

TECK EXPLORATIONS LIMITED

NORTH BAY, ONTARIO



52F15SE0020 2.13766 ZEALAND

010

2.13766

**ASSESSMENT REPORT
ON
CLAIM NOS. K1106349 TO 1106352
THUNDER LAKE PROJECT
ZEALAND TOWNSHIPS, ONTARIO**

by

R.O. Page

RECEIVED	
PROVINCIAL MANAGER, MINING LANDS MINES & MINERALS	
DEC 13 1990	
FOR YOUR INFO	_____
COMMENTS	_____
PREPARE REPLY	_____
TAKE ACTION	_____
LANDS TENURE	_____
LANDS ADMIN.	_____
LANDS PLANNING	_____
MANAGERS MINING LANDS	_____
MINING RECORDS	_____
FILE	_____

RECEIVED

DEC 13 1990

MINING LANDS SECTION

Report No. 1125NB

N.T.S. 52 F/15

12-05-90

INTRODUCTION

The Thunder Lake project consists of 44 staked claims and a number of patented lots (private options) all within a contiguous group in southeastern Zealand Township, about 15 to 20 km due east of Dryden, Ontario. During the summer of 1990, a grid was cut over 90% of the properties and magnetic and VLF-EM surveys were completed. This report describes the surveys and results obtained on the western group of four (4) staked claims, K1106349 to K1106352 inclusive.

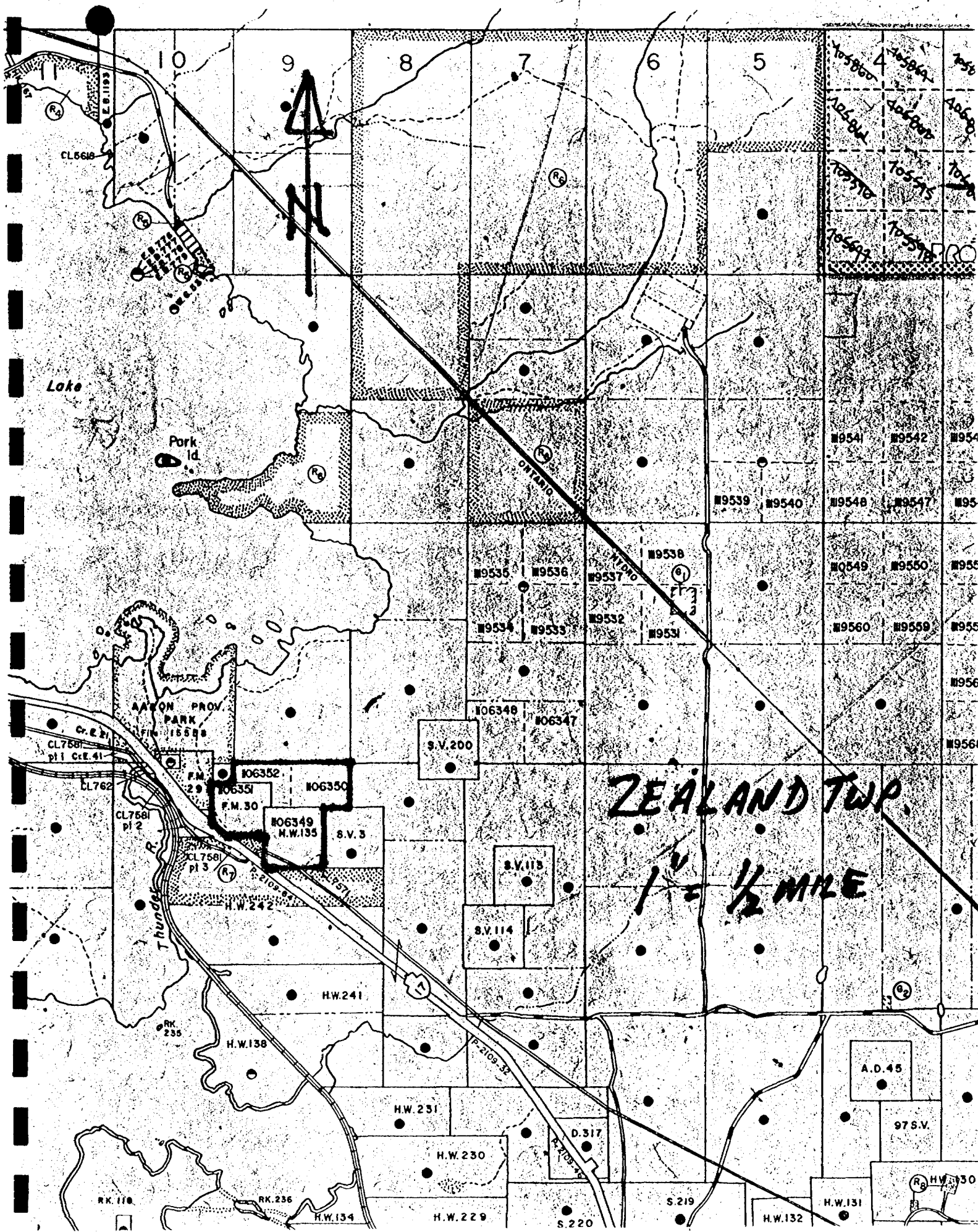
LOCATION AND ACCESS

The claim group is located about 14 km east of Dryden, Ontario, immediately east of Aaron Provincial Park and north of the Trans-Canada Highway No 17 (Figure 1). The claims are easily accessible as they are crossed by Highway 17, the Trans Canada Pipeline, and by the East Thunder Lake road. All of the claims except for K1106349 are undersize as they were staked to cover two lapsed mining patents (H.W. 135 and F.M. 30) and the remaining fractional portions of the north part of the north half of Lot 9, Con. III of Zealand Township.

TOPOGRAPHY AND VEGETATION

Relief on the property is minimal, amounting to 15-20 meters. The northeastern portion of the claim group is dominated by a large beaver pond and an adjacent flooded swamp. Vegetation consists of second and third growth of mainly balsam and poplar with lesser ash, jackpine, alders, and Manitoba maple.

BROWNRIDGE TP. M. 1954



WORK PERFORMED

A grid was cut over the claims and magnetic and VLF-EM surveys were completed by Independent Exploration Services Limited. Approximately 0.8 km of transit-surveyed east-west baseline were cut along the Con. III-Con IV township line. About 4.9 km of north-south cross lines were cut at 100 m intervals and picketed at 25 m stations.

Magnetic and VLF-EM measurements were taken at 12.5 m intervals on all cross lines, using an EDA OMNI-IV Plus instrument. The magnetic readings were corrected for diurnal variation through the use of an automatic recording base station unit which is part of the OMNI-IV Plus instrumentation. Seattle, Washington (NLK) was used as the transmitter for the VLF-EM survey. Specifications of the EDA instrument are given in the Appendix.

RESULTS

Magnetic Survey

The northern half of the grid has a north to south gradient reflective of the very high magnetic anomaly located about 300 m north of the claims. The southern part is characterized by erratic highs and lows reflective of high iron mafic volcanics or partially magnetic sediments. The most westerly line has a very high anomaly along the line that may represent metallic pipes or scraps along the roadway.

VLF-EM Survey

A total of 11 VLF-EM conductors stronger than 20% after the Fraser Filter calculations are located within the claims. Because of the strength, all conductors are considered to have bedrock sources. Details of the conductors and their magnetic affiliations are shown in Table I.

TABLE I
VLF-EM CONDUCTORS, THUNDER LAKE CLAIM BLOCK

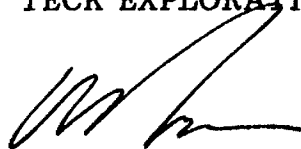
CONDUCTOR DESIGNATION	FROM	TO	LENGTH	STRENGTH	REMARKS
A	32+08mW, 1+50mS	26+00mW, 1+40mS	100m, Open W	60%	Possibly folded Magnetic low
B	32+08mW, 2+50mS	31+00mW, 2+80mS	100m, Open W	70%	Magnetic low
C	31+00mW, 1+15mN	--	100m	20%	Flat magnetic pattern
D	31+00mW, 0+40mS	30+00mW, 0+60mS	100m	30%	" " "
E	30+00mW, 0+30mN	29+00mW, 0+60mN	100m	30%	" " "
F	30+00mW, 3+90mS	27+00mW, 3+80mS	300m, Open	70%	Flanks magnetic high
G	29+00mW, 5+10mS	27+00mW, 5+70mS	200m, Open	40%	Flat magnetic pattern
H	29+00mW, 6+00mS	--	100m, Open W	60%	Weak magnetic high
I	26+00mW, 0+60mN	--	100m	30%	Flat magnetic pattern
J	26+00mW, 0+10mN	23+00mW, 0+00	300m, Open E	30%	Weak magnetic high in part
K	25+00mW, 1+10mN	--	100m	30%	Weak magnetic high

RECOMMENDATIONS

The 11 VLF-EM conductors should be verified as to bedrock authenticity with a horizontal loop survey. All conductors considered as bona fide should be tested by trenching or drilling.

Respectfully submitted,

TECK EXPLORATIONS LIMITED



FOR R.O. Page

December 5, 1990

REP-0055/ec

OMNI PLUS VLF / Magnetometer System



Major Benefits of the OMNI PLUS

- Combined VLF/Magnetometer/Gradiometer System
- No Orientation Required
- Three VLF Magnetic Parameters Recorded
- Automatic Calculation of Fraser Filter
- Calculation of Ellipticity
- Automatic Correction of Primary Field Variations
- Measurement of VLF Electric Field

Specifications*

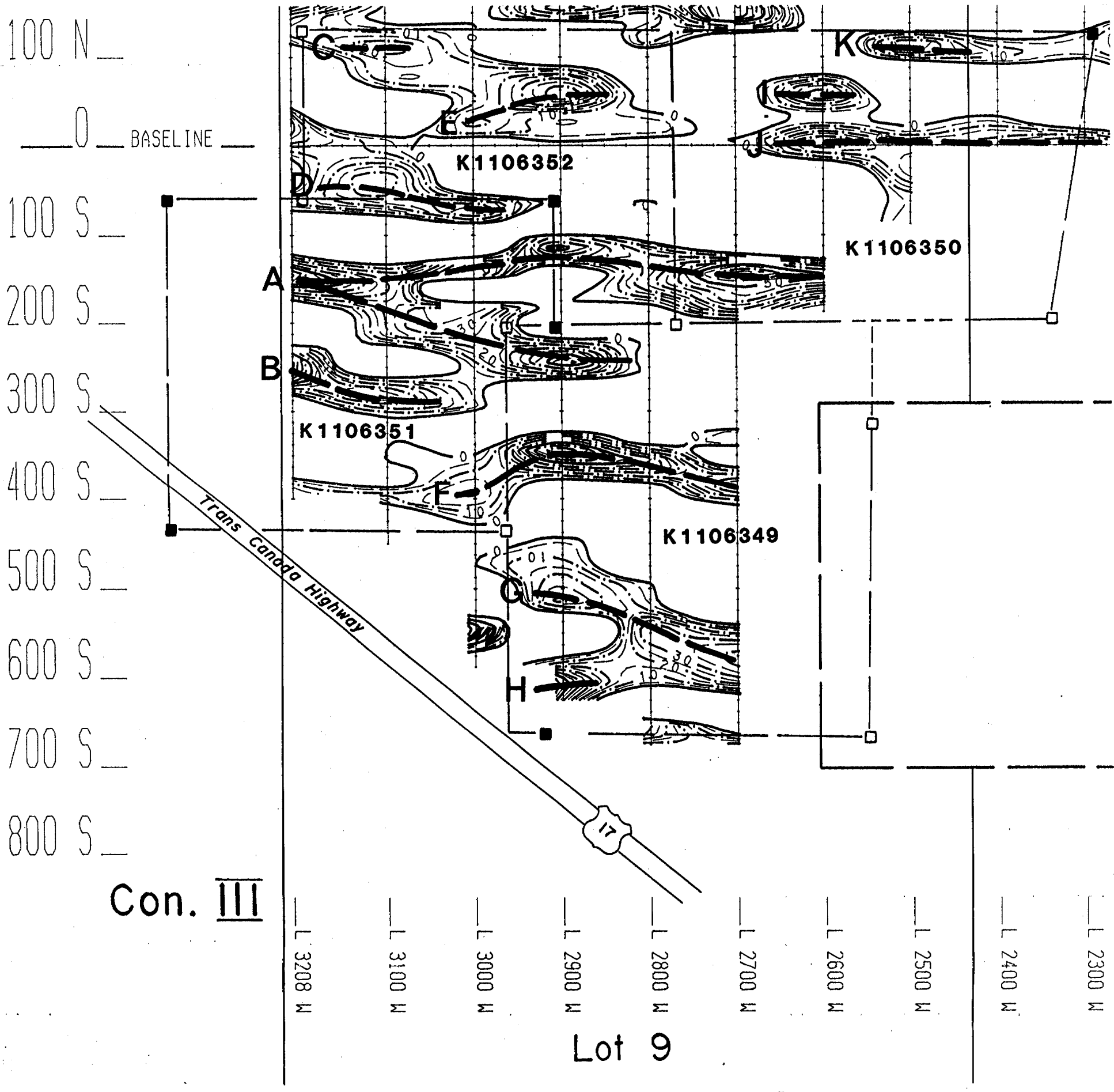
Frequency Tuning Range	15 to 30 kHz, with bandwidth of 150 Hz; tuning range accommodates new Puerto Rico station at 28.5 kHz
Transmitting Stations Measured	Up to 3 stations can be automatically measured at any given grid location within frequency tuning range
Recorded VLF Magnetic Parameters	Total field strength, total dip, vertical quadrature (or alternately, horizontal amplitude)
Standard Memory Capacity	800 combined VLF magnetic and VLF electric measurements as well as gradiometer and magnetometer readings
Display	Custom designed, ruggedized liquid crystal display with built-in heater and an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal strength status monitor and function descriptors.
RS232C Serial I/O Interface	2400 baud rate, 8 data bits, 2 stop bits, no parity
Test Mode	A. Diagnostic Testing (data and programmable memory) B. Self Test (hardware)
Sensor Head	Contains 3 orthogonally mounted coils with automatic tilt compensation
Operating Environmental Range	-40°C to +55°C; 0 - 100% relative humidity; Weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid 18V DC battery cartridge or belt; 18V DC disposable battery belt; 12V DC external power source for base station operation only.
Weights and Dimensions	
Instrument Console	2.8 kg, 128 x 150 x 250 mm
Sensor Head	2.1 kg, 130 dia. x 130 mm
VLF Electronics Module	1.1 kg, 40 x 150 x 250 mm
Lead Acid Battery Cartridge	1.8 kg, 235 x 105 x 90 mm
Lead Acid Battery Belt	1.8 kg, 540 x 100 x 40 mm
Disposable Battery Belt	1.2 kg, 540 x 100 x 40 mm

*Preliminary

EDA Instruments Inc.,
4 Thorncliffe Park Drive,
Toronto, Ontario
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Telex: 06 23222 EDA TOR,
Cables: Instruments Toronto
(416) 425-7800

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EDA Instruments Inc.,
5151 Ward Road,
Wheat Ridge, Colorado
U.S.A. 80033
(303) 422-9112

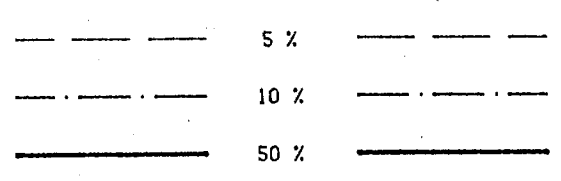
Printed In Canada



Con. III

Tx: WASH, NLK, 24.8 KHz)

CONTOUR INTERVALS

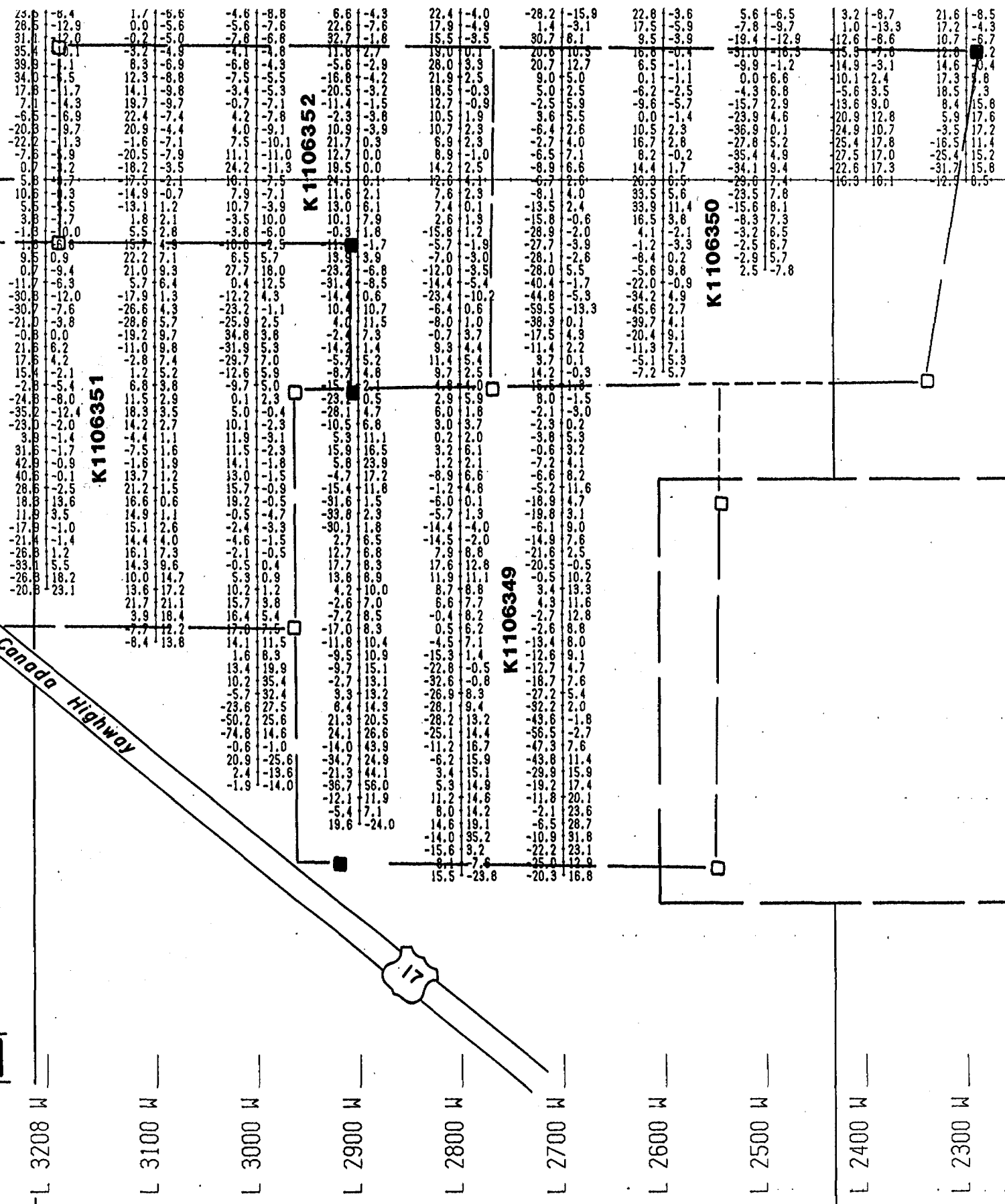


Teck Explorations Limited			
VLF-EM CONTOUR MAP			
THUNDER LAKE AREA			
ZEALAND TP.			
CLIENT/PROPERTY:			
DATE: DEC.90	JOB: 15710	N.T.S.: 052F15	
SCALE: 1:5000			
DWG. NO.:			



100 N
0
100 S
200 S
300 S
400 S
500 S
600 S
700 S
800 S

BASELINE

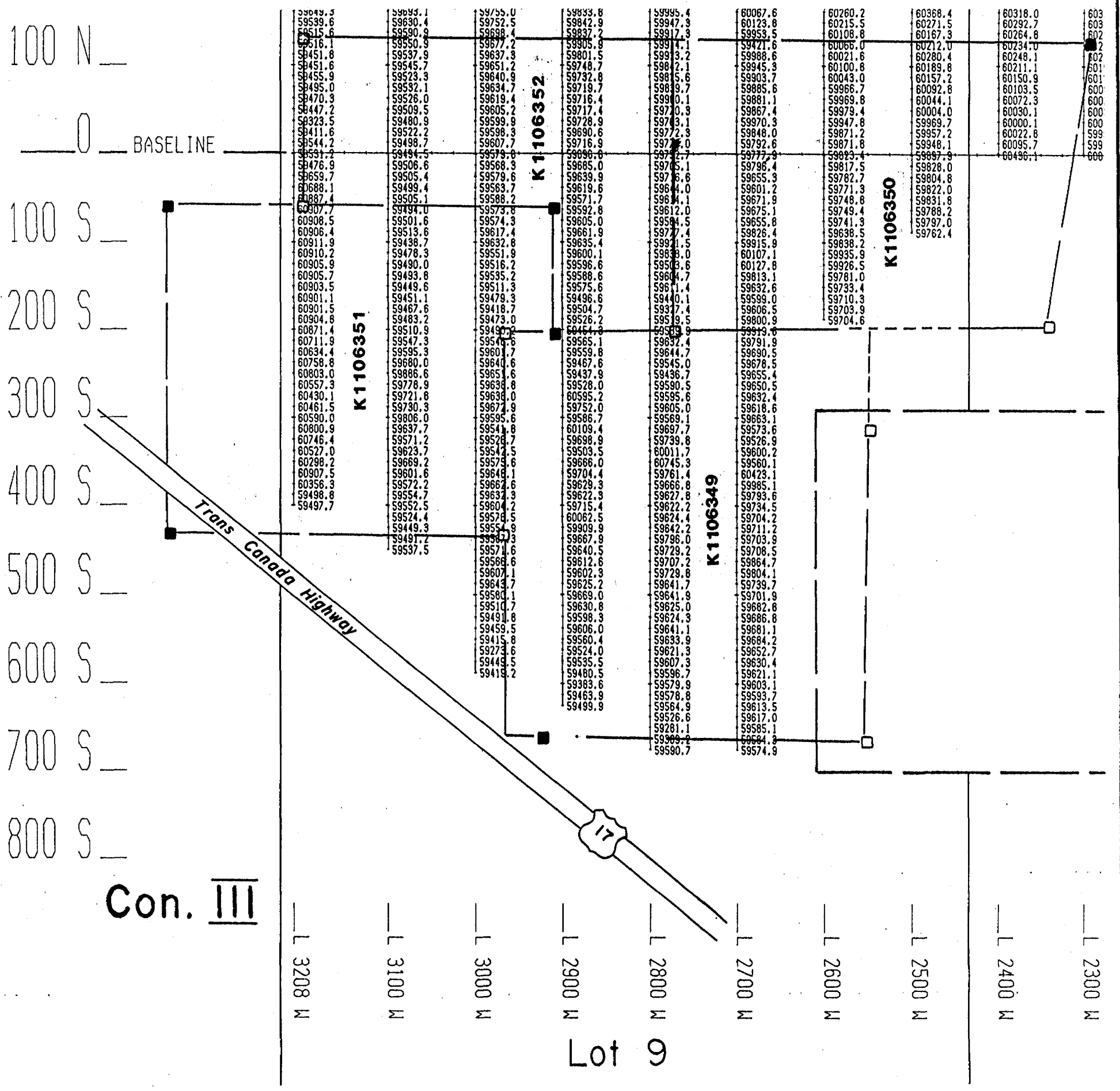
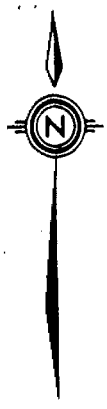


Con. III

Lot 9

Tx: WASH, NLK, 24.8 KHz)

Teck Explorations Limited			
VLF-EM POSTINGS			
THUNDER LAKE AREA			
ZEALAND TP.			
CLIENT/PROPERTY:			
DATE:	DEC.90	JOB:	15710
		N.T.S.:	052F15
SCALE:	1: 50 00		DWG. NO.:



Teck Explorations Limited			
MAGNETIC POSTINGS			
THUNDER LAKE AREA			
ZEALAND TP.			
CLIENT/PROPERTY:			
DATE:	DEC.90	JOB:	15710
		N.T.S.:	052F15
SCALE:	0 100 (metres) 200 300		DWG.NO.:
	1: 50 00		



52F15SE0020 2.13766 ZEALAND

020

TECK EXPLORATIONS LIMITED

NORTH BAY, ONTARIO

2.13766

ASSESSMENT REPORT
ON
CLAIM NOS. K1106347-1106348
THUNDER LAKE PROJECT
ZEALAND TOWNSHIP, ONTARIO

by

R.O. Page

RECEIVED

DEC 13 1990

MINING LANDS SECTION

Report No. 1124NB

N.T.S. 52 F/15

12-05-90

INTRODUCTION

The Thunder Lake project consists of 44 staked claims and a number of patented lots (private options) all within a contiguous group in southeastern Zealand Township, 15 to 20 km due east of Dryden, Ontario. During the summer of 1990, a grid was cut over 90% of the properties and magnetic and VLF-EM surveys were completed. This report describes the surveys and results obtained on a central isolated group of two staked claims, K1106347 and K1106348.

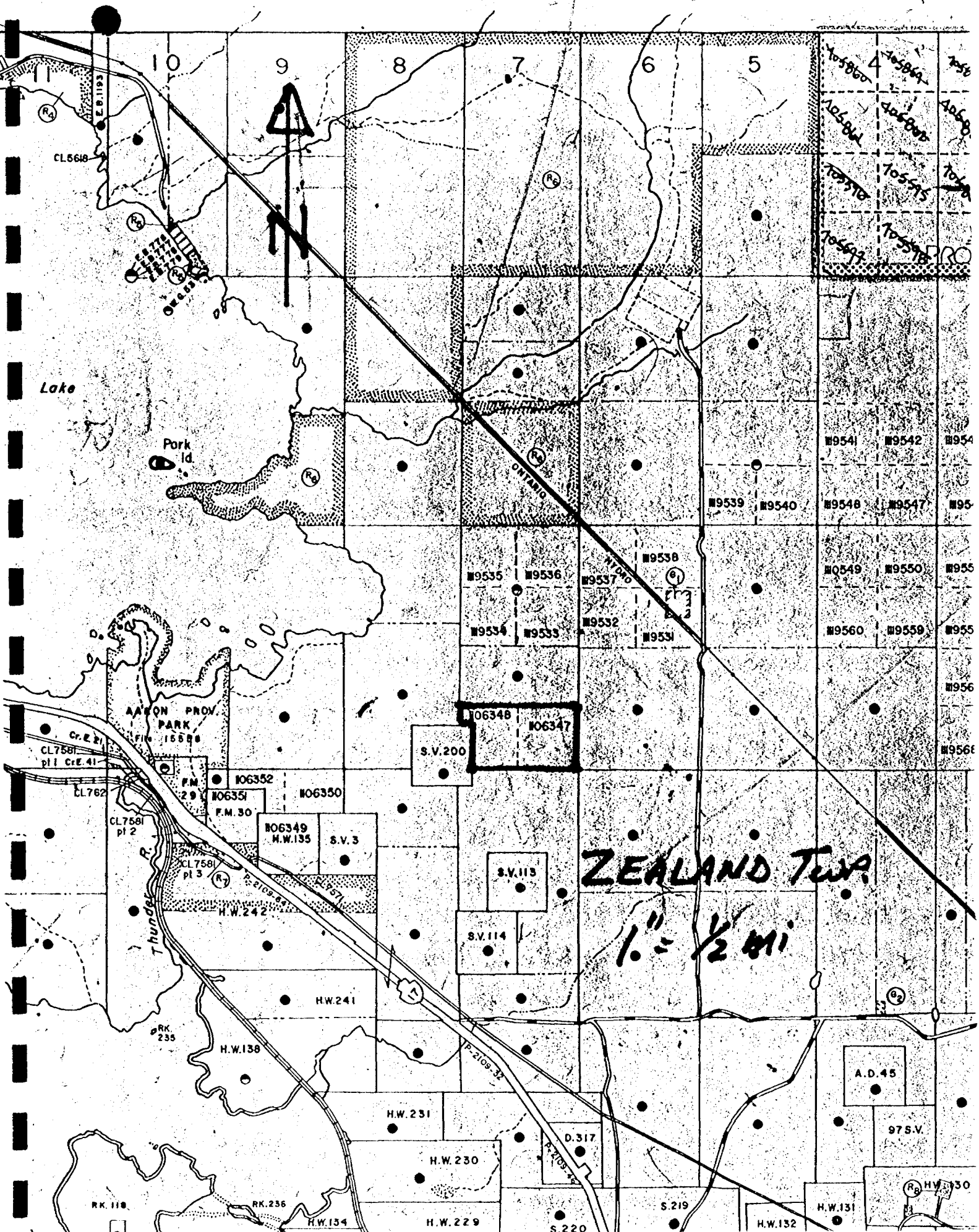
LOCATION AND ACCESS

The claims are located 15 km east of Dryden, Ontario, and about 2 km north of the Trans-Canada Highway No. 17 (Figure 1). The claims are easily accessible off of the MNR-Dryden Tree Nursery road which follows the Lot 5-Lot 6 line. Claim K1106348 is slightly undersized as it was staked to cover the broken part of SW $\frac{1}{4}$ of the south $\frac{1}{2}$ of Lot 7, Con. IV of Zealand Township.

TOPOGRAPHY AND VEGETATION

Relief on the claims is minimal, amounting to less than 10 meters. The majority of the claims are covered by a NW-trending spruce and alder bog and adjacent spruce muskeg. The higher ground is covered with second and third growth balsam and poplar with patchy areas of jackpine, alders, and Manitoba maple.

BROWNRIDGE TP. M. 1954



ZEALAND TWP.
1" = 1/2 mi

WORK PERFORMED

A grid was cut over the claims and magnetic and VLF-EM surveys were completed by Independent Exploration Services Limited. Approximately 0.8 km of transit-surveyed east-west baseline were cut along the Con. III-Con. IV township line. About 3.2 km of north-south cross lines were cut at 100 m intervals and picketed at 25 m stations.

Magnetic and VLF-EM measurements were taken at 12.5 m intervals on all cross lines, using an EDA OMNI-IV Plus instrument. The magnetic readings were corrected for diurnal variation through the use of an automatic recording base station unit which is part of the OMNI-IV Plus instrumentation. Seattle, Washington (NLK) was used as the transmitter for the VLF-EM survey. Specifications of the EDA instrument are given in the Appendix.

RESULTS

Magnetic Survey

The magnetic results are strongly affected by large iron formation located approximately 400 m north of the subject claims. The reflection of this magnetic high is shown on the claims as a magnetic gradient with decreasing values to the south. A strong bullseye anomaly of up to 2000 gammas on line 16+00W at 1+80N. Other fluctuations within the regional gradient are generally of the one reading variety and may not be significant.

VLF-EM Survey

A total of ten VLF-EM anomalies stronger than 20% from the Fraser Filter calculations are located on the claims. The conductors are detailed in Table I and are shown on the Fraser Filter and contoured magnetic plans.

All conductors are considered to have bedrock sources. Conductors A, E and I and conductors C and J may represent the same lithologic units with non-conductive breaks. The remainder may represent short conductive lenses.

TABLE I
VLF-EM CONDUCTORS, THUNDER LAKE CLAIM BLOCK

CONDUCTOR DESIGNATION	FROM	TO	LENGTH	STRENGTH	REMARKS
A	17+00mW, 3+00mN	16+00mW, 3+10mN	100m+, Open W	40%	Magnetic low
B	17+00mW, 1+60mN	16+50mW, 1+80mN	100m+, Open W	60%	Magnetic high
C	14+00mW, 2+40mN	--	100m	40%	Flat magnetic pattern
D	14+00mW, 3+85mN	12+00mW, 4+30mN	200m+	60%	"
E	13+00mN, 3+60mN	--	100m	20%	"
F	13+00mN, 0+50mN	--	100m	50%	"
G	12+00mN, 1+60mN	--	100m	20%	"
H	12+00mW, 1+00mN	--	100m	50%	"
I	11+00mW, 3+95mN	9+00mW, 3+90mN	200m	40%	"

RECOMMENDATIONS

It is recommended that the claims be re-surveyed using a horizontal loop EM system to verify the bedrock nature of the conductors. All bedrock conductors should then be tested by trenching or diamond drilling.

Respectfully submitted,

TECK EXPLORATIONS LIMITED

A handwritten signature in black ink, appearing to be 'M. H.', written in a cursive style.

FOR R.O. Page

December 5, 1990

REP-0054/ec

OMNI PLUS VLF/Magnetometer System



Major Benefits of the OMNI PLUS

- Combined VLF/Magnetometer/Gradiometer System
- No Orientation Required
- Three VLF Magnetic Parameters Recorded
- Automatic Calculation of Fraser Filter
- Calculation of Ellipticity
- Automatic Correction of Primary Field Variations
- Measurement of VLF Electric Field

Specifications*

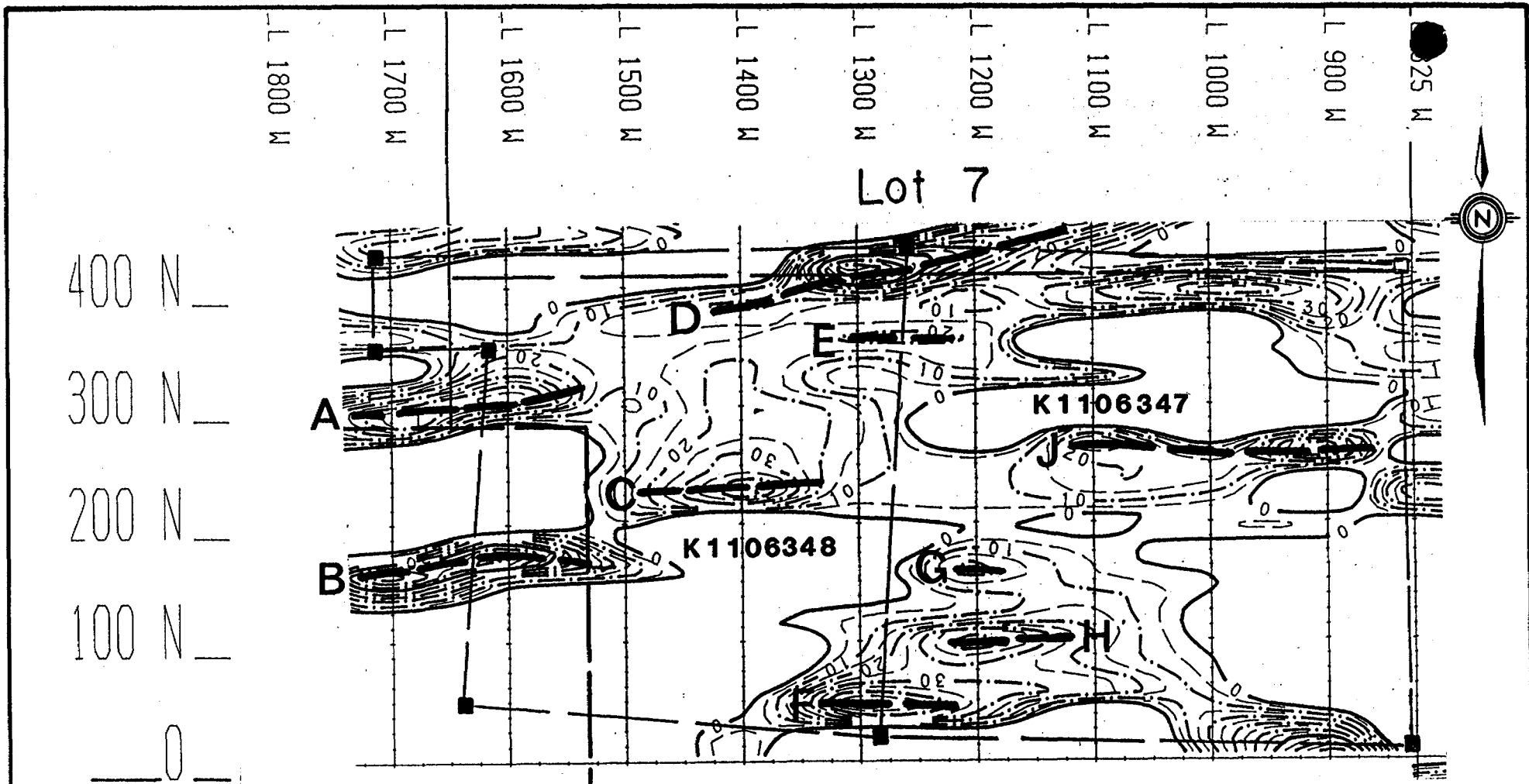
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Recorded VLF Magnetic Parameters	Total field strength, total dip, vertical quadrature (or alternately, horizontal amplitude)
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Test Mode	A. Diagnostic Testing (data and programmable memory) B. Self Test (hardware)
Sensor Head	Contains 3 orthogonally mounted coils with automatic tilt compensation
Operating Environmental Range	-40°C to $+55^{\circ}\text{C}$; 0 - 100% relative humidity; Weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid 18V DC battery cartridge or belt; 18V DC disposable battery belt; 12V DC external power source for base station operation only.
Weights and Dimensions	
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Sensor Head	2.1 kg, 130 dia. x 130 mm
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*Preliminary

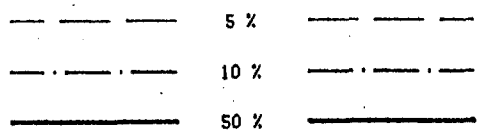
EDA Instruments Inc.,
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U.S.A. 80033
(303) 422-9112

Printed in Canada



CONTOUR INTERVALS



Tx: WASH, NLK, 24.8 KHz)

Teck Explorations Limited			
VLF-EM CONTOUR MAP			
THUNDER LAKE AREA			
CLIENT/PROPERTY: ZEALAND TP.			
DATE: DEC.90	JOB: 15710	N.T.S.: 052F15	
SCALE: 1:50'00		DWG. NO.:	

L 1800 M L 1700 M L 1600 M L 1500 M L 1400 M L 1300 M L 1200 M L 1100 M L 1000 M L 900 M 25 M

Lot 7



400 N
300 N
200 N
100 N
0

-5.3	1.2	11.4	-4.0	-7.3	13.7	-10.1	13.0	-31.0	12.0	-47.4	9.0	-10.3	17.4	7.0	0.0	12.0	-1.4	-7.2	-4.9	
-12.6	0.6	16.9	-7.2	-7.1	13.4	-17.5	16.5	-63.0	9.2	-57.0	12.4	-2.6	10.4	7.8	1.7	-1.7	-3.0	-0.4	-3.2	
-2.7	0.0	23.1	-9.6	-1.7	14.5	-15.5	18.5	-75.2	6.4	-36.1	15.4	1.6	8.3	0.2	1.7	-15.1	-4.0	0.8	-3.3	
5.1	-1.4	27.6	-8.9	0.3	15.8	-22.2	22.3	-65.7	11.4	-29.2	16.8	3.3	8.3	1.2	1.2	-11.2	-1.9	-5.0	-4.8	
6.6	-2.2	18.8	9.5	4.9	16.6	34.7	22.0	-39.6	16.9	17.8	17.6	2.1	4.8	-1.2	-0.7	-10.8	-4.9	1.0	-5.3	
5.2	-2.9	5.3	-9.0	-11.8	16.9	-41.9	18.0	-20.1	21.7	-11.9	23.1	2.6	3.5	6.8	-3.8	-5.9	-3.5	6.1	-7.0	
1.4	-3.0	3.3	-5.9	-8.9	15.4	-29.2	18.5	-17.5	22.5	-12.6	19.8	17.3	0.8	23.2	-4.0	3.8	-5.6	6.7	-7.8	
-2.0	-2.8	5.3	-5.7	-7.4	13.1	-26.1	18.1	-18.1	21.7	-11.3	20.7	21.0	1.6	34.6	-1.7	12.3	-7.8	3.8	-8.0	
1.2	-3.1	2.4	-5.9	0.8	9.6	-23.1	17.7	-13.1	20.5			24.0	2.1	6.2	-5.2	19.4	-8.6	4.8	-7.8	
11.1	3.0	2.5	-5.7	2.5	4.3	-18.4	16.0	-6.6	16.8	-0.6	14.5	6.8	3.3	8.9	-4.3	20.4	-10.2	6.4	-8.1	
7.1	-4.3	4.4	-5.3	4.4	2.3	-15.8	13.7	-2.7	14.8	2.9	13.2	-13.6	0.5	12.7	-2.4	20.1	-10.0	12.3	-8.9	
1.9	-4.7	8.6	-1.6	8.6	-1.6	-6.8	9.0	-3.5	13.7	8.4	11.7	2.2	5.8	1.7	-3.2	23.8	-9.8	19.0	-8.2	
2.0	-5.0	11.9	-3.9	11.9	-3.9	-4.8	3.3	-4.6	10.9	11.5	10.7	9.1	10.4	-1.3	-3.9	24.1	-9.1	15.8	-8.5	
9.9	-4.6	12.0	-5.5	2.6	-2.3	0.0	5.2	0.0	5.2	7.4	11.9	-4.6	14.0	5.5	-1.4	20.0	-8.8	17.9	-7.6	
24.7	-3.6	12.8	-7.5	9.7	-8.6	3.9	0.6	5.8	15.3	5.8	15.3	-45.9	23.0	-4.5	-1.3	16.8	-7.9	17.0	-7.5	
37.6	0.1	16.4	-10.1	13.7	-12.4	7.6	-4.7	-5.7	15.4	-5.7	15.4	-20.3	13.8	-12.8	-0.2	0.7	-9.8	29.0	-4.7	
42.1	2.0	17.6	-11.8	20.3	-15.0	12.7	-10.4	-8.2	14.7	-8.2	14.7	-21.6	15.4	-12.9	1.9	21.8	-4.5	23.4	-5.3	
23.0	-7.5	18.0	-13.0	28.9	-18.1	14.8	-12.1	-6.1	14.7	-6.1	14.7	-9.3	14.1	-9.7	2.9	37.4	-1.6	19.0	-5.7	
14.9	-8.9	21.9	-13.1	37.4	-18.4	18.9	-16.2	-3.4	9.3	-3.4	9.3	-11.0	17.5	-3.5	1.2	29.9	-3.0	18.5	-4.5	
18.3	-2.0	23.8	-12.0	45.4	-17.0	21.1	-17.6	-3.0	5.3	-3.0	5.3	-1.1	8.9	-0.3	0.2	24.0	-4.2	30.6	-0.6	
10.5	-4.1	30.7	-14.5	69.3	-13.6	22.5	-19.0	0.4	2.7	0.4	2.7	0.1	5.9	2.5	-0.7	18.6	-4.6	41.7	4.5	
1.9	-5.4	28.0	-5.7	54.2	-18.5	22.9	-20.6					-0.3	3.4	-0.6	0.0	18.4	-2.1	43.2	9.2	
-10.3	-14.3	35.0	2.0	37.8	-14.2	22.9	-20.5					-1.7	2.0	4.5	1.0	24.1	0.2	35.4	7.1	
-17.8	-12.0	20.9	-1.9	34.0	-12.0	3.9	-22.0	0.9	-12.2	0.9	-12.2	-1.1	-2.8	3.3	1.6	20.2	2.9	24.8	4.1	
-10.5	-8.2	37.6	4.3	21.3	-14.0	9.1	-19.5	7.0	-17.9	7.0	-17.9	0.8	-6.6	-1.5	1.7	19.5	5.2	23.2	4.1	
27.7	10.3	37.8	5.1	25.5	-6.7	4.4	-18.4					1.1	-10.0	-0.3	2.2	7.3	3.6	15.7	3.1	
33.6	10.6	32.5	3.5	21.6	-4.5	0.7	-15.4					3.7	-11.1	1.4	1.4	1.6	-0.8	7.2	1.6	
32.8	10.9	27.8	-1.4	17.7	-3.6	1.6	-13.3	16.4	-30.0	16.4	-30.0	7.2	-13.7	-1.0	4.7	-9.5	-1.0	1.8	0.1	
31.2	9.9	16.6	-7.3	21.9	0.1	3.5	-13.8	15.6	-28.2	15.6	-28.2	11.3	-16.0	-1.8	1.5	-9.7	3.7	-3.8	0.8	
24.7	8.6	19.3	-0.3	16.0	8.1	5.9	-11.6					17.1	-19.6	-4.1	4.6	-15.4	3.5	-6.9	1.3	
17.2	7.2	13.0	2.2	12.3	7.3	6.5	-11.8	43.0	-22.4	43.0	-22.4	22.2	-23.2	-4.4	4.8	-24.8	1.5	-10.9	0.8	
12.7	6.0	8.8	0.2	2.8	4.0	10.5	-11.5	45.6	-23.5	45.6	-23.5	24.6	-19.4	-3.6	3.4	-33.4	-1.5	-13.4	3.8	
7.3	5.0	7.0	2.2	-1.8	-0.6	15.9	-10.9	53.4	-18.1	53.4	-18.1	28.9	-19.4	-3.6	2.1	-40.5	-2.9	-15.0	6.7	
-0.2	4.2	2.3	1.6	-1.5	0.0	26.0	-9.1	64.3	-13.4	64.3	-13.4	44.6	-19.9	-2.3	0.7	-45.9	3.4	-22.8	5.2	
-6.9	3.3	4.7	1.6	-2.5	-2.3	43.6	0.1	67.5	-8.6	67.5	-8.6	36.4	-15.4	0.8	-1.6	-52.8	2.1	-30.3	2.1	
-15.1	2.3	-8.4	0.7	-1.3	-1.7	54.3	12.2	84.9	-1.2	84.9	-1.2	25.2	-18.1	5.6	-3.8	-43.9	3.8	-37.5	4.0	
-25.7	0.2	-15.1	-1.7	-1.3	-1.7	36.9	7.0	70.5	1.4	70.5	1.4	17.9	-21.8	12.0	6.0	-34.5	8.7	48.1	1.1	
38.4	-1.7	17.7	-3.1	7.5	-3.6	12.5	-4.4	48.5	-11.1	48.5	-11.1	2.2	-19.4	17.9	-6.7	-12.8	16.1	-48.1	4.8	
																			-51.8	6.5
																			-48.7	8.9

K1106348

K1106347

Teck Explorations Limited

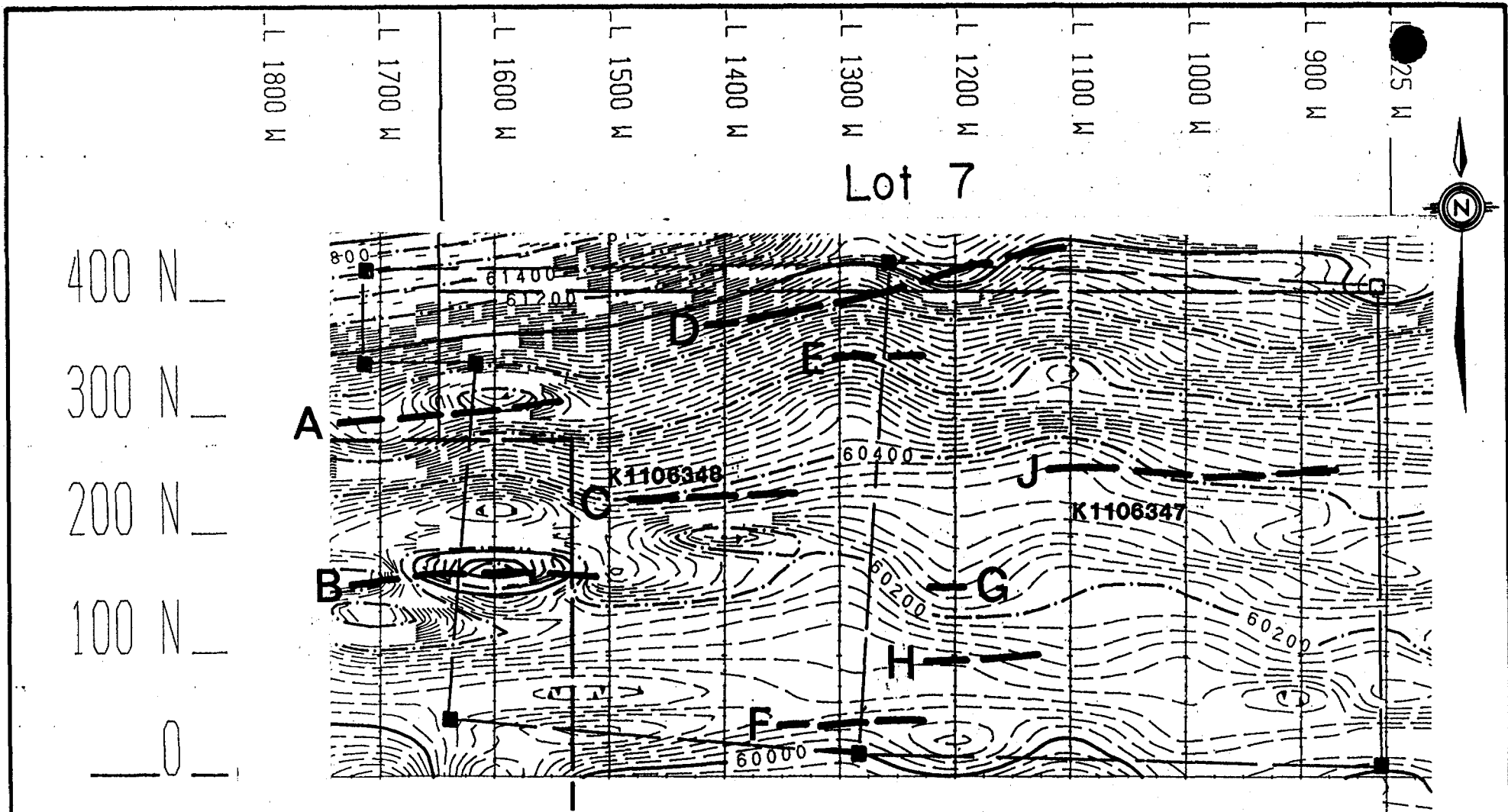
VLF-EM POSTINGS

THUNDER LAKE AREA

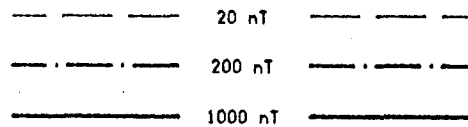
ZEALAND TP.

CLIENT/PROPERTY:			
DATE:	DEC.90	JOB:	15710
		N.T.S.:	052F15
SCALE:		1:5000	

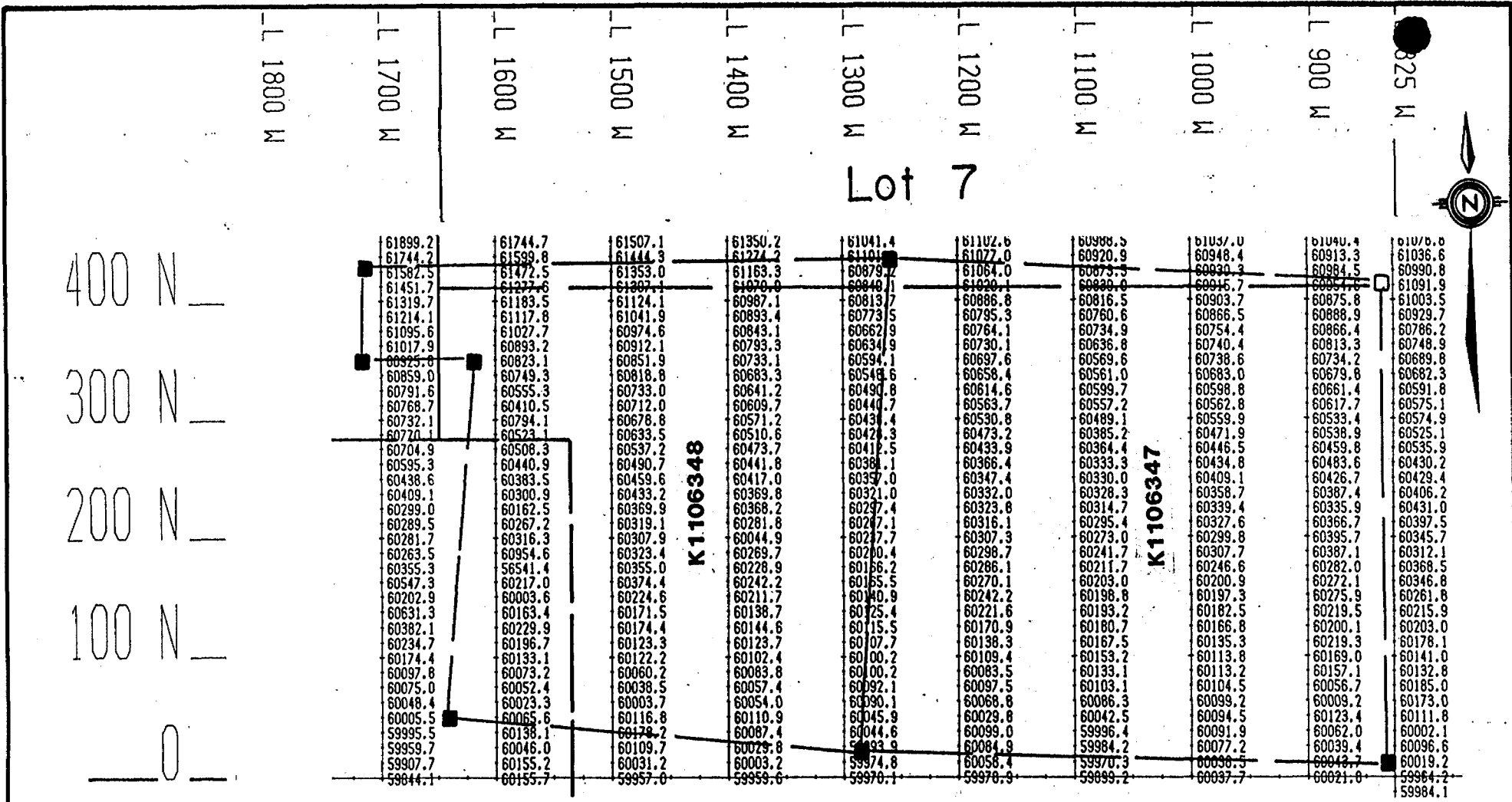
Tx: WASH, NLK, 24.8 KHz)



CONTOUR INTERVALS



Teck Explorations Limited			
MAGNETIC CONTOUR MAP			
THUNDER LAKE AREA			
ZEALAND TP.			
CLIENT/PROPERTY:			
DATE: DEC.90	JOB: 15710	N.T.S.: 052F15	
SCALE: 1: 60 00		DWG.NO.:	



Teck Explorations Limited			
MAGNETIC POSTINGS			
THUNDER LAKE AREA			
ZEALAND TP.			
CLIENT/PROPERTY:			
DATE:	DEC.90	JOB: 15710	N.T.S.: 052F15
SCALE: 1: 50 00			
DWG. NO.:			



52F156E0020 2.13766 ZEALAND

030

TECK EXPLORAT.

NORTH BAY, ONTARIO

2,13766

ASSESSMENT REPORT

ON

CLAIM NUMBERS

K.1119531, 1119532, 119537, 1119538

THUNDER LAKE PROJECT

ZEALAND TOWNSHIP, ONTARIO

by

R. Page

RECEIVED

DEC 13 1990

MINING LANDS SECTION

Report No. 1126NB

N.T.S. 52 F/15

12-04-90

INTRODUCTION

The Thunder Lake project consists of 44 staked claims and a number of patented lots (private options) all within a contiguous group in southeastern Zealand Township, 15-20 km due east of Dryden, Ontario. During the summer of 1990, a grid was cut over 90% of the properties and magnetic and VLF-EM surveys were completed. This report describes the surveys and results obtained on a central block of four staked claims, numbers K.1119531, 1119532, 1119537, and 1119538.

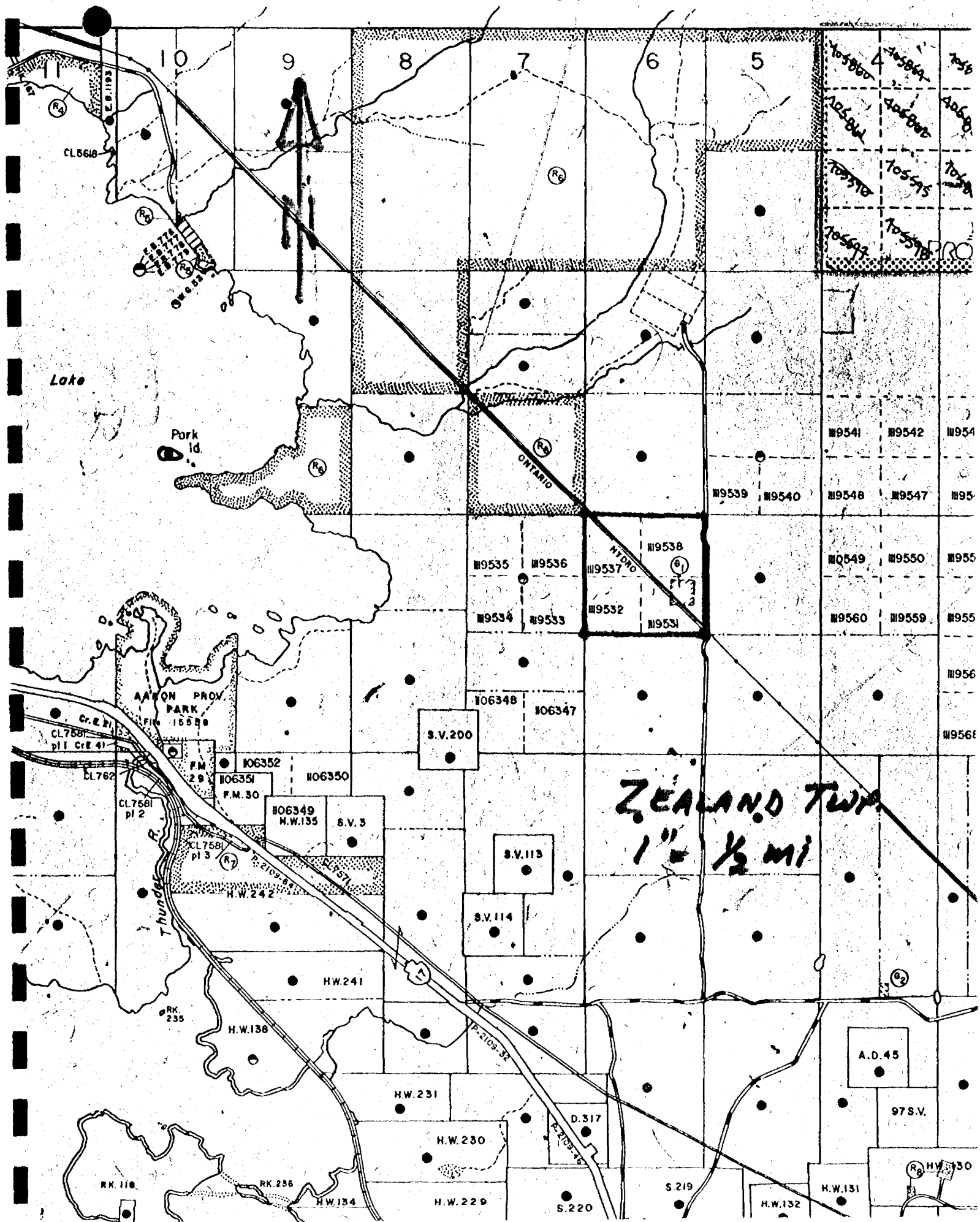
LOCATION AND ACCESS

The claims are located 16 km east of Dryden, Ontario, and about 5 km north of the village of Wabigoon. They cover the north half of Lot 6, Con. IV of Zealand Township and are easily accessible from the MNR-Dryden Tree Nursery road which follows the Lot 5-Lot 6 line. A major high-tension hydro line crosses the claims in a northwesterly direction.

TOPOGRAPHY AND VEGETATION

Relief on the claims is minimal, amounting to about 10m. Vegetation consists mainly of spruce muskeg and spruce forest in the south, giving way to mixed second growth spruce and jackpine forest to the north. Fairly large swaths of spruce have been logged from access off of the hydro line during the past 5-10 years.

BROWNRIDGE TP. M. 1954



*ZEALAND TWP
1 1/2 MI*

WORK PERFORMED

A grid was cut over the claims and magnetic and VLF-EM surveys were completed by Independent Exploration Services Limited. About 6.3 km of grid cross lines were cut on the claims, spaced at 100 m intervals and picketed at 25 m stations. Lines on the western half of the property extend north-south from a baseline located on the Con. III-Con IV boundary line. Lines on the eastern half of the property trend 320° , originating from a NE-trending baseline located 0.4-1.1 km southeast of the property.

Magnetic and VLF-EM measurements were taken at 12.5 m intervals on all lines using an EDA OMNI-IV Plus instrument. The magnetic readings were corrected for diurnal variation through the use of an automatic recording base station unit which is part of the OMNI-IV Plus instrumentation. Seattle, Washington (NLK) was used as the transmitter for the VLF-EM survey. Specifications of the EDA instrument are given in the Appendix.

RESULTS

Magnetic Survey

A thick, strongly magnetic iron formation is evident in the extremely erratic magnetic pattern over most of the grid. The southeastern portion is within the flanking gradient but is further complicated by a northeastern trending anomaly along line 600mE that may represent a diabase dyke.

VLF-EM Survey

A total of 15 conductors with strengths of above 20% after the Fraser Filter calculations are on the grid. The details of these conductors are listed in Table I. With the exception of conductor I, all are within the iron formation and may reflect sulphide-rich phases. Some conductors such as B and J and F, G, K and L probably represent two horizons that are only sporadically strongly conductive.

TABLE I
VLF-EM CONDUCTORS, THUNDER LAKE CLAIM BLOCK

CONDUCTOR DESIGNATION	FROM	TO	LENGTH	STRENGTH	REMARKS
A	8+25mW, 13+25mN	500mW, 13+80mN	300m, Open W	70%	Erratic Mag high
B	8+25mW, 11+00mN	7+00mW, 10+50mN	100m, Open W	40%	"
C	7+00mW, 12+90mN	6+00mW, 12+90mN	100m	20%	"
D	600mW, 15+25mN	--	100m	150%	"
E	6+00mW, 14+60mN	--	100m	200%	"
F	6+00mW, 9+75mN	--	100m	20%	"
G	4+00mE, 7+50mN	--	100m	30%	"
H	6+00mE, 6+50mN	--	100m	200%	"
I	6+00mE, 4+50mN	--	100m, Open E	40%	"
J	7+00mE, 8+15mN	9+00mE, 8+00mN	200m, Open W	60%	"
K	7+00mE, 7+00mN	--	100m, Open W	20%	"
L	4+00mE, 7+00mN	--	100m, Open W	30%	"
M	10+00mE, 8+75mN	--	100m	20%	"

RECOMMENDATIONS

The conductor axes should be prospected in detail and trenched or drilled as necessary.

Respectfully submitted,

TECK EXPLORATIONS LIMITED

A handwritten signature in black ink, appearing to be 'W. M. ...', written over the company name.

FOR R.O. Page

December 4, 1990

REP-0053/ec

OMNI PLUS VLF/Magnetometer System



Major Benefits of the OMNI PLUS

- Combined VLF/Magnetometer/Gradiometer System
- No Orientation Required
- Three VLF Magnetic Parameters Recorded
- Automatic Calculation of Fraser Filter
- Calculation of Ellipticity
- Automatic Correction of Primary Field Variations
- Measurement of VLF Electric Field

Specifications*

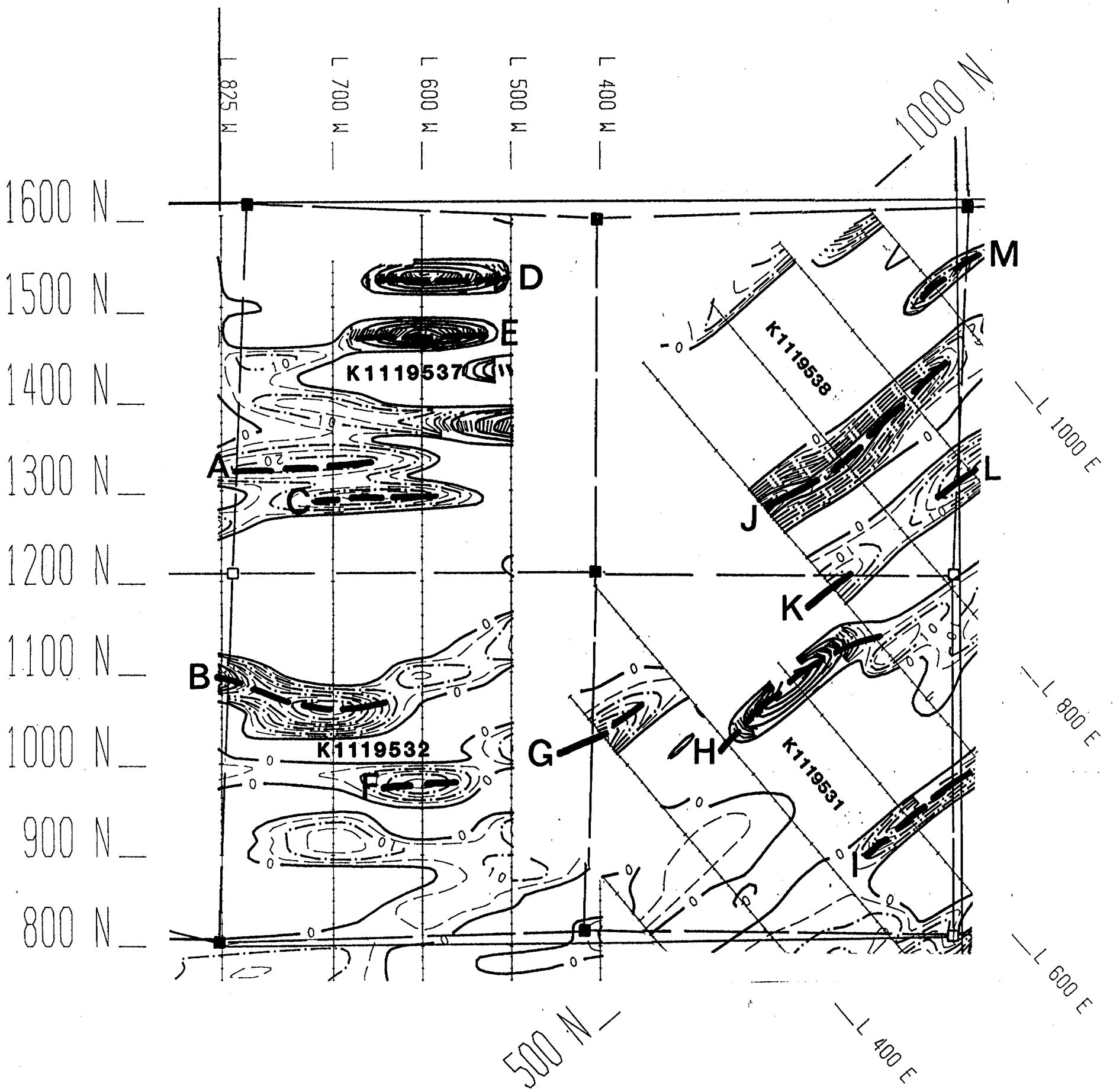
Frequency Tuning Range	15 to 30 kHz, with bandwidth of 150 Hz; tuning range accommodates new Puerto Rico station at 28.5 kHz
Transmitting Stations Measured . . .	Up to 3 stations can be automatically measured at any given grid location within frequency tuning range
Recorded VLF Magnetic Parameters	Total field strength, total dip, vertical quadrature (or alternately, horizontal amplitude)
Standard Memory Capacity	800 combined VLF magnetic and VLF electric measurements as well as gradiometer and magnetometer readings
Display	Custom designed, ruggedized liquid crystal display with built-in heater and an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal strength status monitor and function descriptors.
RS232C Serial I/O Interface	2400 baud rate, 8 data bits, 2 stop bits, no parity
Test Mode	A. Diagnostic Testing (data and programmable memory) B. Self Test (hardware)
Sensor Head	Contains 3 orthogonally mounted coils with automatic tilt compensation
Operating Environmental Range	-40°C to +55°C; 0 - 100% relative humidity; Weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid 18V DC battery cartridge or belt; 18V DC disposable battery belt; 12V DC external power source for base station operation only.
Weights and Dimensions	
Instrument Console	2.8 kg, 128 x 150 x 250 mm
Sensor Head	2.1 kg, 130 dia. x 130 mm
VLF Electronics Module	1.1 kg, 40 x 150 x 250 mm
Lead Acid Battery Cartridge	1.8 kg, 235 x 105 x 90 mm
Lead Acid Battery Belt	1.8 kg, 540 x 100 x 40 mm
Disposable Battery Belt	1.2 kg, 540 x 100 x 40 mm

*Preliminary

EDA Instruments Inc.,
4 Thorncliffe Park Drive,
Toronto, Ontario
Canada M4H 1H1
Telex: 06 23222 EDA TOR,
Cables: Instruments Toronto
(416) 425-7800

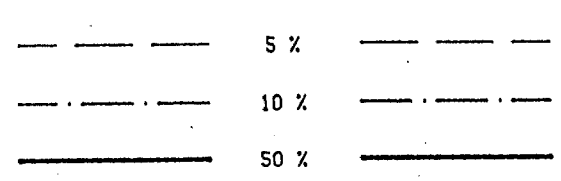
In USA,
EDA Instruments Inc.,
5151 Ward Road,
Wheat Ridge, Colorado
U.S.A. 80033
(303) 422-9112

Printed In Canada



Tx: WASH, NLK, 24.8 KHz)

CONTOUR INTERVALS



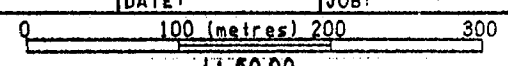
Teck Explorations Limited

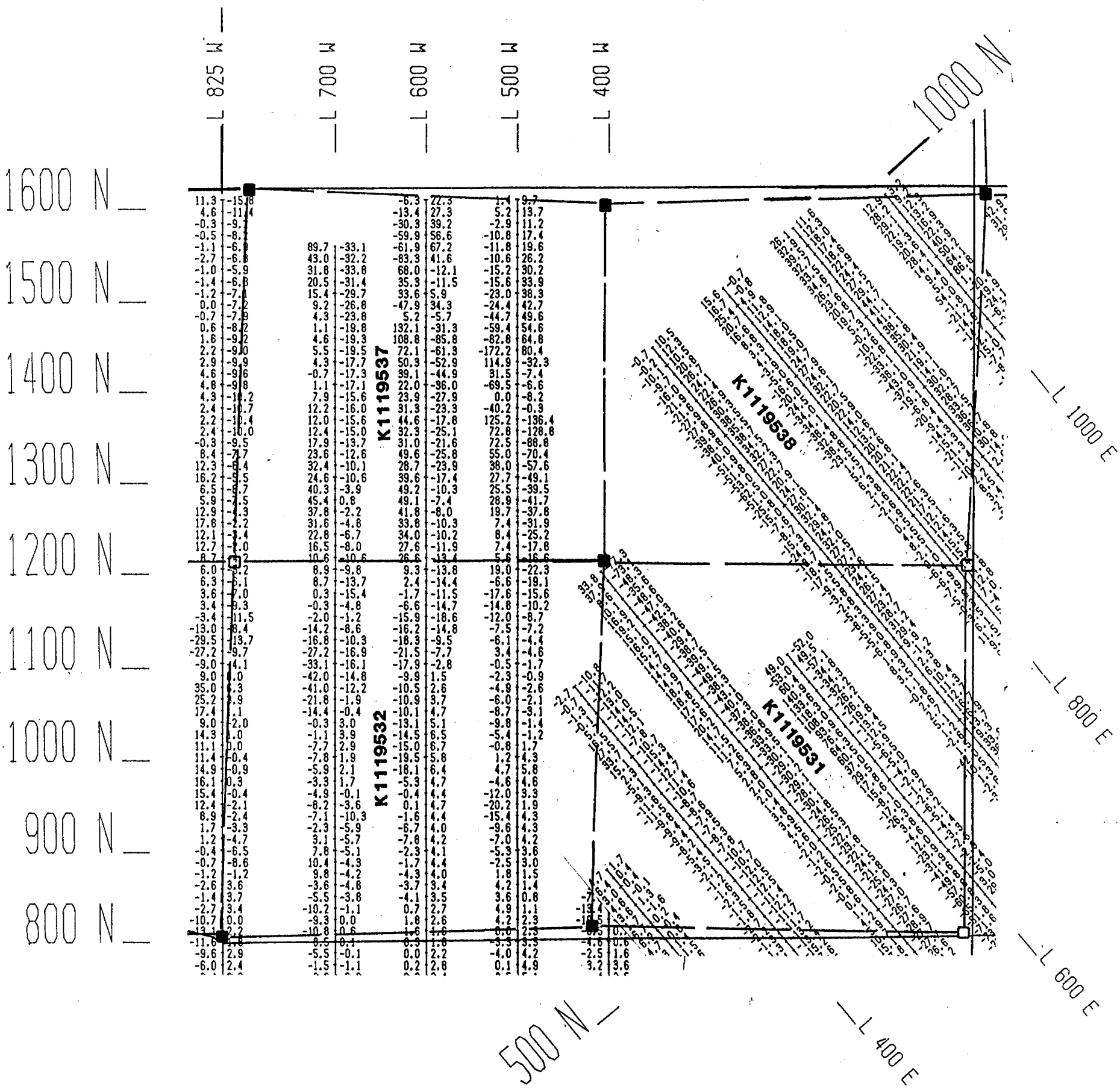
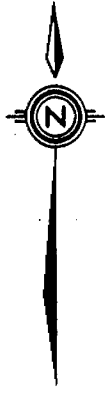
VLF-EM CONTOUR MAP

THUNDER LAKE AREA
ZEALAND TP.

CLIENT/PROPERTY: ZEALAND TP.

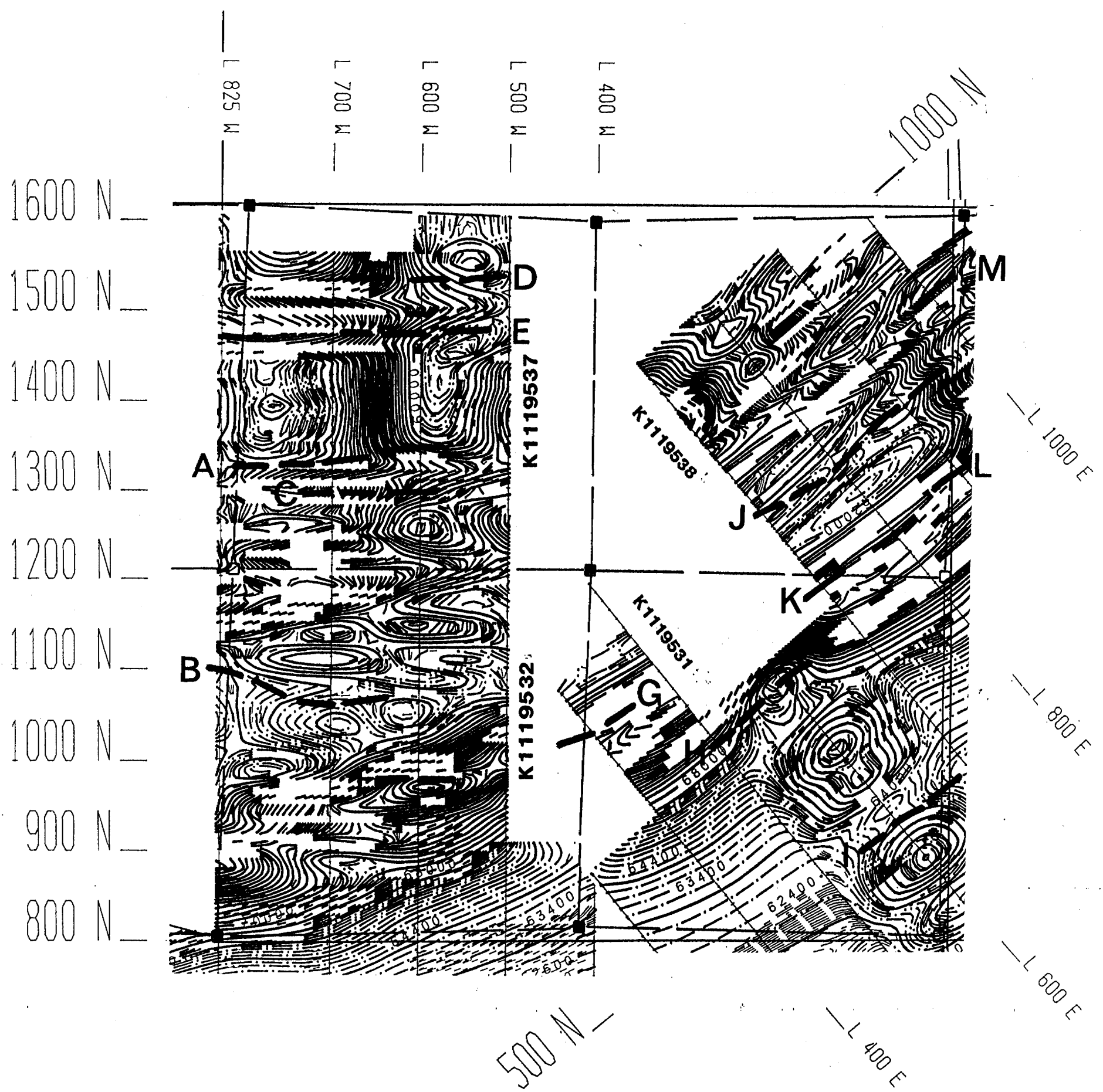
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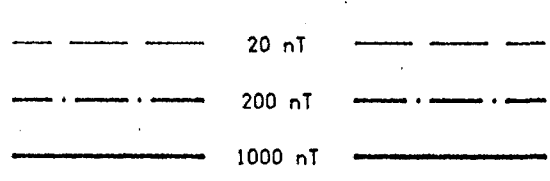


Tx: WASH, NLK, 24.8 KHz)

Teck Explorations Limited			
VLF-EM POSTINGS			
THUNDER LAKE AREA			
CLIENT/PROPERTY: ZEALAND TP.			
DATE: DEC.90	JOB: 15710	N.T.S.: 052F15	
SCALE: 1:5000		DWG.NO.:	



CONTOUR INTERVALS



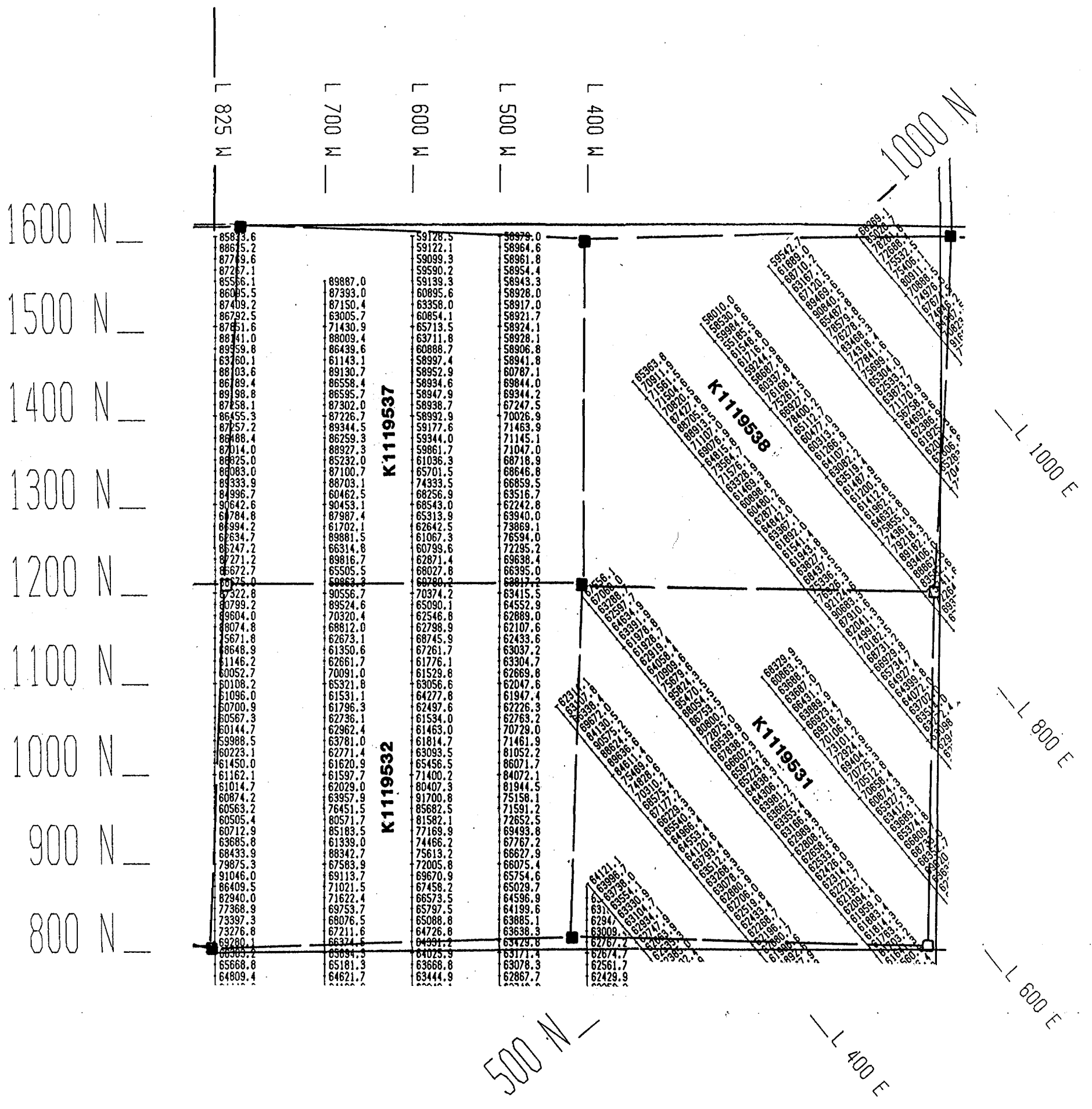
Teck Explorations Limited

MAGNETIC CONTOUR MAP

THUNDER LAKE AREA
ZEALAND TP.

CLIENT/PROPERTY: ZEALAND TP. DATE: DEC.90 JOB: 15710 N.T.S.: 052F15

SCALE: 0 100 (metres) 200 300 1:5000 DWG.NO.:



Teck Explorations Limited

MAGNETIC POSTINGS

THUNDER LAKE AREA
ZEALAND TP.

CLIENT/PROPERTY: ZEALAND TP.

DATE: DEC.90 JOB: 15710 N.T.S.: 052F15-
SCALE: 1:5000 DWG.NO.:



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) Geophysical, Mag and VLF-EM
 Township or Area Zealand Township
 Claim Holder(s) Teck Explorations Limited
 Survey Company Independent Exploration Services Ltd.
 Author of Report R.O. Page
 Address of Author 2189 Algonquin Ave., North Bay, Ontario
 Covering Dates of Survey May 24 to July 21/90 PIB 423
(linecutting to office)
 Total Miles of Line Cut 5.7 km = 3.54 miles

MINING CLAIMS TRAVERSED
List numerically

K	1106349
(prefix)	(number)
K	1106350
K	1106351
K	1106352

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes
line cutting) for first
survey.
ENTER 20 days for each
additional survey using
same grid.

	DAYS per claim
Geophysical	
-Electromagnetic	<u>40</u>
-Magnetometer	<u>20</u>
-Radiometric	_____
-Other	_____
Geological	_____
Geochemical	_____

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

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

DATE: Dec 5/90 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 4

If space insufficient, attach list

ONTARIO

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 392 Number of Readings Mag = 392 VLF-EM = 784
Station interval 12.5 m Line spacing 100 m
Profile scale VLF-EM, 1 cm = 20%
Contour interval Mag, 20 gammas

MAGNETIC

Instrument EDA OMNI-IV Plus
Accuracy - Scale constant 1 gamma
Diurnal correction method stationary base station
Base Station check-in interval (hours) 30 seconds (automatic)
Base Station location and value 8+20W, 0+10N @ 60,000 gammas

ELECTROMAGNETIC

Instrument EDA OMNI-IV Plus
Coil configuration vertical
Coil separation infinite
Accuracy +1%
Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency Seattle, Washington (NLK), 24.8 KHZ (specify V.L.F. station)
Parameters measured inphase and quadrature components of secondary field

GRAVITY

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

INDUCED POLARIZATION RESISTIVITY

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

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____



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) Geophysical, Mag and VLF-EM
Township or Area Zealand Township
Claim Holder(s) Teck Explorations Limited

Survey Company Independent Exploration Services Ltd.
Author of Report R.O. Page
Address of Author 2189 Algonquin Ave., North Bay, Ontario
PIB 4Z3
Covering Dates of Survey May 24 to July 21/90
(linecutting to office)
Total Miles of Line Cut 4.0 km = 2.49 miles

MINING CLAIMS TRAVERSED
List numerically

.....K.....1106347.....
(prefix) (number)
.....K.....1106348.....

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

Geophysical
--Electromagnetic 40
--Magnetometer 20
--Radiometric _____
--Other _____
Geological _____
Geochemical _____

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

ENTER 20 days for each additional survey using same grid.

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

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

DATE: Dec 5/90 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 2

If space insufficient, attach list

ON
CE
ON

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 256 Number of Readings Mag = 256 VLF-EM = 512
Station interval 12.5 m Line spacing 100m
Profile scale VLF-EM, 1 cm = 20%
Contour interval Mag, 20 gammas

MAGNETIC

Instrument EDA OMNI-IV Plus
Accuracy - Scale constant 1 gamma
Diurnal correction method stationary base station
Base Station check-in interval (hours) 30 seconds (automatic)
Base Station location and value 8+20W, 0+10N @ 60,000 gammas

ELECTROMAGNETIC

Instrument EDA OMNI-IV Plus
Coil configuration vertical
Coil separation infinite
Accuracy +/-1%
Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency Seattle, Washington (NLK), 24.8 KHZ (specify V.L.F. station)
Parameters measured inphase and quadrature components of secondary field

GRAVITY

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

INDUCED POLARIZATION RESISTIVITY

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

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

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

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

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____



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) Geophysical, Mag and VLF-EM
Township or Area Zealand Township
Claim Holder(s) Teck Explorations Limited

Survey Company Independent Exploration Services Ltd.
Author of Report R.O. Page
Address of Author 2189 Algonquin Ave., North Bay, Ontario
Covering Dates of Survey May 24 to July 21/90 P1B 4Z3
(linecutting to office)
Total Miles of Line Cut 6.3 km = 3.91 miles

MINING CLAIMS TRAVERSED
List numerically
Table with columns for prefix and number. Contains entries: K 1119531, K 1119532, K 1119537, K 1119538. Total claims: 4

SPECIAL PROVISIONS CREDITS REQUESTED
Table with columns for Geophysical and DAYS per claim. Includes sub-sections for Electromagnetic, Magnetometer, Radiometric, and Other.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: DEC 5, 1990 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys
Table with columns: File No., Type, Date, Claim Holder

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 504 Number of Readings Mag = 504 VLF-EM = 1008
Station interval 12.5 m Line spacing 100 m
Profile scale VLF-EM, 1 cm = 20%
Contour interval Mag, 20 gammas

MAGNETIC

Instrument EDA OMNI-IV Plus
Accuracy - Scale constant 1 gamma
Diurnal correction method stationary base station
Base Station check-in interval (hours) 30 seconds (automatic)
Base Station location and value 8+20W, 0+10N @ 60,000 gammas

ELECTROMAGNETIC

Instrument EDA OMNI-IV Plus
Coil configuration vertical
Coil separation infinite
Accuracy +/-1%
Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency Seattle, Washington (NLK), 24.8 KHZ (specify V.L.F. station)
Parameters measured inphase and quadrature components of secondary field

GRAVITY

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

INDUCED POLARIZATION RESISTIVITY

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

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

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

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

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

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

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____



Ministry of Northern Development and Mines

Mining Land
Report of Work
 (Geophysical, Geological and Geochemical)

DOCUMENT No.
W9001-335

2.13



52F155E0020 2.13766 ZEALAND

900

Mining Act

Type of Survey(s) Geophysical - EM and Mag	Mining Division Kenora	Township or Area Zealand Township G.844
Recorded Holder(s) Teck Explorations Limited	Prospector's Licence No. A32498	
Address P.O. Box 170, Suite 7000, 1 First Canadian Place, Toronto, M5X 1G9		Telephone No. 416-862-7102
Survey Company Independent Explorations Services		
Name and Address of Author (of Geo-Technical Report) R.O. Page, 2189 Algonquin Avenue, North Bay, Ontario P1B 4Z3		Date of Survey (from & to) 15 06 90 15 07 90 Day Mo. Yr. Day Mo. Yr.

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Other	
Total miles flown over claim(s).		
Date Oct 22/90	Recorded Holder or Agent (Signature) <i>[Signature]</i>	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
K	1119531				
K	1119532				
K	1119537				
K	1119538				
RECEIVED					
NOV 05 1990					
MINING LANDS SECTION					
Total number of mining claims covered by this report of work.					4

Certification Verifying Report of Work

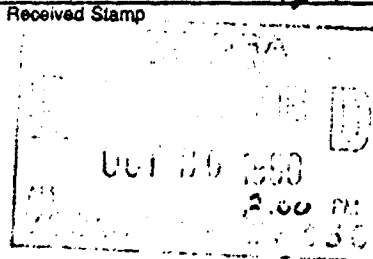
I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
K. Thorsen, 2189 Algonquin Avenue, North Bay, Ontario, P1B 4Z3

Telephone No. **705-474-5500** Date **Oct 22/90** Certified By (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded 240	Date Recorded Oct 26/90	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded Feb. 6 /91	Provincial Manager, Mining Lands <i>[Signature]</i>



W9001-324
2-15-376

INSTRUCTIONS
 - Please type or print.
 - Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
 - If number of mining claims traversed exceeds space on this form, attach a list.
 - Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

Report of Work
 (Geophysical, Geological and Geochemical Surveys)

Mining Act

Type of Survey(s) Geophysical - EM & Mag	Mining Division Kendra	Township or Area Zealand Township G. 844
Recorded Holder(s) Teck Explorations Limited		Prospector's Licence No. A32498
Address P.O. Box 170, Suite 7000, 1 First Canadian Place, Toronto, M5X 1G9		Telephone No. 416-862-7102
Survey Company Independent Exploration Services		
Name and Address of Author (of Geo-Technical Report) R. Page, 2189 Algonquin Avenue, North Bay, P1B 4Z3		Date of Survey (from & to) 15, 06, 90. 15, 07, 90.

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

Man Days	Geophysical	Days per Claim
		Complete reverse side and enter total(s) here

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

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
K	1106347				
K	1106348				

Total miles flown over claim(s).

Date: **Oct 10/90**

Recorded Holder or Agent (Signature): *[Signature]*

Total number of mining claims covered by this report of work. **2**

Certification Verifying Report of Work

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Telephone No. **705-474-5500**

Date **Oct 10/90**

Certified By (Signature): *[Signature]*

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
120	Oct 16/90	<i>[Signature]</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands
	Feb 6/91	<i>[Signature]</i>

Received Stamp

KENORA
MINING DIV.
RECEIVED
OCT 16 1990
8:15
705-474-5500



Ministry of Northern Development and Mines

Mining Lands W9001-323

Report of Work 15711 2.1376
(Geophysical, Geological and Geochemical Surveys)

Instructions
- Please type or print.
- Refer to Section 77 of the Mining Act for assessment work requirements and maximum number of days per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports submitted in duplicate should be submitted to Mining Lands Section, Ministry of Northern Development and Lands Branch:

Mining Act

Type of Survey(s) Geophysical - EM & Mag	Mining Division Kendra	Township or Area Zealand Township G.844
Recorded Holder(s) Teck Explorations Limited	Prospectory License No. A32498	
Address P.O. Box 170, Suite 7000, 1 First Canadian Place, Toronto, M5X 1G9		Telephone No. 416-862-7102
Survey Company Independent Exploration Services		
Name and Address of Author (of Geo-Technical Report) R.O. Page, 2189 Algonquin Avenue, North Bay, Ontario P1B 4Z3		Date of Survey (from & to) 15.06.90. 15.07.90.

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

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

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

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
K	1106349				
K	1106350				
K	1106351				
K	1106352				

Total miles flown over claim(s). _____

Date **Oct 10/90** Recorded Holder or Agent (Signature) *[Signature]*

Total number of mining claims covered by this report of work. **4**

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Telephone No. **705-474-5500** Date **Oct 10/90** Certified By (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded 240	Date Recorded Oct 16/90	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands

Received Stamp

KENORA MINING DIV.

RECEIVED

OCT 16 1990

8:15 PM

71010112123450



Ministry of Northern Development and Mines

Mining Land

DOCUMENT No. W9001-335

Report of Work (Geophysical, Geological and Geochemical Surveys)

2.1376

Instructions
 - Please type or print.
 - Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
 - If number of mining claims traversed exceeds 10 on this form, attach a list.
 - Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Nov. 26
Dec 25

Mining Act

Type of Survey(s) Geophysical - EM and Mag	Mining Division Kenora	Township or Area Zealand Township G. 844
Recorded Holder(s) Teck Explorations Limited	Prospector's Licence No. A32498	
Address P.O. Box 170, Suite 7000, 1 First Canadian Place, Toronto, M5X 1G9		Telephone No. 416-862-7102
Survey Company Independent Explorations Services		
Name and Address of Author (of Geo-Technical Report) R.O. Page, 2189 Algonquin Avenue, North Bay, Ontario P1B 4Z3		Date of Survey (from & to) 15 06 90 15 07 90

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey:	- Electromagnetic	40
Enter 40 days. (This includes line cutting)	- Magnetometer	20
For each additional survey: using the same grid:	- Other	
Enter 20 days (for each)	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
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	Geochemical	
Airborne Credits		Days per Claim
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Total miles flown over claim(s).		
Date Oct 22/90	Recorded Holder or Agent (Signature) <i>[Signature]</i>	

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K	1119537				
K	1119538				
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MINING LANDS SECTION					
Total number of mining claims covered by this report of work.					4

Certification Verifying Report of Work

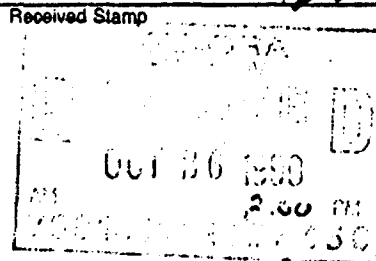
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Telephone No. **705-474-5500** Date **Oct 22/90** Certified By (Signature) *[Signature]*

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Total Days Cr. Recorded 240	Date Recorded Oct 26/90	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands



W9001.3241
 2.1571 376

- INSTRUCTIONS**
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Mining Act (Geophysical, Geological and Geochemical Surveys)

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For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	20
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Other	

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
K	1106347				
K	1106348				

Total miles flown over claim(s). _____

Date **Oct 10/90** Recorded Holder or Agent (Signature) *[Signature]*

Total number of mining claims covered by this report of work. **2**

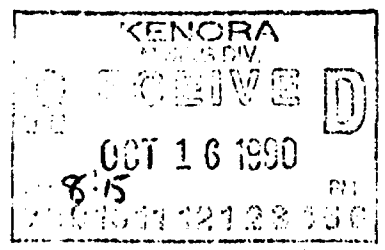
Certification Verifying Report of Work

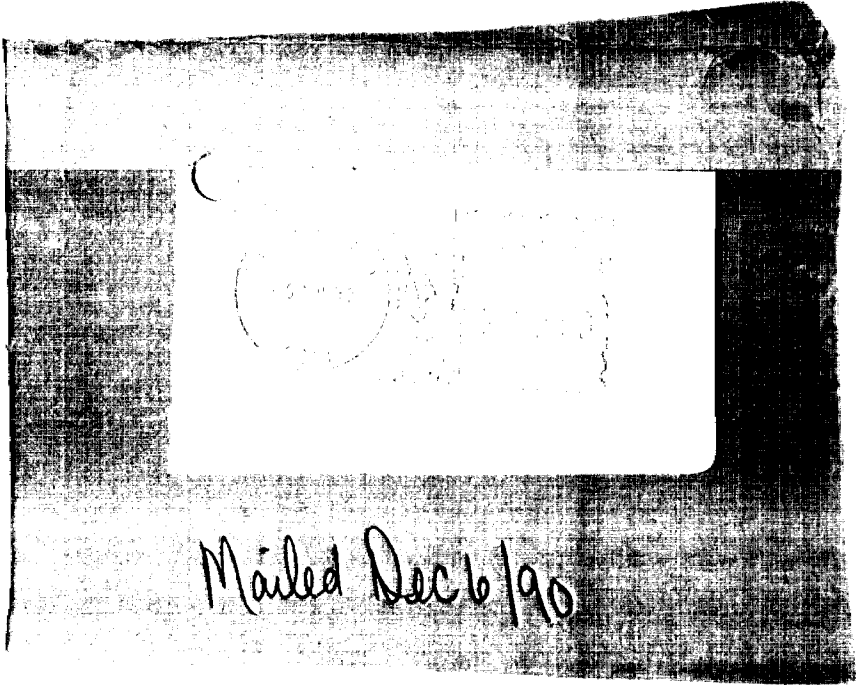
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 Telephone No. **705-474-5500** Date **Oct 10/90** Certified By (Signature) *[Signature]*

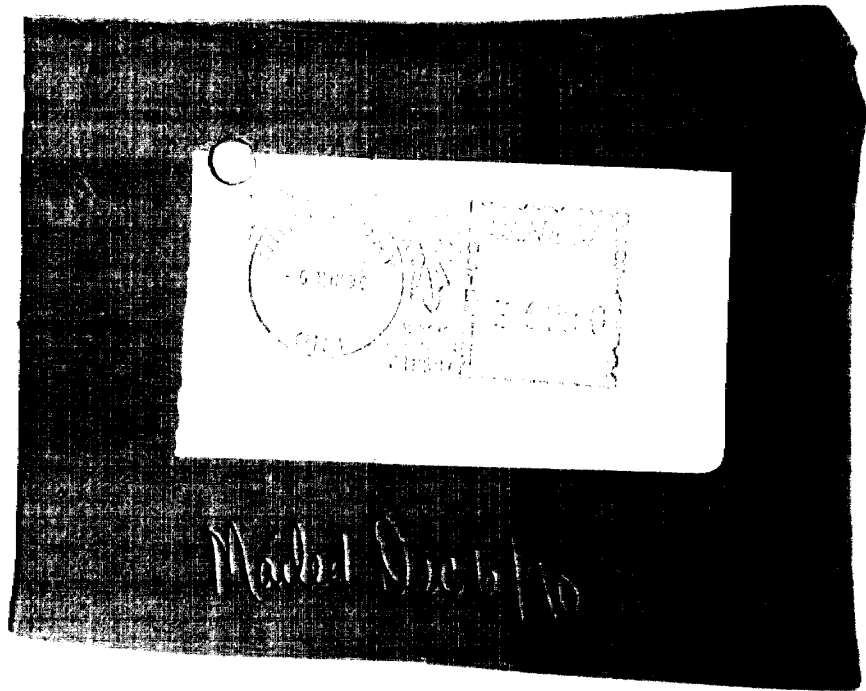
For Office Use Only

Total Days Cr. Recorded 120	Date Recorded Oct 16/90	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded	Provincial Manager, Mining Lands





Mailed Dec 6/90



Mabel D. [illegible]

TP. M. 2057

WAINWRIGHT

TP. M. 2053

HORNE

VAN

REFER TO AREA MAP OF CONTACT BAY - M. 2737



200

ON THE STATUS OF THE LANDS IN THIS REGION

XII

XI

X

IX

VIII

VII

Sec 30/1/100/1951	July 15/50	S.R.	16252
Sec 30/1/100/1952	July 15/50	S.R.	16253
Temporary	Nov 28/49		105234
Res for public use	May 30/55		117735
Res for public use			14881
Sec 35/1/1/50/1950	July 25/58	S.R.	56197
Plantation	July 23/52	S.R.	15845
Township Cabin	July 23/52	S.R.	41605
Private Mine Line	Oct 3/58	S.R.	82397
Sec 43/1/1/1/1971	W 7/77		15640
Sec 43/1/1/1/1971	Aug 19/77	S.R.	15640
AL	36 150 1980	ONAR 9/13	APRAN-2/15 S.R.

R11 00M W 37/83 S + MR AUG 23/83

RE-OPENED JAN 20/82 SAND and GRAVEL OK 3-89 NWK

M.T.C. PIT 1322

GRAVEL FILE: 11528

M.T.C. PIT NR 1A-24

REOPENED FOR SURFACE MINING RIGHTS MAY 8/1982

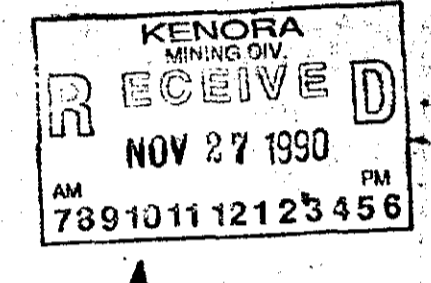
RE-OPENED BY L. B. BRADY AT WAINWRIGHT ON 11-18-1982

R10 REOPENED OCT 23/80 OK 22-90 NWK

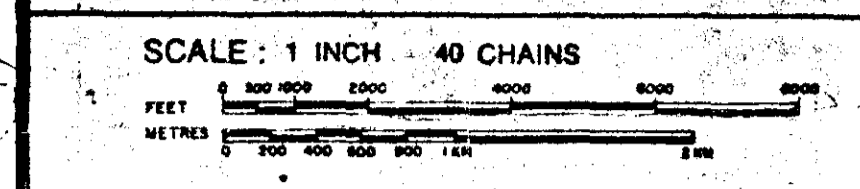
All islands in Wabigoon Lake withdrawn from staking under Sec.39 (c) of the Mining Act. RSO 1950.

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	○
CROWN LAND SALE	○
ORDER-IN-COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○



- PARCEL BOUNDARY
- MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHT
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES



ACRES	HECTARES
40	16

TOWNSHIP

ZEALAND

DISTRICT

KENORA

MINING DIVISION

KENORA

Ministry of Natural Resources

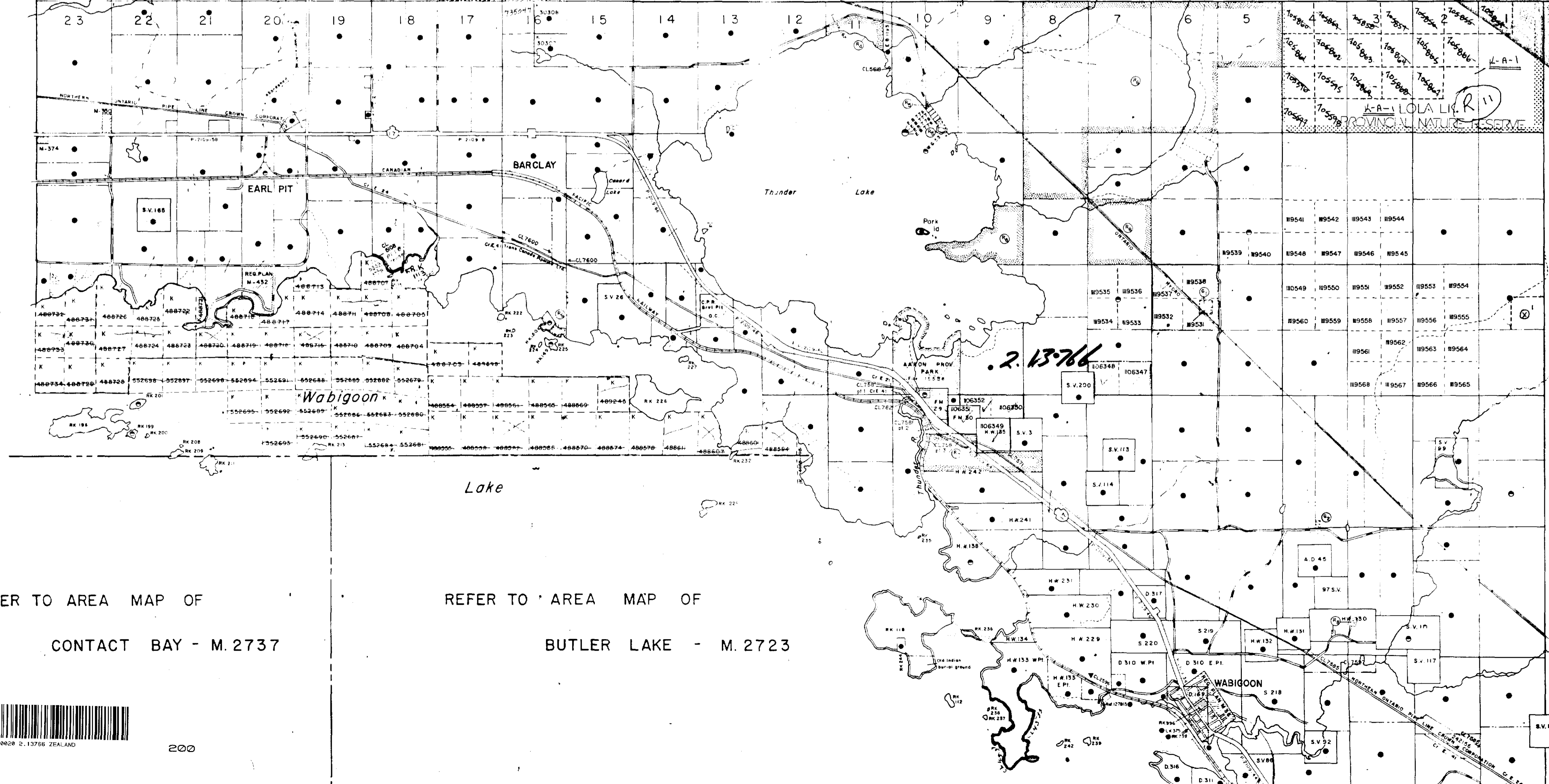
Ontario Surveys and Mapping Branch

Date JAN '75 Plan No. [REDACTED]

Whitney Block Queen's Park, Toronto

G-0844

BROWNRIDGE TP. M. 1954



REFER TO AREA MAP OF BUTLER LAKE - M. 2723

SEWARD

HARTMAN TP. M. 1986

II

RC