GEOSEARCH CONSULTANTS LIMITED

010

Electromagnetic and Magnetic Surveys
by
Geosearch Consultants Limited
for
Placer Dome Inc.
on
Project 282
Keezhik Lake, Ontario
(To Accompany Maps 87-200, 201 #1, 3, 4, 5, 6,
8, 9, 10, 12, 13, 16, 17, 25, 26, 27, 28)

July 25, 1988

INTRODUCTION

An electromagnetic and magnetic survey were carried out for Placer Dome Inc. on Project 282, Keezhik Lake, Ontario in September 1986, and March and September 1987. The south west corner of the claim group was completed in February and March 1988, in conjunction with the adjoining Project 318.

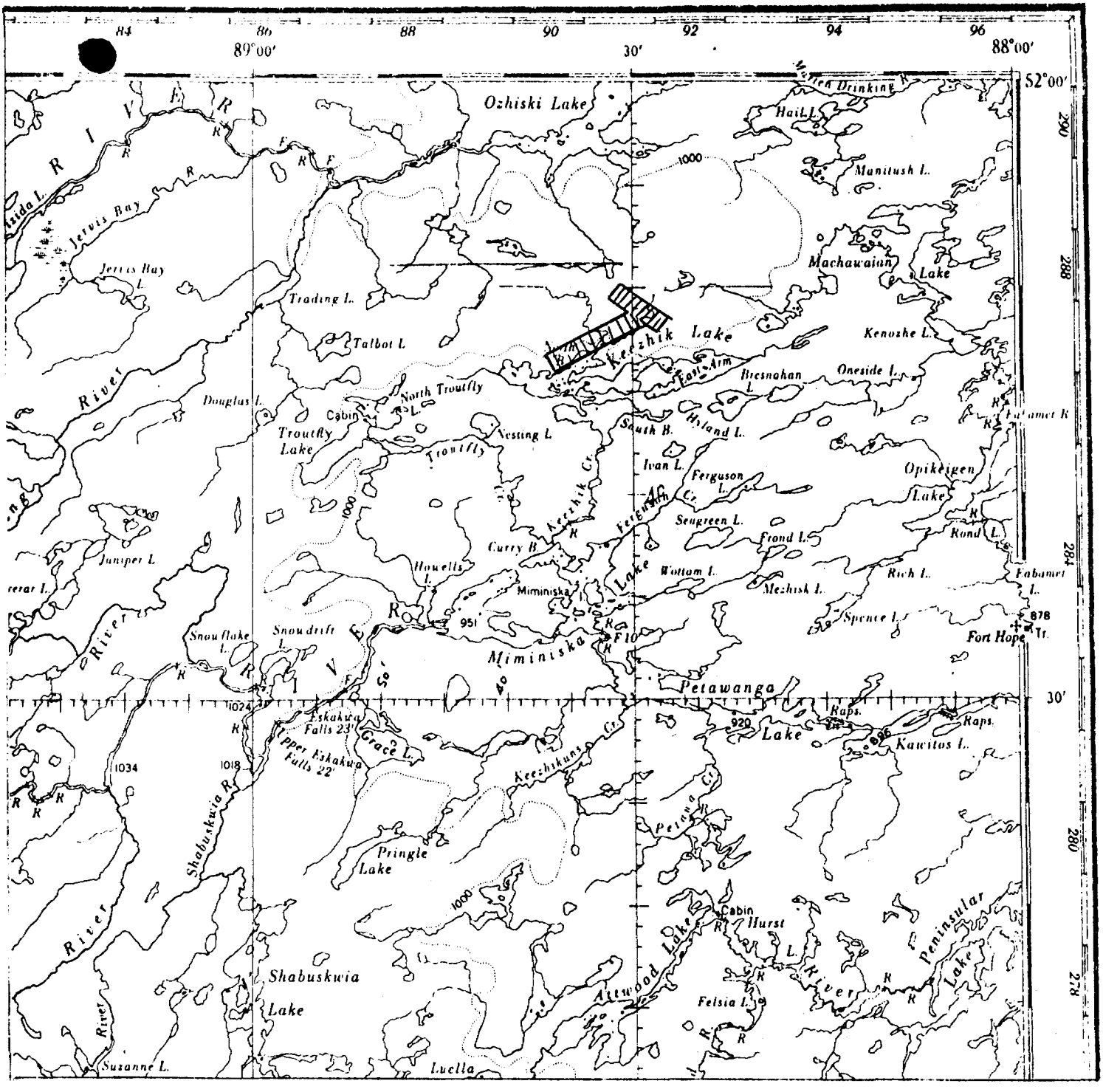
A list of the 31 claims covered by this assessment report is appended to the report. The claim group is located on and north of Keezhik Lake, which is located 120 km. east from the town of Pickle Lake, Ontario. Access to the property was made via fixed wing aircraft from Pickle Lake, Ontario.

The purpose of the survey was to locate subsurface, geo-electrical conductors, and outline geological structures as defined by the magnetics, which may prove conducive for gold mineralization.

Fifteen conductors were located. The magnetic survey outlines a major iron formation unit which reveals one tight fold, plus six transcurrent faults.

The accompanying maps show the area surveyed and the results obtained.

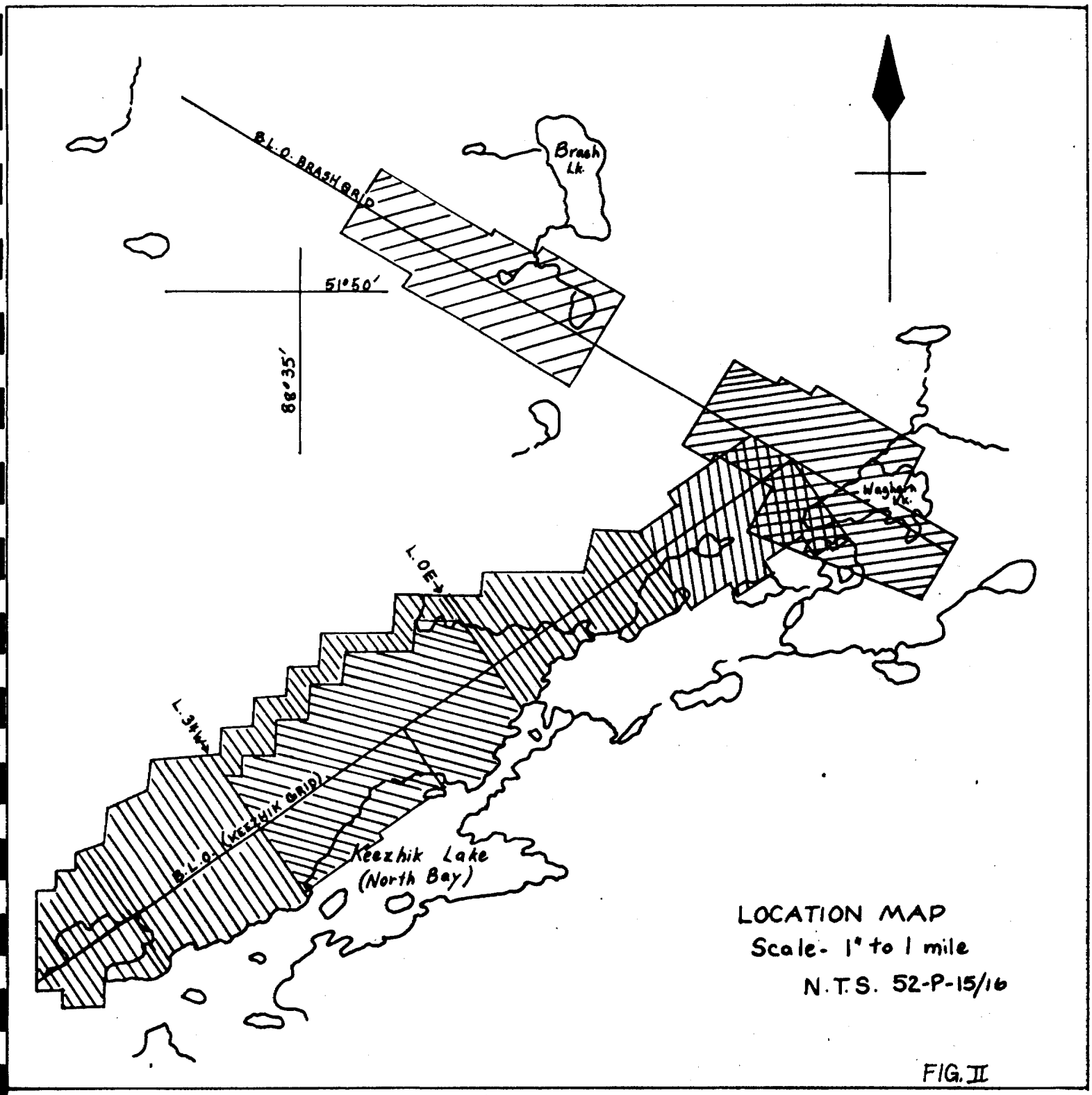
A technical data sheet is appended to the report.



APPROXIMATE GRID LOCATION

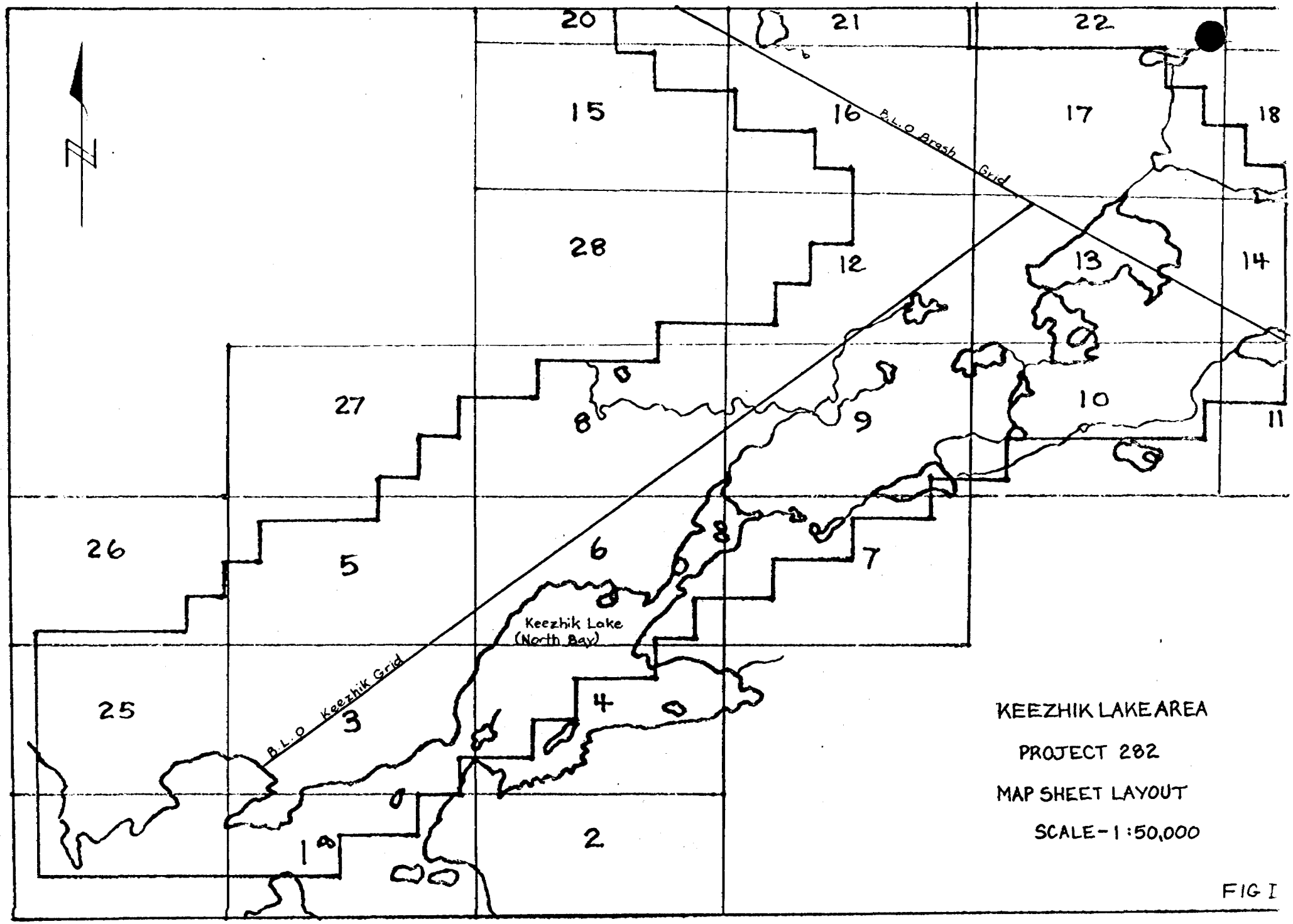
SCALE 1:506,880

FIG. I



LOCATION MAP
Scale- 1" to 1 mile
N.T.S. 52-P-15/16

FIG. II



KEEZHIK LAKE AREA

PROJECT 282

MAP SHEET LAYOUT

SCALE - 1 : 50,000

FIG I

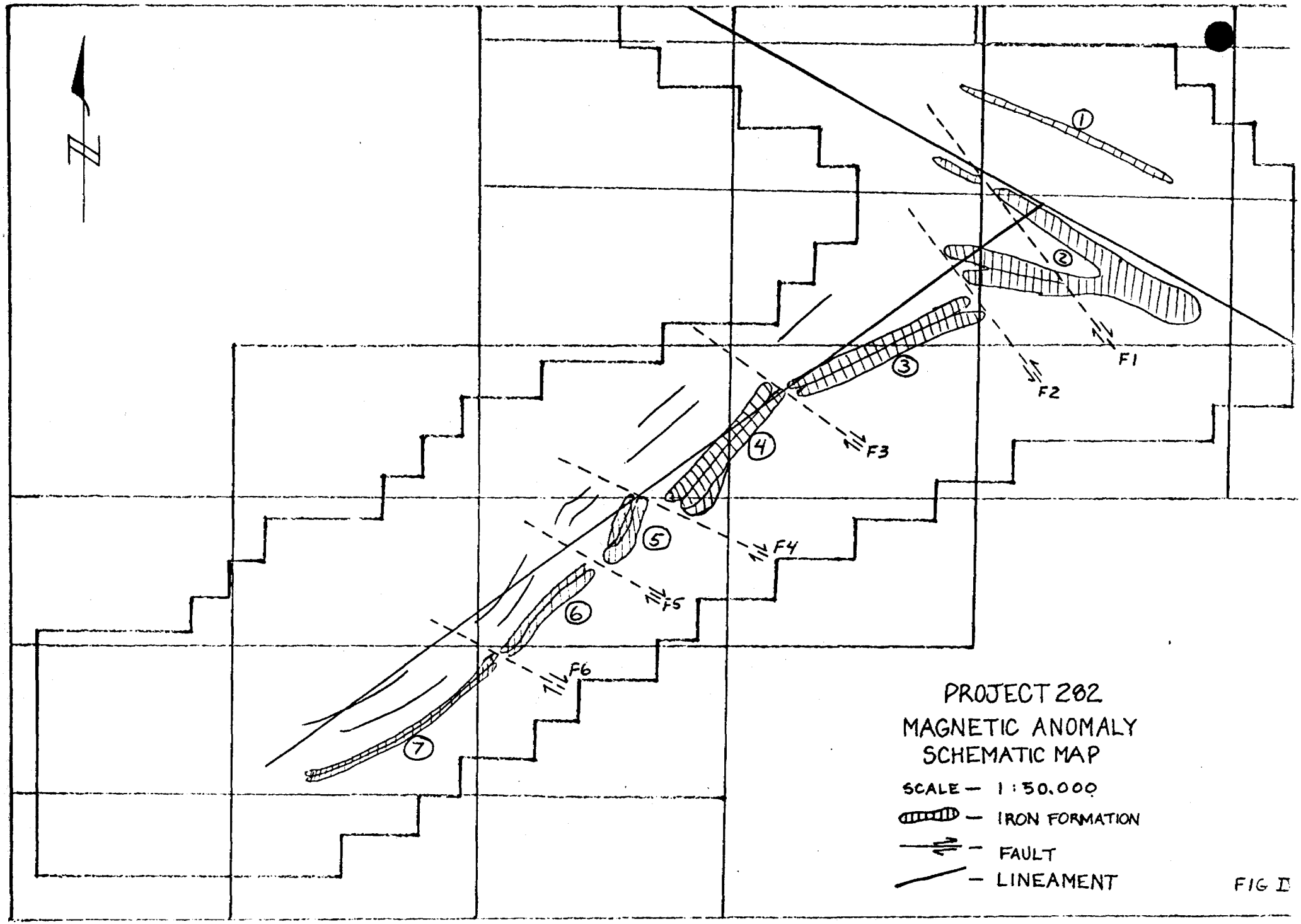

N
1
2
3
4
5
6
7
F1
F2
F3
F4
F5
F6
PROJECT 202
MAGNETIC ANOMALY
SCHEMATIC MAP
SCALE — 1:50,000
— IRON FORMATION
— FAULT
— LINEAMENT

FIG I

METHOD AND INTERPRETATION OF RESULTS - ELECTROMAGNETIC SURVEY

Operating Principle: When an electrical conductor is subjected to a primary alternating field, a secondary current is induced in the conductor. This current produces a secondary alternating field which together with the primary field produces a resultant field of different amplitude and phase from the applied primary field. These differences may indicate the presence of a conductor.

Operation: The battery-powered transmitter sets up a primary field while the in-phase and out-of-phase (quadrature) components of the complex secondary vertical field are detected by a receiving coil and measured by means of a compensator-amplifier unit located a fixed distance from the transmitter unit. These parameters are expressed in percentage of the primary field.

Conductor Recognition: The typical curve over a steeply-dipping conductor shows a low (negative - greater than 5%) over the centre of the conductor, flanked by positive readings on both sides of the conductor. Both the in-phase and the out-of-phase components usually produce the same general shape of curve. An asymmetrical curve may indicate one or more of the following conditions: (1) more than one conductor (2) variable conductive overburden (3) a shallow dipping conductor.

Conductivity Determination: The ratio of the amplitudes of the two measured components, in-phase to out-of-phase, is directly proportional to the conductivity of the conductor, in areas of non-conductive overburden.

Conductor Location: For a single conductor, both component readings are normally zero when either the transmitting or receiving coil is directly above the conductor. The location of the conductor is calculated by adding one-half the distance between the transmitting coil and the receiving coil (coil interval) to the co-ordinate at which the readings are zero. A unique solution is generally not possible in the case of multiple conductors spaced less than one coil interval apart. This results in the possibility that an apparently wide conductor may actually consist of two or more narrow conductors.

Depth of Penetration: The maximum depth of penetration for detection of a steeply-dipping conductor in a geo-electrically neutral background is about 0.7 times the coil interval. Over horizontal or flatly-dipping conductors, penetration of up to 1.5 times the coil interval is possible.

RESULTS

The magnetic data collected was contoured by Dome Exploration (Canada) Ltd.

The magnetic survey outlines a broad band of highly magnetized rock with amplitudes in excess of 60,000 gammas above a background of 59,000 gammas.

This banded iron formation reveals many structural features, namely a tight fold and six apparent transcurrent faults. To aid in the discussion of these features, reference will be made to numbers on the accompanying schematic of the magnetic anomalies, Fig. IV. Two base lines were used in this survey, with similar line numbers. To avoid confusion, reference will be made when a line is part of the Brash Lake Grid and none will be made when the lines correspond to the Keezhik Lake Grid (Fig. III).

1. This long, linear IF band extends from L14+00E, 5+25N (Brash Grid, Map 16) to L39+00E, 7+00N (Brash Grid, Map 13). This vertical dipping band is less than 100 metres wide. Magnetic values are up to 46,000 gammas above background, being highest on L21+00E (Brash Grid, Map 17) where the band is widest.

2. Parallel to this is a second band of IF. This latter unit is the north limb of a tight fold. It extends from the edge of the surveyed area at L14+00E, 1+50S (Brash Grid, Map 16) to the nose of the fold at L45+00E, 3+00S (Brash Grid, Map 13). The southern limb extends from the

nose to L31+00E, 2+00N (Map 12), where it is truncated by a fault, F2. The northern limb is approximately 100 metres wide and is vertically dipping. The nose of the fold is elongated with a large concentration of magnetite at its tip, centred on L41+00E, 3+00S (Brash Grid, Map 13). The southern limb, which is wider than the northern limb, dips to the south/southeast. The western extremity of this band is over 300 metres wide and consists of two distinct magnetic bands, 250 metres apart.

ie) 1 - L32+00E, 2+00N to L36+00E, 0+00 (Map 12)

2 - L32+00E, 0+50S (Map 12) to L38+00E, 3+00S (Map 13).

There appears to be a dextral fault, F1, passing through this fold. The fault axis is almost coincident with L40+00E of the Keezhik Lake grid. The fault is suggested by the narrowing of the magnetic contours on the southern limb between L40+00E and L41+00E at 6+25S (Map 13) and the break in the contour lines of the northern limb at L20+00E, 1+50S (Brash Grid, Map 17). The fault appears to displace the southern limb by 100 metres. No displacement is observed on the northern limb.

Fault F2 displaces the southern limb of the fold approximately 600 metres to the south east. This sinistral fault is located along a line connecting L33+00E, 8+00S (Map 13) and L31+00E, 2+00N (Map 12).

3. The IF unit to the south west of this fault, F2, is over 300 metres wide and also consists of two narrower highly magnetic bands. One of these narrow bands extends from L29+00E, 3+62S to L12+00E, 0+25S, (Map 9). It is 50 metres wide and appears to be slightly folded, the nose of which is centred on L23+00E, 250S (Map 9). The second more southerly band extends from L31+00E, 6+00S to L11+00E, 1+25S (Map 9). It has a variable width on the order of 150 metres. The entire unit dips to the southeast.

This IF band is truncated by a dextral fault, F3, located from L7+00E, 6+00N (Map 8) to L12+00E, 4+25S (Map 9. There is an apparent 200 metre displacement along this fault.

4. The IF unit continues southwest of the fault, F3, extending from L9+00E, 0+50N (Map 9) to L6+00W, 2+50S (Map 6). This 400 metre wide unit dips to the southeast and still consists of two narrow bands, however the two bands become less distinct toward the western fault, F4, boundary.

There is a very pronounced break in the IF unit between units 4 and 5. A dextral fault extends from

L4+00W, 8+00S (Map6) to L10+00W, 3+50N (Map 8) yielding a 300 metre displacement.

5. Southwest of this fault, F4, the IF extends from L9+00W, 0+00 (Map 8) to L15+00W, 3+00S (Map 6). The IF unit continues to consist of two narrow bands which are 200 metres apart. The individual bands are becoming more narrow. This IF unit dips to the south east, however the strike is becoming more northerly due to the series of dextral faults. This unit terminates on a dextral fault, F5, located between L13+00W, 7+25S to L18+00W, 3+75N (Map 6). The apparent displacement is 130 metres.

6. The IF band south west of fault F5 extends from L16+00W, 2+75S (Map 6) to L29+00W, 7+00S (Map 4). The pair of narrow IF bands are still distinct however they are becoming narrower and more closely spaced. The entire unit still dips to the south east. A narrowing of the contour lines at L29+00W, 7+00S (Map 4) suggests a dextral fault, F6.

7. The iron formation extends from this fault, F6, to the edge of the surveyed area at L52+00W, 3+50S (Map 3). Within this section the magnetic high values are spotted creating less resolution for the pair of narrow magnetic bands. This unit dips to the south east and is on the order of 200 metres wide. It is within this section that conductors #13 and 14 are located.

8. Parallel to this highly magnetic IF there are a number of less magnetic, 5000 gamma, lineaments. These are located approximately 200 to 400 metres north of the IF extending from L22+00E, 4+00N (Map 12) to L53+00W, 0+00 (Map 3). These are narrow, non-continuous linear features which form a definite trend parallel to the IF units. It is within these lineaments that most of the conductors are located.

The horizontal loop electromagnetic survey located fourteen conductors. #6 and #7 are long parallel conductors. #13 and #14 are associated with the iron formation. Many are one line, short strike length conductors. The following table lists the conductors and defines their characteristics. The depth estimates and conductivity thickness product are calculated using the thin ribbon model.

RECOMMENDATIONS

The magnetic survey outlines a long IF unit which is broken up by many apparent faults. These structural features should be investigated and verified by geological mapping. The absence of outcroppings may require drilling for geology.

The conductors are concentrated in one general area, mostly away from the iron formation. Based on conductivity and width the following are recommended drill targets.

	Conductor #	Line	Map
1)	3	12+00W	8
2)	6	27+00W	5
3)	7	30+00W	5
4)	12	42+00W	3
5)	13	45+00W	3

GEOSEARCH CONSULTANTS LTD.

Louis Racic, B.Sc.

Geophysicist

2.8011

Cond. #	Map Sheet	Line #	Station	Max. App. Width (m)	IP/OP HF	IP/OP LF	Mag. Corr.	Mag. Val. (gammas)	Depth Est. (meters) HF	Depth Est. (meters) LF	σt (mhos-m) HF	σt (mhos-m) LF	Remarks
1	8	4+00W	9+67N	Min.	.7	.5	yes	300	53	79	2.3	15.6	indefinite conductor
2	8	8+00W	8+00N	Min.	2	1	no	-	78	89	7.3	17	indefinite conductor
3	8	12+00W	6+98N	Min.	7	2	no	-	80	93	11.8	47	indefinite conductor
	8	13+00W	6+60N	Min.	2	2	no	-	67	79	5.8	15.6	
4	8	15+00W	7+33N	Min.	.5	.6	no	-	35	82	1.1	6.2	indefinite conductor
	8	16+00W	6+92N	Min.	.5	-	no	-	42	101	1.7	11.3	
	8	17+00W	6+27N	Min.	1	.6	no	-	57	82	2.3	6.2	
5	6	19+00W	5+71N	Min.	1	1	flank	280	-	-	-	-	indefinite conductor
6	6	20+00W	4+90N	Min.	.7	.5	no	-	-	-	-	-	indefinite on Lines
	6	21+00W	4+38N	Min.	-	-	no	-	-	-	-	-	20+00W to 22+00W
	6	22+00W	3+73N	Min.	.6	.3	no	-	-	-	-	-	conductivity varies
	6	23+00W	3+35N	Min	-	-	yes	1370	-	-	-	-	along length
	6	24+00W	2+90N	Min.	1	.6	yes	1735	38	45	3.2	6.2	
	6	25+00W	2+37N	Min.	1.3	1	flank	898	45	55	4.4	13.4	
	6	26+00W	2+06N	Min.	1	.8	flank	356	18	29	3.0	7.1	
	5	27+00W	1+87N-1+91N	4	2.5	1.5	yes	530	16	16	9.5	18	
	5	28+00W	1+62N	Min.	1	.7	yes	1865	15	20	2.8	5.4	
	5	29+00W	1+38N	Min.	.8	.6	yes	3719	35	74	1.5	7.4	indefinite on L29+00W
	5	30+00W	1+18N	Min.	1	.5	yes	1688	22	27	2.8	4.9	
	5	31+00W	0+93N	Min.	.8	.5	yes	1324	28	49	2.6	9.5	
	5	32+00W	0+66N	Min.	3	2	yes	1366	38	48	7.6	2.5	
7	6	22+00W	1+65N	Min.	-	-	yes	3270	-	-	-	-	conductivity variable
	6	23+00W	1+32N	Min.	.3	-	yes	6083	-	-	-	-	along length
	6	24+00W	1+05N	Min.	.7	.5	yes	-114	27	36	2.1	3.9	

Cond. #	Map Sheet	Line #	Station	Max. App. Width (m)	IP/OP HF	IP/OP LF	Mag. Corr.	Mag. Val. (gammas)	Depth Est. (meters) HF	Depth Est. (meters) LF	σt (mhos-m) HF	σt (mhos-m) LF	Remarks
7	6	25+00W	0+84N	Min.	1	.6	yes	3349	20	51	2.8	13.2	
	6	26+00W	0+37N	Min.	.9	.4	yes	5112	28	44	2.8	12.8	
	6	27+00W	0+03S	Min.	1.1	.9	yes	684	33	42	6.1	17.0	
	5	28+00W	0+24S	Min.	2	1	yes	8266	29	29	7.5	13.3	
	5	29+00W	0+61S	Min.	1	1	yes	-1163	31	53	5.1	23	
	5	30+00W	0+79S	Min.	4	3	yes	4046	27	29	15.7	40	
	5	31+00W	1+13S	Min.	2	1	yes	3257	29	41	11.5	53	
8	6	18+00W	3+70N	Min.	-	-	yes	838	-	-	-	-	very indefinite on
	6	19+00W	3+21N	Min.	.6	.5	yes	2874	11	33	2.3	7.3	lines 18+00W & 20+00W
	6	20+00W	2+75N	Min.	.4	-	yes	9580	5	-	1.2	-	
9	5	37+00W	2+00N-2+19N	19	1	.6	no	-	31	36	4.9	10	
	5	38+00W	1+94N	Min.	1.5	1.2	no	-	38	53	7.5	30	
10	3	37+00W	0+04N	Min	1.5	1.3	yes	10142	30	38	9.7	33	weak conductor over
	3	38+00W	0+00	Min.	1.5	1.3	yes	5042	35	41	12.6	32	magnetic high
11	3	44+00W	2+40N	Min.	.5	-	no	-	14	36	1.3	4.1	indefinite conductor
12	3	42+00W	2+48S	Min.	2	1.3	yes	4666	51	53	20	30	indefinite conductor
13	3	45+00W	4+78S	Min.	2	2	yes	44076	28	41	6.4	32	weak conductor over extreme magnetic anomaly.
14	3	47+00W	4+16S	Min.	1.6	1	yes	18762	11	19	5.5	12.5	conductor strongest or
	3	48+00W	4+08S	Min.	1.3	1	yes	13110	22	40	4.7	20	L47+00W
	3	49+00W	3+99S	Min.	1	1	yes	31510	20	41	2.2	13.0	
15	3	55+00W	2+00N	Min.	8	5	flank	2879	53	65	29	139	

900

September 7, 1988

Your File: W8804-388
Our File : 2.11494

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

Dear Madam:

RE: Notice of Intent dated August 23, 1988.
Geophysical (Electromagnetic & Magnetometer) Survey
submitted on Mining Claims TB 913005 et al in the
Area of Keezhik Lake.

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

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

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines & Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3
Telephone: (416) 965-4888

SH:sc

cc: Placer Dome Inc
P.O. Box 350
IBM Tower, TD Centre
Toronto, Ontario
M5K 1N2

cc: Mr. Louis Racic
Suite 360
111 Queen Street East
Toronto, Ontario
M5C 1S2

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

cc: Resident Geologist
Thunder Bay, Ontario

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File 2.11494

Date August 23, 1988

Mining Recorder's Report of Work No. W8804-388

Recorded Holder: Placer Dome Inc.

~~Township or~~ Area: Keezhik Lake

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	TB 913005 to 015 inclusive 914944 to 950 inclusive 927577 to 586 inclusive
Electromagnetic 40 days	
Magnetometer 20 days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

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

20 days Electromagnetic
10 days Magnetometer

TB 914951

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey

TB 913004

☒ insufficient technical data filed

TB 914952

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

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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) Electromagnetic and Magnetic

Township or Area Keezhik Lake, North Bay Area

Claim Holder(s) Placer Dome Inc.

Survey Company Geosearch Consultants Limited

Author of Report Louis Racic

Address of Author 360-111 Queen St. E., Toronto

Covering Dates of Survey 05/09/87 - 25/07/88 (linecutting to office)

Total Miles of Line Cut 46.7 km.

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

Geophysical	DAYS per claim
-Electromagnetic	40
-Magnetometer	20
-Radiometric	
-Other	
Geological	
Geochemical	

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

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

DATE: July 25, 1988 SIGNATURE: Louis Racic
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

TB 913004 - 913015

914944 - 914952

927577 - 927586

TOTAL CLAIMS 31

If space insufficient, attach list

ONTARIO NL

GEOPHYSICAL TECHNICAL DATA

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

		Mag.	HLEM
Number of Stations	1840	Number of Readings	1840	1680
Station interval	25 metres (12.5 metres)	Line spacing	100 metres	
Profile scale	1 cm = 20%			
Contour interval	100 gammas			

MAGNETIC

Instrument: Gem Systems GSM-18 Memory Magnetometer
Accuracy -- Scale constant: 0.1 gammas
Diurnal correction method: Base station recorder with readings taken at
Base Station check-in interval (hours): 3 second intervals
Base Station location and value: Line 12+00W, 8+75S 59,971

ELECTROMAGNETIC

Instrument: Apex Maxmin II
Coil configuration: Co-planar
Coil separation: 100 metres
Accuracy: 1%
Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line
Frequency: 444 Hz. and 1777 Hz. (specify V.L.F. station)
Parameters measured: Inphase and quadrature of the vertical 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:

Ontario and Mines

(Geophysical, Geological, Geochemical and Expenditures) W8804·388

Mining Act

Note: – 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.

Type of Survey(s)
ELECTROMAGNETIC & MAGNETIC 2.11494

Township or Area
NORTH BAY AREA G-347
Keezhik Lake Area

Claim(s)
PLACER DOME INC.

Prospector's Licence No.
T-837

Address
P.O. Box 350, IBM Tower, TD Centre, Toronto, Ontario, M5K 1N2

Survey Company
Geosearch Consultants Limited

Date of Survey (from & to)
05 09 87 (Day Mo. Yr.) 05 07 88 (Day Mo. Yr.)

Total Miles of line Cut
46.71 km

Name and Address of Author (of Geo-Technical report)
Louis Racic, 360-111 Queen St. East, Toronto, Ontario, M5C 1S2

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical · Electromagnetic	40
	· Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	· Radiometric	
	· Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
TB	913004	
	913005	
	913006	
	913007	
	913008	
	913009	
	913010	
	913011	
	913012	
	913013	
	913014	
	913015	
	•914944	
	914945	
	914946	
	914947	
	914948	
	914949	
	914950	
	914951	
	•914952	
	927577	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
TB	927578	
	927579	
	927580	
	927581	
	927582	
	927583	
	927584	
	927585	
	927586	

Total number of mining claims covered by this report of work. 31

For Office Use Only

Total Days Cr. Recorded 1860

Date Recorded July 7/88

Mining Recorder Catherine J. Adams

Date Approved as Recorded See Revised Statement

Branch Director

Date JULY 6 / 88

Recorded Holder or Agent (Signature) [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
Louis Racic, 360-111 Queen St. East, Toronto, Ontario, M5C 1S2

Date Certified 05/07/88

Certified by (Signature) [signature]

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Electromagnetic and Magnetic

Township or Area Keezhik Lake, North Bay Area

Claim Holder(s) Placer Dome Inc.

Survey Company Geosearch Consultants Limited

Author of Report Louis Racic

Address of Author 360-111 Queen St. E., Toronto

Covering Dates of Survey 05/09/87 - 25/07/88 (linecutting to office)

Total Miles of Line Cut 46.7 km.

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	
Geological	
Geochemical	

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

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

DATE: July 25, 1988 SIGNATURE: Louis Racic
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

TB 913004 - 913015
914944 - 914952
927577 - 927586

If space insufficient, attach list

TOTAL CLAIMS 31

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

		Mag.	HLEM
Number of Stations	1840	Number of Readings	1840	1680
Station interval	25 metres (12.5 metres)	Line spacing	100 metres	
Profile scale	1 cm = 20%			
Contour interval	100 gammas			

MAGNETIC

Instrument: Gem Systems GSM-18 Memory Magnetometer
Accuracy – Scale constant: 0.1 gammas
Diurnal correction method: Base station recorder with readings taken at
Base Station check-in interval (hours): 3 second intervals
Base Station location and value: Line 12+00W, 8+75S 59,971

ELECTROMAGNETIC

Instrument: Apex Maxmin II
Coil configuration: Co-planar
Coil separation: 100 metres
Accuracy: 1%
Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line
Frequency: 444 Hz. and 1777 Hz. (specify V.L.F. station)
Parameters measured: Inphase and quadrature of the vertical 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:

Ozhiski Lake Area G-366

Talbot Lake Area G-426

Keezhik Lake Area (East Arm) G-288

Nesting Lake Area G-342

88° 45' 88° 30'

51°52'30" 52' 51' 50' 49' 48' 47' 46' 51°45'

21M. 22M. 23M. 11 TH 24M. BASE 25M. LINE 26M. 27M. 28M. 29M.

44' 43' 42' 41' 40' 39' 38' 37' 36' 35' 34' 33' 32' 31'

Keezhik Lake

North Bay

THUNDER BAY MINING DIVISION
RECEIVED
AUG - 4 1987
AM 7|8|9|10|11|12|1|2|3|4|5|6 PM

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM.) 2000 (2 KM.)

AREA

NORTH BAY
(KEEZHIK LAKE)

M.N.R. ADMINISTRATIVE DISTRICT
GERALDTON

MINING DIVISION
THUNDER BAY

LAND TITLES / REGISTRY DIVISION
KENORA/PATRICIA

Ontario Ministry of Natural Resources — Land Management Branch

Date JUNE 30 1981

Number G-347

July 13/81

FAC

G-347

G-347


L60+00W
L59+00W
L58+00W
L57+00W
L55+00W
L54+00W
L56+00W
9+00S
8+00S
7+00S
5+00S
TB 836009
TB 836005
Declination: 0.0 Deg.
210
SUP-1SC8000Z 2.1194 NORTH BAY KIRKPATRICK LK
Contour interval 100 gammas
100 gamma contour
500 gamma contour
2500 gamma contour
10,000 gamma contour
Depression
TOPOGRAPHY
CLAIM POST
LAKE
STREAM
SWAMP
ACCESS ROAD
BUSH ROAD
POWER LINE
BASE LEVEL 59,000 nT REMOVED
INSTRUMENT : GEM SYSTEMS GSM-19
SCALE 1 : 2 500
50 0 50 (METRES) 100 150 200
MAP KEY
25 3 4 5
23 24 1 2
20 21 22
18 19 16 17
15 14 13 12
10 9 8 7
11 6
TOTAL FIELD MAGNETOMETER SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
PLACER DOME INC.
PROJECT 282
KEEZHIK LAKE , ONT.
DATE : MARCH 1988 NTS : 52 P/15
DRAWN : J.A.R. 87-201-1
2.11494

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

KEEZHIK LAKE AREA
ONTARIO

Date: March, 1987 Sept. 1987
Drawn: M.M.-J.A.R.
Scale 1:2500

87-201-(3)

MAP KEY
Location Map, Sheet 10

			1	2		
			3	4		
25	26	5	6	7		
27		8	9	10	11	
	28	12	13	14	15	
	16	17	18	19		
	20	21	22			
23	24					

LEGEND

READINGS IN GAMMAS

- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS
- TO PLOTTED READINGS
- BASE STATION AT L 12+00W, 8+75S
- 59,971 GAMMAS

Contour interval ..... 100 gammas
100 gamma contour
500 gamma contour
2500 gamma contour
10,000 gamma contour
Depression

220

SEP 1556 0002 6.1 HIGH NORTH BAY KEEZHIK LK

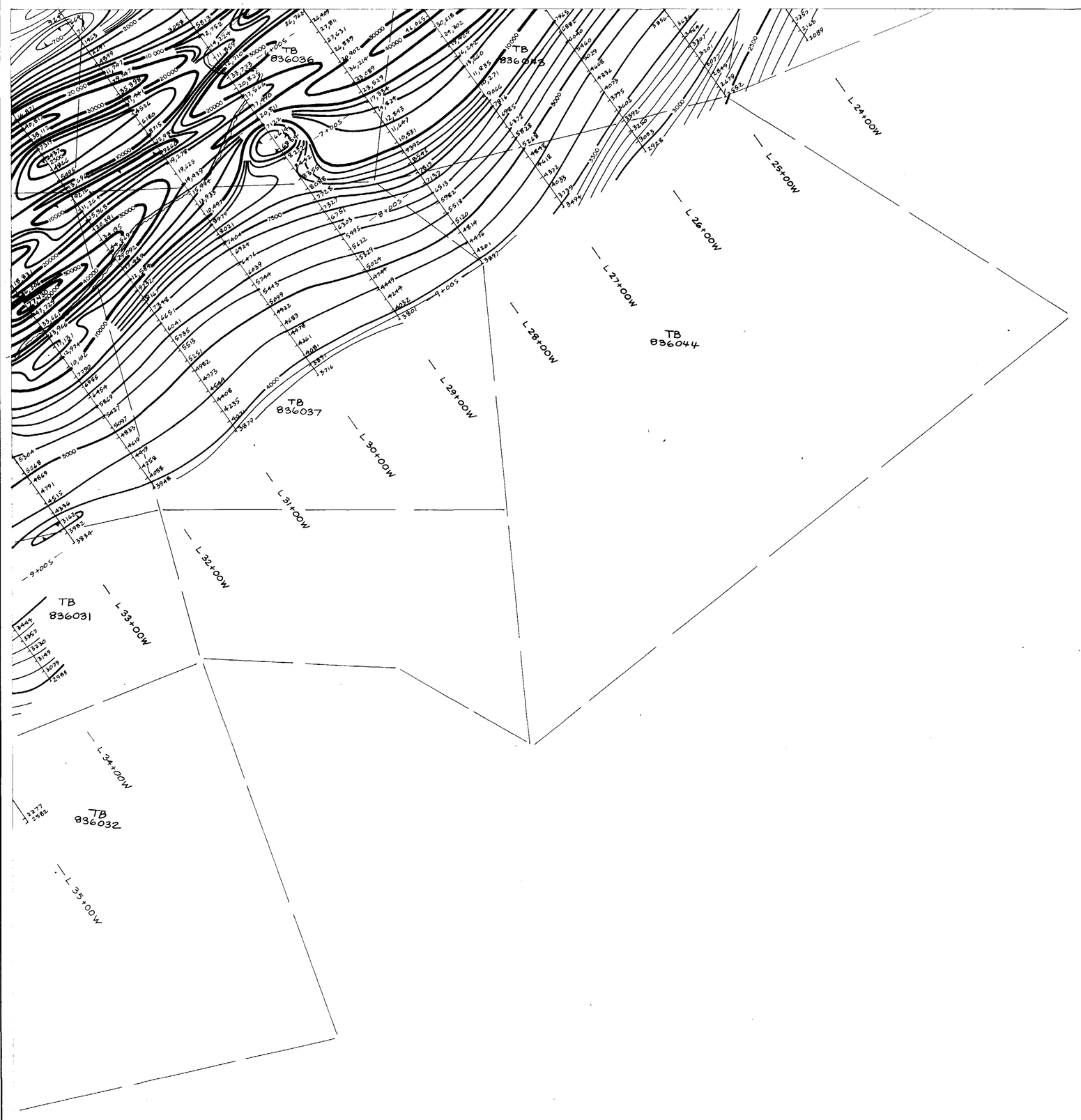
2.11494

LAKE

L-5+00W L-4+00W L-3+00W L-2+00W L-1+00W L-0+00W L-1+00W L-2+00W L-3+00W L-4+00W L-5+00W L-6+00W L-7+00W L-8+00W L-9+00W L-10+00W L-11+00W L-12+00W

TB 936001 TB 936002 TB 936003 TB 936004 TB 936005 TB 936006 TB 936007 TB 936008 TB 936009 TB 936010 TB 936011 TB 936012 TB 936013 TB 936014 TB 936015 TB 936016 TB 936017 TB 936018 TB 936019 TB 936020 TB 936021 TB 936022 TB 936023 TB 936024 TB 936025 TB 936026 TB 936027 TB 936028 TB 936029 TB 936030 TB 936031 TB 936032 TB 912157 TB 912158 TB 912159 TB 912160 TB 912161

1+00N 2+00N 3+00N 4+00N 5+00N 6+00N 7+00N 8+00N 9+00N 10+00N 11+00N 12+00N



2.11494

Contour interval..... 100 gammas
100 gamma contour.....
500 gamma contour.....
2500 gamma contour.....
10,000 gamma contour.....
Depression.....

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- ▷ BASE STATION AT L 12+00W, 8+75S

	23	24			
	19	20	21	22	
		15	16	17	18
		28	12	13	14
	27	8	9	10	11
26	5	6	7		
25	3				
	1	2			

MAP KEY
Location map, sheet 10

Date: March, 1987
Drawn: M.M.

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

KEEZHIK LAKE AREA
ONTARIO
Scale 1:2500 87-201-(4)

POND

LAKE

TB 914951

TB 914950

TB 914948

TB 914949

TB 914947

TB 914946

TB 914945

TB 914944

TB 913014

TB 913015

TB 913013

TB 912 158

TB 927582

TB 927583

TB 927584

TB 836028

TB 836022

TB 836029

L42+00W L43+00W L44+00W L45+00W L46+00W L47+00W L48+00W L49+00W L50+00W L41+00W L40+00W L39+00W L38+00W L37+00W L36+00W L35+00W L34+00W L33+00W L32+00W L31+00W L30+00W L29+00W L28+00W L27+00W

18+00N 17+00N 16+00N 15+00N 14+00N 13+00N 12+00N 11+00N 10+00N 9+00N 8+00N 7+00N 6+00N

Contour interval ..... 100 gammas
100 gamma contour .....
500 gamma contour .....
2500 gamma contour .....
10,000 gamma contour .....
Depression .....

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- ▷ BASE STATION AT L12+00W, 8+75S 59,971 GAMMAS

MAP KEY
Location Map on sheet 10

2.11494 TOTAL FIELD MAGNETIC SURVEY

by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

KEEZHIK LAKE AREA
ONTARIO

Date: Sept. 1986, Sept. 1987
Drawn: J.A.R.
Scale 1:2500

87-201-(5)

52P15SE0002 2.11494 NORTH BAY KEEZHIK LA

240

KEEZHIK LAKE
(NORTH BAY)

ISLAND

TB 836034
TB 836040
TB 836041
TB 836047
TB 836048
TB 836042
TB 836035
TB 836036
TB 836043
TB 836049
TB 836050
TB 850554
TB 850549
TB 850550
TB 850557
TB 850569
TB 850560
TB 850562
TB 850558
TB 850551
TB 850552

L 7+00N
L 8+00N
L 9+00N
L 10+00N
L 11+00N
L 12+00N
L 13+00N
L 14+00N
L 15+00N
L 16+00N
L 17+00N
L 18+00N
L 19+00N
L 20+00N
L 21+00N
L 22+00N
L 23+00N
L 0+00W
L 1+00W
L 2+00W
L 3+00W
L 4+00W
L 5+00W
L 6+00W
L 7+00W
L 8+00W
L 9+00W
L 10+00W
L 11+00W
L 12+00W
L 13+00W
B 7+00S
B 8+00S
B 9+00S
B 10+00S

2.11494

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- ▷ BASE STATION AT L 12+00 W, B 7+75 S 59,971 GAMMAS

Contour interval ..... 100 gammas
100 gamma contour .....
500 gamma contour .....
2500 gamma contour .....
10,000 gamma contour .....
Depression .....

23	24			
19	20	21	22	
	15	16	17	18
	28	12	13	14
27	8	9	10	11
26	5	6	7	
25	3	4		
	1	2		

MAP KEY
Location map, sheet 10

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

KEEZHIK LAKE AREA
ONTARIO

Date: Sept. 1986, Sept. 1987
Drawn: JAR
Scale: 1:2500

87-201-(6)

S2P15S80002 2.11494 NORTH BAY KEEZHIK LA

250

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- ▷ BASE STATION AT L.12+00W, 8+75S 59,971 GAMMAS

Contour interval	100 gammas
100 gamma contour	
500 gamma contour	
2500 gamma contour	
10,000 gamma contour	
Depression	

MAP KEY
Location map, sheet 10

2.11494

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

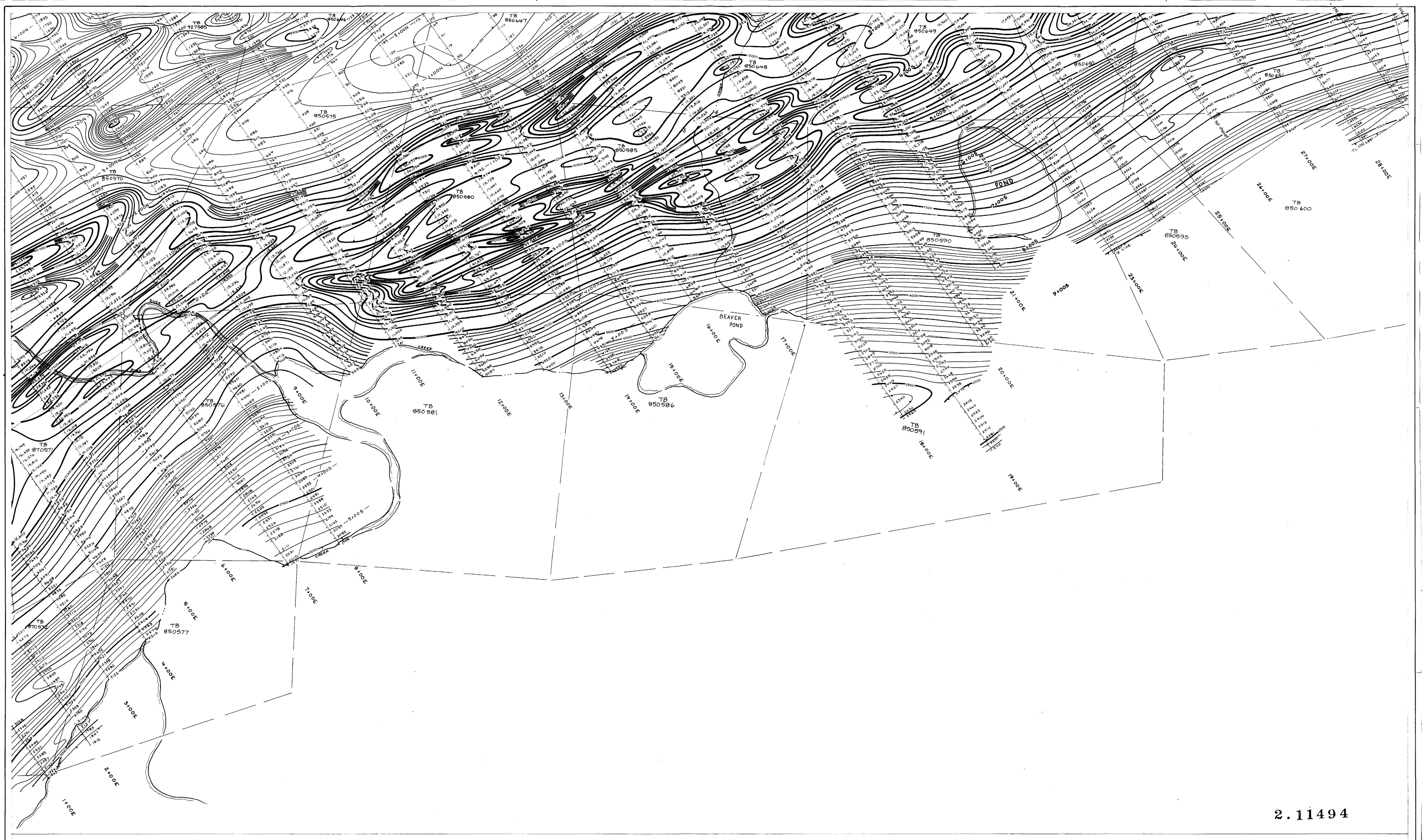
PROJECT 282

KEEZHIK LAKE AREA
ONTARIO

Date: Sept. 1986, Sept. 1987
Drawn: J.A.R.
Scale: 1:2500 87-201-(8)

260

52P15SE0002 2.11494 NORTH BAY KEEZHIK LA



2.11494

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- ▷ BASE STATION AT L.12+00W, 8+75S

Contour Interval	100 gammas
100 gamma contour	
500 gamma contour	
2500 gamma contour	
10,000 gamma contour	
Depression	

23	24			
19	20	21	22	
	28	16	17	18
		26	12	13	14
	27	8	9	10	11
26	3	4	7		
25	2	4			
	1	2			

MAP KEY
Location map, sheet 10

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED
PROJECT 282
KEEZHIK LAKE AREA
ONTARIO
Date: March, 1987
Drawn: M.M.
Scale: 1:2500
87-201-(9)

S2P15SE0002 2.11494 NORTH BAY KEEZHIK LA

270

TB
850 652

TB
850 100

TB
836 099

TB
836 098

TB
836 097

TB
836096

Tie Line

30+00E

31+00E

32+00E

114+00E

115+00E

116+00E

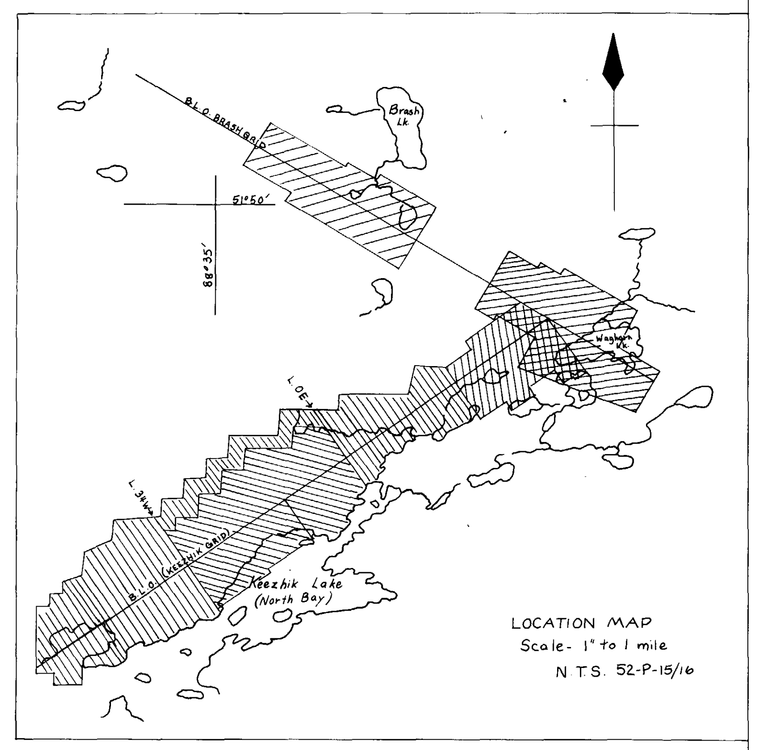
117+00E

118+00E

4100S

5100S

6100S



LOCATION MAP
Scale- 1" to 1 mile
N.T.S. 52-P-15/10

2.11494

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- ▷ BASE STATION AT L.12+00W, 8+75S

23	24				
19	20	21	22		
	15	16	17	18	
	26	12	13	14	
27	2	9		11	
26	8	6	7		
25	3	4			
	1	2			

MAP KEY
Location map, this sheet.

Contour interval..... 100 gammas
100 gamma contour.....
500 gamma contour.....
2500 gamma contour.....
10,000 gamma contour.....
Depression.....

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

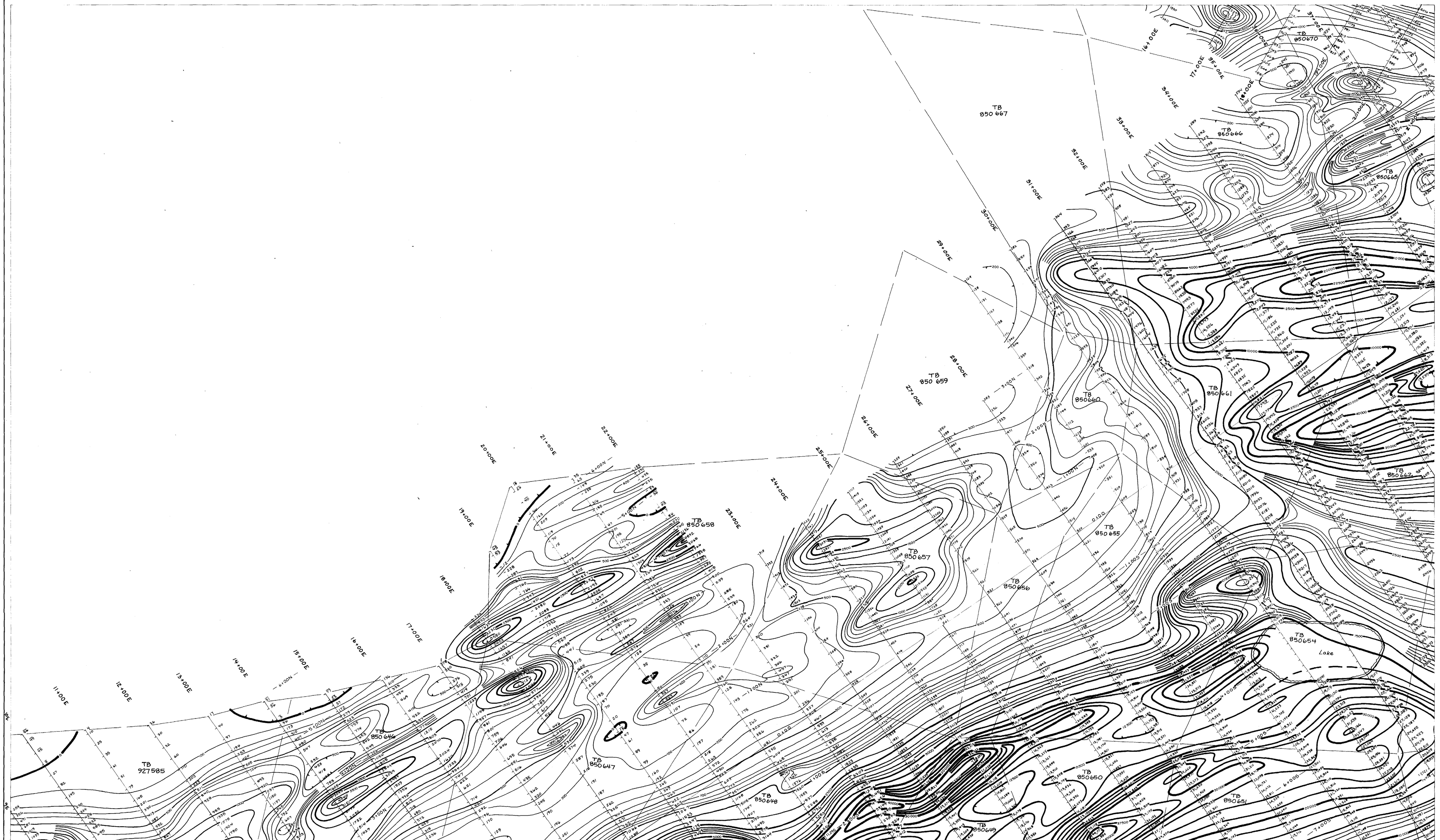
PROJECT 282

KEEZHIK LAKE AREA
ONTARIO

Date: March, 1987
Drawn: M. M.
Scale: 1:2500

87-201-(10)

280



Contour interval ..... 100 gammas
100 gamma contour
500 gamma contour
2500 gamma contour
10,000 gamma contour
Depression

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- BASE STATION AT L.12+00 W, 8+75S

MAP KEY
Location map, sheet 10

2.11494

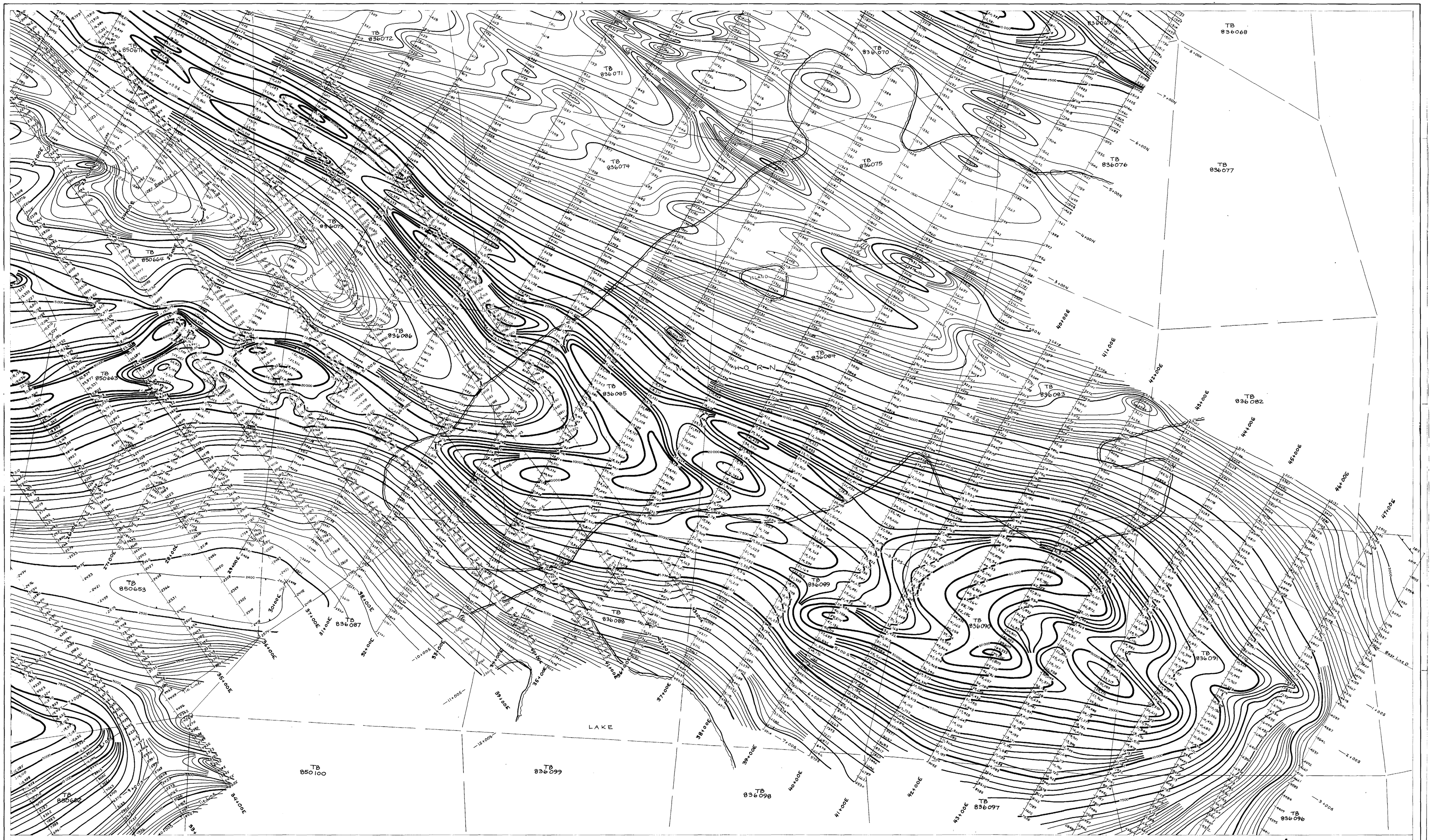
TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

KEEZHIK LAKE AREA
ONTARIO

Date: March, 1987
Drawn: M.M.
Scale: 1:2500

87-201-(12)



Contour interval..... 100 gammas
100 gamma contour.....
500 gamma contour.....
2500 gamma contour.....
10,000 gamma contour.....
Depression.....

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- ▷ BASE STATION AT L.12+00W, 8+75S

23	24				
19	20	21	22		
	17	16	15	14	13
		28	12		
	27	8	9	10	11
26	5	6	7		
25	3	4			
	1	2			

MAP KEY
Location map, sheet 10

2.11494

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

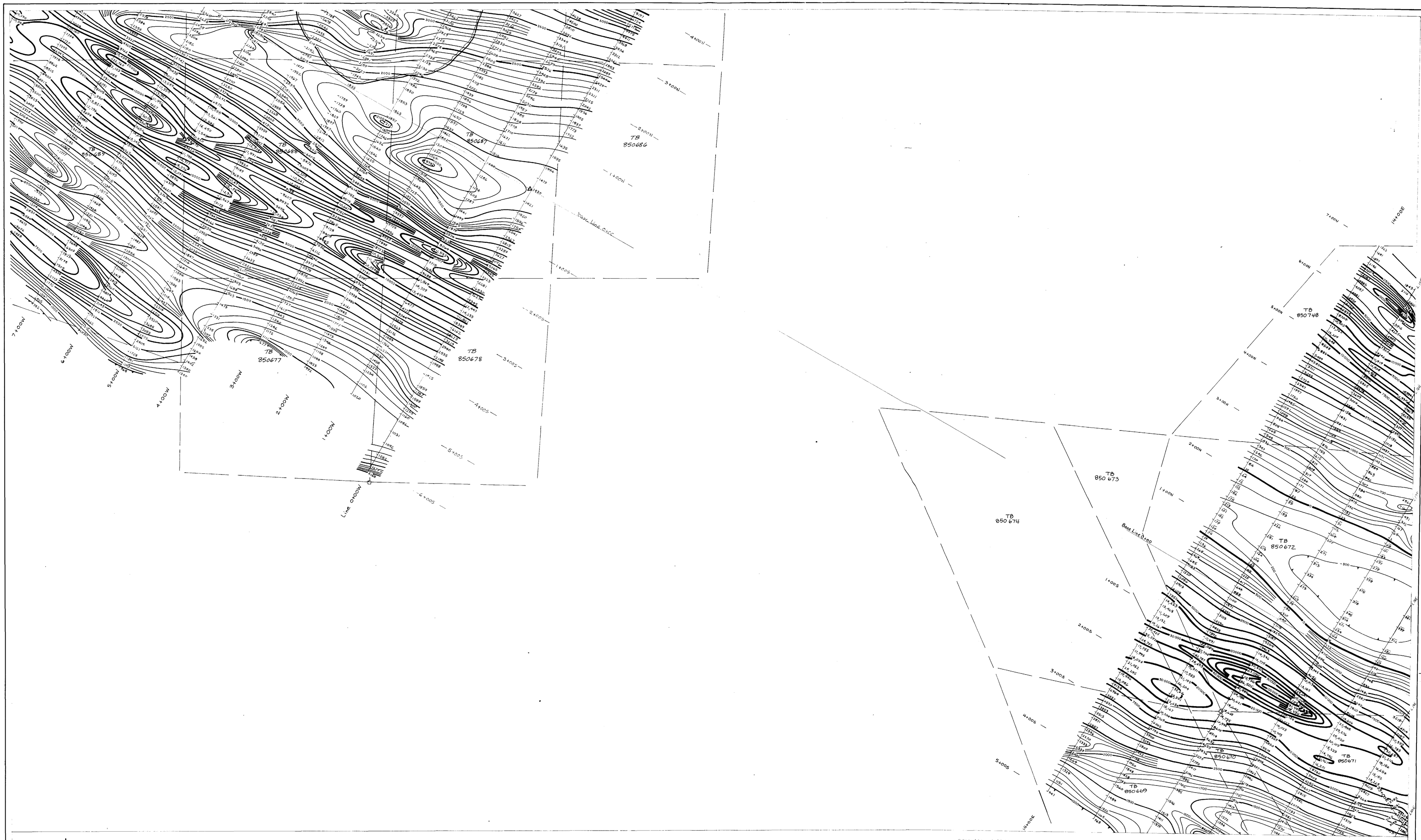
PROJECT 282

KEEZHIK LAKE AREA
ONTARIO

Date: March, 1987
Drawn: M.M.
Scale: 1:2500

87-201-(13)

300



LEGEND

Contour interval ..... 100 gammas
100 gamma contour .....
500 gamma contour .....
2500 gamma contour .....
10000 gamma contour .....
Depression .....

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- ▷ DENOTES BASE STATION, L 0+00S B.L 0+00 59,920 gammas
- □ - CLAIM POST, LOCATED
- CLAIM LINES, LOCATION ASSUMED

MAP KEY
Location in Lap on Sheet 10

2.11494

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

BRASH LAKE AREA
ONTARIO

Date: Dec. 1968 SCALE - 1:2500
Drawn: M.H.M.

87-201-(16)

S2P15SE0002 2.11494 NORTH BAY KEEZHIK LA

310

TB 850748

TB 836059

TB 836058

TB 836060

TB 836061

TB 836062

TB 836063

TB 850672

TB 850671

TB 836072

TB 836071

TB 836070

TB 836069

TB 836068

15+00E 16+00E 17+00E 18+00E 19+00E 20+00E 21+00E 22+00E 23+00E 24+00E 25+00E 26+00E 27+00E 28+00E 29+00E 30+00E 31+00E 32+00E 33+00E 34+00E 35+00E 36+00E 37+00E 38+00E 39+00E

9+00N 8+00N 7+00N 6+00N 5+00N 4+00N 3+00N 2+00N 1+00N

Base Line

2.11494

LEGEND

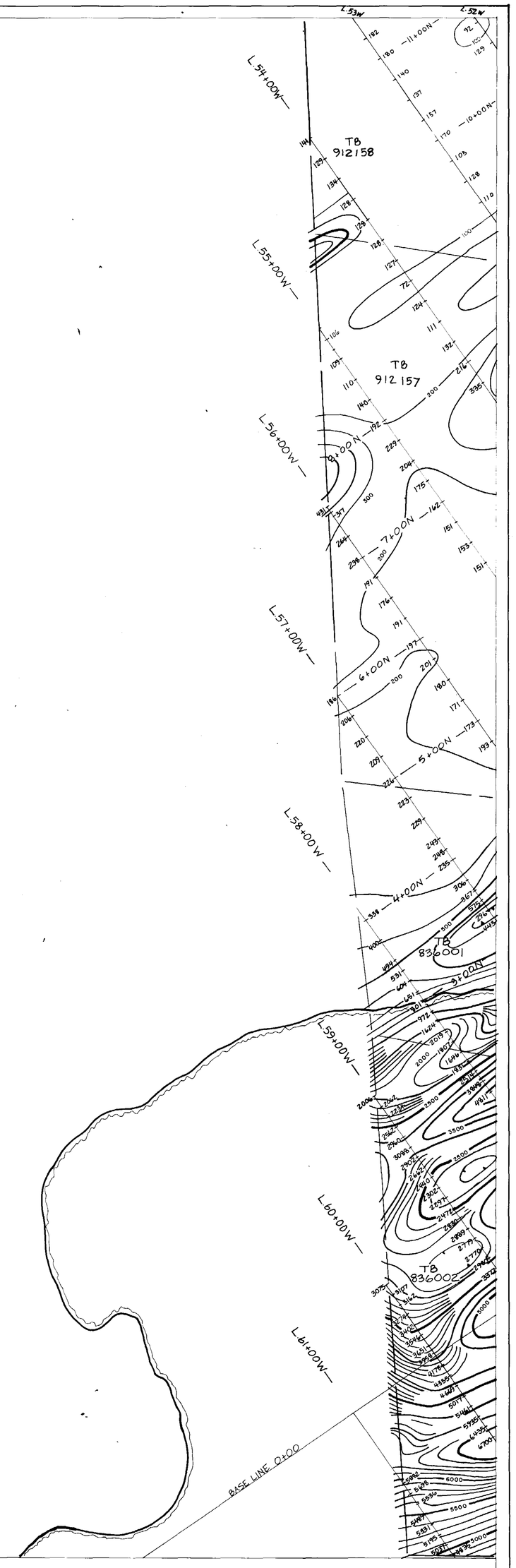
- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS
- ◇ BASE STATION AT L.12+00W, 8+75S

Contour interval ..... 100 gammas
100 gamma contour .....
500 gamma contour .....
2500 gamma contour .....
10,000 gamma contour .....
Depression .....

MAP KEY
Location map, sheet 10

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED
PROJECT 282
KEEZHIK LAKE AREA
ONTARIO
Date: March, 1987
Drawn: MM
Scale: 1:2500
87-201-(17)

320



LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS

Contour interval	100 gammas
100 gamma contour	
500 gamma contour	
2500 gamma contour	
10,000 gamma contour	
Depression	

MAP KEY
Location Map on sheet 10

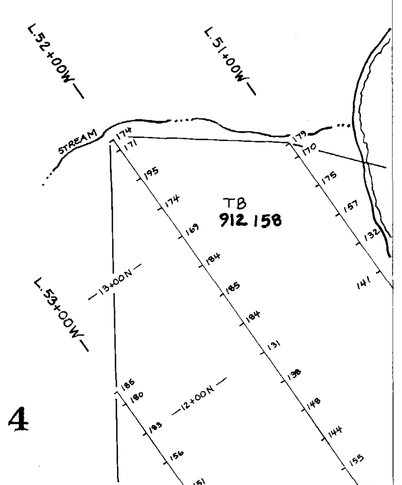
25	24			
19	20	21	22	
	15	16	17	18
	28	12	13	14
	27	8	9	10	11
26	5	6	7	
	3	4		
	1	2		

Date: Sept. 1987
Drawn: J.A.R.

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

2.11494

PROJECT 282
KEEZHIK LAKE AREA
ONTARIO
Scale: 1:2500 87-201-(25)



LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS.

Contour interval ..... 100 gammas
100 gamma contour .....
500 gamma contour .....
2500 gamma contour .....
10,000 gamma contour .....
Depression .....

23	24				
19	20	21	22		
	15	16	17	18	
	28	12	13	14	
27	8	9	10	11	
26	5	6	7		
25	3	4			
	1	2			

MAP KEY
Location Map on sheet 10

Date: Sept. 1987
Drawn: J.A.R.

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED
PROJECT 282
KEEZHIK LAKE AREA
ONTARIO
Scale: 1:2500 87-201-(26)

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS

Contour interval ..... 100 gammas
100 gamma contour .....
500 gamma contour .....
2500 gamma contour .....
10,000 gamma contour .....
Depression .....

MAP KEY
Location Map on sheet 10

	25	24			
	19	20	21	22	
		15	16	17	18
		28	12	13	14
		8	9	10	11
26		5	6	7	
25		3	4		
		1	2		

2.11494 TOTAL FIELD MAGNETIC SURVEY

by

GEOSEARCH CONSULTANTS LIMITED

for

DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

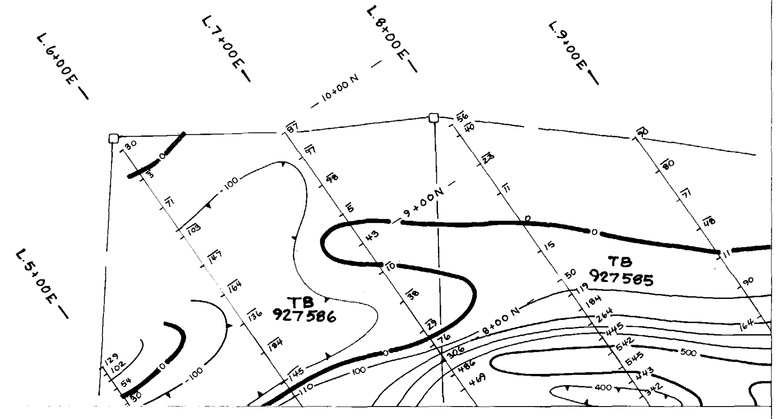
KEEZHIK LAKE AREA
ONTARIO

Scale: 1:2500 87-201-(27)

Date: Sept 1987
Drawn: J.A.R.

S2P15SDD002 2.11494 NORTH BAY KEEZHIK LA

350



LEGEND

* READINGS IN GAMMAS
* FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO PLOTTED READINGS.

Contour interval	100 gammas
100 gamma contour	
500 gamma contour	
2500 gamma contour	
10,000 gamma contour	
Depression	

23	24			
19	20	21	22	
	15	16	17	18
		12	13	14
	27	8	9	10	11
26	5	6	7	
25	3	4		
	1	2		

MAP KEY
Location Map on sheet 10

2.11494

TOTAL FIELD MAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

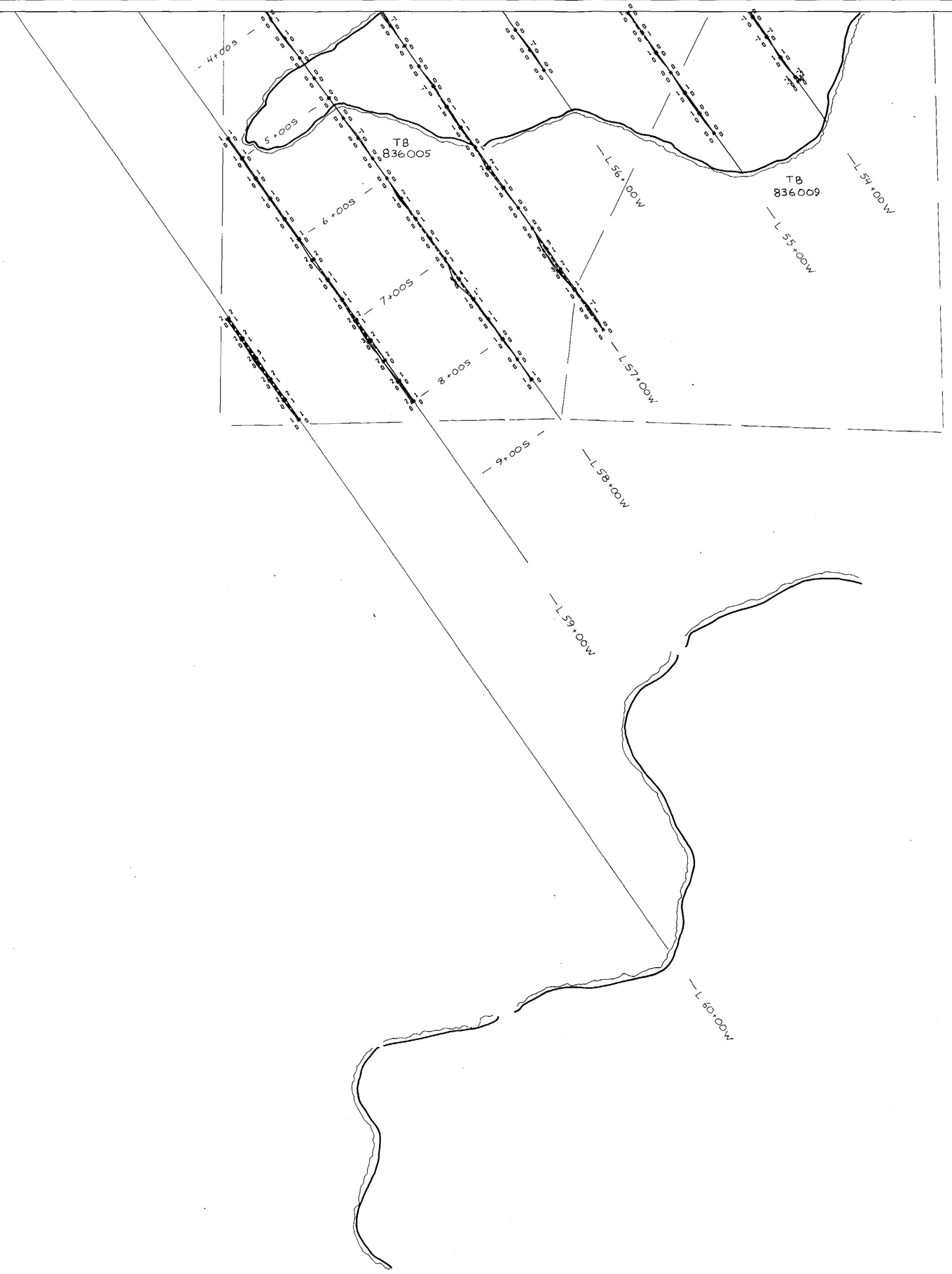
PROJECT 282
KEEZHIK LAKE AREA
ONTARIO

Date: Sept 1987
Drawn: J.A.R.

Scale: 1:2500

87-201-(20)

360



2.11494

Declination: 0.0 Deg.

S2P15SE0002 2.11494 NORTH BAY KEEZHIK LA

370

TOPOGRAPHY

CLAIM POST
LAKE
STREAM
SWAMP
ACCESS ROAD
BUSH ROAD
POWER LINE

HLEM INTERPRETATION LEGEND

BEDROCK CONDUCTORS
STRONG
WEAK
INDEFINITE

CONDUCTIVE ZONE
STRONG WEAK

MAX-MIN HLEM LEGEND

1 cm. = 20 %
FREQUENCIES 444 1777 Hz
IN PHASE
QUADRATURE
COIL SEPARATION
150 M.
+20%
0
-20%
POSTING L-IP M-IP L-Q M-Q

	23	24			
	19	20	21	22	
		15	16	17	18
		28	12	13	14
	27	8	9	10	11
26	5	6	7		
25	3	4			
		1	2		

MAP KEY

SCALE 1 : 2 500
50 0 50 (metres) 100 150 200

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
PLACER DOME INC.
PROJECT 282
KEEZHIK LAKE , ONT.
DATE : MARCH 1988 NTS : 52 P/15
DRAWN : J.A.R. 87-200-1

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED
PROJECT 282
KEEZHIK LAKE AREA
ONTARIO
Date: 26th Feb-1st Sept 1987
Drawn: J.A.R. Mar 1988
Scale: 1:2500
87-200 (3)

MAP KEY

					1	2
				3	4	
			5	6	7	
		8	9	10	11	
	12	13	14			
15	16	17	18			
19	20	21	22			
23	24					
25	26					

Location map, sheet 10

LEGEND

COIL INTERVAL —— 100 m
FREQUENCIES —— 1777Hz & 444 Hz
PROFILE SCALE —— 20% to 1cm

+20% 5 -20%

Low Freq. Mod. Mag Reading Left of Line
0 0 0 +1
High Freq. Reading Right of Line

IN-PHASE/ OUT-OF-PHASE

CONDUCTIVE ZONE — Strong Weak Interfacial
(one or more Conductors)

OUT-OF-PHASE — Low Freq. High Freq.
IN-PHASE — Strong Weak

380

SURVEYED 2.1 KM NORTH BAY KEEZHIK LK

2.11494

LAKE

ISLAND

TB 836001
TB 836003
TB 836007
TB 836008
TB 836004
TB 836002
TB 912157
TB 912160
TB 912158
TB 912159
TB 912161
TB 836011
TB 836012
TB 836013
TB 836014
TB 836020
TB 836019
TB 836018
TB 836017
TB 836023
TB 836024
TB 836025
TB 836022
TB 927584
TB 836029
TB 836030
TB 836031
TB 836032
TB 836006

Tie-line Bearing N 5 E and Line

L-92+00W
L-84+00W
L-76+00W
L-68+00W
L-60+00W
L-52+00W
L-44+00W
L-36+00W
L-28+00W
L-20+00W
L-12+00W
L-4+00W
L-4+00W
L-12+00W
L-20+00W
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L-36+00W
L-42+00W
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L-58+00W
L-66+00W
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98400S
98600S
98800S
99000S
99200S
99400S
99600S
99800S
100000S

2.11494

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED
PROJECT 282
KEEZHIK LAKE AREA
ONTARIO

Date: March, 1987
Drawn: MM

Scale: 1:2500 87-200-(4)

LEGEND

COIL INTERVAL —— 100 m
FREQUENCIES —— 1777Hz & 444 Hz
PROFILE SCALE —— 20% to 1cm

+20% ½ -20%

Low Freq. readings Left of Line
High Freq readings Right of Line

IN-PHASE OUT-OF-PHASE

IN-PHASE —— Low Freq. High Freq.

OUT-OF-PHASE ——

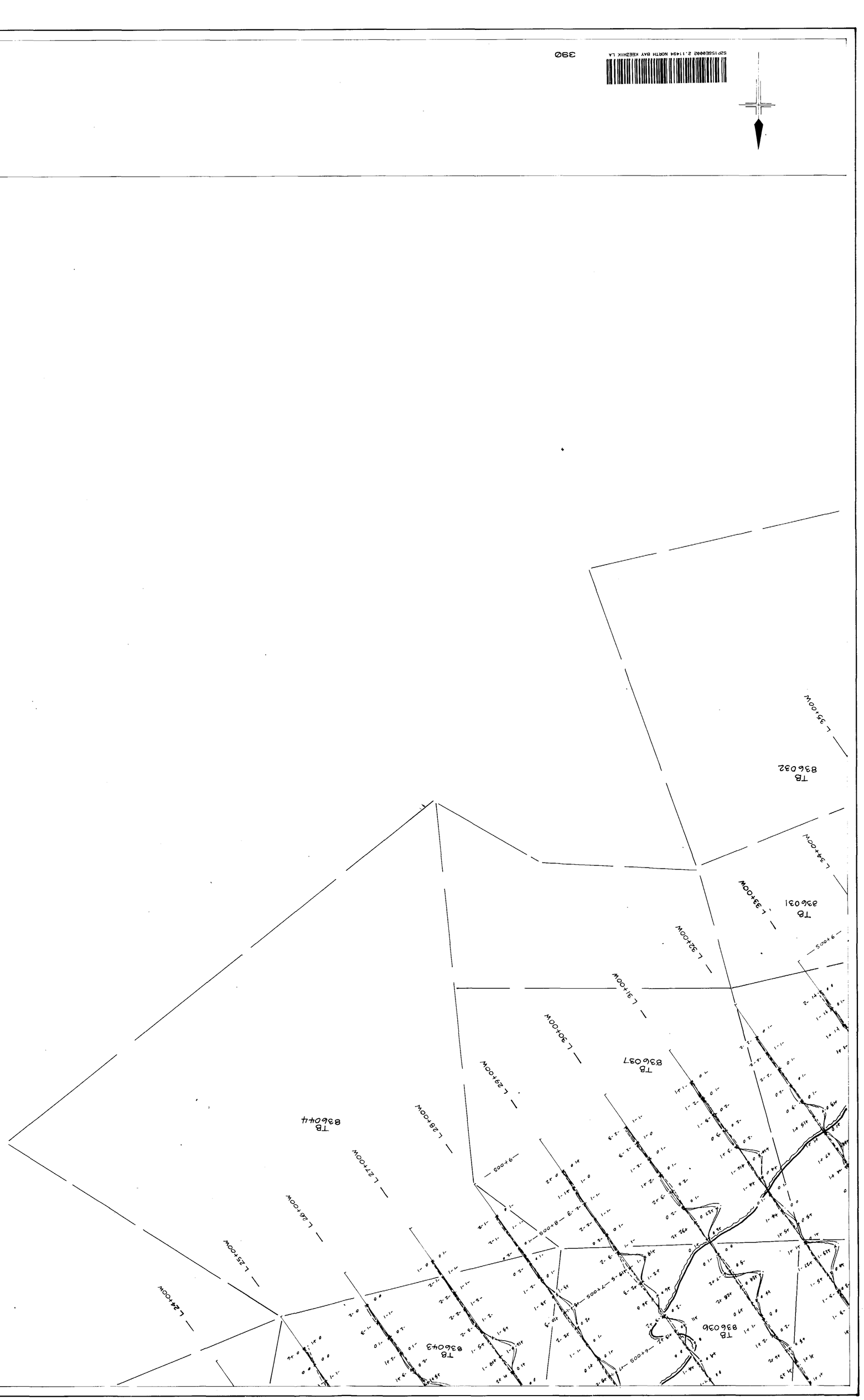
CONDUCTOR— Strong Weak Indefinite

CONDUCTIVE ZONE— Strong
(axe or more Conductors) Weak

MAP KEY

Location map, Sheet 10

					1	2
					3	4
				5	6	7
			8	9	10	11
		12	13	14		
	15	16	17	18		
19	20	21	22			
23	24					
25	26	27	28			



390

2.11494

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED
PROJECT 282
KEEZHIK LAKE AREA
ONTARIO

Date: Sept 1984 Mar./Apr. 1987
Drawn: MHM.TAR
Scale: 1:2500
87-200-(S)

LEGEND

COIL INTERVAL — 150 m & 100m
FREQUENCIES — 1777 Hz & 444 Hz
PROFILE SCALE — 20% to 1cm

+20% / -20%

Low Freq. Readings Left of Line
High Freq. Readings Right of Line

IN-PHASE OUT-OF-PHASE

IN-PHASE — Low Freq. High Freq.
OUT-OF-PHASE —

CONDUCTIVE ZONE (one or more conductors) — Strong Weak Indefinite

CONDUCTOR — Strong Weak

MAP KEY
Location map, sheet 10

			23	24		
			19	20	21	22
			15	16	17	18
				28	12	13	14
			27	8	9	10	11
			26	6	7		
			25	3	4		
				1	2		

SP-1506992 2.1 KM NORTH BAY KEEZHIK LK

400

2.11494

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

KEEZHIK LAKE AREA
ONTARIO

		23	24			
		19	20	21	22	
		15	16	17	18	
		28	12	13	14	
		7	8	9	10	11
26	5		7			
25	3	4				
	1	2				

MAP KEY

Location map, sheet 10

Date: Sept. 1986, March 1987
Drawn: MJM

Scale: 1:2500

87-200-(6)

LEGEND

COIL INTERVAL — 150 m ▸ 100m
FREQUENCIES — 777 Hz & 444 Hz
PROFILE SCALE — 20% to 1cm

+20% 0 -20%

Low Freq. Coupling Right of Line
High Freq. Coupling Right of Line
Low Freq. Coupling Left of Line
High Freq. Coupling Left of Line

IN-PHASE OUT-OF-PHASE

IN-PHASE
OUT-OF-PHASE
CONDUCTIVE ZONE — Strong Weak Indefinite
(one or more conductors) Strong Weak

Low Freq.
High Freq.

410

KEEZHIK LAKE
(NORTH BAY)

ISLAND

TB 850552
TB 850558
TB 850562
TB 850568
TB 850569
TB 850557
TB 850550
TB 850559
TB 850561
TB 850558
TB 836036
TB 836043
TB 836050
TB 836049
TB 836042
TB 836035
TB 836048
TB 836041
TB 836034
TB 836047
TB 836040
TB 927381

L.12.400W L.12.000W L.11.600W L.11.200W L.10.800W L.10.400W L.10.000W L.9.600W L.9.200W L.8.800W L.8.400W L.8.000W L.7.600W L.7.200W L.6.800W L.6.400W L.6.000W L.5.600W L.5.200W L.4.800W L.4.400W L.4.000W L.3.600W L.3.200W L.2.800W L.2.400W L.2.000W

10+00S 9+00S 8+00S 7+00S 6+00S 5+00S 4+00S 3+00S 2+00S 1+00S 0+00 1+00S 2+00S 3+00S 4+00S 5+00S 6+00S 7+00S 8+00S 9+00S 10+00S

0+00 1+00N 2+00N 3+00N 4+00N 5+00N 6+00N 7+00N 8+00N 9+00N 10+00N 11+00N 12+00N 13+00N 14+00N 15+00N 16+00N 17+00N 18+00N 19+00N 20+00N 21+00N

TB 927505
TB 850646
TB 850647
TB 850648
TB 850649
TB 850650
TB 850651
TB 850570
TB 850575
TB 850580
TB 850585
TB 850590
TB 850595
TB 850600
TB 850581
TB 850586
TB 850591
TB 850576
TB 870571
TB 850577
TB 870572
POND
BEAVER POND
CREEK
RIVER
1+00E
2+00E
3+00E
4+00E
5+00E
6+00E
7+00E
8+00E
9+00E
10+00E
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27+00E
28+00E
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300N
200N
100N
0+00
100S
200S
300S
400S
500S
600S
700S
800S
900S
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1100S
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98900S
99000S
99100S
99200S
99300S
99400S
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99600S
99700S
99800S
99900S
100000S

2:11494

LEGEND

COIL INTERVAL — 100m
FREQUENCIES — 1777 Hz & 444 Hz.
PROFILE SCALE — 20% to 1cm

+20% -20%

Low Freq. Readings to Left of Line
High Freq. Readings to Right of Line

IN-PHASE OUT-OF-PHASE

IN-PHASE High Freq. Low Freq.
OUT-OF-PHASE

CONDUCTOR Strong Weak Indefinite

CONDUCTIVE ZONE (one or more conductors) Strong Weak

	23	24			
	19	20	21	22	
		15	16	17	18
			12	13	14
		27	8	10	11
	26	5	6	7	
	25	3	4		
		1	2		

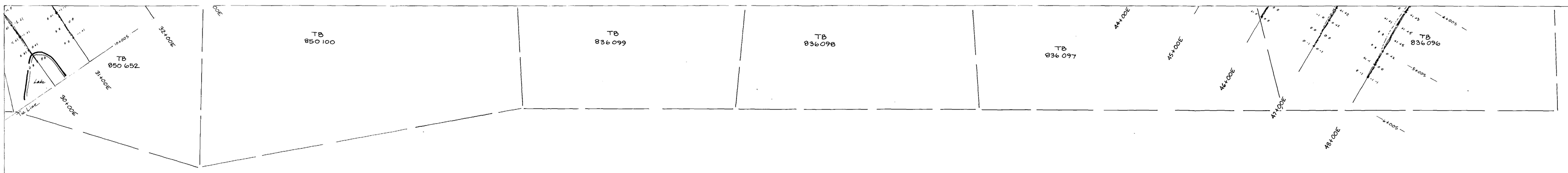
MAP KEY
Location map on Sheet 10

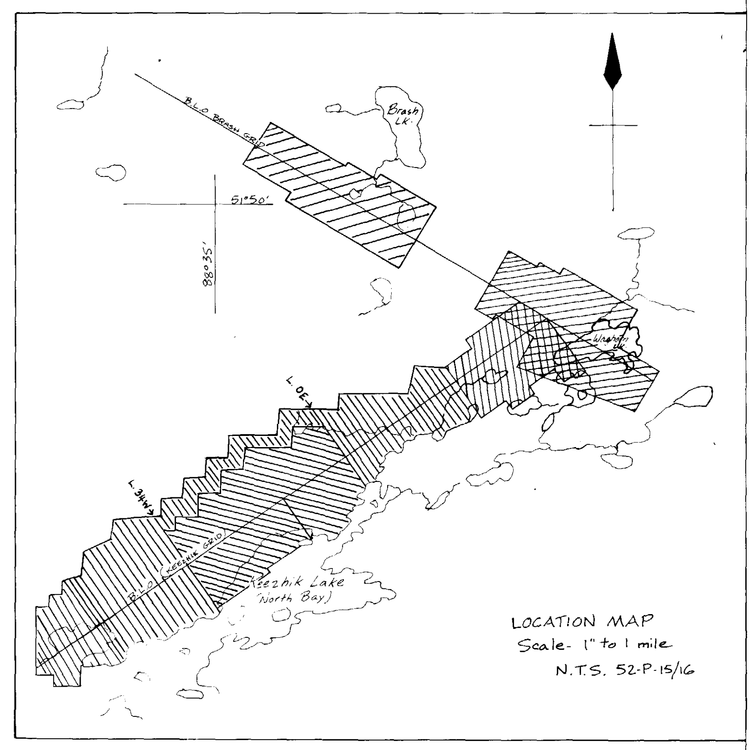
HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282
KEEZHIK LK.- BRASH LK. AREA
ONTARIO

Date: March, Sept 1987 Scale 1: 2500
Drawn: MHM, JAR

87-200-(9)



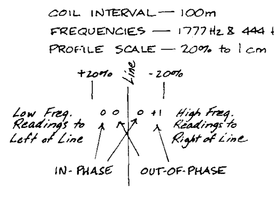


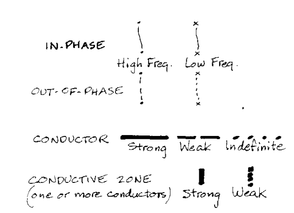
LOCATION MAP
Scale- 1" to 1 mile
N.T.S. 52-P-15/16

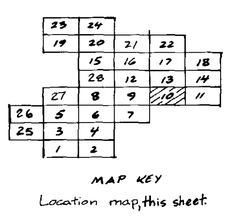
2.11494

LEGEND

COIL INTERVAL — 100m
FREQUENCIES — 1777 Hz & 444 Hz.
PROFILE SCALE — 20% to 1 cm







MAP KEY
Location map, this sheet

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

KEEZHIK LK.- BRASH LK. AREA
ONTARIO

Date: March, 1987 SCALE - 1:2500
Drawn: MHM

87-200-(10)

2.11494

VERTICAL LOOP ELECTROMAGNETIC SURVEY
for
GEOSEARCH CONSULTANTS LIMITED
by
DOME EXPLORATION (CANADA) LIMITED
PROJECT 282
KEEZHIK LK.- BRASH LK. AREA
ONTARIO

Scale: 1:2500
Date: March, 1987/Sept 1987
Datum: MAHJAR

87-200-(12)

MAP KEY

28	27				
29	30	31	32		
1	6	7			
5	8	9	10		
28			13	14	
15	16	17	18		
26	3	4			
27	8	9	10	11	
28			13	14	
15	16	17	18		
25	3	4			
1	2				

Location map on Sheet 10

LEGEND

IN-PHASE — High Fast, Low Fast
OUT-OF-PHASE

CONDUCTIVE ZONE (one or more conductors) — Strong, Weak, Indefinite; Strong, Weak

IN-PHASE — OUT-OF-PHASE
+10% 0 -10%
Low Cond. Overburden or Weathering or Rock or Low
Rock Edge Weathering or Rock or Low

PROFILE SCALE — 20mm to 1cm
FREQUENCIES — 1777 Hz & 444 Hz.
COIL INTERVAL — 100m

440

SP1506000 2.11494 NORTH BAY KEEZHIK LK

TB 850671
TB 836072
TB 836071
TB 836070
TB 836069
TB 836068
TB 836077
TB 836076
TB 836075
TB 836074
TB 836073
TB 850664
TB 850663
TB 836086
TB 836085
TB 836084
TB 836083
TB 836082
TB 850653
TB 836087
TB 836088
TB 836089
TB 836090
TB 836091
TB 850100
TB 836099
TB 850652
TB 836098
TB 836097
TB 836096

Base Line 0

Tie Line

Island

WAGHORN LAKE

LAKE

LEGEND

COIL INTERVAL — 100m
FREQUENCIES — 1777 Hz & 444 Hz
PROFILE SCALE — 20% to 1cm

+20% -20%

Low Freq. Readings to Left of Line | High Freq. Readings to Right of Line

IN-PHASE OUT-OF-PHASE

IN-PHASE — High Freq. Low Freq.
OUT-OF-PHASE

CONDUCTOR — Strong Weak Indefinite

CONDUCTIVE ZONE (one, or more, conductor) Strong Weak

	23	24			
	17	22	21	22	23
		15	16	17	18
		20	12		19
	27	8	9	10	11
26	5	6	7		
25	3	4			
	1	2			

MAP KEY
Location map on Sheet 10

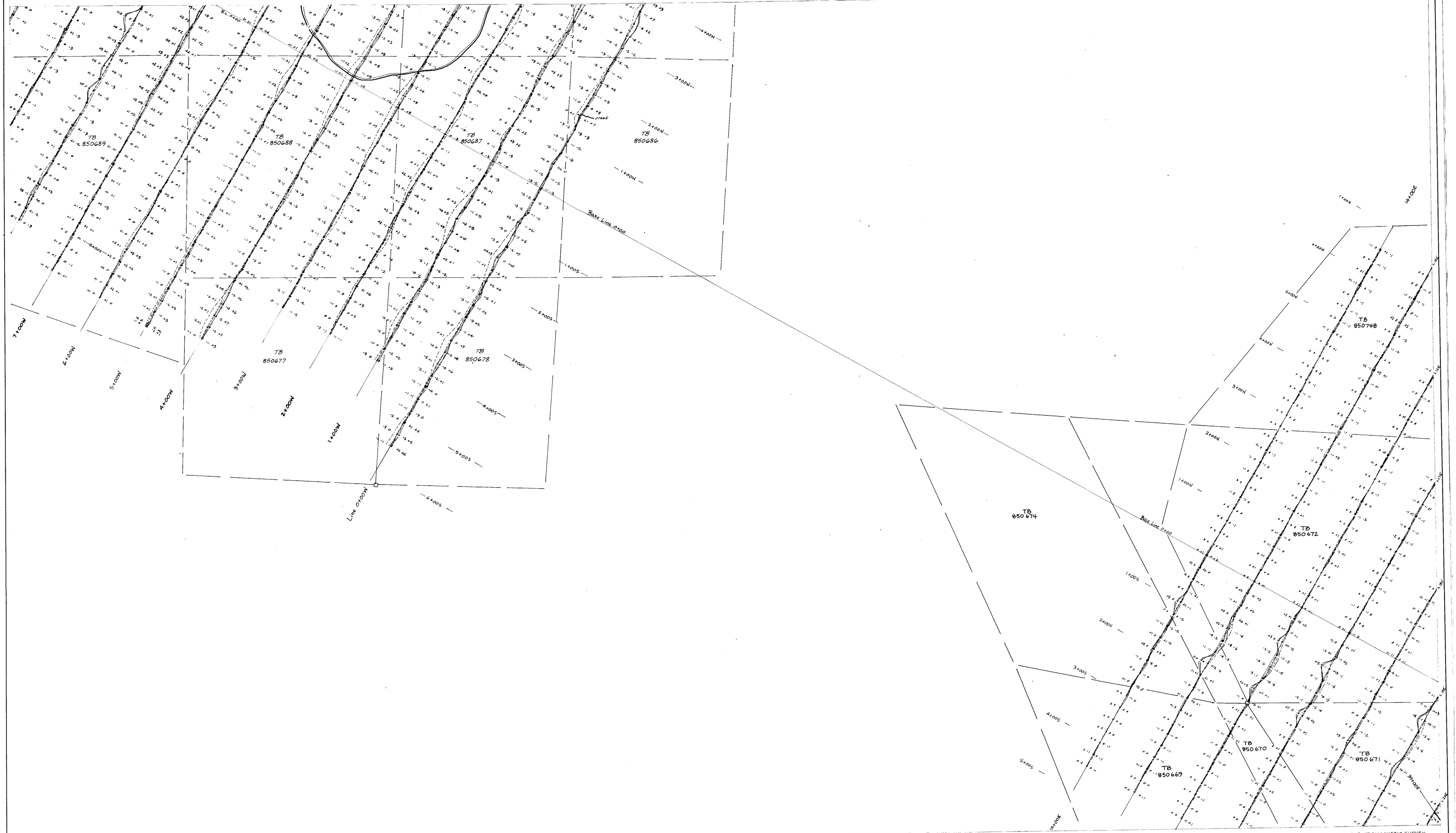
HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

2.11494

PROJECT 282
KEEZHIK LK - BRASH LK. AREA
ONTARIO

Date: March, 1983 SCALE: 1:2500
Drawn: M.H.M.

87-200-(13)



LEGEND

COIL INTERVAL — 150 m (Lines 14E & east, 100m)
FREQUENCIES — 1777 Hz & 444 Hz.
PROFILE SCALE — 20% to 1cm

+20% -20%
Low Freq. Readings to Left of Line. High Freq. Readings to Right of Line.
IN-PHASE OUT-OF-PHASE

IN-PHASE — High Freq. Low Freq.
OUT-OF-PHASE
CONDUCTOR — Strong Weak Indefinite.
CONDUCTIVE ZONE (one or more conductors) — Strong Weak

		23	24		
		19	20	21	22
			16	17	18
			28	12	13	14
		27	8	9	10	11
	26	5	6	7		
	25	3	4			
		1	2			

MAP KEY
Location map on Sheet 10

2.11454

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

BRASH LAKE AREA
ONTARIO

Date: Dec, 1986 SCALE - 1:2500
Drawn: M.H.M. 87-200-(16)
Lines 14E & to east, March 1987

LEGEND

COIL INTERVAL — 100m
FREQUENCIES — 1777 Hz & 444 Hz.
PROFILE SCALE — 20% to 1 cm

+20% 0 -20%

Low Freq. Readings to Left of Line — High Freq. Readings to Right of Line

IN-PHASE OUT-OF-PHASE

IN-PHASE — High Freq. Low Freq.

OUT-OF-PHASE

CONDUCTOR — Strong Weak Indistinct

CONDUCTIVE ZONE (one or more conductors) — Strong Weak

	23	24			
	19	20	21	22	
		15	16		18
		20	12	13	14
	27	8	9	10	11
26	5	6	7		
25	3	4			
	1	2			

MAP KEY
Location map on Sheet 10

2.11494

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

KEEZHIK LK.-BRASH LK. AREA
ONTARIO

Date: March, 1987 SCALE - 1: 2500
Drawn: M.H.M.

87-200-(17)

2.11494

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED
PROJECT 282
KEEZHIK LAKE AREA
ONTARIO
Date: Sept 1986, Sept 1987
Drawn: JAR May 1988
Scale: 1:2500
87-200-(2S)

MAP KEY

					1	2
					3	4
26	5	6	7		25&S	
27	8	9	10	11		
	29	12	13	14		
	15	16	17	18		
	19	20	21	22		
	23	24				

Location map, sheet 10

LEGEND

IN-PHASE —— Low Freq. / High Freq.
OUT-OF-PHASE ——
CONDUCTOR — Strong / Weak / Indefinite
CONDUCTIVE ZONE — Strong / Weak
(more than one conductor)

COIL INTERVAL —— 150 m & 100m
FREQUENCIES —— 1777 Hz & 444 Hz
PROFILE SCALE —— 20% to 1cm

+20% / -20%
Low Freq. Readings Left of Line
High Freq. Readings Right of Line
IN-PHASE OUT-OF-PHASE

480

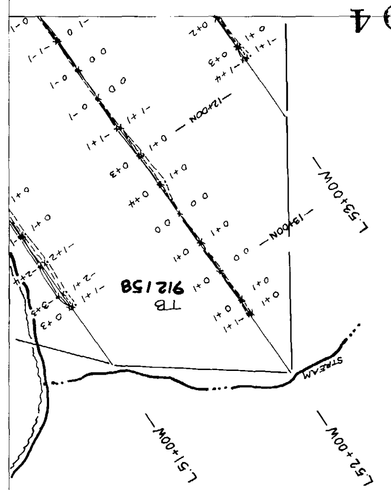
SCP-1SS82002 2.11494 NORTH BAY KEEZHIK LA

BASE LINE 0+00

L 61+00W
L 60+00W
L 59+00W
L 58+00W
L 57+00W
L 56+00W
L 55+00W
L 54+00W

TB 836002
TB 836001
TB 912157
TB 912158

0+00N
3+00N
4+00N
5+00N
6+00N
7+00N
8+00N
11+00N
14+00N
15+00N



2.11494

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED
PROJECT 282
KEEZHIK LAKE AREA
ONTARIO
Date: Sept 1986, Sept 1987
Drawn: JAR
Location map, sheet 10
Scale: 1:2500
87-200-(24)

MAP KEY

			Z			
		25	3	4		
	27	8	9	10	11	
26E	5	6	7			
	26	12	13	14		
	19	20	21	22		
		23	24			

LEGEND

COIL INTERVAL —— 150 m & 100m
FREQUENCIES —— 1777 Hz & 444 Hz
PROFILE SCALE —— 2096 to 1cm

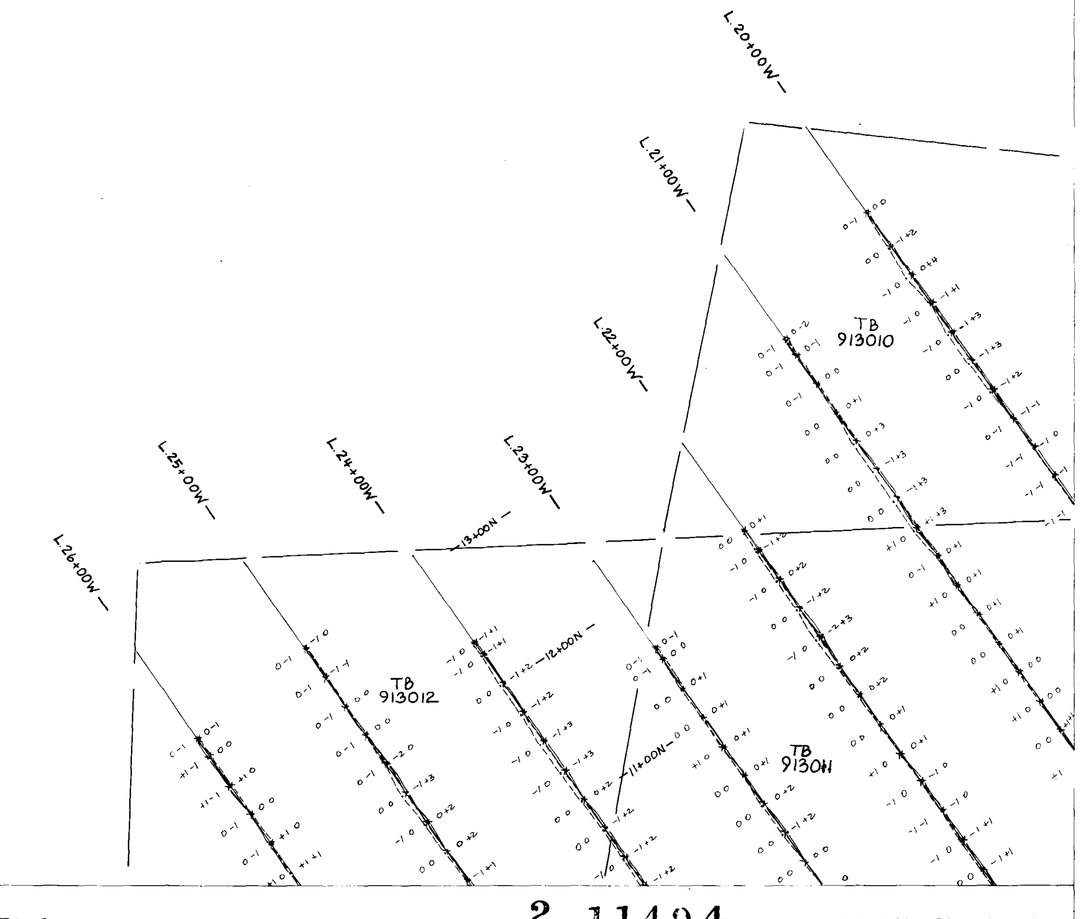
+2096 — Low Freq. Readings Left of Line — 0 — High Freq. Readings Right of Line — -2096

IN-PHASE | OUT-OF-PHASE

IN-PHASE —— Low Freq. High Freq.
OUT-OF-PHASE ——

CONDUCTOR — Strong Weak Indefinite
CONDUCTIVE ZONE — Strong Weak
(One or more conductors)

490



2.11494

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

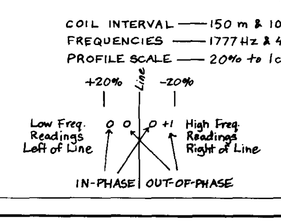
KEEZHIK LAKE AREA
ONTARIO

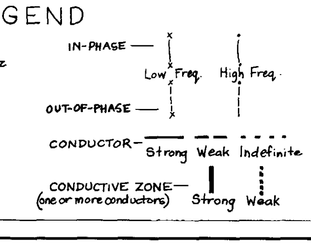
Scale: 1:2500

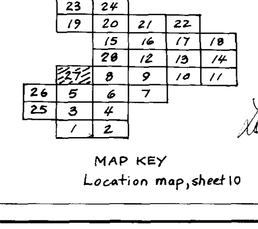
87-200(27)

LEGEND

COIL INTERVAL — 150 m & 100m
FREQUENCIES — 1777 Hz & 444 Hz
PROFILE SCALE — 20% to 1cm







MAP KEY
Location map, sheet 10

Date: Sept. 1986, Sept. 1987
Drawn: J.A.R.

500

L 18+00W
L 17+00W
L 16+00W
L 15+00W
L 14+00W
L 13+00W
L 12+00W
L 11+00W
L 10+00W
L 9+00W
L 8+00W
L 7+00W
L 6+00W
L 5+00W
L 4+00W
L 3+00W
L 2+00W
L 1+00W
L 0+00
L 1+00E
L 2+00E
L 3+00E
L 4+00E
16+00N
15+00N
14+00N
13+00N
12+00N
11+00N
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9+00N
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2+00N
1+00N
TB 913008
TB 913007
TB 913006
TB 913005
TB 913004
TB 913009
TB 927580
TB 927579
TB 927581
TB 836040
TB 836047
TB 927578
TB 850556
TB 850549
TB 850555
TB 850567
TB 850568
TB 927577
TB 927586
TB 927585
TB 850565
TB 850570
TB 850554
TB 850566
TB 850547
TB 850548
TB 850549
POND
WET AREA
CREEK
Swampy area, due to beaver dam
Drainage ditch, due to beaver dam
Logging road
Cleared area

LEGEND

COIL INTERVAL — 150 m & 100m
FREQUENCIES — 1777 Hz & 444 Hz.
PROFILE SCALE — 20% to 1cm

+20% −20%

Low Freq. Readings Left of Line. High Freq. Readings Right of Line.

IN-PHASE | OUT-OF-PHASE

IN-PHASE — Low Freq. High Freq.
OUT-OF-PHASE —
CONDUCTOR — Strong Weak Indefinite
CONDUCTIVE ZONE — (one or more conductors) Strong Weak

MAP KEY
Location map, sheet 10

23	24			
19	20	21	22	
	15	16	17	18
	26	12	13	14
27		9	10	11
26	5	6	7	
25	3	4		
	1	2		

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

2.11494

PROJECT 282
KEEZHIK LAKE AREA
ONTARIO

Date: Sept. 1986, Sept. 1987
Drawn: MHM, J.A.R.
Scale: 1: 2500
87-200-(8)

Louis Ranieri

510

2.11494

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
DOME EXPLORATION (CANADA) LIMITED

PROJECT 282

KEEZHIK LAKE AREA
ONTARIO

Scale: 1:2500 87-200-(28)

Date: Sept. 1986, Sept 1987
Drawn: JAR

LEGEND

COIL INTERVAL — 150 m & 100m
FREQUENCIES — 1777 Hz & 444 Hz
PROFILE SCALE — 20% to 1cm
+20% -20%
Low Freq. Readings Left of Line
High Freq. Readings Right of Line
IN-PHASE OUT-OF-PHASE

IN-PHASE — Low Freq. High Freq.
OUT-OF-PHASE —
CONDUCTOR — Strong Weak Indefinite
CONDUCTIVE ZONE — (one or more conductors) Strong Weak

MAP KEY
Location map, sheet 10

23	24			
19	20	21	22	
	15	16	17	18
	28	12	13	14
	27	8	9	10	11
26	5	6	7	
25	3	4		
	1	2		