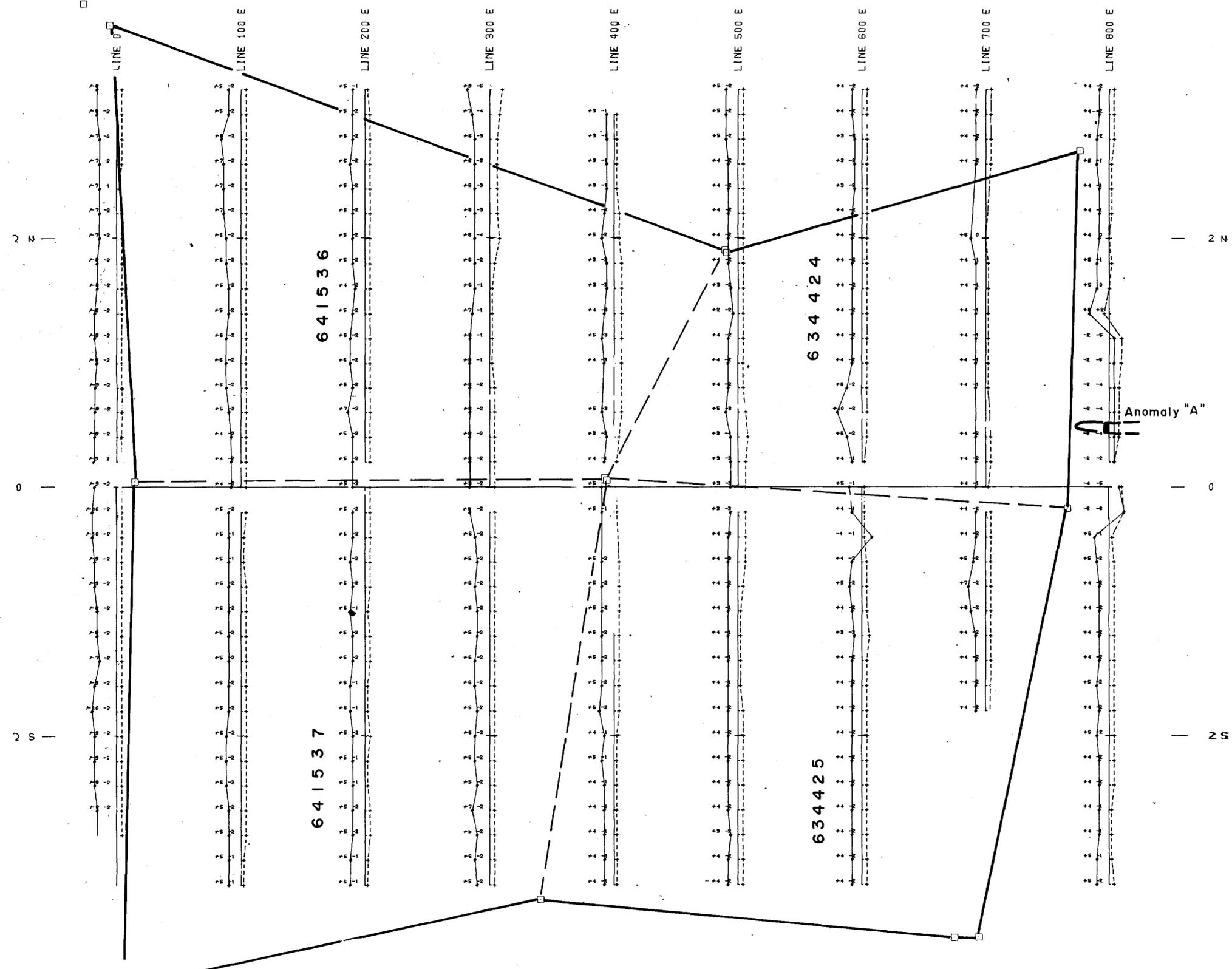


KIDD CREEK MINES LTD.	
HORIZONTAL LOOP SURVEY	
YEO 34	
YEO TWP.	
NTS.41-0-9	PROJ.# 56
WORK BY	DATE
<i>M.W. [Signature]</i>	1982





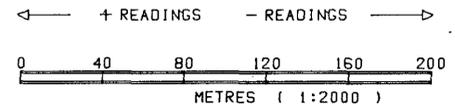
KEY MAP SCALE 1:506,880



LEGEND

1777 Hz
 IN-PHASE READINGS
 QUADRATURE READINGS

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



KIDD CREEK MINES LTD.	
HORIZONTAL LOOP SURVEY	
YEO 34	
YEO TWP.	
NTS. 41-0-9	PROJ. #56
WORK BY <i>M.W. [Signature]</i>	DATE 1982

