



42A12SE0002 2.15433 TURNBULL

010

GODFREY PROPERTY

GODFREY TOWNSHIP

PORCUPINE MINING DIVISION



42A12SE0002 2.15433 TURNBULL

010C

TABLE OF CO.

	Page
INTRODUCTION.....	1
LOCATION AND ACCESS.....	2
PERSONNEL.....	2
PROPERTY HISTORY.....	3
PROSPECTING.....	3
CONCLUSIONS AND RECOMMENDATIONS.....	4

LIST OF FIGURES

- Figure No. 1 - Location Map
- Figure No. 2 - Property Location Map
- Figure No. 3 - Claim Sketch
- Figure No. 4 - Prospecting Sketch

APPENDICES

- Appendix C - Sample Descriptions
- Appendix D - Assay Results
- Appendix I - R.J. Meikle Certificate
- Appendix J - S.D. Anderson Certificate

INTRODUCTION

The work conducted on the Godfrey Property consisted entirely of prospecting. The Townships and areas in which the prospecting was carried out included portions of open ground in Robb, Turnbull, and Godfrey townships. These townships are all contiguous and located within the District of Cochrane, Porcupine Mining Division, Ontario.

The purpose of this program was to outline any areas of geological interest which may indicate a favourable environment for base metal and or gold deposition.

This area was selected because of the favourable rock types as well as its location relative to the past producing Jamieson and KamKotia mines. An aggressive exploration program is currently being carried out by Falconbridge Ltd. on and around both former mines.

This project was carried out during the month of August, 1992.

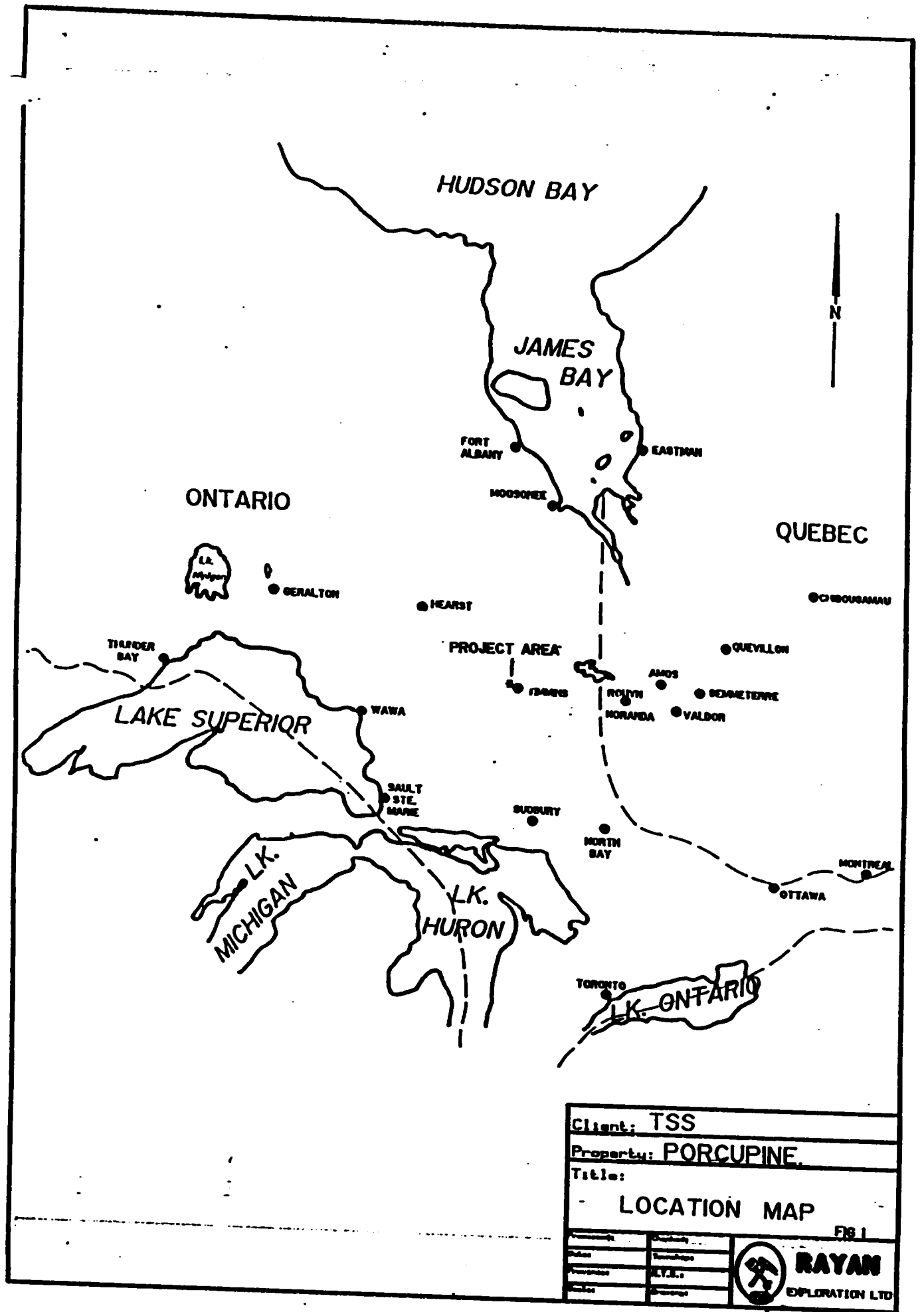
LOCATION AND ACCESS


The Godfrey Property included portions of Godfrey, Robb, and Turnbull Townships, all within the Porcupine Mining Division, District of Cochrane, Ontario. The area lies approximately 20 km west from the city of Timmins. The work conducted was concentrated in the North-West corner of Godfrey Township, the North-East corner of Turnbull Township and the South-East corner of Robb Township. (Fig 2,4)

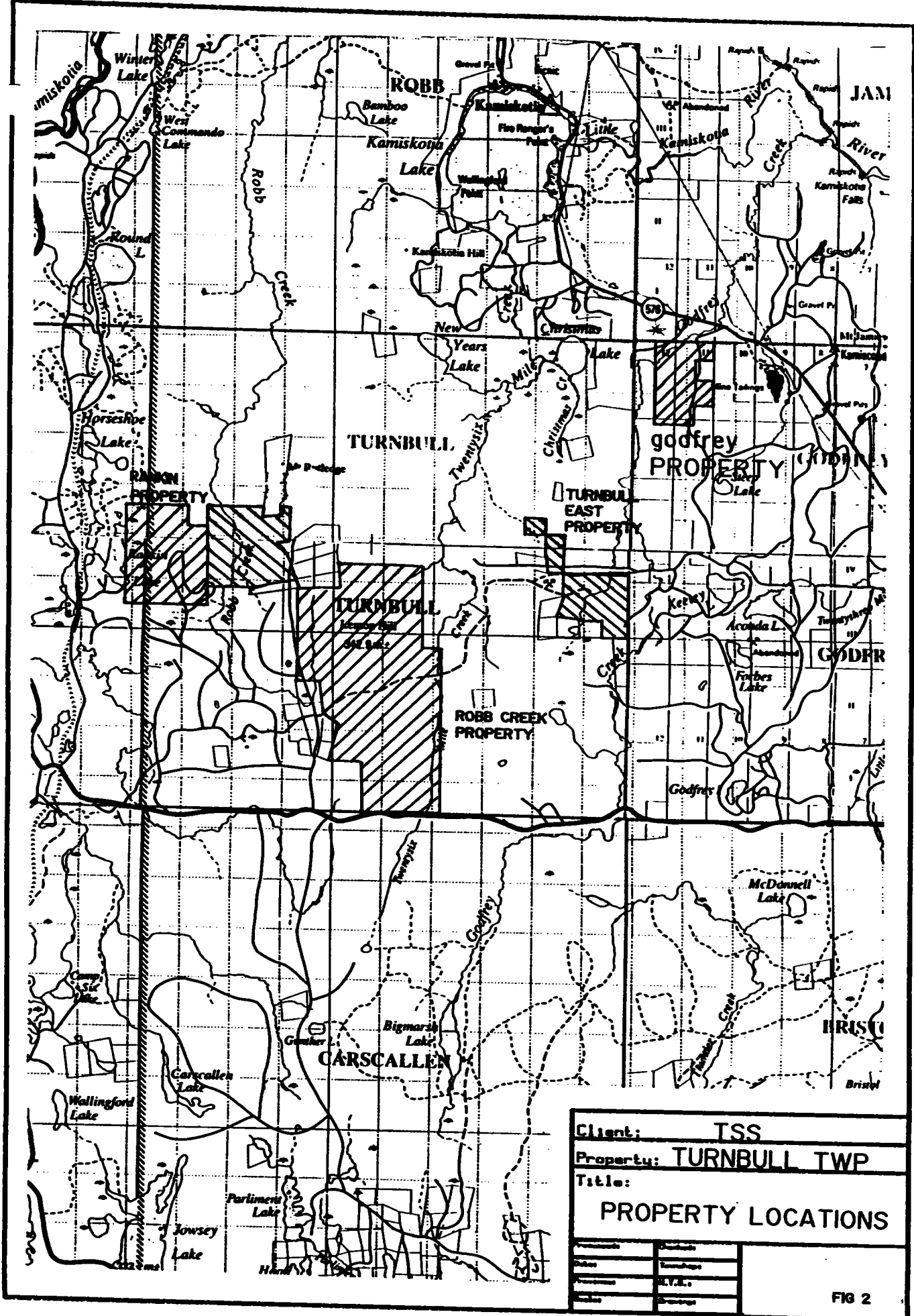
Access to this area during the survey period was west on Hwy.101 for approximately 8km west from Timmins to Hwy. 576. This Highway heads North-West to Kamisotia Lake. The areas prospected were accessed from various points along this highway between Kamiscotia Lake and the Kamiscotia Ski Hill.

PERSONNEL

The people directly involved with the Godfrey Property were Ray Meikle and Steve Anderson, both of Timmins, Ontario.

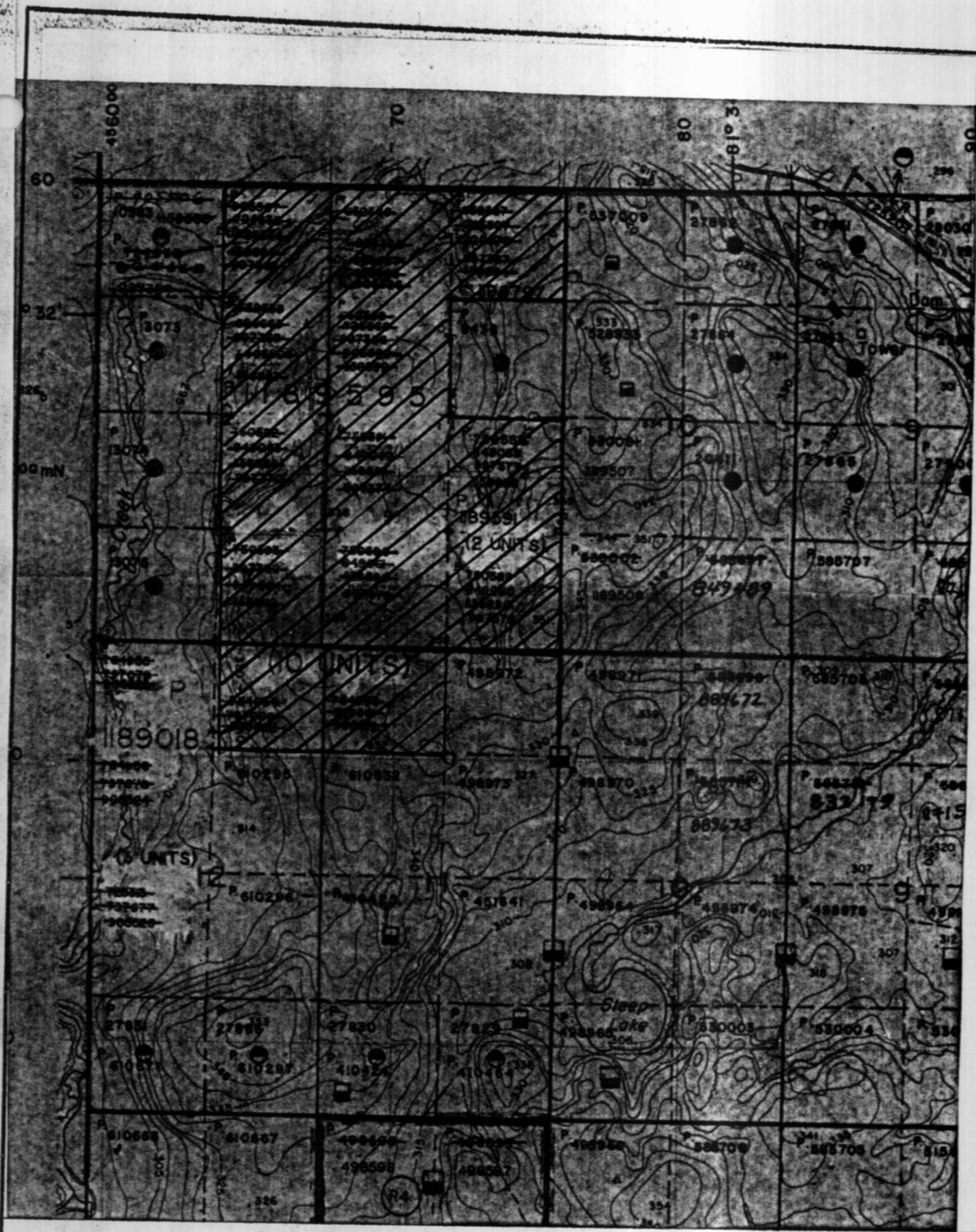


Client: TSS							
Property: PORCUPINE							
Title:							
LOCATION MAP							
FIG 1							
<table border="1"> <tr> <td>Prepared by</td> <td>Checked by</td> </tr> <tr> <td>Date</td> <td>Scale</td> </tr> <tr> <td>Drawn by</td> <td>Project</td> </tr> </table>	Prepared by	Checked by	Date	Scale	Drawn by	Project	 <p>RAYAN EXPLORATION LTD</p>
Prepared by	Checked by						
Date	Scale						
Drawn by	Project						



Client: TSS	
Property: TURNBULL TWP	
Title: PROPERTY LOCATIONS	

FIG 2



Client: TURNBULL STAKING SYNDICATE									
Property: GODFREY PROPERTY									
Title: CLAIM SKETCH									
<table border="1"> <tr> <td>Prepared:</td> <td>Checked:</td> </tr> <tr> <td>Date:</td> <td>Transcribed:</td> </tr> <tr> <td>Approved:</td> <td>N.T.B.:</td> </tr> <tr> <td>Scale:</td> <td>Drawings:</td> </tr> </table>	Prepared:	Checked:	Date:	Transcribed:	Approved:	N.T.B.:	Scale:	Drawings:	1:20000 FIG 3
Prepared:	Checked:								
Date:	Transcribed:								
Approved:	N.T.B.:								
Scale:	Drawings:								

PROPERTY HISTORY

The primary reason for prospecting open ground in this area was the favourable geology, as well as the presence of two past producing mines in the area. The Jamieson Mine is located approximately 1.5 km to the east of where the majority of the prospecting was carried out. As well, the old Kam Kotia Mine is situated approximately 6 km to the north. Both are past producing base metal mines. Currently, Falconbridge Ltd. is carrying out a major exploration program on both of these properties, with the majority of the program being focused on Deep-EM and follow up diamond drilling.

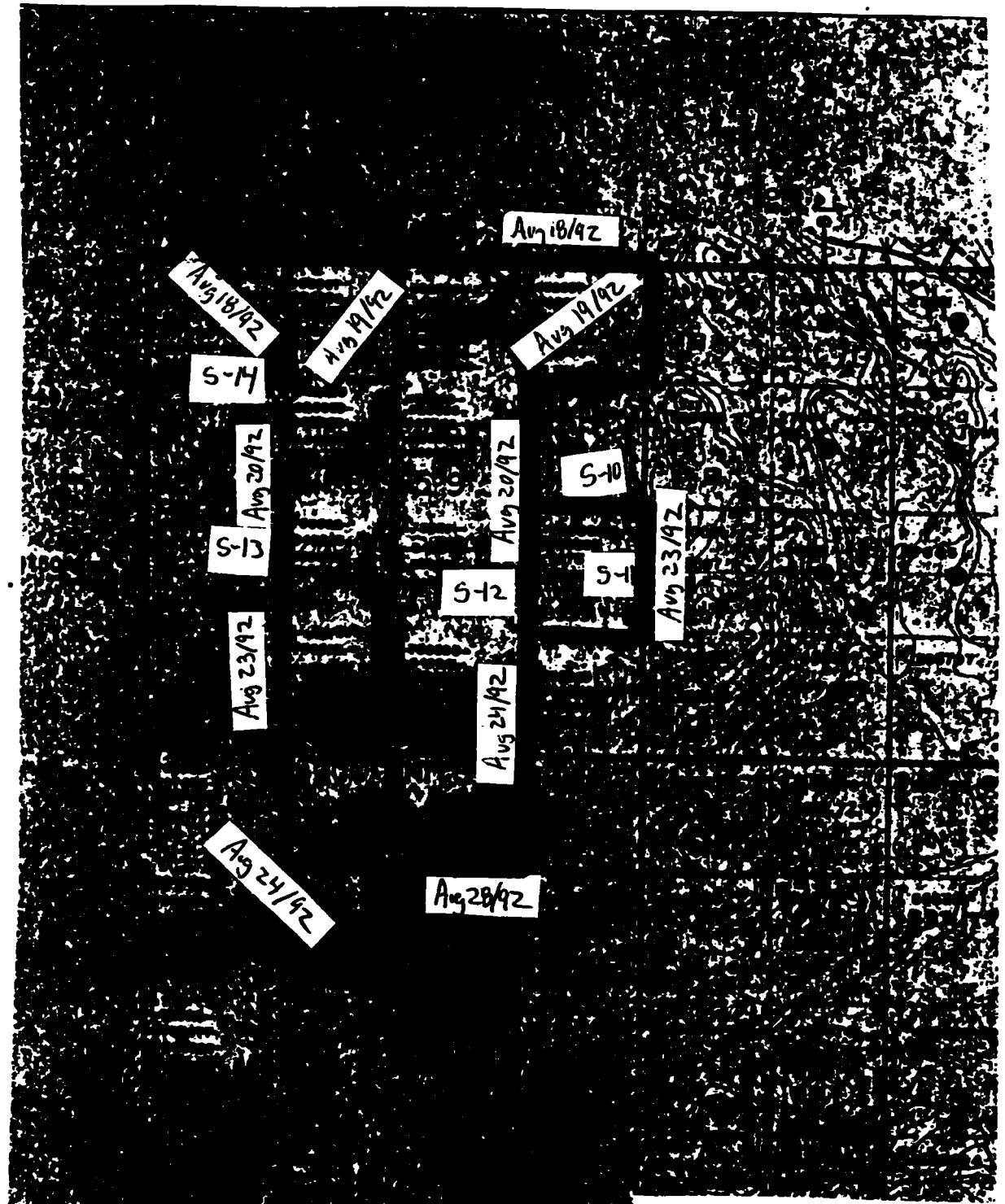
PROSPECTING

A total of 13 man days were spent prospecting by S.Anderson and R.Meikle. The prospecting in this area was conducted primarily along old claim lines allowing for a more accurate plotting of the traverses. A total of 7 samples were taken labelled S-7,S-8,S-10, S-11,S-12,S-13, and S-14. All samples were assayed for Au, Cu, and Zn. The description of the samples taken can be found in Appendix C in this report. Assay results are found in Appendix D in this report.

Sample locations as well as traverse locations can be found by referring to Fig. 4 of this report.

STEVE ANDERSON

RAY MEKLE



Client: TURNBULL STAKING SYNDICATE

Property: GODFREY PROPERTY

Title:
PROSPECTING SKETCH

Scale	1:20000
Date	
Drawn by	
Checked by	
Approved by	

1:20000

Fig 4

CONCLUSIONS AND RECOMMENDATIONS

Although no significant assay results were obtained from the samples collected, the prospecting did indicate that the area is underlain by a Quartz Porphyry which is host to several gold showings in Turnbull and Godfrey Townships. As a result of this prospecting program, 5 claims were staked in the area. In Godfrey Township the following 3 claims were staked - 1189595(10 units), 1181591(1 unit), and 1190797(1 unit). For an accurate location of these claims refer to the Godfrey Township claim map(G-3991).

The area prospected appears to consist primarily of a Quartz-Porphry with some Gabbro observed along the western boundary and Mafic Volcanics along the east boundary.

The remaining two claims were staked in Robb Township and include claim 1189570(1 unit), and 1189571(2 units). The area prospected in Robb Township appeared to be mainly Gabbro Intrusives.

A linecutting and geophysical program has since been conducted on the 3 claims in Godfrey Township by D. Laforest. Upon approval of the assesement credits, he will have earned an intrest in the property as a result of the work conducted.

APPENDIX A

**RAYAN EXPLORATION LTD.
ROBB CREEK PROJECT
TIME DOMAIN EM SURVEY
1992**

**North-East Ontario
Turnbull Township
NTS 42 A 5
Latitude 48 deg 28' N
Longitude 81 deg 40' W**

**Author of report:
H. Limion
Suite 711
25 Adelaide Street East
Toronto, Ontario
M5C 1Y8
January, 1993**

(i)

Summary

A large loop time domain electromagnetic survey was carried out on the Robb Creek Project to help define a conductor that had been assessed previously.

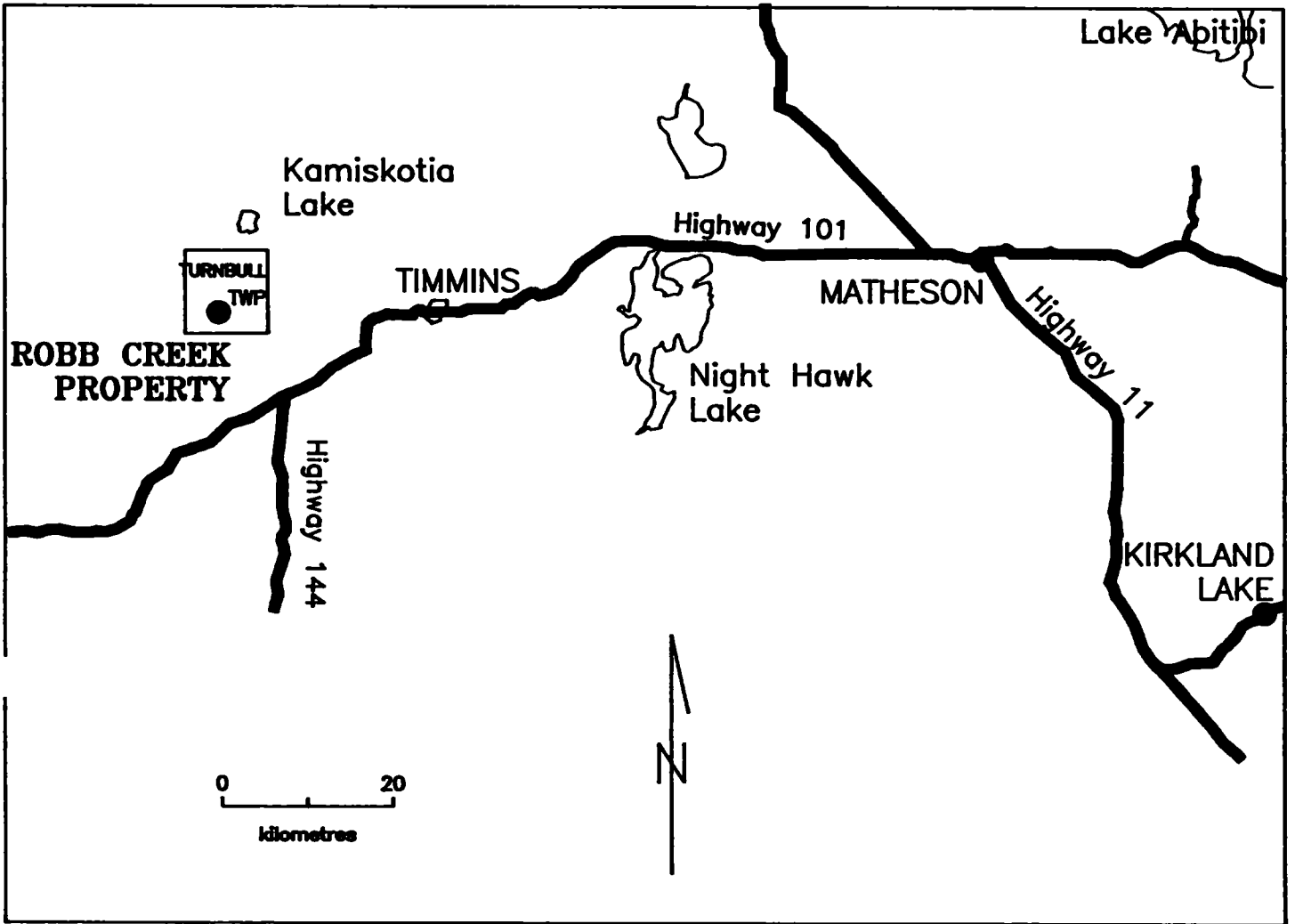
An interpretation of the field results allows for a simple model to explain the readings. The conductor is found to be a north striking westerly dipping body of high conductivity-width. It has a strike length of about 200 m, and is not depth limited.

(ii)

Table of Contents

Summary	i
Introduction	1
Claim and Location	1
Geology	1
Target	1
Geophysical Coverage	2
Survey Results	2
Conclusions and Recommendations	3
Figures:	
1. Location Map	iii
2. Claim	iv
Maps:	
Contour plots of Ch 14 field and model data	in pocket
Appendices:	
1. TDEM Profile Plots	
6 profiles -	
lines 200 N to 800 N	
2. TDEM data *	
field readings	
* included in assessment reports only	

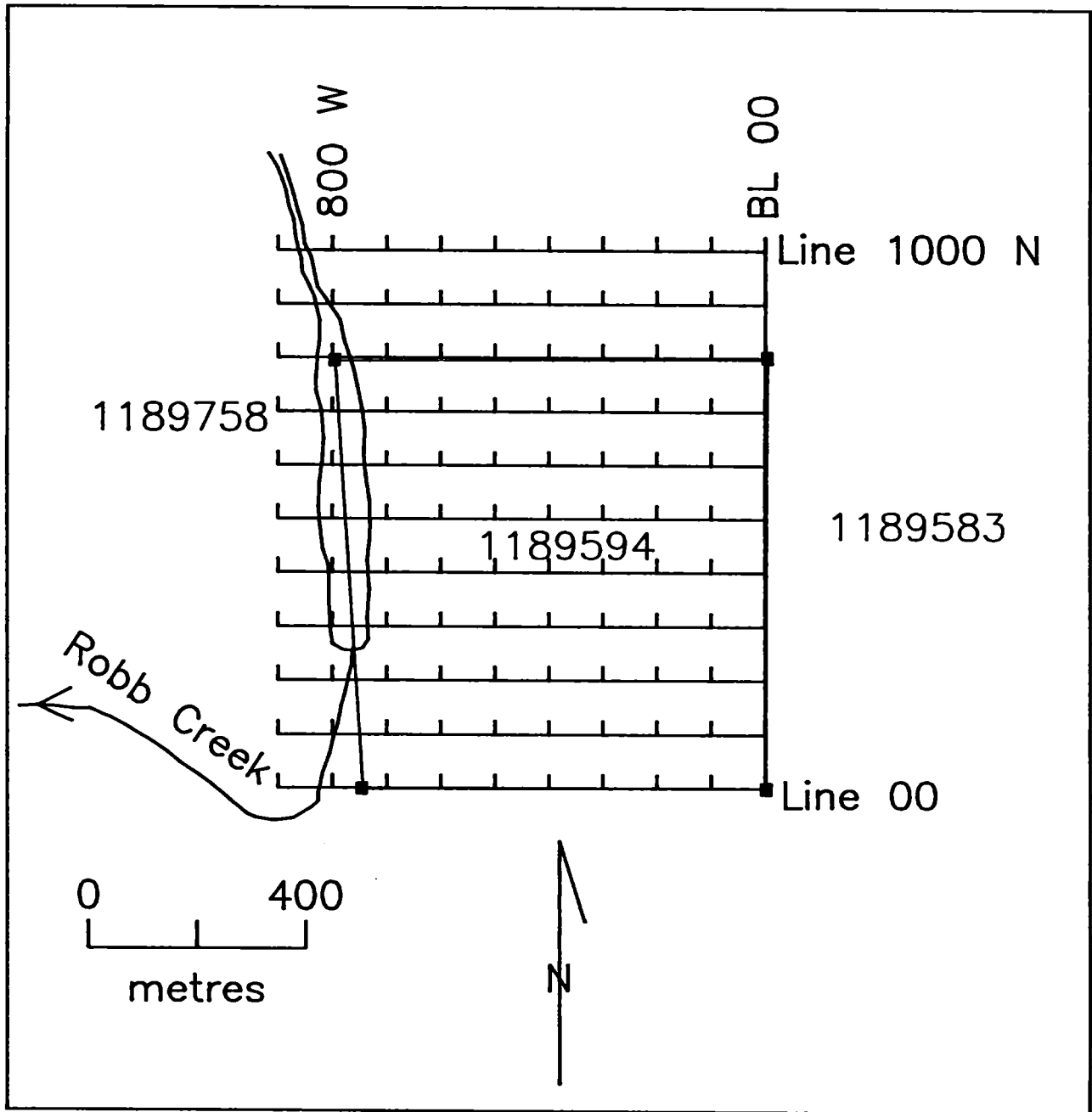
(iii)



**ROBB CREEK PROPERTY
NE ONTARIO
NTS 42 A 5**

Figure 1 Location Map

(iv)



Robb Creek Property
Claim and Grid Sketch
NTS 42 A 5
Turnbull Twp, Ontario

Figure 2 Claim

Introduction

The property consists of 1 claim (4 units) in Turnbull Township (Figure 1 and Figure 2).

Geophysical work on the claims has been carried out by Rayan Exploration Ltd. Rayan conducted a time domain survey in late 1992. Prior ground geophysics by Conwest consisted of a MaxMin survey. In 1977, Conwest drilled a hole at an azimuth of 020 degrees, and reported stringers of pyrrhotite in gabbros.

The work carried out by Rayan indicates that the major conductor on the property strikes almost parallel to the old grid lines and diamond drill holes. Thus, the previous work may not have been coupled to the conductor in the best manner, and it is conceivable that the conductor has not been tested. The area has been logged over, and it will be difficult to determine the position of previous work.

Claim and Location

The claim group consists of one claim (1189594) covering an area of 800 x 800 m.

Access to the area is west of Timmins by logging roads.

The property location is shown in Figure 1 and the claim and grid are shown on Figure 2.

Geology

The property is located in the Abitibi belt in north eastern Ontario. The area is underlain by metagabbros.

Target

The prime geophysical target is the strong conductor expected from massive sulphide mineralization. The target is expected to contain pyrrhotite and chalcopyrite, which will respond to electromagnetic methods when present in sufficient concentration, quantity and continuity.

Geophysical Coverage

One large transmitter loop was set up on lines 300 N and 900 N extending from 00 to 300 W. There were 104 stations read on the survey, covering 2,675 metres. The vertical (Z) component was read at all stations and the horizontal east (Y) component at 54 stations. The Y component data were too noisy to be usable, and the instrument has been taken to the manufacturer to review and correct the problem. Reading locations are plotted on the map. A Geonics transmitter and a Geonics Receiver were used. For convention, *the Y component is grid east, the Z component is down, and the current in the transmitting loop is considered to be flowing clock-wise, giving a downward direction to the primary field inside the loop.* The polarities of all readings have been adjusted to reflect this convention.

Profile plots from the Rayan surface survey are in Appendix 1. Field readings for assessment reports are printed in Appendix 2.

Survey Results

An interpretation was carried out on the field results to derive a model for the surface results.

The TDEM survey shows a strong response near 600 N / 700 W. The response indicates a north-south striking conductor. Field data were modelled to ascertain the limits of a conductor that might explain the readings. The outline of the best filament model fitting channel 14 (1.795 msec) field data is plotted on the map, as are the field values expected from such a model. This model is approximately 200 m in strike length, strikes grid north-south with a 179 degree strike, and dips west at 52 degrees. The depths to the four vertices of the model are shown on the contour map of actual and calculated data. There is a northerly rake to the top surface of the conductor. The best estimate for a time constant for the decay of the signal from the body is 1.2 msec (Z component at 600 N / 550 W), giving a conductivity width of 75 mhos to the conductor. The large interpreted depth extent of the model indicates that there is no reason to expect limited size in the downdip direction.

The Geosolutions' model used in this analysis is a current-carrying filament that best fits the surface readings. The filament dimensions are generally 0.7 x the dimensions of a plate model used in a similar interpretation.

The vertices of the model are:

<u>Vertex</u>	<u>Easting</u>	<u>Northing</u>	<u>Depth</u>
1	635 W	481 N	69
2	657 W	594 N	87
3	876 W	521 N	285
4	854 W	409 N	268

Conclusions and Recommendations

The conductor may represent an untested target, and should be drilled.



Heikki Limion

Appendix 1

TDEM Profile Plots

6 profiles

2 components for 2 lines

1 component for 2 lines

Lines 200 N to 800 N

S - Scale in RX units/cm

B - Baseline value

RAYAN EXPLORATION LTD

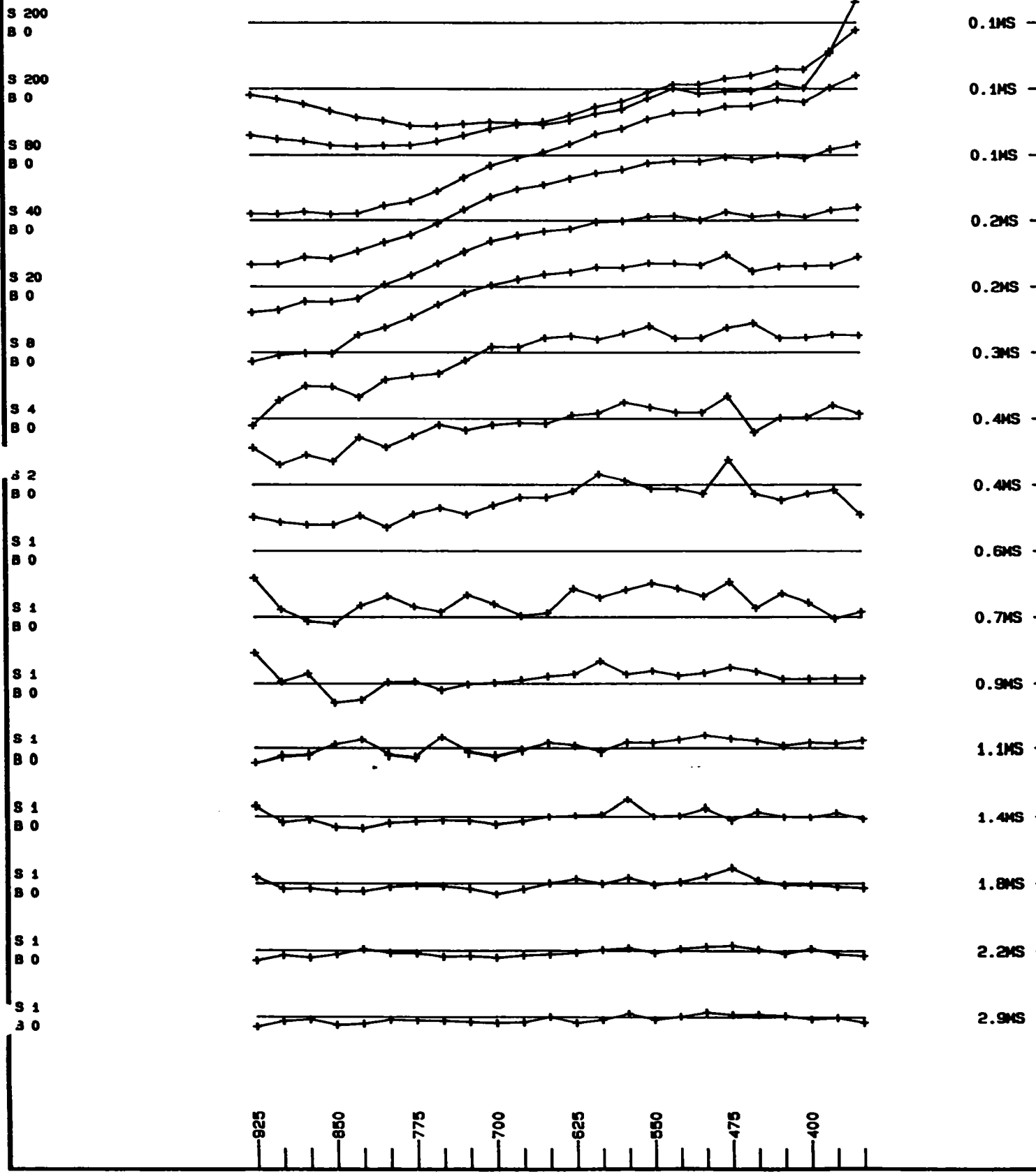
TDEM PROFILE PLOTS

AREA - TURNBULL TWP. ONT TX LOOP: LOOP 1
PROJECT - ROBB CREEK LINE NO: 200



SURVEY DEC 92
PLOT 8-JAN-93

Z



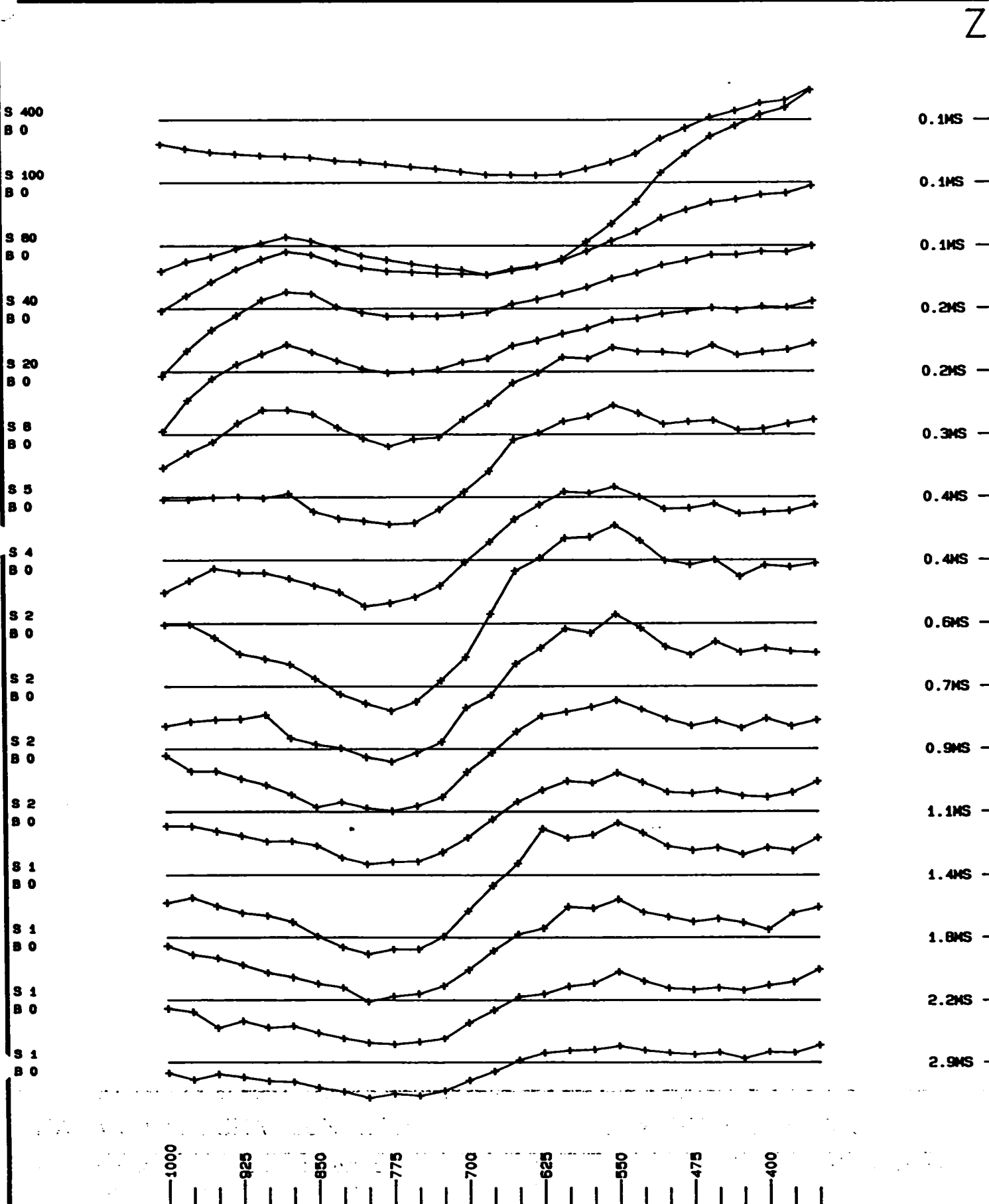
RAYAN EXPLORATION LTD

TDEM PROFILE PLOTS

AREA : TURNBULL TWP. ONT TX LOOP: LOOP 1
PROJE. ROBB CREEK LINE NO: 400



SURVEY DEC 92
PLOT 8-JAN-93



RAYAN EXPLORATION LTD

TDEM PROFILE PLOTS

AREA - TURNBULL TWP. ONT TX LOOP: LOOP 1

PROJECT: ROBB CREEK

LINE NO: 600

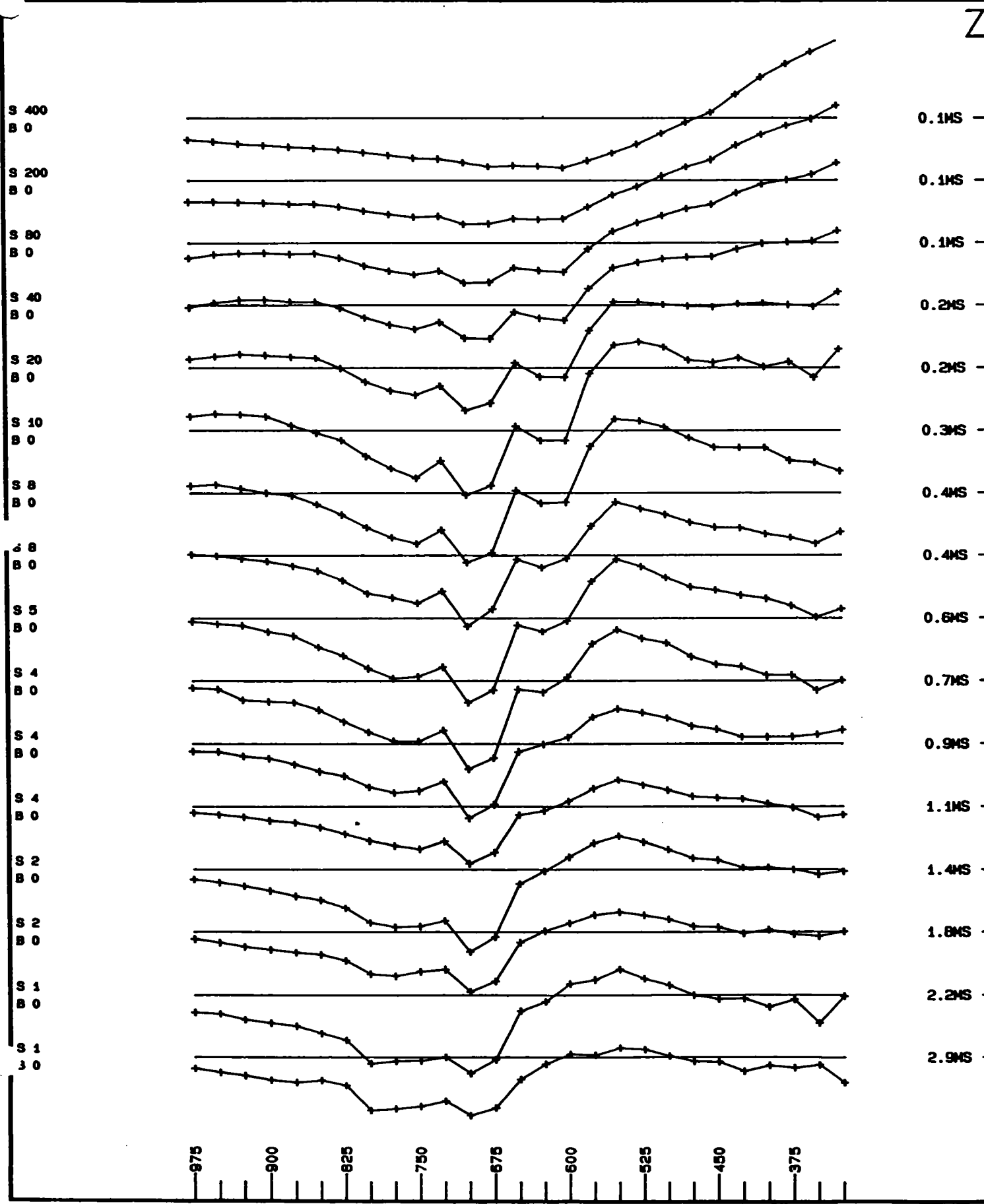
0 100 200 300



1 CM = 50 METRES

SURVEY DEC 92

PLOT 8-JAN-93



RAYAN EXPLORATION LTD

TDEM PROFILE PLOTS

AREA : TURNBULL TWP. ONT TX LOOP: LOOP 1

PROJ. : ROBB CREEK

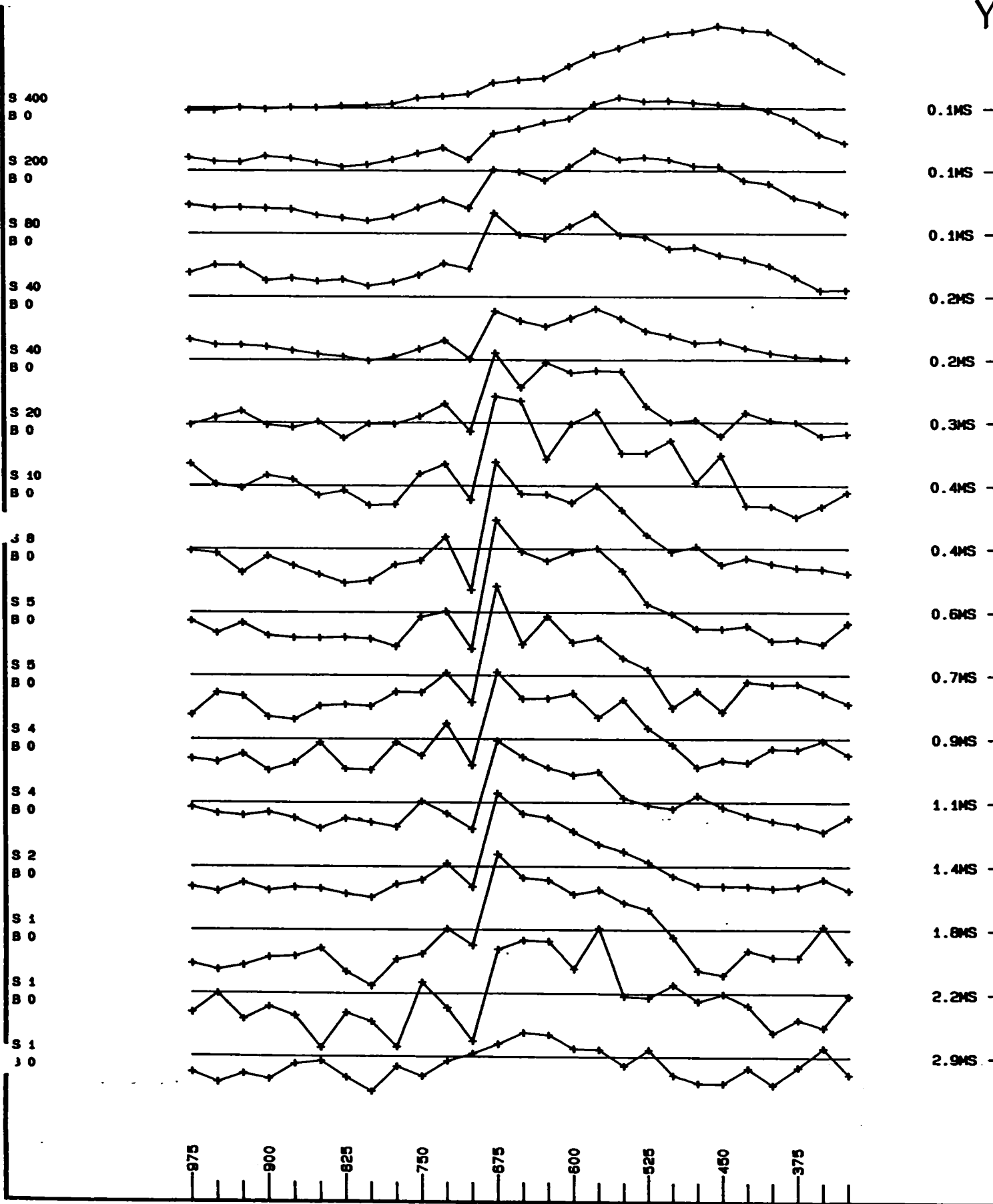
LINE NO: 600



SURVEY DEC 92

PLOT 8-JAN-93

Y



RAYAN EXPLORATION LTD

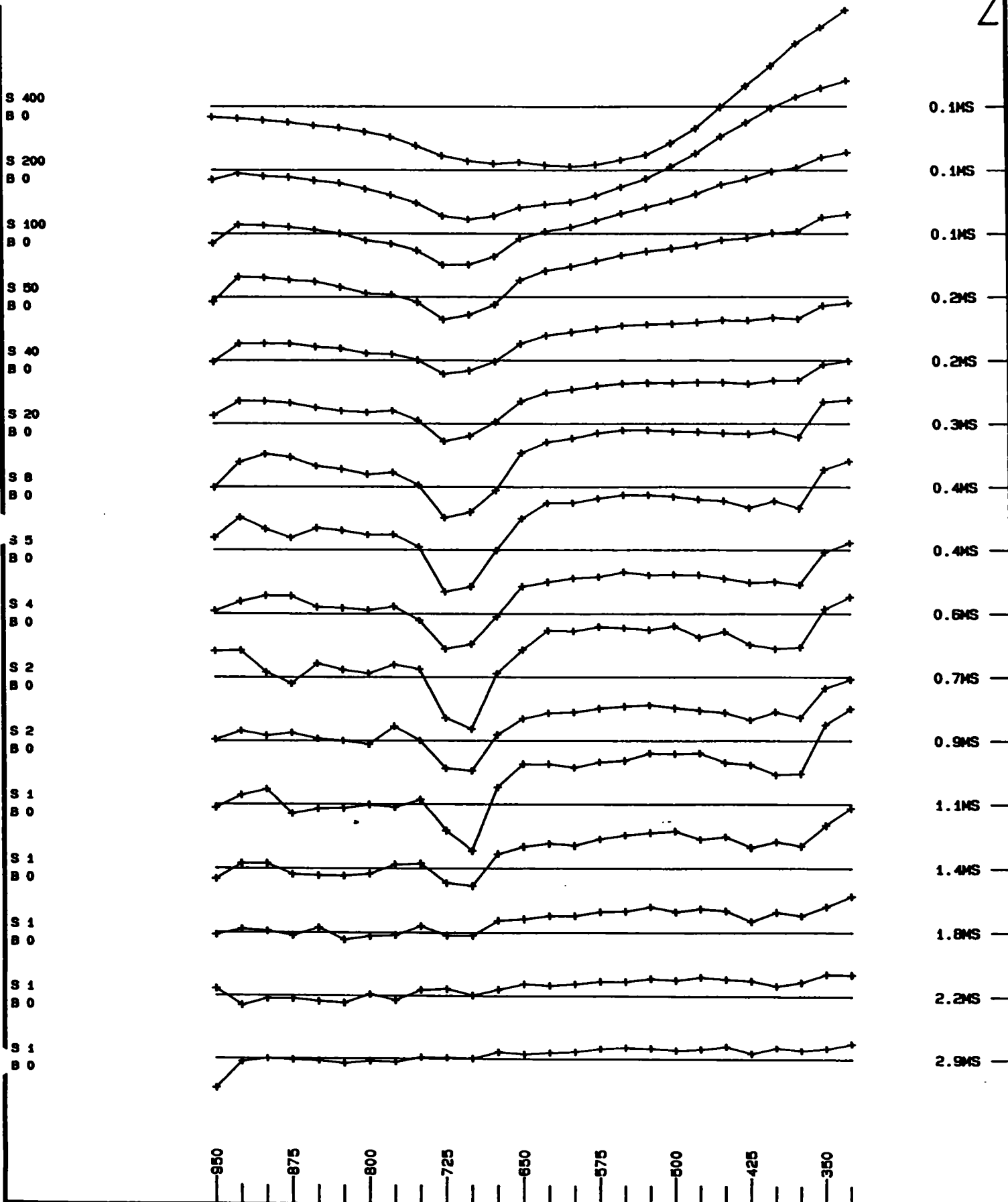
TDEM PROFILE PLOTS

AREA : TURNBULL TWP. ONT TX LOOP: LOOP 1
PROJ : ROBB CREEK LINE NO: 800



SURVEY DEC 92

PLOT 8-JAN-93



RAYAN EXPLORATION LTD

TDEM PROFILE PLOTS

AREA: TURNBULL TWP. ONT TX LOOP: LOOP 1

PROJ.: ROBB CREEK

LINE NO: 800

0 100 200 300

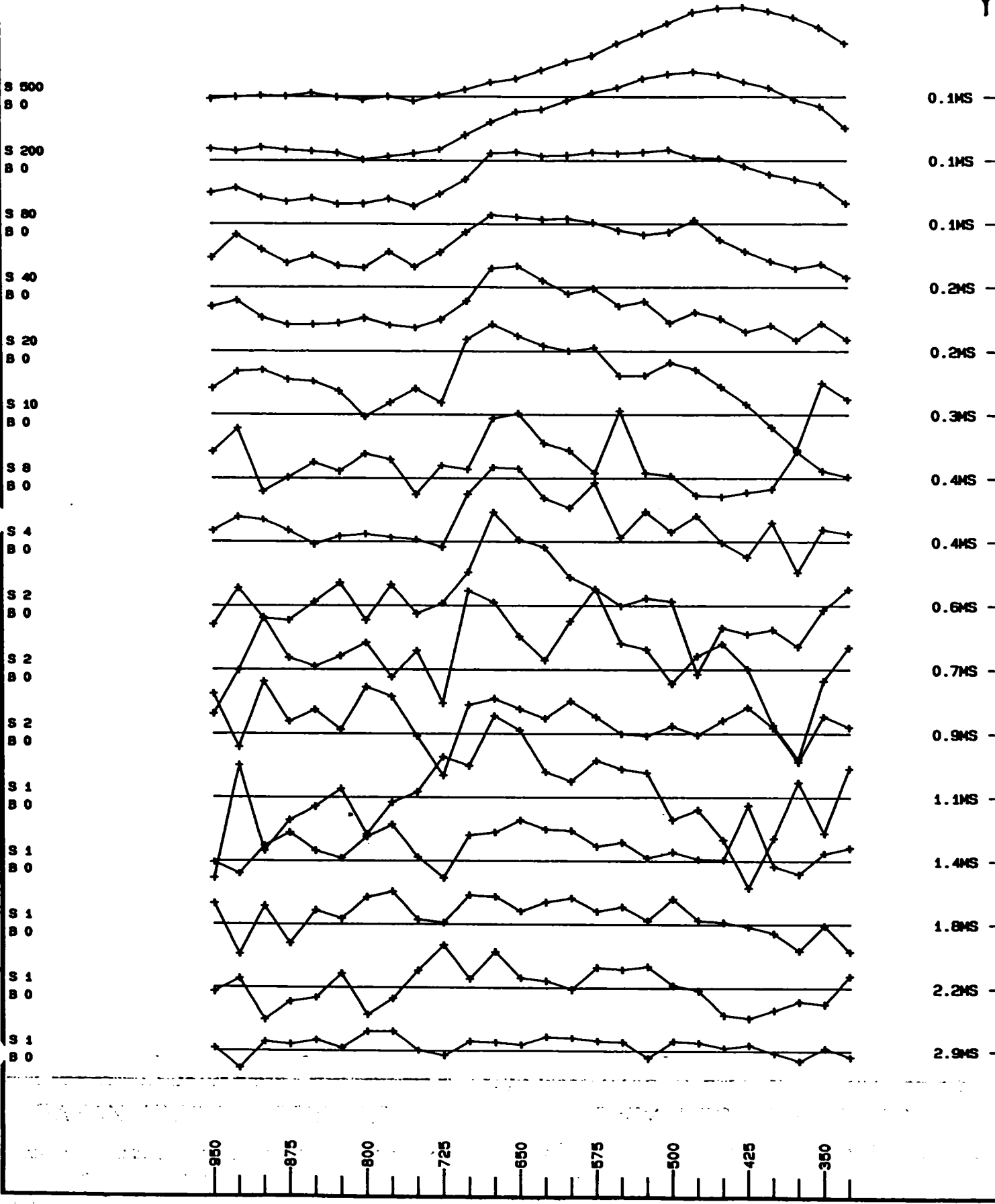


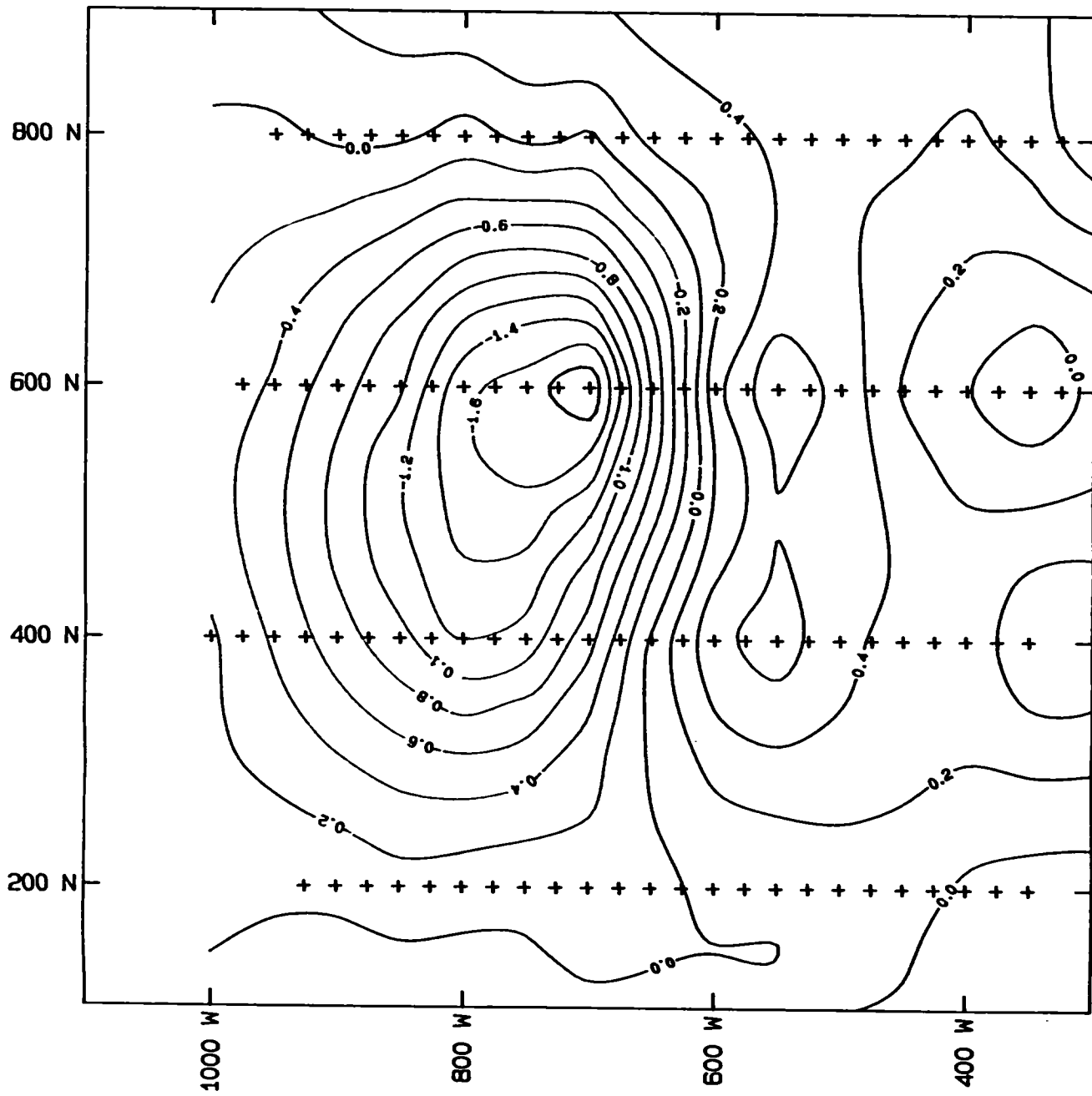
1 CM = 50 METRES

SURVEY DEC 92

PLOT 8-JAN-93

Y





SURVEY AND PROCESSING

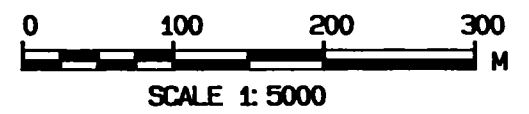
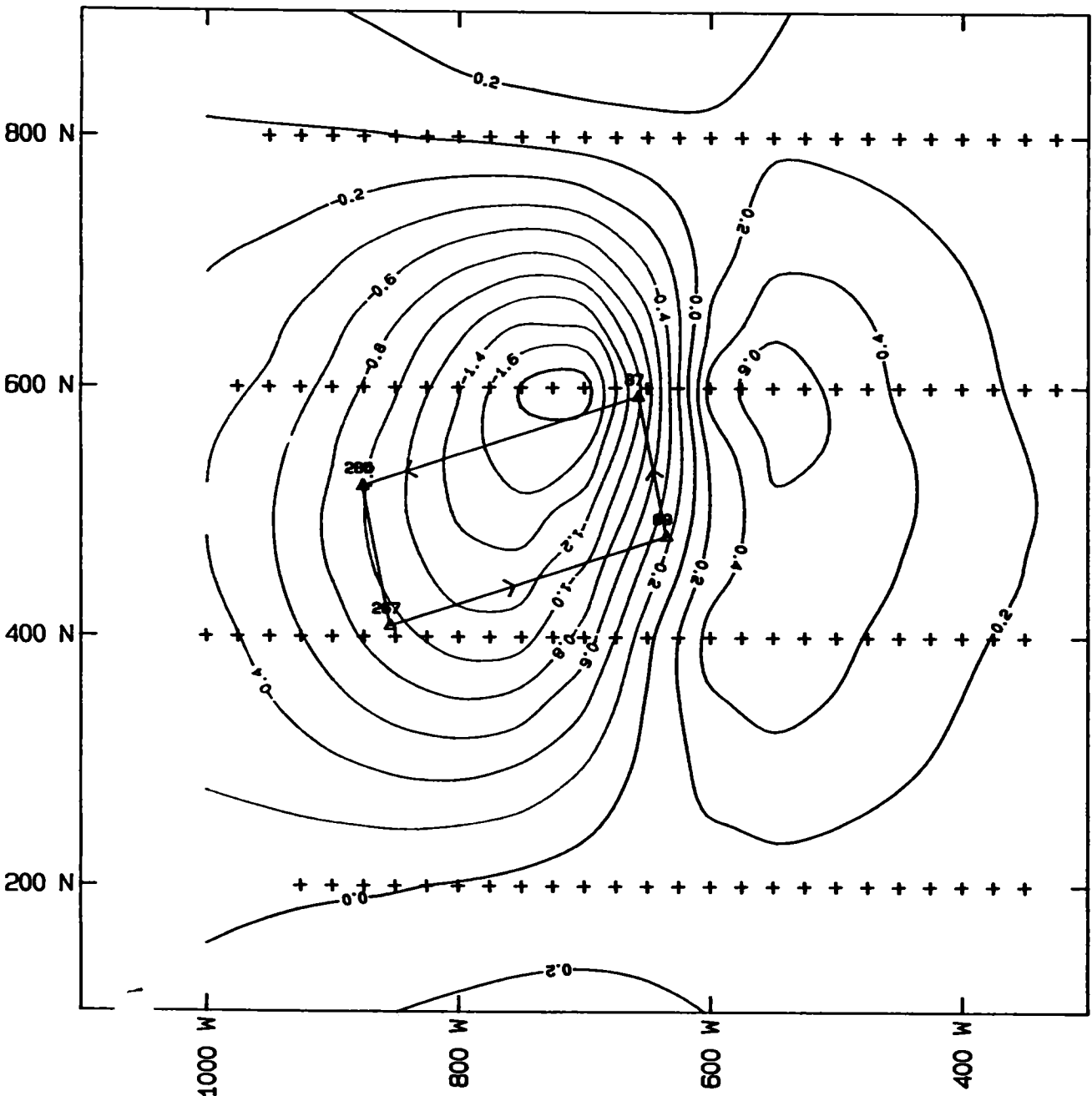
Survey : Rayan Exploration
 Date : December 1992
 Receiver : Geonics
 Transmitter : Geonics
 Mode : Large Loop
 Loop : 300 N - 900 N
 300 W - 00
 Model : best fit to Ch 14
 depth to vertices
 plotted

Contour values

Black : -2.4 to -1.8 every 0.2 mvolts
 Blue : -1.6 to -1.0 every 0.2 mvolts
 Green : -0.8 to -0.2 every 0.2 mvolts
 Red : 0.0 to 0.8 every 0.2 mvolts

MAP INDEX

Channel 14 (1.80 ms) Z component (down) field data (+)
Channel 14 (1.80 ms) Z component (down) model data (+)



RAYAN EXPLORATION LTD.

TURNBULL TWP., N E ONTARIO

TDEM SURVEY, ROBB CREEK PROJECT

CONTOUR PLOTS OF CH 14 (1.80 MS)
FIELD AND MODEL DATA

NTS 42 A 11

Toronto

January 1993

APPENDIX B

PROPERTY VISIT
of the
TURNBULL AND MASSEY TOWNSHIP PROPERTY
OF
RAY MEIKLE & STEVE ANDERSON

BY
ROBERT DUESS
November 24, 1992

A known sulphide occurrence that is situated on the Turnbull - Massey Township Line, at about the 3 mile post, was visited by the writer on October 20, 1992. This sulphide occurrence was investigated at the request of Ray Meikle and Steve Anderson, both of Timmins, Ontario.

The mineral occurrence is situated on a gentle north facing slope, and is poorly exposed by an old trench (3 to 6 feet wide and 15 to 20 feet long) which has become partially filled and overgrown.

The best sulphide mineralization occurs in light to medium grey quartz vein material, where up to 20% sulphides (mostly stringer and coarsely disseminated pyrrhotite, some chalcopyrite and trace sphalerite) was observed. The assumed approximate strike of the mineralized vein is east - west. It's exact attitude could not be accurately determined as no vein material could be found in place. Some of the larger pieces of quartz found were in excess of 1.5' in diameter. The south wall of the trench (foot wall) consists of weakly mineralized chlorite schist, locally deformed (gently folded), dipping at 65 to 85 degrees to the north. The north side of the pit consists of medium grained, weakly mineralized massive diorite, with occasional blue quartz eyes.

A narrow 2-3' wide stripped area which extends north from the main trench exposes massive, weakly mineralized diorite for a length of about 30 feet.

A total of 7 rock samples were collected and sent to Swastika Laboratories for analysis. A sample of mineralized quartz vein material returned the best results of 1590 and 776 ppm Cu.

Also at the request of R. Meikle and S. Anderson, the writer conducted a traverse in the northwestern portion of Turnbull Township. The traverse was conducted in an attempt to locate old pits and trenches that expose variable Cu mineralization (as documented in reports of previous work). These old pits and/or trenches could not be located. The use of a global positioning system (GPS) is recommended in any further attempts to locate these showings as there are very few topographic features.

No significant results were obtained from two samples that were collected from a white quartz vein (up to 10 feet wide). The vein is located approximately 300 feet southeast of post 2 of claim 1189016.

Full sample descriptions and complete assay results are enclosed.

<u>SAMPLE No</u>	<u>DESCRIPTION</u>
18951	Medium grained, massive diorite. 1% light blue quartz eyes. 2-3% disseminated pyrrhotite. <u>Location:</u> North side of trench, east half.
18952	Light grey quartz vein material. 10% pyrrhotite, 5% stringer chalcopryrite. Sphalerite ?. <u>Location:</u> Lose muck located in centre of trench, east half.
18953	Chlorite schist, rock possibly sheared andesite or sheared diorite. Mineralized with 2-3% disseminated pyrite, pyrrhotite, trace chalcopryrite. Footwall. <u>Location:</u> South wall of trench, east half.
18954	Quartz vein material. 5% stringer pyrrhotite, 2-3% chalcopryrite. <u>Location:</u> Lose muck - in place? In centre of trench, west half.
18955	Rusty chlorite schist. 2-3% disseminated pyrrhotite. <u>Location:</u> South wall, west half.
18956	Medium grained diorite, Massive. Locally rusty. 1% disseminated pyrrhotite. <u>Location:</u> 20 feet north of main trench.

SAMPLE No

DESCRIPTION

18957

Medium grained diorite. Occasional blue quartz eyes. 1% disseminated sulphides. Muck sample.

Location: 22 feet north of main trench.

18958

White quartz vein. Trace pyrite.

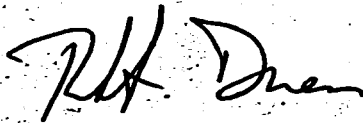
Location: 300' SE of P2 of 1189016

18959

White quartz vein. Trace pyrite.

Location: 300' SE of P2 of 1189016

Respectfully submitted,



**Robert L. Duess B.Sc
Consulting Geologist**

24 November 1992
Kingston, Ontario



Established 1928

Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Geochemical Analysis Certificate

2W-1114-RG1

Company: **R. DUESS GEOLOGICAL SERVICES**

Date: OCT-23-92

Project: **TURNBULL**

Copy 1. KINGSTON

Attn:

We hereby certify the following Geochemical Analysis of 9 ROCK samples submitted OCT-23-92 by .

Sample Number	Au PPB	Ag PPM	Co PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM
18951	34/34	0.5	21	119	45	671	260
18952	22	0.9	298	776	147	552	42
18953	10	0.1	41	46	70	15	95
18954	7	0.8	149	1590	87	7	61
18955	5/3	0.1	34	92	41	15	134
18956	3	0.6	26	422	46	25	292
18957	12	0.2	19	48	53	19	155
18958	2						
18959	Nil						

Au was determined using 1 AT fusions

Certified by Donna Gardner

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300

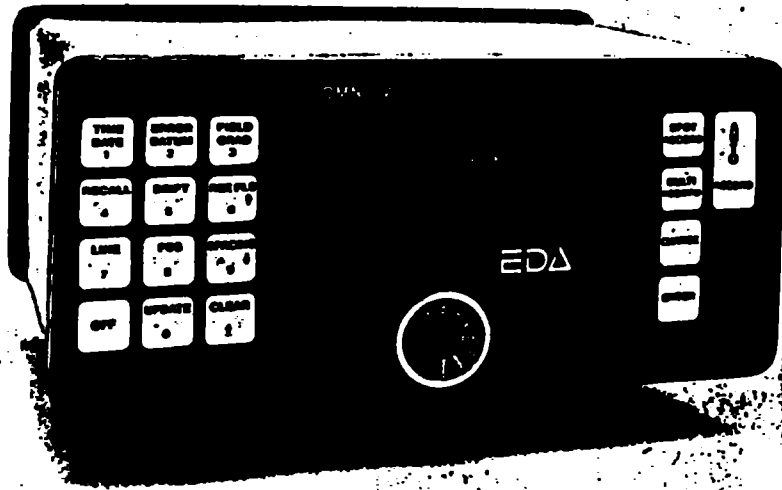
APPENDIX C

ROCK SAMPLE DESCRIPTIONS

<u>SAMPLE NO.</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
S-1	Quartz diorite	S 1/2 of East claim line of claim #1189588
S-2	Diorite	N1/2 of east claim line of claim #1189588
S-3	Porphyry(chloritic)	Trench on Rankin Lake prop.
S-4	Float- felsic to int. frag. porphyry	L96N/3150E claim #1189017
S-5	quartz vein in rhy.	N1/2 of east claim line of claim #1189579
S-6	quartz vein	"
S-7	mafic metavolcanic	75m west of P#2-1189570 Robb Twp.
S-8	Gabbro/amphibolite	50m south of P#1-1189571
S-9	mafic volc. altered to chlorite	P#2-1189017
S-10	felsic volcanic	center of north claim line of claim #1189591
S-11	quartz porphyry	center of east claim line of claim #1189591
S-12	quartz porphyry	center of west claim line of claim #1189591
S-13	quartz-diorite	900m south of P#4 of claim #1189595
S-14	gabbro	350m south of P#4 of claim #1189595

APPENDIX D

APPENDIX E



OMNI IV's Major Benefits

- Four Magnetometers in One
- Self Correcting for Diurnal Variations
- Reduced Instrumentation Requirements
- 25% Weight Reduction
- User Friendly Keypad Operation
- Universal Computer Interface
- Comprehensive Software Packages

Specifications

Dynamic Range	18,000 to 110,000 gammas. Roll over display feature suppresses first significant digit upon exceeding 100,000 gammas.
Tuning Method	Tuning value is calculated accurately utilizing a specially developed tuning algorithm
Automatic Fine Tuning	$\pm 15\%$ relative to ambient field strength of last stored value
Display Resolution	0.1 gamma
Processing Sensitivity	± 0.02 gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	± 1 gamma at 50,000 gammas at 23°C ± 2 gamma over total temperature range
Standard Memory Capacity	
Total Field or Gradient	1,200 data blocks or sets of readings
Tie-Line Points	100 data blocks or sets of readings
Base Station	5,000 data blocks or sets of readings
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS 232 Serial I/O Interface	2400 baud, 8 data bits, 2 stop bits, no parity
Gradient Tolerance	6,000 gammas per meter (field proven)
Test Mode	A. Diagnostic testing (data and programmable memory) B. Self Test (hardware)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector
Cycling Time (Base Station Model)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	-40°C to +55°C; 0-100% relative humidity; weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; rechargeable NiCad or Disposable battery cartridge or belt; or 12V DC power source option for base station operation.
Battery Cartridge/Belt Life	2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings
Weights and Dimensions	
Instrument Console Only	2.8 kg, 238 x 150 x 250mm
NiCad or Alkaline Battery Cartridge	1.2 kg, 235 x 105 x 90mm
NiCad or Alkaline Battery Belt	1.2 kg, 540 x 100 x 40mm
Lead-Acid Battery Cartridge	4.8 kg, 235 x 105 x 90mm
Lead-Acid Battery Belt	4.8 kg, 540 x 100 x 40mm
Sensor	1.2 kg, 56mm diameter x 200mm
Gradient Sensor (0.5m separation-standard)	2.1 kg, 56mm diameter x 790mm
Gradient Sensor (1.0m separation-optional)	2.2 kg, 56mm diameter x 1300mm
Standard System Complement	Instrument console; sensor; 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly, operations manual.
Base Station Option	Standard system plus 30 meter cable
Gradiometer Option	Standard system plus 0.5 meter sensor

EDA Instruments Inc
4 Thornhill Park Drive
Toronto, Ontario
Canada M3H 1H1
Tel: (416) 227-7272 EDA Int'l
Call: Instruments Toronto
(416) 475-7800

In U.S.A.
EDA Instruments Inc
5171 Ward Road
Wheat Ridge, Colorado
U.S.A. 80035
1303-422-9112

Printed in Canada

APPENDIX F

Product Information

IP-2 TWO DIPOLE TIME DOMAIN IP RECEIVER



MAJOR BENEFITS

- ★ TWO DIPOLES SIMULTANEOUSLY MEASURED
- ★ SOLID STATE MEMORY
- ★ AUTOMATIC PRIMARY VOLTAGE (V_p) RANGING
- ★ AUTOMATICALLY CALCULATES APPARENT RESISTIVITY
- ★ COMPUTER COMPATIBLE

EDA Instruments Inc., Head Office: 4 Thorncliffe Park Drive, Toronto, Canada M4H 1H1
Telephone: (416) 423-7900, Telex: 06 23222 EDA TOR, Cable: INSTRUMENTS TORONTO

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

Specifications

Dipoles	Two simultaneous input dipoles.
Input Voltage (Vp) Range	40 microvolts to 4 volts, with automatic ranging and overvoltage protection.
Vp Resolution	10 microvolts.
Vp Accuracy	0.3% typical; maximum 1% over temperature range.
Chargeability Resolution	1 %.
Chargeability Accuracy	0.3% typical; maximum 1% over temperature range for Vp > 10 mV.
Automatic SP Compensation	± 1 V with linear drift correction up to 1 mV/s.
Input Impedance	1 Megohm.
Sample Rate	10 milliseconds.
Automatic Stacking	3 to 99 cycles.
Synchronization	Minimum primary voltage level of 40 microvolts.
Rejection Filters	50 and 60 Hz power line rejection greater than 100 dB.
Grounding Resistance Check	100 ohm to 128 kilo-ohm.
Compatible Transmitters	Any time domain waveform transmitter with a pulse duration of 1 or 2 seconds and a crystal timing stability of 100 ppm.
Programmable Parameters	Geometric parameters, time parameter, intensity of current, type of array and station number.
Display	Two line, 32-character alphanumeric liquid crystal display protected by an internal heater for low temperature conditions.
Memory Capacity	600 sets of readings.
RS-232C Serial I/O Interface	1200 baud, 8 data bits, 1 stop bit, no parity.
Console Power Supply	Six 1.5V "D" cell disposable batteries with a maximum supply current of 70 mA and auto power save.
Operating Environmental Range	-25°C to +55°C; 0-100% relative humidity; weatherproof.
Storage Temperature Range	-40°C to +60°C.
Weight and Dimensions	5.5 kg, 310x230x210 mm.
Standard System Complement	Instrument console with carrying strap, batteries and operations manual.
Available Options	Stainless steel transmitting electrodes, copper sulphate receiving electrodes, alligator clips, bridge leads, wire spools, interface cables, rechargeable batteries, charger and software programs.

EDA Instruments Inc.
 4 Thorncliffe Park Drive,
 Toronto, Ontario
 Canada M4H 1H1
 Telex: 06 25222 EDA TOR
 Cable: Instruments Toronto
 416 425 7800

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

APPENDIX G

INDUCED POLARIZATION AND D.C. RESISTIVITY TRANSMITTER

2.0 SPECIFICATIONS

Maximum Output Power

200W defined as when current is on and into a resistive load.

Output Voltage

Switch selectable at nominal settings of 15, 150, 210, 300, 425, 600 or 850 V.

Output Current

1.5 A maximum.

Meter Ranges

Switch selectable at 50 mA, 150 mA, 500 mA, 1500 mA full scale with accuracy of $\pm 3\%$ of full scale.

Automatic Cycle Timing

T:T:T:T; on:off:on:off.

Automatic Polarity Change

Each 2T.

Pulse Durations

T is switch selectable at 1, 2, 4, 8, 16 or 32 seconds.

Period Time Stability and Accuracy

Crystal controlled to better than 0.002 percent of the selected pulse duration.

Open Loop Protection

High voltage is automatically turned off if the output power is less than 2 W. This can be overridden manually for testing purposes. This protection is not effective at the 15 V output.

Synchronization Output

Optically isolated, suitable for external synchronization of the IPR-11 multichannel IP Receiver.

Internal Power Sources

Two battery packs are standard, each containing 4 GC 660-1 lead-acid gel-type batteries giving 24 V at 12 Ah.

One Penlite battery, Eveready E91 or equivalent.

External Power Sources

24 V DC supply at maximum 10A.

Power for Battery Charger

115 or 230 VAC, 50 to 400 Hz,
100 W.

Dimensions and Weights

Transmitters with two battery
packs:

140 x 300 x 460 mm; 16.0 kg

Single battery pack:

140 x 300 x 150 mm; 6.2 kg

Charger:

140 x 300 x 150 mm; 5.5 kg

-30°C to +55°C.

Operating Temperature Range

Standard Equipment

Console, 2 battery packs,
battery charger, carrying
harness. Two giant banana
plugs, minor spare parts kit.

Optional Equipment

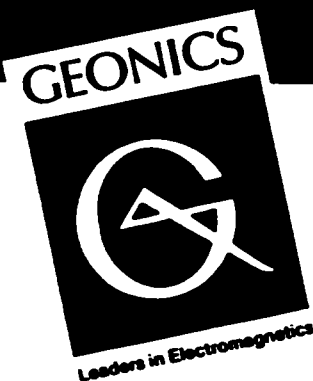
Reels, wire, porous pots,
electrodes, major spare parts
kit, radio transceivers, back
pack.

Shipping Weight

46 kg includes reusable wooden
shipping case.

APPENDIX H

GEONICS
PRESENTS



PROTEM

The most flexible and cost-effective
Time-Domain Electromagnetic System
ever introduced to the geophysical community

PROTEM

The Professional Time-Domain EM system, consists of a new three-channel, megaHz bandwidth, digitally controlled, lightweight PROTEM receiver used with any combination of the following TDEM transmitters:

- the new intermediate power TEM57
- the high-powered and widely used TEM37
- the new, ultra fast, lightweight TEM47

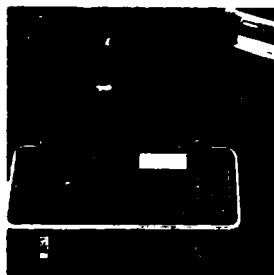
Now one electromagnetic system can be used to explore or map:

- deep mineral deposits (1000 m)
- shallow geothermal sources (1000 m)
- groundwater aquifers
- gravel, clay deposits
- groundwater contamination and saline intrusion
- depth to bedrock, overburden thickness
- and many other applications.

What makes the PROTEM system so flexible?

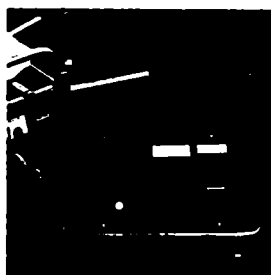
The new PROTEM receiver can be used with three different transmitters, as well as with a borehole receiver probe, in a variety of fixed and moving transmitter loop configurations.

TEM57



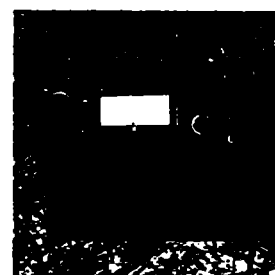
The new TEM57 intermediate power transmitter, when operated in the fixed transmitter mode, drives loops to 300 x 600 m for mineral exploration or 500 x 500 m for resistivity sounding, both to depths of many hundreds of meters. In the moving transmitter/moving receiver (horizontal loop) mode, a multiturn 5 x 5 m transmitter loop is employed. In this configuration the PROTEM transmitter/receiver separation can be as small as 20 m providing unprecedented spatial resolution to yield more precise target location. In this mode, measurement accuracy is insensitive to intercoil spacing and coil alignment making the system ideal for mountainous regions.

TEM37

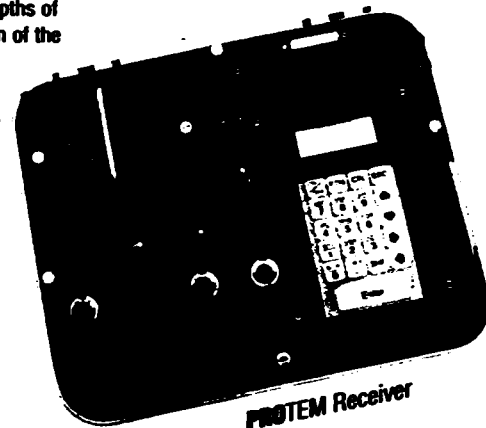


The TEM37, largest of the three transmitters, drives loops to 1000 x 1500 m in the fixed transmitter/moving receiver (Turam) mode to explore for minerals, or loops to 1000 x 1000 m for resistivity soundings, both to depths of 1000 meters. Addition of the BH43 borehole probe extends exploration depth to 2000 meters.

TEM47



For shallow applications such as groundwater exploration and groundwater contamination mapping, the new ultra-fast, lightweight TEM47 transmitter provides exploration capabilities to depths of 150 meters.



WHATEVER your EM application, the PROTEM system provides the solution. Modular and cost-effective by design, with additional transmitters that can be added for system expansion, the PROTEM system is *the* Professional Time-Domain EM system.

For more information,
please contact:

Frank B. Snelgrove,
Vice-President,
Marketing & Sales

GEONICS
Limited

8-1745 Meyerside Drive
Mississauga, Ontario
L5T 1G6
(416) 670-9588
FAX (416) 670-9204
Telex 06-968688

APPENDIX I

CERTIFICATION

I, Raymond Joseph Meikle of Timmins, Ontario hereby certify that:

1. I hold a three year Technologist Diploma from the Haileybury School of Mines, Haileybury, Ontario, obtained in May 1975.

2. I have been practising my profession since 1973 in Ontario, Quebec, Nova Scotia, New Brunswick, Newfoundland, NWT, Manitoba, Germany and Chile.

3. I have been employed directly with Teck Corporation, Metallgesellschaft Canada Ltd. Sabina Industries, S. Middleton Exploration Services Ltd., self employed 1979-1985 (Rayan Exploration Ltd.) and currently with Rayan Exploration Ltd.

4. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience and on the results of the field work conducted on the property during 1990.

Dated this 1st day of October, 1993
at Timmins, Ontario.

R.J. Meikle

APPENDIX J

CERTIFICATION

I, Steve Anderson of Timmins, Ontario hereby certify that:

1. I hold a three year Technologist Diploma from Sir Sandford College , Lindsay, Ontario, obtained in May 1981.

2. I have been practising my profession since 1979 in Ontario, Quebec, Nova Scotia, New Brunswick, Newfoundland, NWT, Manitoba, and Saskatchewan.

3. I have been employed directly with Asamera Oil Inc. Urangellschaft Canada Ltd.. Nanisivik Mines Ltd., R.S. Middleton Exploration Services Ltd., and Rayan Exploration Ltd.

4. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience and on the results of the field work conducted on the property during 1991.

Dated this 1st day of October, 1993
at Timmins, Ontario.



42A12SE0002 2.15433 TURNBULL

020

TURNBULL STAKING SYNDICATE

REPORT ON

1992 EXPLORATION PROGRAM

2. 15433

Co -authored by: **R.J.Meikle**

and

S.D.Anderson

INTRODUCTION

The following report will deal with the exploration programs carried out by R.J. Meikle and S. Anderson (Turnbull Staking Syndicate). These programs were funded by 1992 Ontario Prospectors Assistance Programs, (OPAP #92-811 and OPAP #92-812), and were conducted during the months of July-December, 1992. This report will deal with various prospecting, linecutting, and geophysical projects, which were carried out on 4 separate project areas within Turnbull, Massey, and Godfrey townships. These three townships are contiguous and are in the "Timmins Camp", in the Porcupine Mining Division, District of Cochrane, Ontario.

The 4 different project areas are named the Rankin Lake Property, Robb Creek Property, Turnbull East Property, and the Godfrey Property. Each of these properties will be dealt with under the appropriate section of this report.

RANKIN LAKE PROPERTY

TURNBULL/MASSEY TOWNSHIPS



42A12SE0002 2.15433 TURNBULL

TABLE OF C.....

	Page
INTRODUCTION.....	1
LOCATION AND ACCESS.....	2
CLAIM STATUS.....	2
PERSONNEL.....	3
PROPERTY HISTORY.....	3
SURVEY PARAMETERS.....	4
LINECUTTING.....	4
MAGNETOMETER SURVEY.....	4,5
PROSPECTING.....	6,7
SURVEY RESULTS.....	8
CONCLUSIONS AND RECOMMENDATIONS.....	9,10

LIST OF FIGURES

- Figure No. 1 - Location Map
- Figure No. 2 - Property Location Map
- Figure No. 3 - Claim Sketch
- Figure No. 4 - Prospecting Sketch

APPENDICES

- Appendix B - R. Duess Geological Report
- Appendix C - Sample Descriptions
- Appendix D - Assay Results
- Appendix E - EDA Omni Proton Magnetometer
- Appendix I - R.J. Meikle Certificate
- Appendix J - S.D. Anderson Certificate



Introduction

The Rankin Lake property consists of 3 unpatented mining claims, located within Turnbull and Massey Townships. The 3 claims which make up this property consist of 35 individual units, two blocks of 16 units and 1 block of 3 units. The program carried out on this property included prospecting, linecutting, and a proton magnetometer survey.

The purpose of this program was to locate and further evaluate a previous located Ni-Cu showing marked on the Timmins OGS Geology map No.2201., situated on the Massey-Turnbull township line. Prospecting failed to determine the strike direction of the stratigraphy, and it was decided to cut a N-S and E-W grid to cover the suspected N-S geological strike direction and the suspected E-W direction of the local shear zones. A magnetometer survey was conducted on all the lines to determine a strike direction.

Location and Access

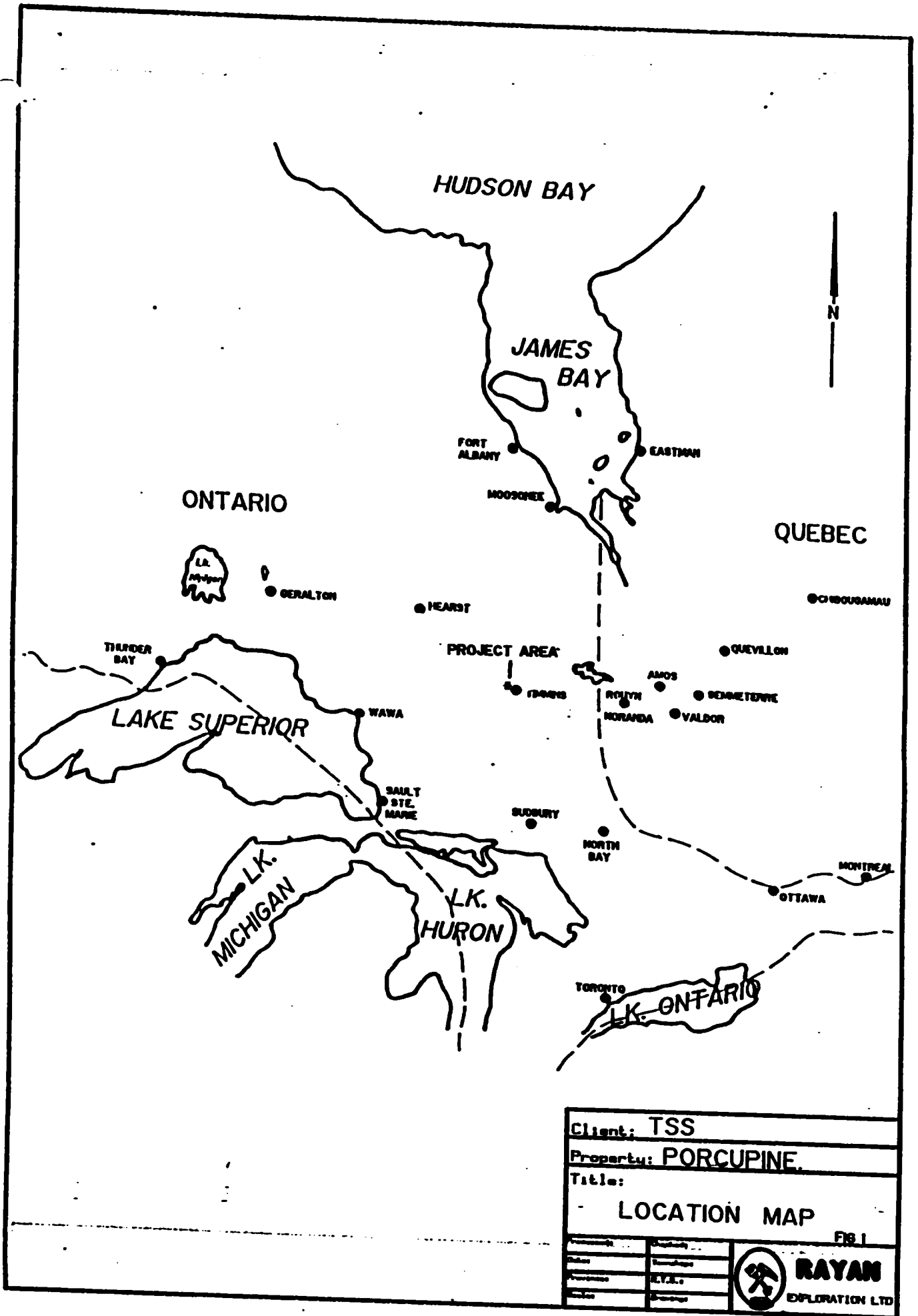
The Rankin Lake Property is located in Massey and Turnbull townships, District of Cochrane, Porcupine Mining Division (fig.1). It is situated approximately 30 km. west from the city of Timmins, with the western portion of the property straddling the Massey-Turnbull township line (fig.2). Rankin Lake is located along the western boundary of the property.


Access to the property during the survey period was gained by going west on Hwy 101 from the city of Timmins for approximately 10 km., to the Mallette lumber road. This road heads west and runs along the southern boundary of Turnbull Twp.(fig.2). A network of logging roads heading north from the Mallette road at approximately the 20km point will provide access to various points throughout the claim block.

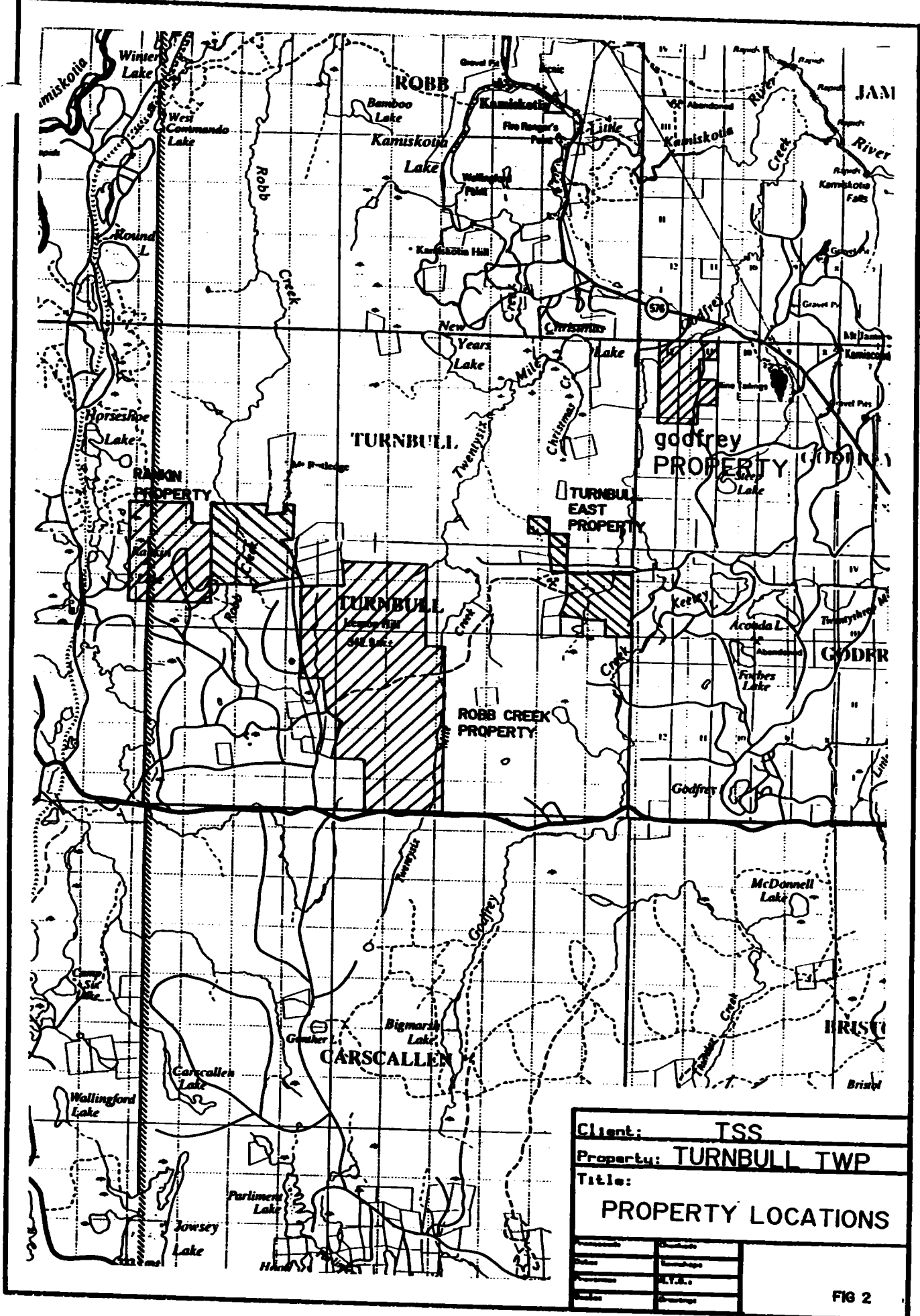
Claim Status

The Rankin Lake Property is made up of 3 contiguous, unpatented totalling 35 units. The claim numbers which make up this block are listed below:

<u>Claim Number</u>	<u>Units</u>	<u>Township</u>
1189588	16	Massey/Turnbull
1189589	3	Turnbull
1189584	16	Turnbull

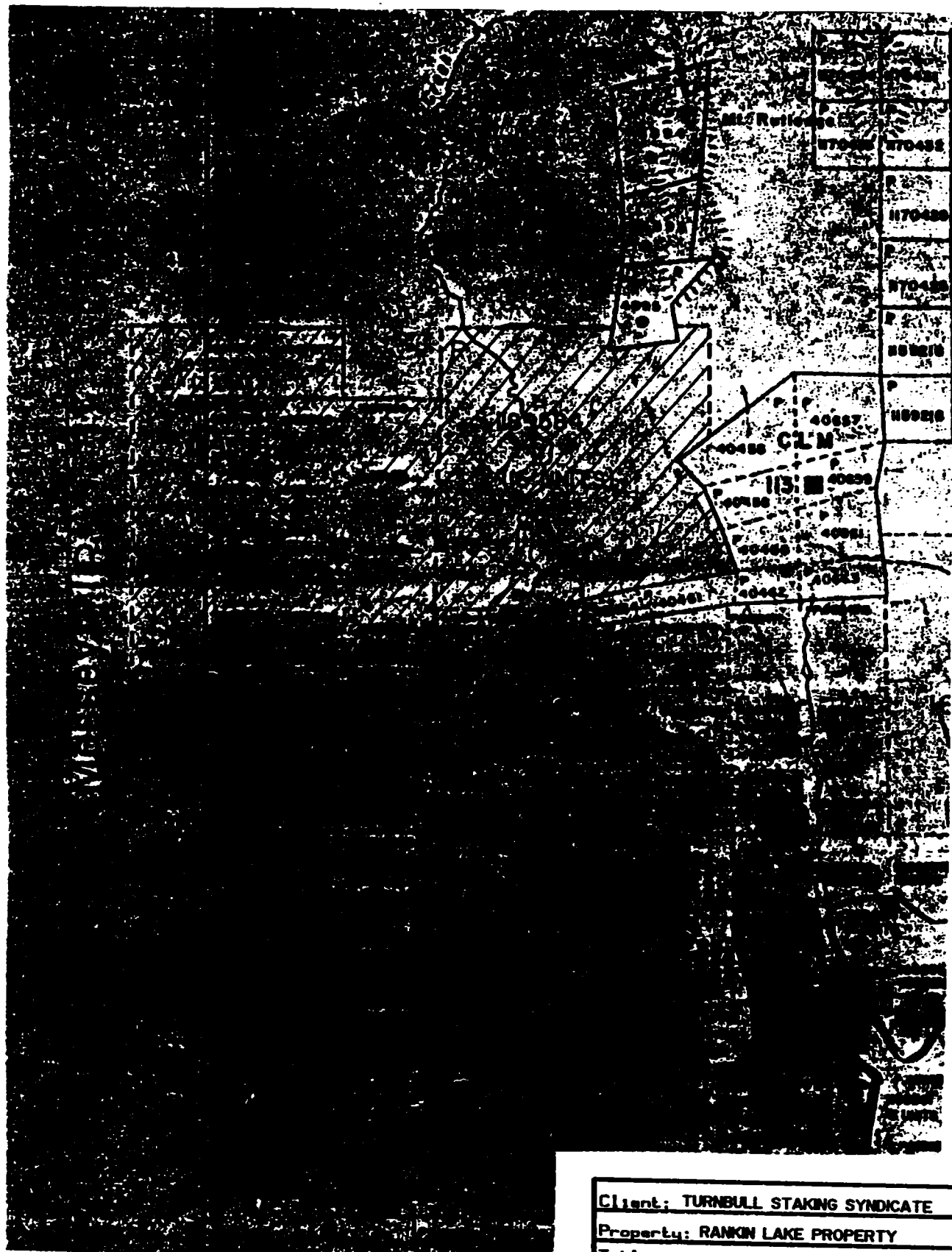


Client: TSS																					
Property: PORCUPINE.																					
Title:																					
- LOCATION MAP																					
FIG 1																					
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 RAYAN EXPLORATION LTD																					



Client: TSS
 Property: TURNBULL TWP
 Title: PROPERTY LOCATIONS

Reference	Description



Client: TURNBULL STAKING SYNDICATE		
Property: RANKIN LAKE PROPERTY		
Title:		
CLAIM SKETCH		
Drawn by:	Checked:	M440 GRIMS
Date:	Reviewed:	
Project:	N.T.S.	
Scale:	Drawings:	

FIG 3

Personnel

The following personnel were directly involved in the project:

R.J. Meikle	Timmins, Ontario
S. Anderson	Timmins, Ontario
T. Anderson	Hanmer, Ontario
B. Duess	Kingston, Ontario

All work was supervised by R.J.Meikle and S.Anderson.

Property History

The Rankin Lake property straddles the Turnbull-Massey township line, to the west of Rankin Lake. Work conducted in 1946 on the Grentz Property, mentions Chalcopyrite mineralization occurring in trenches within what is now the south-east corner of the property.

In 1968, Mogar Mines outlined 9 geophysical anomalies in this area, however these maps were not in the assessment files, and the anomalies appear to be untested.

Drilling conducted in the area show sections of up to .5% Cu and .03% Ni, as well as minor amounts of Ag and Co. The majority of the work conducted on the Rankin Lake Property was concentrated in the area of this showing, and seemed to focus on zones running east-west, most likely in shear zones.

Survey Parameters

Linecutting

A total of 7.8 km of grid lines were cut on the Rankin Lake Property. Because it is not clear as to the strike direction of the geology and local mineralization in this area, the grid was cut in both a N-S and E-W direction, with L0/0+00 centered over the existing trench (see Magnetometer map). The lines were cut using a 100 meter line spacing and 25 meter station interval. The line cutting was conducted during the month of October, 1992.

Magnetometer Survey

At this point, the only geophysics done on the property in the current program was a Total Field Proton Magnetometer. This survey was done to try and establish a geological strike direction and strike direction of the mineralization if different from the geological strike. Lines in both directions were read. The following is a brief description of the theory and parameters used for the magnetometer survey.

Magnetometer Theory

An EDA Omni Plus Proton Precession magnetometer was used to carry out the magnetometer survey. The instrument is synchronized with an EDA recording base station to help eliminate magnetic diurnal variation. This should ensure an accuracy of less than 10 Nt.

The Proton Precession method involves energizing a wire coil immersed in a hydrocarbon fluid. This causes the protons in the proton rich fluid to spin or precess simulating spinning magnetic dipoles. When the current is removed the protons precess about the direction of the earth's magnetic field, generating a signal in the same coil which is proportional to the total magnetic field intensity. In this way, the horizontal gradient of the earth's magnetic field can be measured and plotted in plan form with values of equal intensity joined to form a contour map. This presentation is useful in correlating with other data sets to aid in structural interpretation. Individual magnetic responses can be interpreted for dip, depth and width estimates after profiling the data.

The following parameters were employed for the survey:

Instrument - EDA Omni Plus Proton Precession Magnetometer

Station Interval - 12.5m

Line Interval - 100m

Diurnal Correction Method - EDA Recording Base Station

Data Presentation - Magnetic Contours Map No. M-1

- 1:2500 scale

- Contour interval = 100 nano-teslas

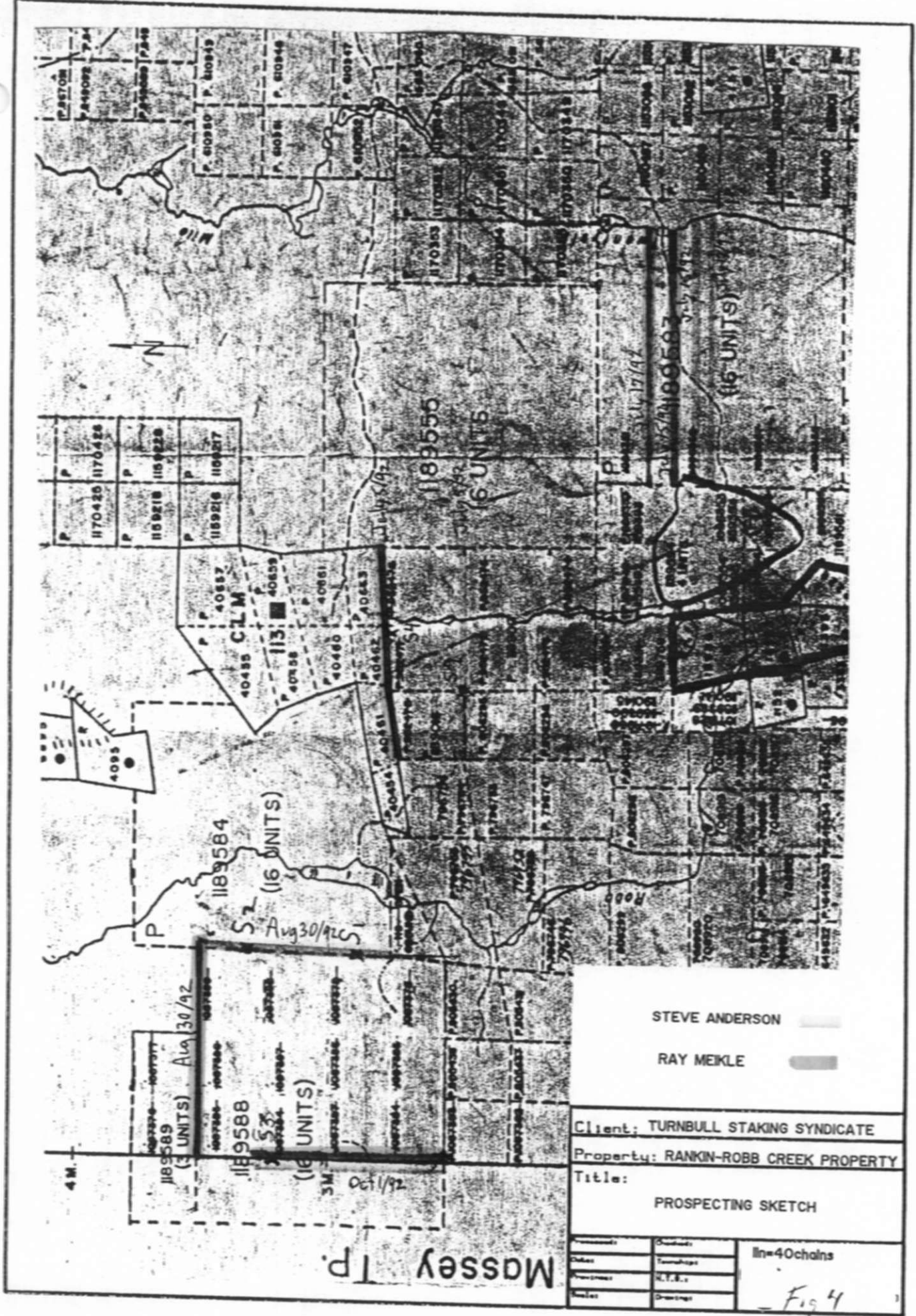
Prospecting

The purpose prospecting on the Rankin Lake property was to locate an old trench situated on the township line in the area of the 3 mile marker, indicated by the Mogar Mines report in 1968. This trench, and diamond drilling, in which they reported "significant" assay values in Cu and Ni, as well as minor amounts of Co and Ag.

R.Meikle and S.Anderson spent one day prospecting along the township line in the area of the 3 mile marker, in an attempt to locate the trench described in the Mogar Mines report (fig.3). The trench was discovered, however it was situated approximately 350 meters north of the 3 mile marker on the township line. A second day was spent by S.Anderson and T.Anderson cleaning out the trench. In order to obtain in situ samples, some blasting was done and sample No. S-3 was taken. The sample was assayed for Cu, Zn, and Au, with the results shown in appendix D of this report. A consulting geologist, Robert Duess, of Kingston, Ontario, was contracted to do a property visit to examine the trench, fresh blasting, and make some observations of the mineralization type, geological setting and strike direction. Duess took 7 samples from the trench area and two samples from an area approximately 2 mile SE of the trench area during a search for a reported shaft containing samples of up to 3% Cu. The assay results from the Duess work and a description of the work performed by him is found in appendix B of this report.

One days prospecting was spent by R.Meikle and S.Anderson along the northern and eastern boundaries of claim 1189588. Two

samples labelled S-1 and S-2 were taken, and the assay results may be found in appendix in appendix D, with sample descriptions in appendix C of this report.



4 M.

1189589 (3 UNITS) Aug 30/92

1189588 (16 UNITS) Aug 30/92

1189584 (16 UNITS) Aug 30/92

Massey T.P.

STEVE ANDERSON

RAY MEKLE

Client: TURNBULL STAKING SYNDICATE
 Property: RANKIN-ROBB CREEK PROPERTY
 Title: PROSPECTING SKETCH

Date:	Drawing:
Scale:	Scale:
Author:	Author:

1 in = 40 chains

Fig 4

Survey Results

The magnetometer survey conducted on the Rankin Lake Property was successful in outlining a number of areas of interest. The first area of interest is a magnetic high which strikes approximately from L3N/2W to L3S/BLO, open to the north and south along strike. The strongest response occurs on L0/187W. This zone may be an indication of magnetite or pyrrhotite mineralization. Magnetic highs in the SE corner of the grid are similar in signature to the above mentioned zone and would appear to have the same causative source.

A magnetic low on L3S/225E may be an indication of alteration and or silicification. This magnetic low signature also occurs from L100S/412W to L3S/3W, extending off the grid to the north and south. Again, this may be an indication of alteration and or silicification.

The magnetic survey conducted on this property seems to indicate that the general strike direction is approximately north-south.

The area around the trench on L0/0+00, shows up as a magnetic low which is likely due to the silicification of the zone found in the trench.

Conclusions and Recommendations

As mentioned under the survey results, a number of areas of interest were outlined by the magnetometer survey. None of these areas should be dismissed without further investigation by ground prospecting and or other geophysical surveys.

To begin with, a prospecting program should be conducted over the outlined magnetic highs and lows in an attempt to explain them.

In the past, the majority of work conducted on the property concentrated on outlining any structures which may be running east-west. Although the mineralization occurring in the trench may be situated within a east-west zone, the magnetic survey conducted suggests the general geological strike direction is N-S. Because of this, much of the geophysics and drilling carried out in this area may have been running parallel to the geological strike.

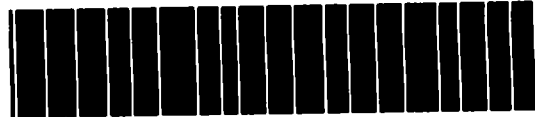
An electromagnetic survey should be conducted over the grid area to outline any conductive zones. An Induced Polarization survey might also be considered should some of the magnetic features outlined are found to be associated with disseminated sulphides which would not be detected by the EM survey.

The results of the above recommended programs should be compiled with the present data and any areas of interest should be outlined and re-evaluated.

If at this point, any of the zones are not felt to be resolved good enough to propose a diamond drill program, some Deep-EM might be considered to outline any conductive zones which may occur

beyond the survey depth detection capabilities of the above proposed geophysical surveys.

As mentioned previously, the majority of the work conducted in the past focused primarily on testing east-west structures. Because most of the magnetic features outlined in this survey appear to be striking north-south, none of the outlined magnetic anomalies appear to have been adequately covered in the past and should be explained.

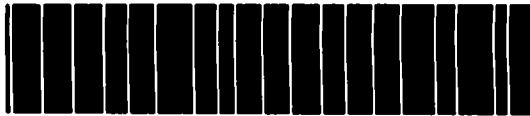


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TURNBULL EAST PROPERTY

TURNBULL TOWNSHIP



	Page
INTRODUCTION.....	1
LOCATION AND ACCESS.....	2
PERSONNEL.....	3
CLAIM STATUS.....	3
PROPERTY HISTORY.....	4
SURVEY PARAMETERS.....	5
PROSPECTING.....	5
INDUCED POLARIZATION SURVEY.....	5
GENERAL I.P. THEORY.....	6
ELECTRODE ARRAY.....	7
SURVEY RESULTS.....	8,9,10
CONCLUSIONS AND RECOMMENDATIONS.....	11,12

LIST OF FIGURES

- Figure No. 1 - Location Map
- Figure No. 2 - Property Location Map
- Figure No. 3 - Grid Sketch
- Figure No. 4 - Prospecting Map

APPENDICES

- Appendix C - Sample Description
- Appendix D - Assay Results
- Appendix F - BRGM IP-2 IP Receiver
- Appendix G - Scintrex IPC-9 Transmitter
- Appendix I - R.Meikle Certificate
- Appendix J - S.Anderson Certificate

INTRODUCTION

The Turnbull East property consists of 10 contiguous, unpatented mining claims located in the eastern portion of Turnbull Township, District of Cochrane, Porcupine Mining Division (fig. 1).

An Induced Polarization survey was conducted on a number of lines to further test areas of interest outlined by the 1991 OPAP exploration program conducted on the property by the Turnbull Staking Syndicate. The I.P. survey was carried out during July and August, 1992.

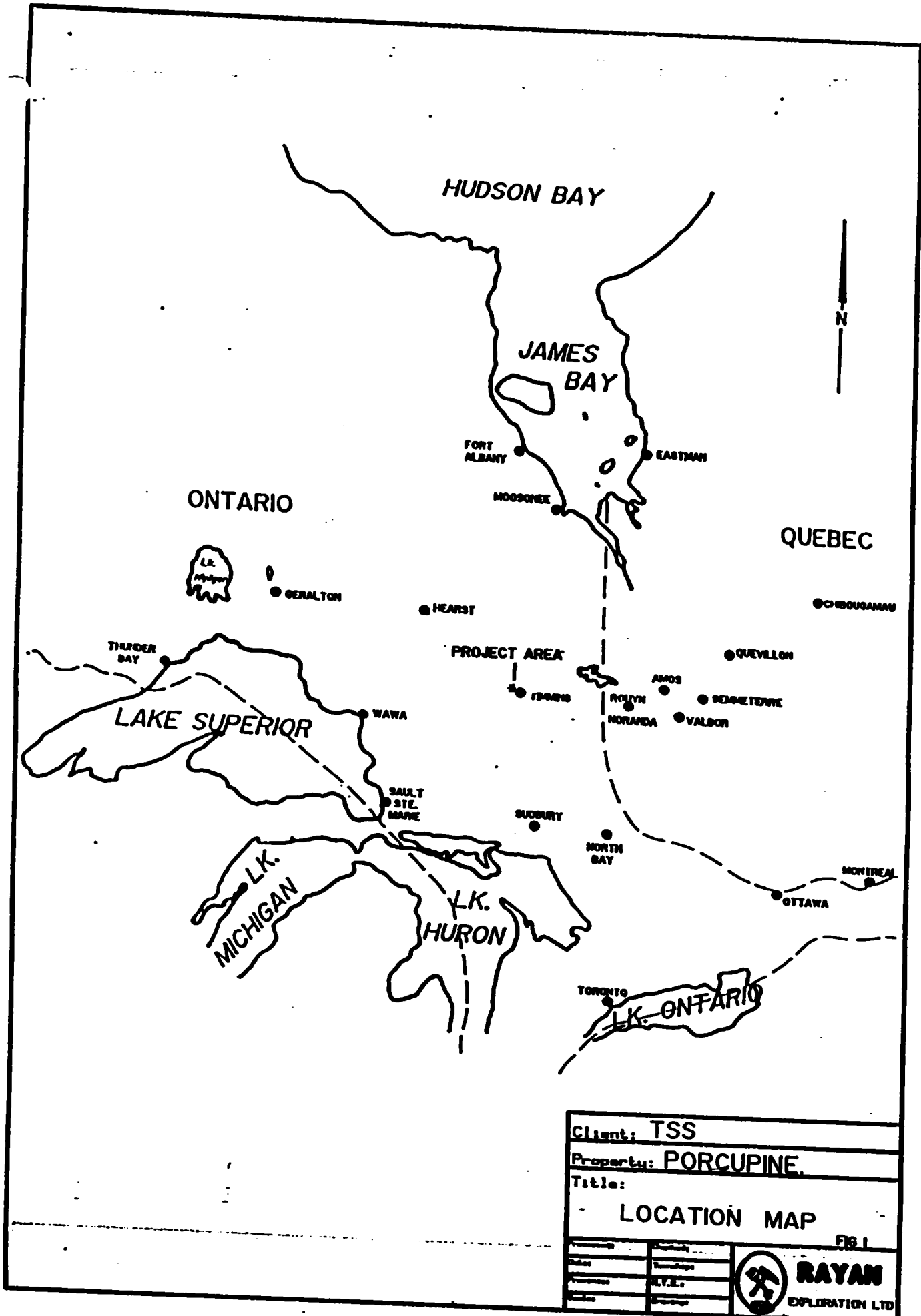
As well as the I.P. survey, one days prospecting was carried out by R.Meikle to the east of a strong I.P. anomaly along the northern portion of the property.


LOCATION AND ACCESS

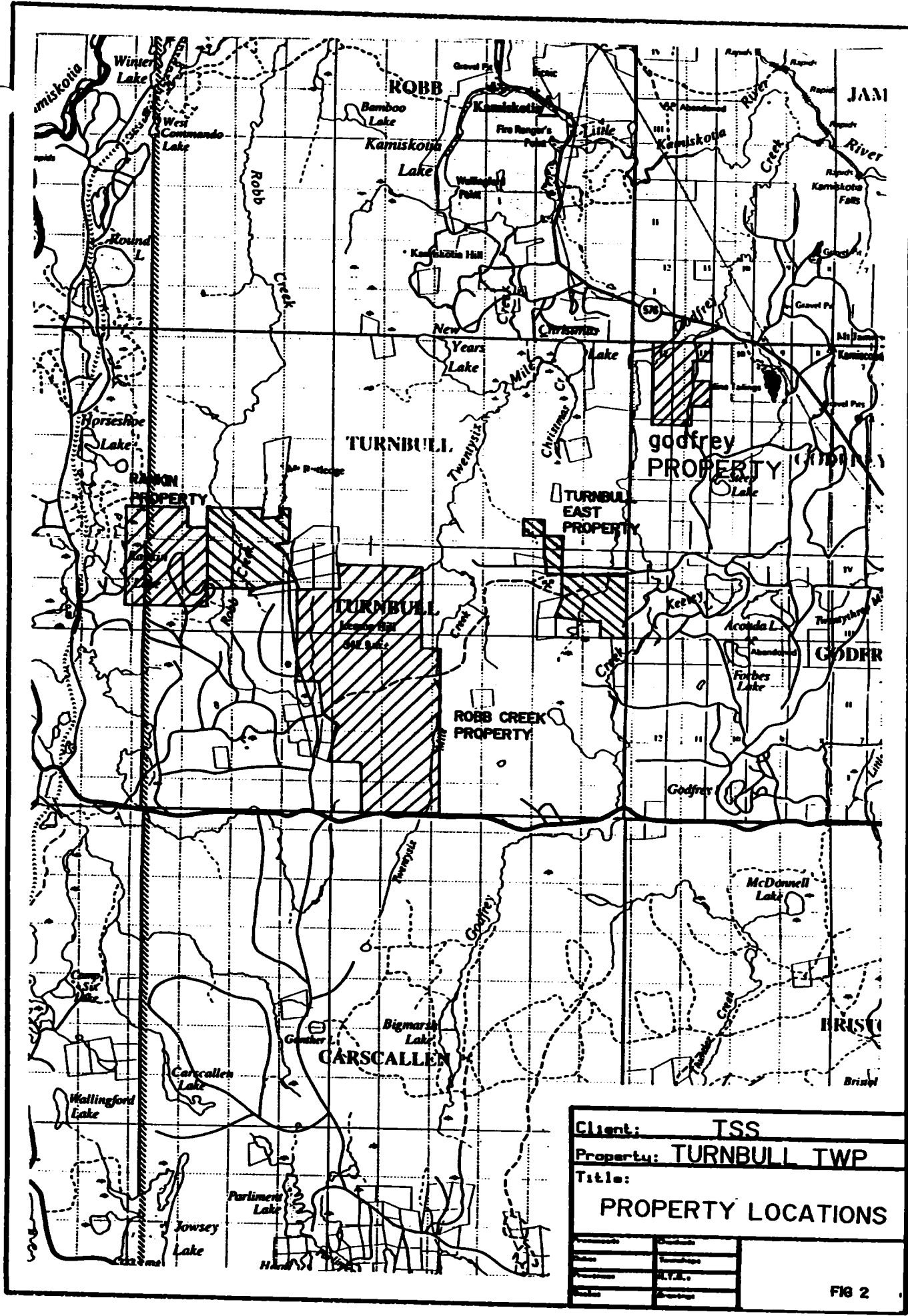
The Turnbull East Property is located approximately 25 km NW from the city of Timmins, along the central portion of the eastern boundary of Turnbull Township, Porcupine Mining Division, District of Cochrane. (Fig 1)

Access to the property during the survey period was by truck from the city of Timmins. A 10 km ride west of Timmins on Hwy. 101 leads to the junction of Hwy. 101 and Hwy. 576 to Kamiskotia Lake. At approximately the 11 km mark north on Hwy. 576, is the road to Mount Jamieson and the Kamiskotia Ski Resort. Directly across from the ski resort is a logging road which heads west from Hwy. 576. (Fig 2)

This logging road is no longer maintained and as a result some repair work was required in places in order to provide access to the property by two wheel drive truck. A 14 km drive west on this road provided access to within 1/2 mile of the property. From this point the old Lalley Mine Road continues west, across the central portion of the block. Access from this point is by foot. (Fig 3)



Client: TSS																	
Property: PORCUPINE																	
Title:																	
LOCATION MAP																	
FIG. 1																	
<table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>									<table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>								
 RAYAN EXPLORATION LTD.																	



Client:	TSS
Property:	TURNBULL TWP
Title:	PROPERTY LOCATIONS

FIG 2

PERSONNEL

The following people were directly involved with the exploration program conducted on the Turnbull East Property:

Ted Anderson..... Hanmer, Ontario
Steve Anderson..... Timmins, Ontario
Ray Meikle..... Timmins, Ontario

All work was supervised by Steve Anderson and Ray Meikle.

CLAIM STATUS

The Turnbull East Property consists of 10 single unit, unpatented, contiguous mining claims in Turnbull Township, Porcupine Mining Division, Ontario (Fig. 3). The claims are as follows:

<u>Claim No.</u>	<u>Township</u>
1133222	Turnbull
1133223	"
1133224	"
1133225	"
1133226	"
1133227	"
1133236	"
1181990	"

Ownership of all claims is 50% each of S.Anderson and R.Meikle

PROPERTY HISTORY

The Turnbull Township area, has been of interest to the mining industry since the early 1900's with a number of copper, zinc, and gold showings throughout the Township.

In the immediate area around the Turnbull East Property the majority of the work conducted seemed to be focused primarily on gold showings. The most significant project carried out in this area by Lalley Gold Mines, who sunk a shaft to a depth of 40 feet approximately 1 mile to the north. Also there is a 35 foot shaft a few hundred feet west of the western boundary of the property.

Since that time, Noranda, Norcen Mining, and Golden Trio Minerals have conducted work in the immediate area. These companies have all reported gold, copper, and zinc mineralization. Although some of the results have shown significant mineralization, no economic values have yet been encountered. The property was acquired based on results obtained by previous work and the excellent geological environment of highly altered felsic volcanics underlying most of the property.

The current program is a follow-up to a 1991 exploration program carried out by ourselves.

SURVEY PARAMETERS

Prospecting

One day was spent prospecting by R.Meikle to the east of the northern portion of this block, primarily along old claim lines in the area (Fig.4). Two samples were taken from an old pit and labelled S-5 and S-6. The sample description for the samples taken can be found in appendix C of this report, and the assay results in appendix D.

Induced Polarization Survey

An I.P. survey was conducted to follow-up zones of interest outlined in the 1991 exploration program carried out by the Turnbull Staking Syndicate.

The main reason for the I.P. survey was to test suspected east-west shear zones. A number of these shear zones were outlined during the 1991 geological mapping program on the property. It is felt that because of the grid orientation, some of these areas may not have been adequately tested by the 1991 geophysical surveys. Each line surveyed, survey parameters and a brief theory of I.P. are as follows:

TURNBULL STAKING SYNDICATE

TURNBULL EAST PROPERTY

SKETCH OF LINES - I.P. SURVE

OPW/1002 SCALE 1:10000

FIG. NO. 3

4

1101000

1130220

1130220

1130227

1130228

1130222

1130229

1130228

1130223

1130224

VALLEY ROAD

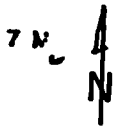
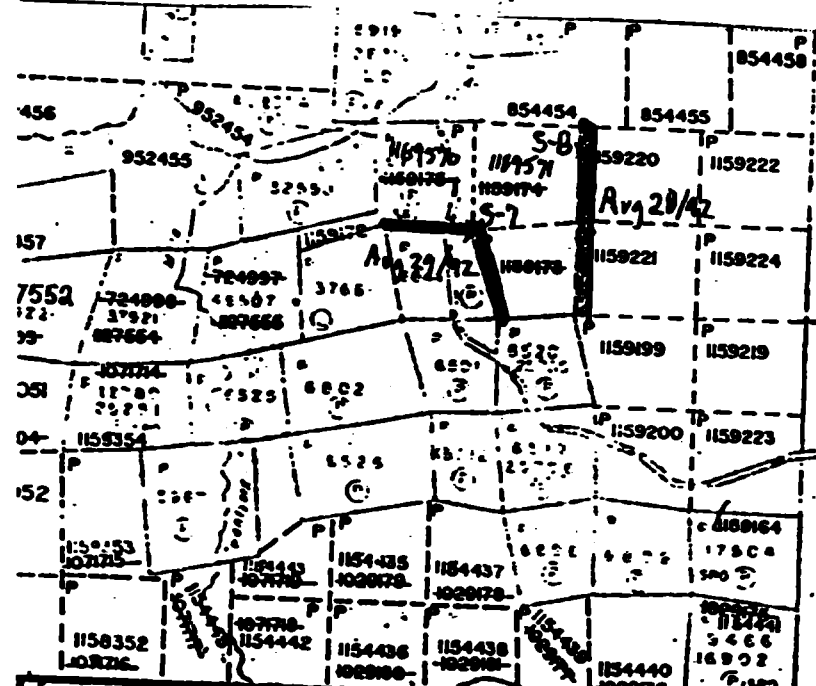
CRICK

TURNBULL TWP.

GOOSE TWP.

1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0

ROBB TWP



JAMESON TWP



TURNBULL TWP

Client: TURNBULL STAKING SYNDICATE	
Property: TURNBULL-GODFREY PROP	
Title: PROSPECTING SKETCH	
Scale:	1 in = 40 chains
Drawn by:	L.T.L.
Checked by:	
Date:	

General IP Theory

The IP method involves applying voltage across two electrodes in a pulsed manner i.e. 2 seconds on, 2 seconds off. A second "dipole" or electrode pair, measures the residual potential or voltage between them after the voltage is shut off or during the 2 second off cycle. The potential is recorded at different times after the shut off. If, for example, there is sulphide mineralization within the measuring dipoles, they will be polarized or charges set up on the sulphide particles. This polarization gives the zone a capacitor effect, thereby blocking the current delay giving a higher chargeability reading.

A typical signature for many gold showings would be a chargeability high, resistivity high and magnetic low. This would be characteristic of a mineralized, highly altered carbonated and/or silicified zone. However, this is by no means the only geological setting for gold, therefore every profile should be looked at individually and correlated with all other geophysical-geological data.

Electrode Array

The electrode array used for the survey was the Dipole-Dipole Array. In this array two current electrodes (C1, C2) and two receiver or potential electrodes are moved down a line in unison. In this case the "a" spacing or distance between each dipole was fixed at 25m apart. For an N=1 reading, the closest C1 and P1 were 25m apart. The C1-C2 dipole remain in the same place while the potential dipole (P1-P2) moves ahead on "a" spacing and the array is ready for an N=1 reading.

IP Survey Parameters

The IP survey was carried out using the following parameters:

Method: Time Domain

Electrode Array: Dipole-Dipole

"a" spacing: 25m

Number of Dipoles Read: 1-4

Pulse Duration: 2 seconds on, 2 seconds off

Delay Time: 500 milliseconds

Integration Time: 420 milliseconds

Receiver: EDA IP-2

Transmitter: Scintrex IPC-7

Data Presentation: Psuedosections Plate-1 and Plate-2

SURVEY RESULTS

The I.P. survey conducted on the Turnbull East Property was successful in outlining a number of anomalous zones. Although most of the zones are not too chargeable, the resistivities have outlined a number of areas which may be important structurally.

Each line surveyed is discussed individually and in detail as follows:

TL 900E

This line shows very little in the way of chargeability anomalies. However, resistivity lows situated at 312S, 525S and 1100S may be an indication of east-west shear zones.

L 800S

There are two weak chargeability anomalies located on this line. The first is situated at 250E and occurs over a resistivity high. This is a very subtle zone with chargeabilities of approximately two times background. Because it is located over a fairly strong resistivity, it may be the result of an overburden to outcrop response. However, this zone should not be dismissed as an outcrop response without further testing.

The second zone encountered is situated at about 50E. Again, it has a weak chargeability response, however, it occurs along the contact between a moderately resistive zone and a strong resistivity low. This resistivity low remains open to the west. This weakly chargeable zone is coincident with the HLEM conductor labelled "D", outlined in the 1991 Turnbull East report.

HLEM zones labelled A and B from the same report show up as a resistivity low running from 525E to 600E. There is no real chargeability response over this feature.

BL 0

This line shows a weakly chargeable zone located between 300S and 325S. This zone's response occurs at depth, showing up on N=3 and N=4. It is situated over resistivities which are more or less background, for the section of line between L0 and L400S. This response is typical of a weakly mineralized zone.

A wide zone at closely flanking resistivity highs and lows occurs between 450S and 675S. The 1991 magnetometer survey shows a weak N-S magnetic low running along the northern portion of L8S. This may suggest the presence of some type of cross cutting structure. This feature is also flanked to the south by the second zone previously discussed on L8S. It is also flanked to the north by weakly anomalous soil geochem assays in Cu and Zn, as shown by the 1991 program.

TL 7W

The southern portion of this line from L0 to 250N was covered with I.P. by the 1991 program. The same survey parameters were used for the current survey. The previous I.P. survey stopped at the edge of an anomaly which started at 250N. Because of unusually difficult survey conditions and time restrictions, complete coverage over this zone was not done during the 1991 program. This line has now been completed to 750N in order to obtain proper coverage over the zone. The anomaly exhibits a very

strong chargeability response extending over a fairly wide area. It runs from 300N to 425N and remains open to the east and west. It is situated generally over very low resistivities. However, a zone of high resistivity is shown to occur at depth, in the area of 350N. A second, moderately resistive zone occurs at 425N. Both of these resistivity highs are coincident with some of the strongest chargeability highs. This may suggest an area of silicification or alteration occurring within an otherwise conductive zone.

The 1991 Turnbull East report shows a moderate Cu and Zn soil geochem anomaly at 350N. This report also shows a magnetic high, flanked to the south by a low at 375N. The HLEM map from the same program also shows a conductor labelled "F", flanking the zone to the south. This is by far the strongest I.P. response encountered on the property to this point and should definitely be explained.

L9 E

A very weak chargeability high is situated between 800W and 825W on this line. It occurs over a resistivity high and may be the result of an outcrop response. However, it should not be dismissed as such without further investigation.

CONCLUSIONS AND RECOMMENDATIONS

The I.P. survey conducted on the Turnbull East Property was successful in outlining a number of areas of interest.

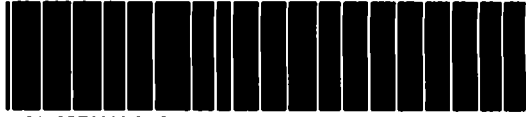
The zone which would have the highest priority at this point is the anomaly outlined on TL 7W. Since the I.P. responded so well over this zone, it is recommended that a number of N-S lines be cut to the east at 50m intervals. This would help determine a more accurate strike direction as well as further test the zone's chargeability and resistivity characteristics.

A Deep-EM survey might be considered in this area as the majority of the zone appears to be very conductive. This would test for a more massive sulphide zone at depth below the suspected stringer type material at surface.

It is difficult at this time to determine an order of priority for the remainder of the anomalies although they should all be further tested.

There is very little chargeability response over any of these zones. This would tend to suggest the absence of significant sulphide mineralization close to the surface. However, a number of the zones discussed occur over resistivity lows, which may be the result of east-west shearing. These zones should also be looked at in further detail and mapped where possible, since any shear zones located may still provide an environment suitable for gold deposition.

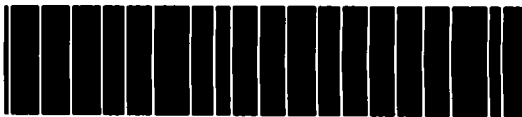
Although there are no strong HLEM conductors on the block, a Deep-EM survey should be considered over most of the property. The geological environment in this area is favourable for hosting VMS type base metal deposits and such a deposit could sub outcrop below the depth detection of the HLEM and I.P. surveys carried out.



42A12SE0002 2.15433 TURNBULL

040

ROBB CREEK PROPERTY
TURNBULL TOWNSHIP



42A12SE0002 2.15433 TURNBULL

TABLE OF

040C

	PAGE
INTRODUCTION.....	1
LOCATION AND ACCESS- AREA NO. 1.....	2
- AREA NO. 2.....	2
CLAIM STATUS - AREA NO. 1.....	3
- AREA NO. 2.....	3
PERSONNEL.....	3
PREVIOUS WORK - AREA NO. 1.....	4
- AREA NO. 2.....	4
SURVEY PARAMETERS - LINECUTTING - AREA NO. 1.....	5
- AREA NO. 2.....	5
- I.P. SURVEY	6,7
- MAGNETOMETER SURVEY.....	8,9
- TIME DOMAIN EM SURVEY.....	9
RESULTS AND RECOMMENDATIONS - AREA NO. 1.....	10,11
- AREA NO. 2.....	

APPENDICES

- Appendix A - Heikki Limion Report on TDEM survey
- Appendix C - Sample Descriptions
- Appendix D - Assay Results
- Appendix E - EDA Proton Magnetometer
- Appendix F - BRGM IP-2 IP Receiver
- Appendix G - Scintrex IPC-9 IP Transmitter
- Appendix H - Geonics EM37 Time Domain EM
- Appendix I - R. Meikle Certificate
- Appendix J - S. Anderson Certificate

FIGURES

- Figure 1 - Location Map
- Figure 2 - Property Location Map
- Figure 3 - Claim Sketch
- Figure 4 - Prospecting Sketch

INTRODUCTION

The Robb Creek Property south-central Turnbull Township comprises two separate areas chosen to do geophysical surveys on. Area No. 1 is on claims 1189016 and 1189017.

On July 5, 1992, one day was spent prospecting in this area by R. Meikle and S. Anderson and a sulphide occurrence was found near the #2 post of claim 1189016. Also, there were two N-S VLF conductors by Dolbridge Mines Ltd. on both sides of the sulphides. It was decided to do a couple of lines of I.P. survey to delineate this showing and look for others.

The second area is approximately 1.6km SE of area #1 on claim 1189594. This area has an airborne EM conductor shown on MNDN, OGS Map No 81076.(Fig.5) The AEM conductor was covered with a grid and surveyed with a magnetometer and Time Domain EM large loop survey.

This section of the 1992 OPAP report describes the work done on both areas, parameters used and results.

LOCATION AND ACCESS

Area No 1

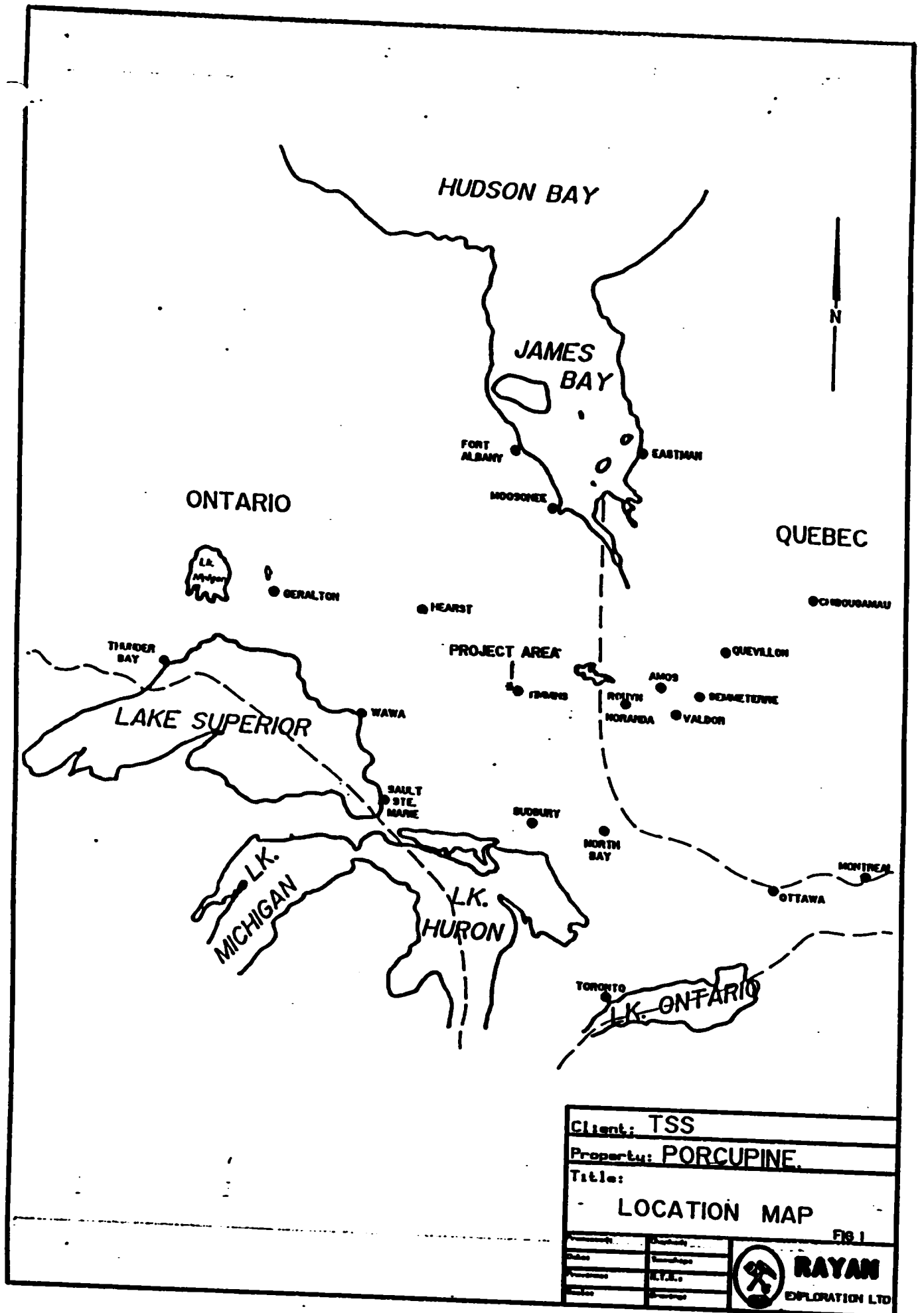
This area is located in the south-central part of Turnbull Township, Porcupine Mining Division, Ontario. More specifically, the area is approximately 2 miles east of the 2.5 mile marker on the west Turnbull Twp. line. (Fig 1,2)


Access to area No 1 is via Hwy 101 west for 10km from Timmins to the Mallette Lumber Road. This road runs west along the southern boundary of Turnbull Twp. for approximately 20km. From here a logging road runs north through the centre of Turnbull Twp. and approximately 50 feet east of the #2 post of claim 1189016. (Fig 1,2)

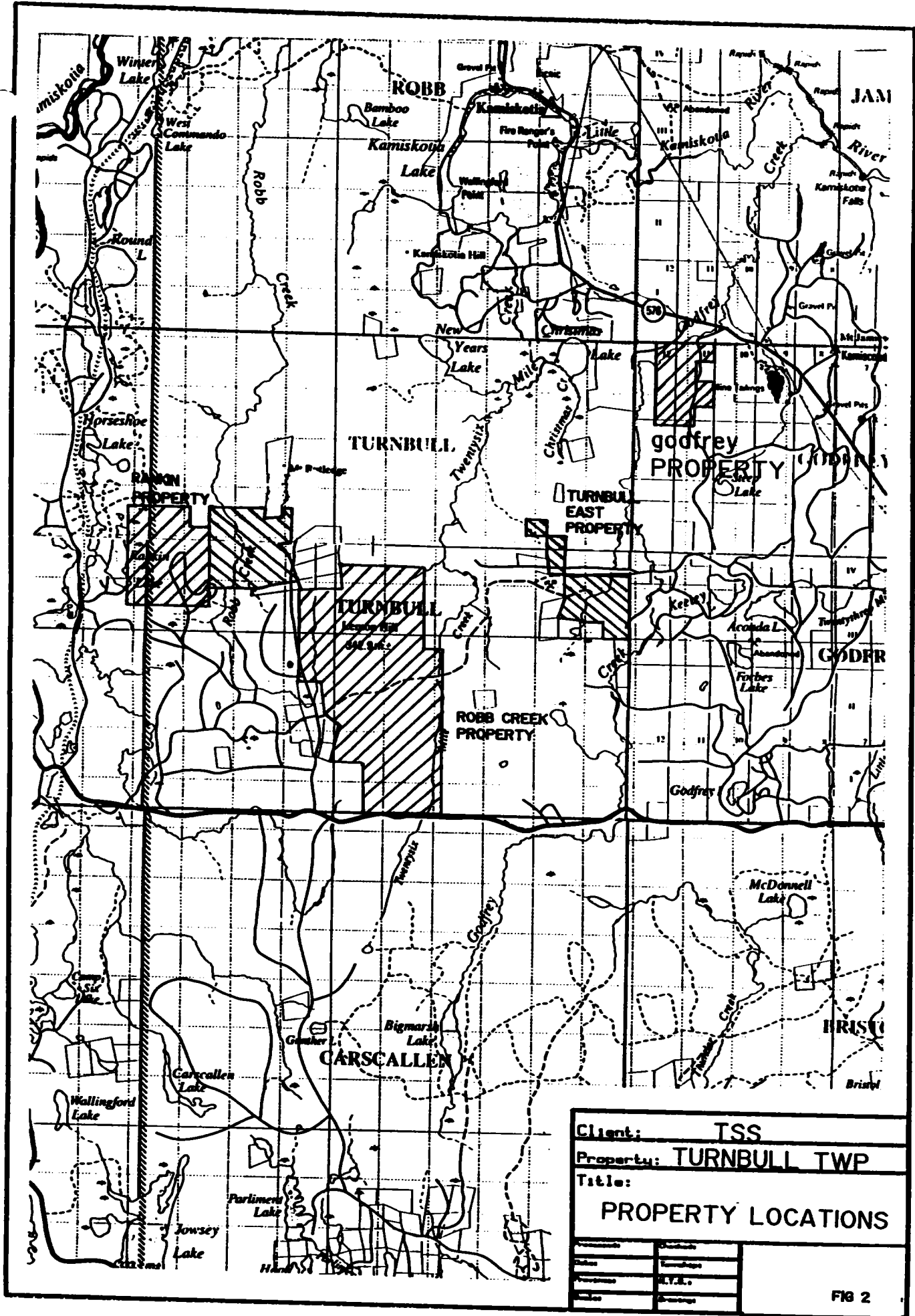
Area No 2

This area is located approximately 1.6km SE of area No. 1, on the east side of Robb Creek. (Fig 1,2)

Access to area No. 2 is the same as for Area No. 1 except you turn NE just south of the EW part of Robb Creek on a new logging road which traverses the area. (Fig 1,2)



Client: TSS																					
Property: PORCUPINE																					
Title:																					
LOCATION MAP																					
FIG. 1																					
<table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>											<table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>										
 RAYAN EXPLORATION LTD																					



Client: TSS
 Property: TURNBULL TWP
 Title:
PROPERTY LOCATIONS

Scale:	North Arrow:
Projection:	UTM Zone:
Units:	Feet/Meters:

FIG 2

CLAIM STATUS

Area No. 1 - This area is within the following claims:

<u>CLAIM NO</u>	<u>UNITS</u>	<u>TOWNSHIP</u>	<u>OWNERSHIP</u>
1189016	1	Turnbull	R.J. Meikle 50% S. Anderson 50%
1189017	6	Turnbull	R.J. Meikle 50% S. Anderson 50%

(see Fig. 3)

Area No. 2 - This area comprises the following claims:

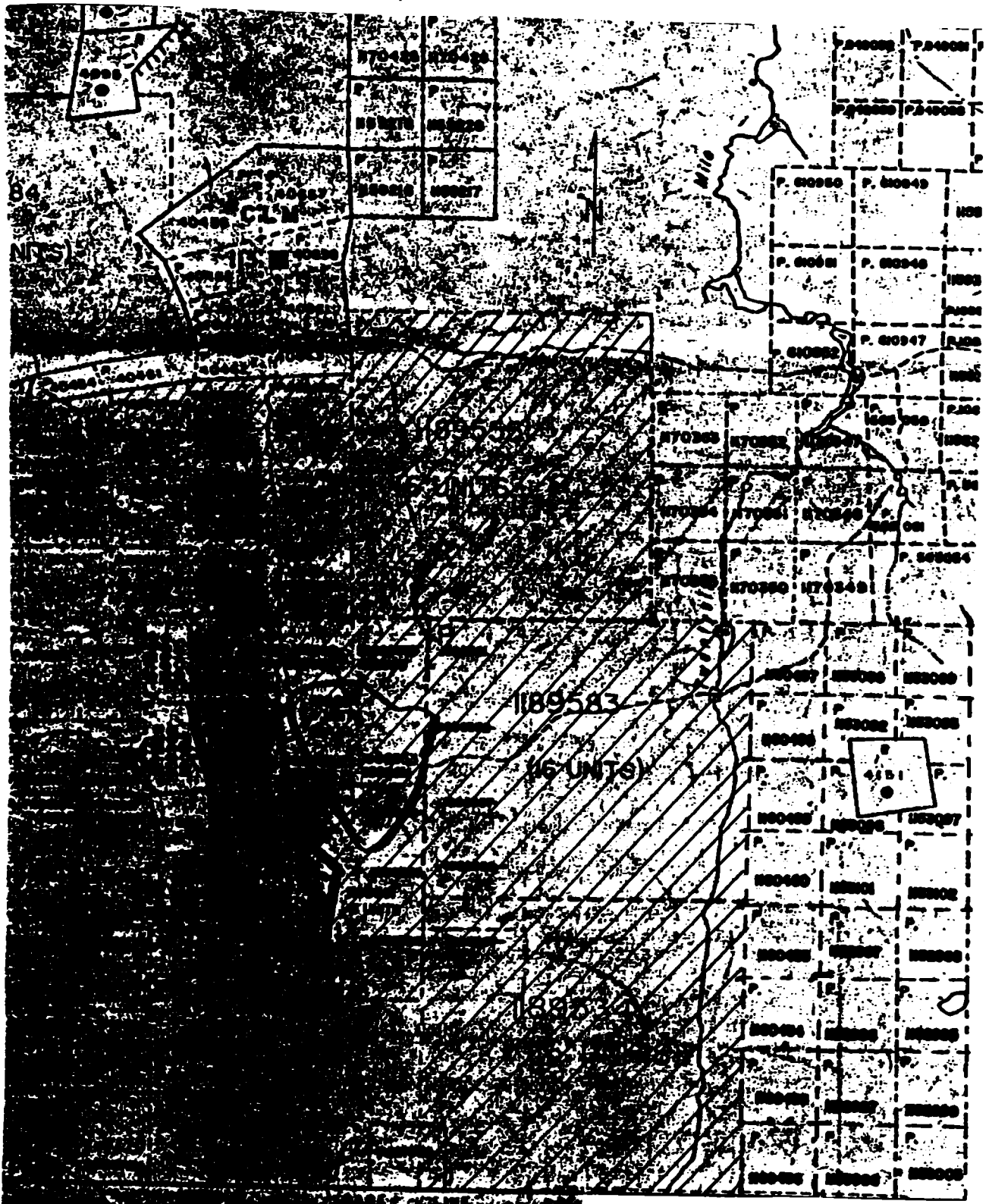
<u>CLAIM NO</u>	<u>UNITS</u>	<u>TOWNSHIP</u>	<u>OWNERSHIP</u>
1189594	4	Turnbull	R.J. Meikle 50% S. Anderson 50%
1189017	6	Turnbull	R.J. Meikle 50% S. Anderson 50%
1189555	16	Turnbull	R.J. Meikle 50% S. Anderson 50%

(see Fig. 3)

PERSONNEL

The following personnel were employed on the project:

- R.J. Meikle..... Timmins, Ontario
- S. Anderson..... Timmins, Ontario
- Ed Brunet..... Timmins, Ontario

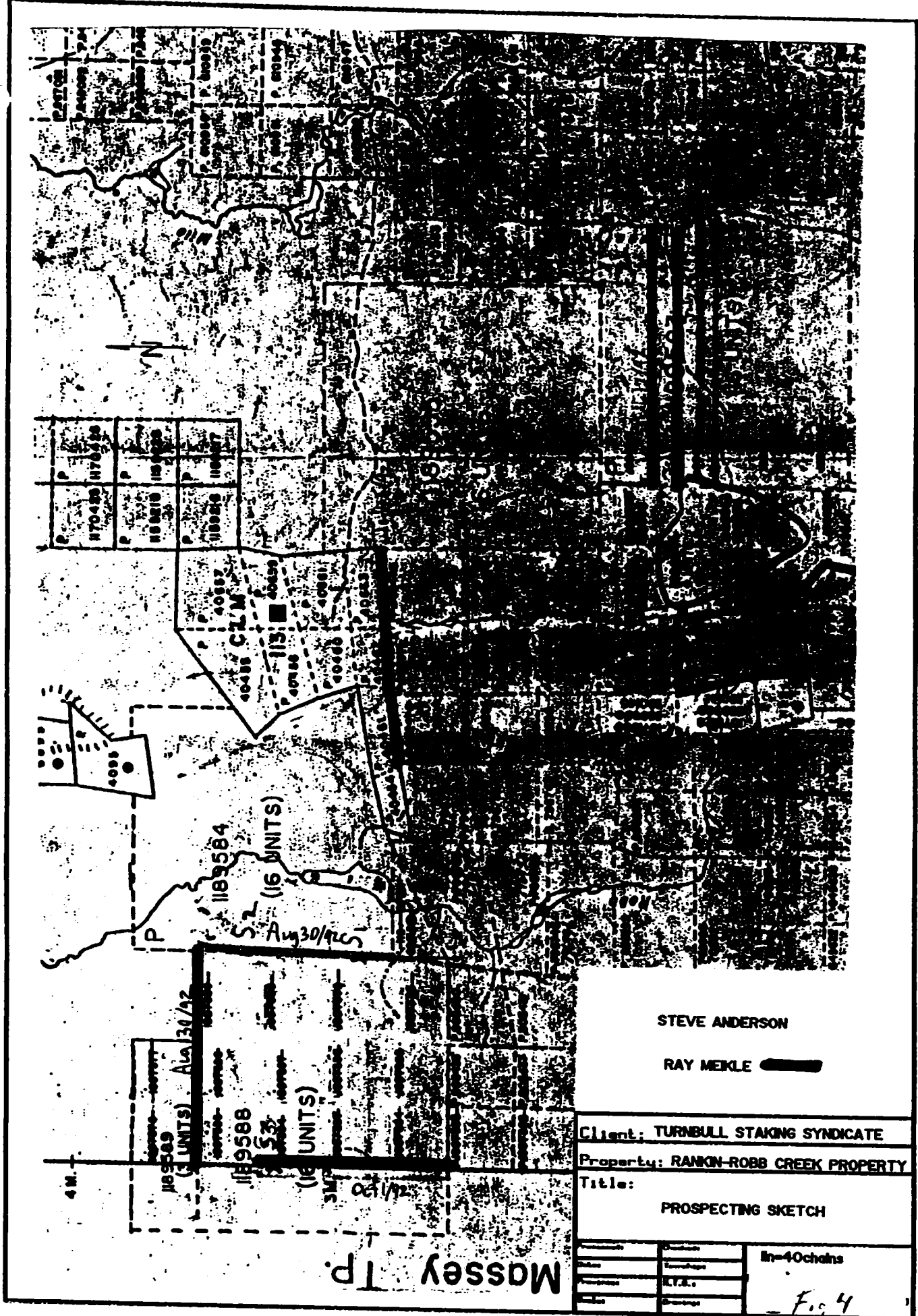


Carrollen, TP

Client: TURNBULL STAKING SYNDICATE
 Property: ROBB CREEK PROPERTY
 Title: CLAIM SKETCH

Scale	1 in = 40 chains
Projection	N.T.S.
Author	
Date	

FIG 3



STEVE ANDERSON

RAY MEKLE

Client:	TURNBULL STAKING SYNDICATE
Property:	RANKIN-ROBB CREEK PROPERTY
Title:	PROSPECTING SKETCH

Scale:	1 in = 40 chains
Fig. No.:	Fig 4

Massey T.P.

PREVIOUS WORK

Area No. 1

This area was previously covered by Dolbridge Mines who cut an EW grid with a NS BL base line with a line spacing of 400 feet. They performed a Magnetometer and VLF survey and detected two N-S mag trends approximately 400 feet east and west of the sulphide occurrence found by the current program near the No. 2 post of claim 1189016. A VLF conductor was outlined in the vicinity of the eastern magnetic trend.

Area No. 2

Conwest did a limited Max-Min survey in the area of the aforementioned AEM conductor using a 200 foot coil separation. The survey direction was N 20 degrees east and a broad HLEM conductor was found. One ddh #77-3 was drilled to test this conductor at an Azimuth of N 20 degrees east and a dip of -50 degrees. This hole intersected several very narrow Py and Po seams approximately 5" in a Gabbro unit close to the contact with a Quartz Diorite unit. The hole was drilled to a length of 425 feet. Condensed sections of the ore are stored at the Timmins MNDM Core Library.

SURVEY PARAMETERS

AREA NO. 1

Linecutting

Two old lines from the Dolbridge Mines survey, L 8400N were re-cut out and picketed. Line 8400N was re-done from 20E - 35E and L 9600N from 11E - 35E. The work was done by R. Meikle and S. Anderson in four man days, two days each. (see Fig. 4)

AREA NO. 2

Linecutting

A total of 12km of grid lines were cut to cover the strike length of the AEM conductor shown on MNDM Map No. 81076 (Fig. 5).

The base line was cut at an azimuth of 0 degrees TN starting at the number 2 post of claim 1189594 and extending north for 1000 meters to the west claim boundary at 100 meter line intervals with pickets every 25 meters. An on going logging operation was being conducted on the same area and this necessitated re-furbishing parts of the grid before surveying. The original linecutting was done by R. Meikle and S. Anderson between September 7, 1992 and September 22, 1992 for a total of 14 man days each. Re-furbishing parts of the grid were done by the same people between November 7, 1992 and November 10, 1992 for a total of 4 man days each. (Fig. 4)

I.P. Survey

Line 8400N was read from 20E - 35E and line 9600N from 11E - 35E with a Dipole-Dipole array I.P. survey. A brief description of the theory and method is as follows:

General IP Theory

The IP method involves applying voltage across two electrodes in a pulsed manner i.e. 2 seconds on, 2 seconds off. A second "dipole" or electrode pair, measures the residual potential or voltage between them after the voltage is shut off or during the 2 second off cycle. The potential is recorded at different times after the shut off. If, for example, there is sulphide mineralization within the measuring dipoles, they will be polarized or charges set up on the sulphide particles. This polarization gives the zone a capacitor effect, thereby blocking the current delay giving a higher chargeability reading.

A typical signature for many gold showings would be a chargeability high, resistivity high and magnetic low. This would be characteristic of a mineralized, highly altered carbonated and/or silicified zone. However, this is by no means the only geological setting for gold, therefore every profile should be looked at individually and correlated with all other geophysical-geological data.

Electrode Array

The electrode array used for the survey was the Dipole-Dipole Array. In this array two current electrodes (C1, C2) and two receiver or potential electrodes are moved down a line in unison. In this case the "a" spacing or distance between each dipole was fixed at 25 meters apart. For an N=1 reading, the closest C1 and P1 were 25m apart. The C1-C2 dipole remain in the same place while the potential dipole (P1-P2) moves ahead on "a" spacing and the array is ready for an N=1 reading.

IP Survey Parameters

The IP survey was carried out using the following parameters:

Method: Time Domain

Electrode Array: Dipole-Dipole

"a" spacing: 25 meters

Number of Dipoles Read: 1-4

Pulse Duration: 2 seconds on, 2 seconds off

Delay Time: 500 milliseconds

Integration Time: 420 milliseconds

Receiver: EDA IP-2

Transmitter: Scintrex IPC-9

Data Presentation: Psuedosections Plate 1 of 1

Magnetometer Survey

A total of 12km were covered by the magnetometer survey (entire grid). A brief description of the theory and methods employed is as follows:

MAGNETOMETER THEORY

An EDA Omni Plus Proton Precession magnetometer was used to carry out the magnetometer survey. The instrument is synchronized with an EDA recording base station to help eliminate magnetic diurnal variation. This should ensure an accuracy of less than 10 Nt.

The Proton Precession method involves energizing a wire coil immersed in a hydrocarbon fluid. This causes the protons in the proton rich fluid to spin or precess simulating spinning magnetic dipoles. When the current is removed the protons precess about the direction of the earth's magnetic field, generating a signal in the same coil which is proportional to the total magnetic field intensity. In this way, the horizontal gradient of the earth's magnetic field can be measured and plotted in plan form with values of equal intensity joined to form a contour map. This presentation is useful in correlating with other data sets to aid in structural interpretation. Individual magnetic responses can be interpreted for dip, depth and width estimates after profiling the data.

The following parameters were employed for the survey:

Instrument - EDA Omni Plus Proton Precession Magnetometer

Station Interval - 12.5m

Line Interval - 100m

Diurnal Correction Method - EDA Recording Base Station

Data Presentation - Robb Creek Contoured Magnetics Map 1

- 1:2500

- Contour interval = 20 nano-teslas

Time Domain EM Survey

Lines 200N, 400N, 600N and 800N were surveyed by R. Meikle and S. Anderson using a Geonics EM 37 Time Domain EM system. A large 300m x 600m loop of #10 gauge copper wire was laid out from BL 0/3N -9N and 3W/3N-9N. This loop was energized by the EM 37 transmitter and readings taken west of and normal to the long axis of the loop. The survey results were sent to H. Limion, Consulting Geophysists, Toronto, Ontario for plotting and interpretation. His report is found in Appendix A of this report.

RESULTS AND RECOMMENDATIONS

Area No 1

The only anomalous I.P. results apparent from the two lines surveyed are on L 9600N at 1700E where the chargeability is 8-9 x background. This area should be prospected in the spring to try to explain the cause of the higher chargeability which has the signature of disseminated sulphides.

Area No 2

As Mr. Limion reports, the AEM conductor was located and delineated. The Conwest drill hole appears to be located on the southern end of the conductor but could not be located. However, the drill hole azimuth was 020 degrees which is 20 degrees off the strike of the conductor which is N-S. This would explain the 100-200 foot estimated width from their Max-Min results which would be consistent with traversing the conductor at or very near down strike.

The magnetometer survey outlined a NW trending diabase dike on the east part of the grid. Of more importance is a magnetic "dipole" effect coincident with the ground conductor described in the "Limion Report". The signature of this magnetic anomaly is consistent with the shallow west dip of the conductor interpreted by Mr. Limion. There is a broad gradient on the west side with a magnetic low on the up dip or east side.

Because of the high conductivity-width of the EM conductor (75 mhos) it is our opinion that the narrow stringer of pyretite found in the Conwest drill core do not explain the causative source of the conductor. Also, the drill hole was drilled only 20 degrees off the strike of the conductor and as such a true cross-section was not obtained.

If the causative source of the conductor is indeed shallow dipping (approximately 45 degrees) to the west, it would be interesting to see if the conductor lies at the bottom contact of the Gabbro Sill, possibly in contact with a meta volcanic unit underneath.

A diamond drill hole drilled west to east, azimuth 090 degrees at -45 degrees is highly recommended to test the conductive response on L600W.

There are Cu, Zn values reported north and south of the conductor and some anomalous Cu values reported in the Conwest drill hole. The proximity to the Jamieson Mines in Godfrey Township would make this a high priority target. At the time of this writing, Falconbridge, Noranda, and Granges are reviewing the current survey results with consideration to optioning the property.

CERTIFICATION

I, Steve Anderson of Timmins, Ontario hereby certify that:

1. I hold a three year Technologist Diploma from Sir Sandford College , Lindsay, Ontario, obtained in May 1981.

2. I have been practising my profession since 1979 in Ontario, Quebec, Nova Scotia, New Brunswick, Newfoundland, NWT, Manitoba, and Saskatchewan.

3. I have been employed directly with Asamera Oil Inc. Urangellschaft Canada Ltd.. Nanisivik Mines Ltd., R.S. Middleton Exploration Services Ltd., and Rayan Exploration Ltd.

4. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience and on the results of the field work conducted on the property during 1992.

Dated this 21st day of January 1993
at Timmins, Ontario.

CERTIFICATION

I, Raymond Joseph Meikle of Timmins, Ontario hereby certify that:

1. I hold a three year Technologist Diploma from the Haileybury School of Mines, Haileybury, Ontario, obtained in May 1975.

2. I have been practising my profession since 1973 in Ontario, Quebec, Nova Scotia, New Brunswick, Newfoundland, NWT, Manitoba, Germany and Chile.

3. I have been employed directly with Teck Corporation, Metallgesellschaft Canada Ltd. Sabina Industries, .S. Middleton Exploration Services Ltd., self employed 1979-1985 (Rayan Exploration Ltd.) and currently with Rayan Exploration Ltd.

4. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience and on the results of the field work conducted on the property during 1992.

Dated this 21th day of January, 1993
at Timmins, Ontario.

R.J. Meikle

ROCK SAMPLE DESCRIPTIONS

<u>SAMPLE NO.</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
S-1	Quartz diorite	S 1/2 of East claim line of claim #1189588
S-2	Diorite	N1/2 of east claim line of claim #1189588
S-3	Porphy(chloritic)	Trench on Rankin Lake prop.
S-4	Float- felsic to int. frag. porphy	L96N/3150E claim #1189017
S-5	quartz vein in rhy.	N1/2 of east claim line of claim #1189579
S-6	quartz vein	"
S-7	mafic metavolcanic	75m west of P#2-1189570 Robb Twp.
S-8	Gabbro/amphibolite	50m south of P#1-1189571
S-9	mafic volc. altered to chlorite	P#2-1189017
S-10	felsic volcanic	center of north claim line of claim #1189591
S-11	quartz porphy	center of east claim line of claim #1189591
S-12	quartz porphy	center of west claim line of claim #1189591
S-13	quartz-diorite	900m south of P#4 of claim #1189595
S-14	gabbro	350m south of P#4 of claim #1189595

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9460.00041

M.L.

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 8A5, telephone (705) 670-7284.

2. 15433

- Instructions:
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for recording.
 - A separate copy of this form must be completed.
 - Technical reports and maps must accompany this form.
 - A sketch, showing the claims the work is assigned to, must be attached.



900

Recorded Holder(s) <i>Steve Anderson</i>	Client No. <i>117430</i>
Address <i>780 McClinton Dr. Timmins</i>	Telephone No. <i>218-2851</i>
Mining Division <i>Pavey</i>	Township/Area <i>Turnbull</i>
Date Work Performed From: <i>May 42</i> To: <i>Dec 42</i>	<i>Nov 24/92</i>

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	<i>Prospecting, mapping, IP, ...</i>
Physical Work, Including Drilling	
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

2679 RECEIVED
MAY 1994
MINING DIVISION

RECORDED
MAR 22 1994
Receipt

Total Assessment Work Claimed on the Attached Statement of Costs \$ 14360

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
<i>Steve Anderson</i>	<i>780 McClinton Dr. Timmins</i>
<i>Roy Stickle</i>	<i>676 Murray St. Timmins</i>

Attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date <i>March 22/94</i>	Recorded Holder or Agent (Signature) <i>Steve Anderson</i>
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Certification of Work Report

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

Name and Address of Person Certifying
Steve Anderson

License No. <i>218-2851</i>	Date <i>March 21/94</i>	Certified By (Signature) <i>Steve Anderson</i>
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Ministry Office Use Only

Total Value Cr. Recorded <i>\$14,360</i>	Date Recorded <i>MAR 22, 1994</i>	Mining Recorder <i>[Signature]</i>	Received Stamp <i>[Stamp]</i>
	Deemed Approval Date <i>JUNE 20, 1994</i>	Date Approved	
	Date Notice for Amendments Sent		



**Statement of Costs
for Assessment Credit**

**État des coûts aux fins
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W9460.00041

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7284.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adressez toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7284.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	11,100	11,100
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type		11,100
	1,000.00		
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			11,100

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valueur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below.

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valueur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as _____ I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9460.00042

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Toronto, Ontario, PSE 6A5, telephone (705) 670-7284.

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

2,15433

Recorded Holder(s) <i>Steve Anderson</i>	Client No. <i>112430</i>
Address <i>780 McChurk Dr. Timmins Ont</i>	Telephone No. <i>368-2851</i>
Mining Division <i>Porcupine</i>	Township/Area <i>Timbell Twp</i>
Date Work Performed From: <i>Aug 92</i> To: <i>Dec 92</i>	

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	<i>Progress, LP</i>
Physical Work, including Drilling	
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

RECORDED

MAR 22 1994

Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
<i>Steve Anderson</i>	<i>780 McChurk Dr. Timmins</i>
<i>Ray Mickle</i>	<i>626 Murray St. Timmins</i>

(attach a schedule if necessary)

Verification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <i>March 22/94</i>	Recorded Holder or Agent (Signature) <i>[Signature]</i>
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Verification of Work Report

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

Name and Address of Person Certifying <i>Steve Anderson 780 McChurk Dr. Timmins</i>		
Response No. <i>268-2851</i>	Date <i>Nov. 1. 21/94</i>	Certified By (Signature) <i>[Signature]</i>

Recorder Office Use Only

Total Value Cr. Recorded <i>\$4,950</i>	Date Recorded <i>MAR 22, 1994</i>	Mining Recorder <i>[Signature]</i>	Received Stamp <i>[Stamp]</i>
	Deemed Approval Date <i>JUNE 20, 1994</i>	Date Approved	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1133235	1
	1133236	1
	1133222	1
	1133 223	1
	1133 224	1
	1133225	1
	1133 226	1
	1133 227	1
	1133 228	1
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
\$50	\$50
\$50	\$50
\$50	\$50
\$50	\$50
\$50	\$50
\$50	\$50
\$50	\$50
\$50	\$50
\$50	\$50
\$50	\$50
Total Value Work Done	
Total Value Work Applied	

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	
Total Reserve	

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1. Credits are to be cut back starting with the claim listed last, working backwards.
2. Credits are to be cut back equally over all claims contained in this report of work.
3. Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
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Statement of Costs for Assessment Credit
 État des coûts aux fins du crédit d'évaluation

Transaction No./N° de transaction
 W9460.00042

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and the going status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages salaires	Labour Main-d'oeuvre	14000	151
	Field Supervision Supervision sur le terrain	11	
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-consultant	Type 711		1100
Supplies Used fournitures utilisées	Type		
Equipment Rental location de matériel	Type		
Total Direct Costs Total des coûts directs			1750

2. Indirect Costs/Coûts indirects

Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démoblisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Timing Discounts

Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
 Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

I, _____, I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente: que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

to make this attestation.

Signature	Date
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Report of Work Conducted After Recording Claim

Transaction Number
W9460.00043

Mining Act

Information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 150 Cedar Street, Toronto, Ontario, P3E 6A5, telephone (705) 670-7284.

2.15433

- Instructions:
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) Steve Anderson	Client No. 102430
Address 780 McClintock Dr Timmins	Telephone No. 268-2851
Mining Division Porcupine	Township/Area Robb
Date Work Performed From: May 92 To: Dec 92	CT 11/92

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	Prospectus
Physical Work, including Drilling	
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

RECORDED
MAR 22 1994
 Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ 300

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Steve Anderson	780 McClintock Dr. Timmins
Ray Muckle	676 Murray St. Timmins

attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date: March 22/94 Recorded Holder or Agent (Signature): [Signature]

Certification of Work Report

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

Name and Address of Person Certifying: Steve Anderson 780 McClintock Dr. Timmins

Telephone No.: 268-2851 Date: March 21/94 Certified By (Signature): [Signature]

For Office Use Only

Total Value Cr. Recorded <u>\$300</u>	Date Recorded <u>MAR 22, 1994</u>	Mining Recorder	Received Stamp
	Deemed Approval Date <u>JUNE 30, 1994</u>	Date Approved	
	Date Notice for Amendments Sent		

Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1189570	1
	1189571	2
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
150	150
150	150
Total Value Work Done	
300	
Total Value Work Applied	
300	

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	
Total Reserve	

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
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Statement of Costs
for Assessment Credit

État des coûts aux fins
du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction
W9460.00043

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 150 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 150, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type		
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			300

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)		Value totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below.

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Value totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as _____ I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature _____ Date _____

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9460.00044

Information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 158 Cedar Street, Sarnia, Ontario, P3E 8A5, telephone (705) 670-7264.

2.15433

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) Steve Anderson	Client No. 02438
Address 780 McClellan Dr. Timmins	Telephone No. 268-2851
Mining Division Geology	Township/Area Timbell/1972261
Work performed From: May 1992 To: Dec 13/92	M or G Plan No.

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	Prospecting, Mapping, Sample Analysis & report
Physical Work, Including Drilling	
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

RECORDED
MAR 22 1994

Receipt _____

a) Assessment Work Claimed on the Attached Statement of Costs \$ 3424

b) The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Steve Anderson	780 McClellan Dr. Timmins
Ray Mickle	676 Murray St. Timmins

(Attach a schedule if necessary)

Declaration of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest in the current recorded holder.

Date March 22/94	Recorded Holder or Agent (Signature) Steve Anderson
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Declaration of Work Report

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

Name and Address of Person Certifying
Steve Anderson, 780 McClellan Dr. Timmins

Phone No. 268-2851	Date March 21/94	Certified By (Signature) Steve Anderson
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Office Use Only

Total Value Cr. Recorded <u>03,424</u>	Date Recorded MAR 22 1994	Mining Recorder <i>[Signature]</i>	Received Stamp
	Deemed Approval Date JUNE 20 1994	Date Approved	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1189588	16
Total Number of Claims		

Value of Assessment Work Done on this Claim	Value Applied to this Claim
3424	3424
Total Value Work Done	
Total Value Work Applied	

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	
Total Reserve	

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1. Credits are to be cut back starting with the claim listed last, working backwards.
2. Credits are to be cut back equally over all claims contained in this report of work.
3. Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
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**Statement of Costs
for Assessment Credit**

**État des coûts aux fins
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W9460.00044

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	1,100.00	1,100.00
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type: 100.00/10.00		110.00
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			341.24

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valueur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Claiming Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown in the accompanying Report of Work form.

That as [Signature] I am authorized
(Recorded Holder, Agent, Position in Company)

To make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de [Signature] je suis autorisé
(Titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
-----------	------

Note: Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé à moins qu'il



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Office
933 Ramsey Lake Rd., 6th Flr
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

Our File: 2.15433
Transaction #: W9460.00041
W9460.00042
W9460.00043
W9460.00044

June 3, 1994

Mining Recorder
Timmins

Dear Mr. White:

**RE: Approval of Assessment Work on mining claims 1189017 et al. in
Turnbull and Robb Townships.**

The assessment credits for prospecting and geophysics, sections 9 and 14 of the Mining Act Regulations, as listed on the original Report of Work, have been approved as of June 3, 1994.

Please indicate this approval on the claim record sheets.

If you have any questions concerning this submission please contact Dale Messenger at 670-5858.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

DEM/vni
Enclosures:

cc: ↓ Assessment Files Office
Sudbury, Ontario

Resident Geologist
Timmins, Ontario

CÔTÉ TWP - M.271

THE TOWNSHIP OF
OF

MASSEY

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- LOCATED LAND (Loc)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED HEADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES

Surface rights restriction around all lakes and rivers.

THIS TWP SUBJECT TO FOREST ACTIVITY IN 1994/95. FURTHER INFORMATION AVAILABLE ON FILE.

MINING APPLICATION UNDER THE AGGREGATE RESOURCES ACT. NOTICE RECEIVED 8-NOV-92.

(FI) THIS TWP SUBJECT TO FOREST ACTIVITIES IN 1994/95. FURTHER INFORMATION AVAILABLE ON FILE.

ISSUED

NOV 04 1994

PORCUPINE MINING DIVISION

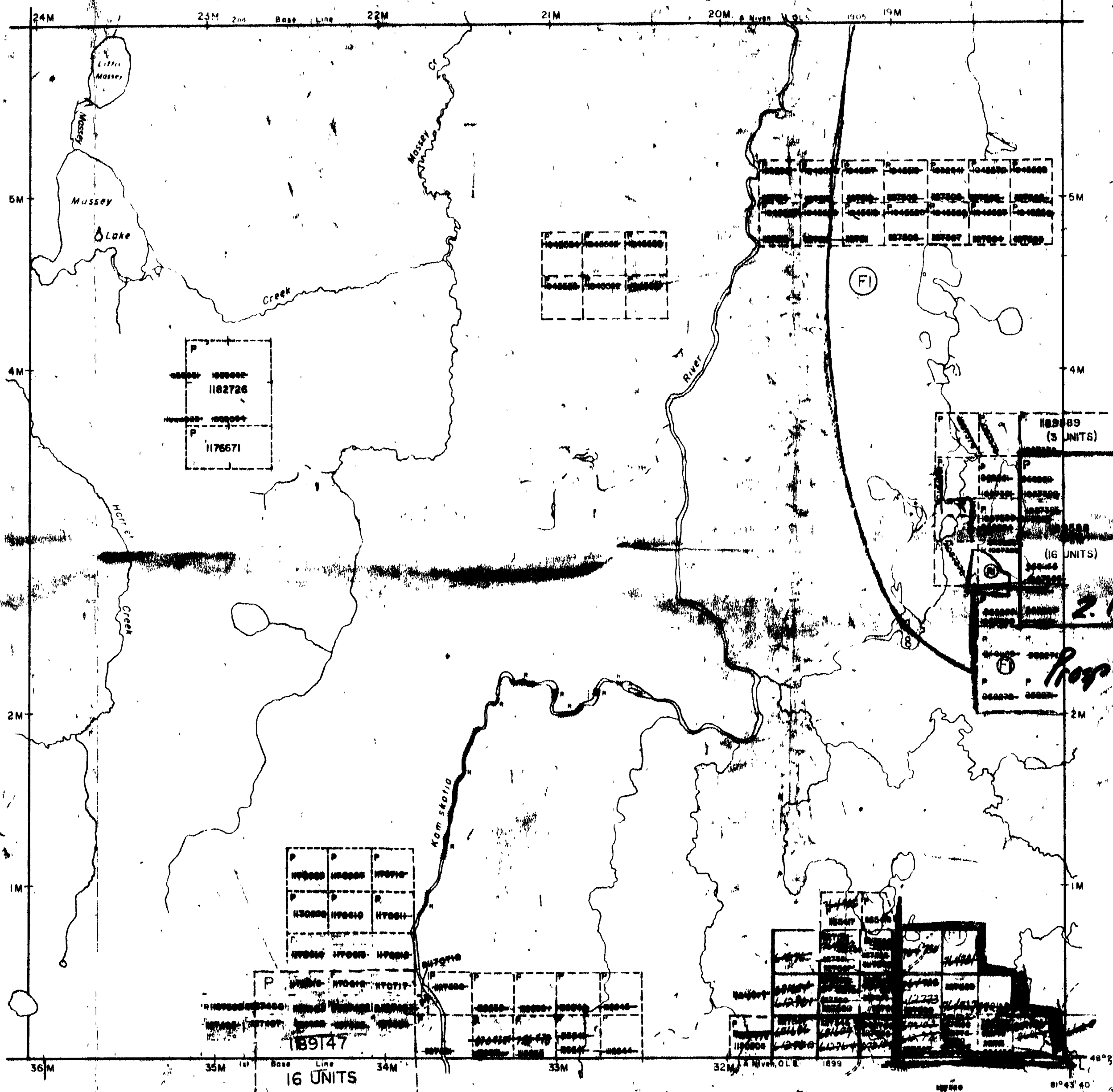
PLAN NO. *Rec'd 10/11/94* M.296

DEPARTMENT OF MINES

— ONTARIO —

EMM TWP - M.788

TURNBULL TWP - M.316



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WHO WISH TO STAKE MINING CLAIMS SHOULD CONSULT THE RECORDS OF THE NORTHWESTERN DISTRICT OF ONTARIO ON LAND.

WHITESIDES TWP - M.318



42A1251 0002 2 15433 TURNBULL

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

(F1) THIS TWP SUBJECT TO FOREST ACTIVITY IN 1994/95
FURTHER INFORMATION AVAILABLE ON FILE.

(R1) - MINING RIGHTS ONLY WITHDRAWN FROM PROSPECTING
STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE
MINING ACT R.S.O. 1990 DATED 92-MAY-27 AT 12:03 P.M.
E.S.T. ORDER NO. W4926192 NER

(R2) - AGGREGATE PERMIT - NOTICE RECEIVED JUNE 16, 1993

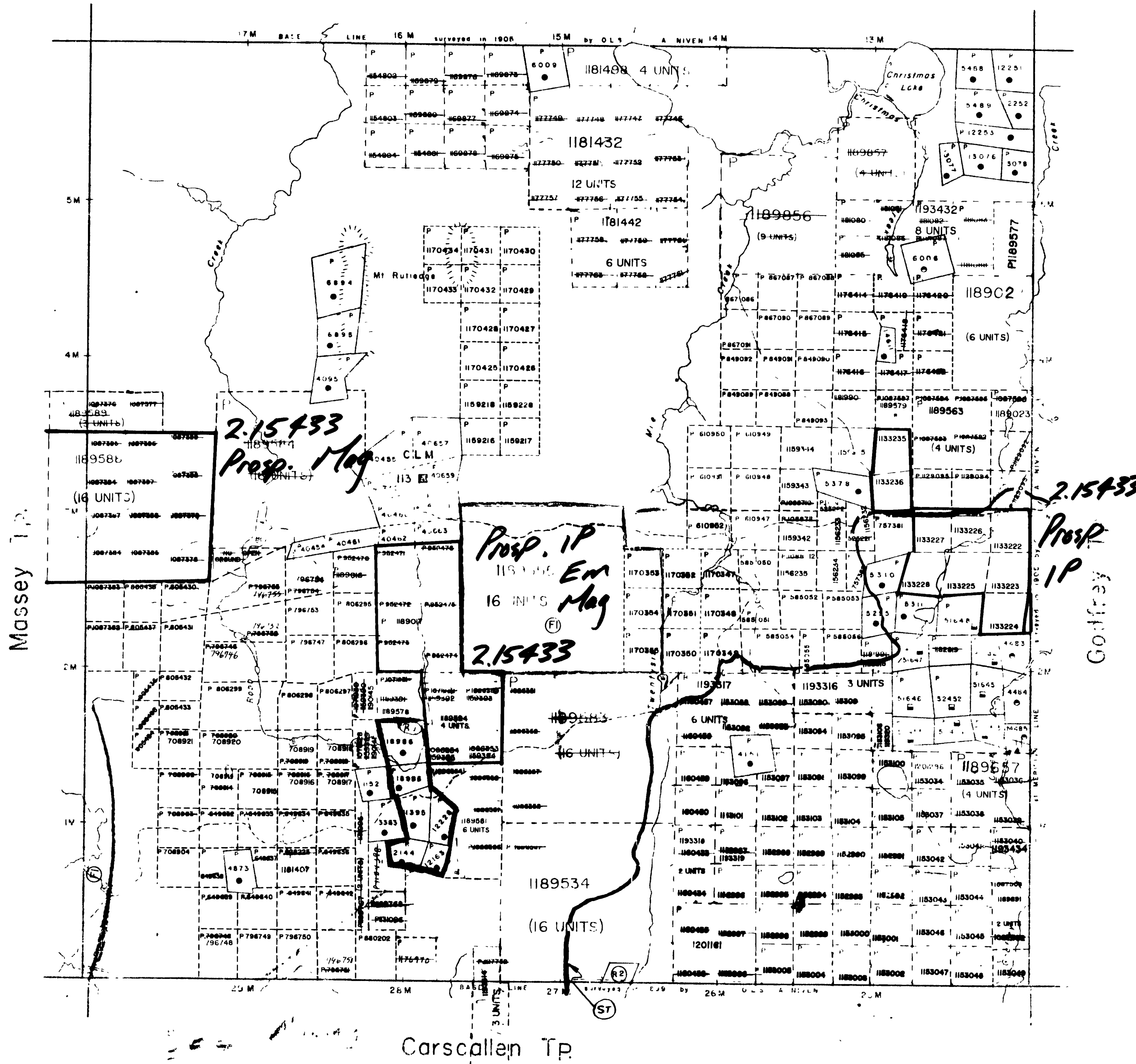
NOTES

THIS TOWNSHIP LIES WITHIN THE MUNICIPALITY
OF THE CITY OF TIMMINS

(ST) - PROPOSED SNOWMOBILE TRAIL
NOTICE REC'D 93-MAY-20

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

Robb Tp



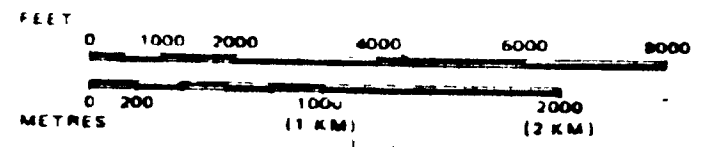
- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC
- LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSHPOUR 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 1 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 390, SEC. 63 SUBSEC 1

SCALE 1 INCH = 40 CHAINS



TOWNSHIP PORCUPINE MINING DIVISION

TURNBULL
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources Land Management Branch

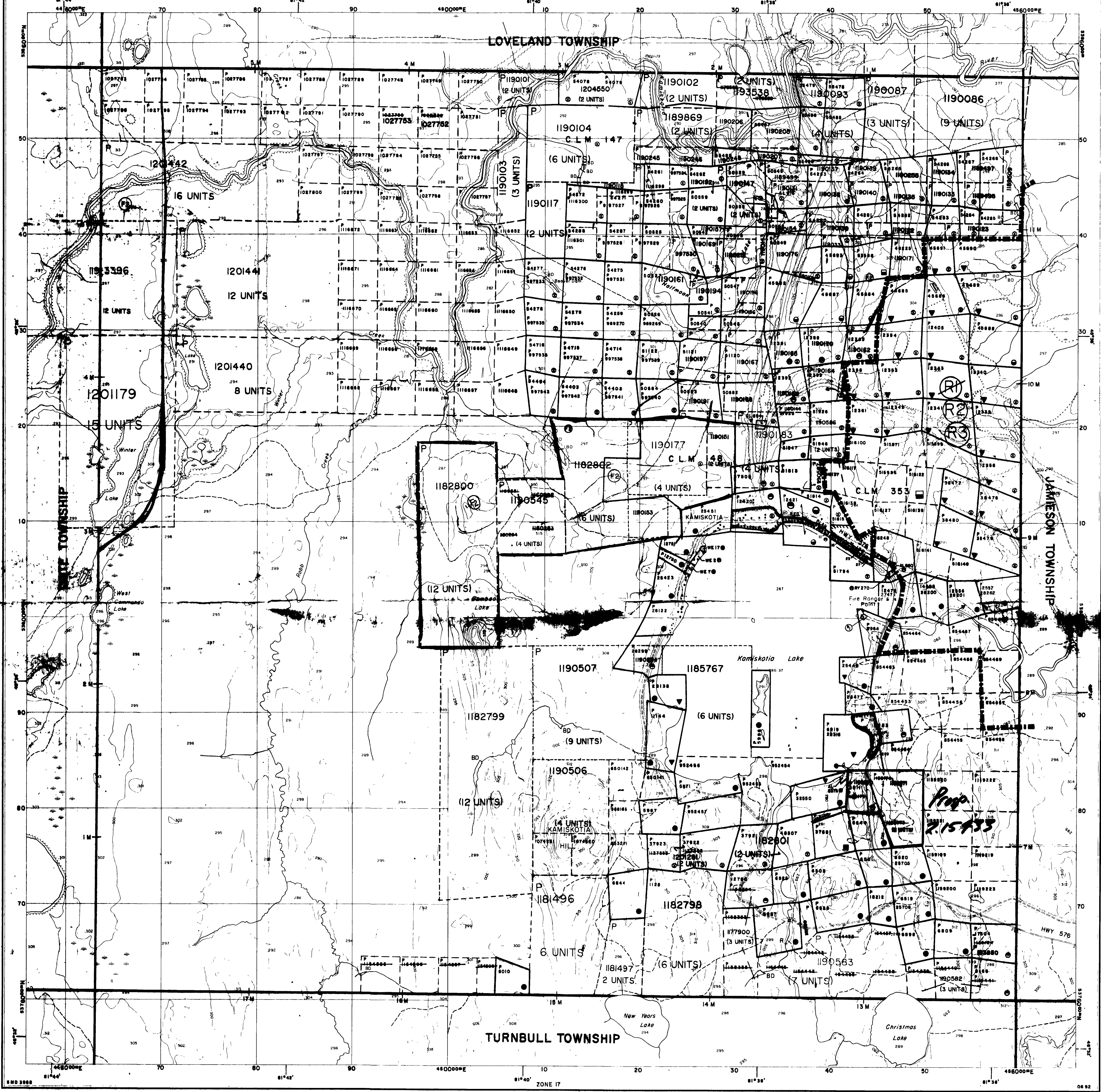
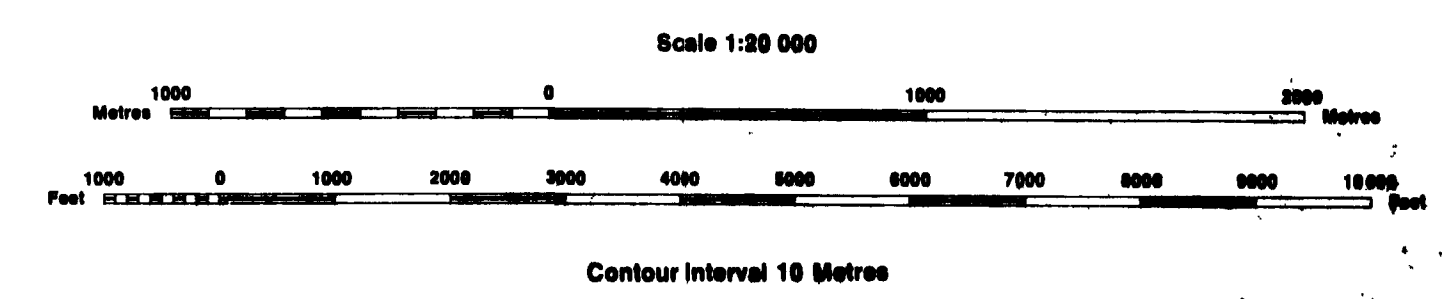
Date MARCH, 1985 Number G-3250
ACTIVATED JANUARY 30, 1990



INDEX TO LAND DISPOSITION

PLAN
G-3968
 TOWNSHIP
ROBB

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
 MINING DIVISION
PORCUPINE
 LAND TITLES/REGISTRY DIVISION
COCHRANE



AREAS WITHDRAWN FROM DISPOSITION
 MRO - Mining Rights Only
 SRO - Surface Rights Only
 M + S - Mining and Surface Rights

Description	Order No.	Date	Disposition	File
M.N.R. RESERVE				

SYMBOLS

Boundary	.....
Township, Meridian, Baseline	.....
Road allowance; surveyed shoreline	.....
Lot/Concession, surveyed	.....
Lot/Concession, unsurveyed	.....
Parcel; surveyed	.....
Parcel; unsurveyed	.....
Right-of-way; road	.....
railway	.....
utility	.....
Reservation	.....
Cliff, Pit, Pile	.....
Contour	.....
Interpolated	.....
Approximate	.....
Depression	.....
Control point (horizontal)	.....
Pipeline (above ground)	.....
Railway; single track	.....
double track	.....
abandoned	.....
Road; highway, county, township	.....
access	.....
trail, bush	.....
Shoreline (original)	.....
Transmission line	.....
Wooded area	.....

ISSUED
 17 JUL 1994
 PORCUPINE MINING DIVISION

THIS TWP. IS SUBJECT TO FOREST ACTIVITY IN 1988-89. FURTHER INFORMATION AVAILABLE ON FILE.

PLANS OF SUBDIVISION - NOT OPEN FOR STAKING

PROPOSED SURFACE RIGHTS DISPOSITION UNDER THE P.L.A. - NOTICE RECEIVED MARCH 7, 1991

THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1994/95. FURTHER INFORMATION ON FILE.

MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 28 OF THE MINING ACT, R.S.O. 1990 UNDER NO. M-1-88/90 THE DATED 17.03.88. SAVERS AND DESCRIBED THE MINING RIGHTS ONLY OF S.L.S. WORK AND LEASES AS SHOWN CONTAINED WITHIN C.L.S. 281.

MINING AND SURFACE RIGHTS RE-OPENED UNDER SECTION 28 OF THE MINING ACT, R.S.O. 1990 UNDER NO. M-1-88/90 THE DATED 17.03.88. SAVERS AND DESCRIBED THE MINING RIGHTS ONLY OF S.L.S. WORK AND LEASES AS SHOWN CONTAINED WITHIN C.L.S. 281.

DISPOSITION OF CROWN LANDS

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	.....
Cancelled	.....
Reservation	.....
Sand & Gravel	.....

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

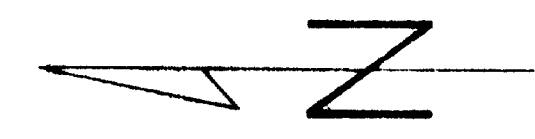
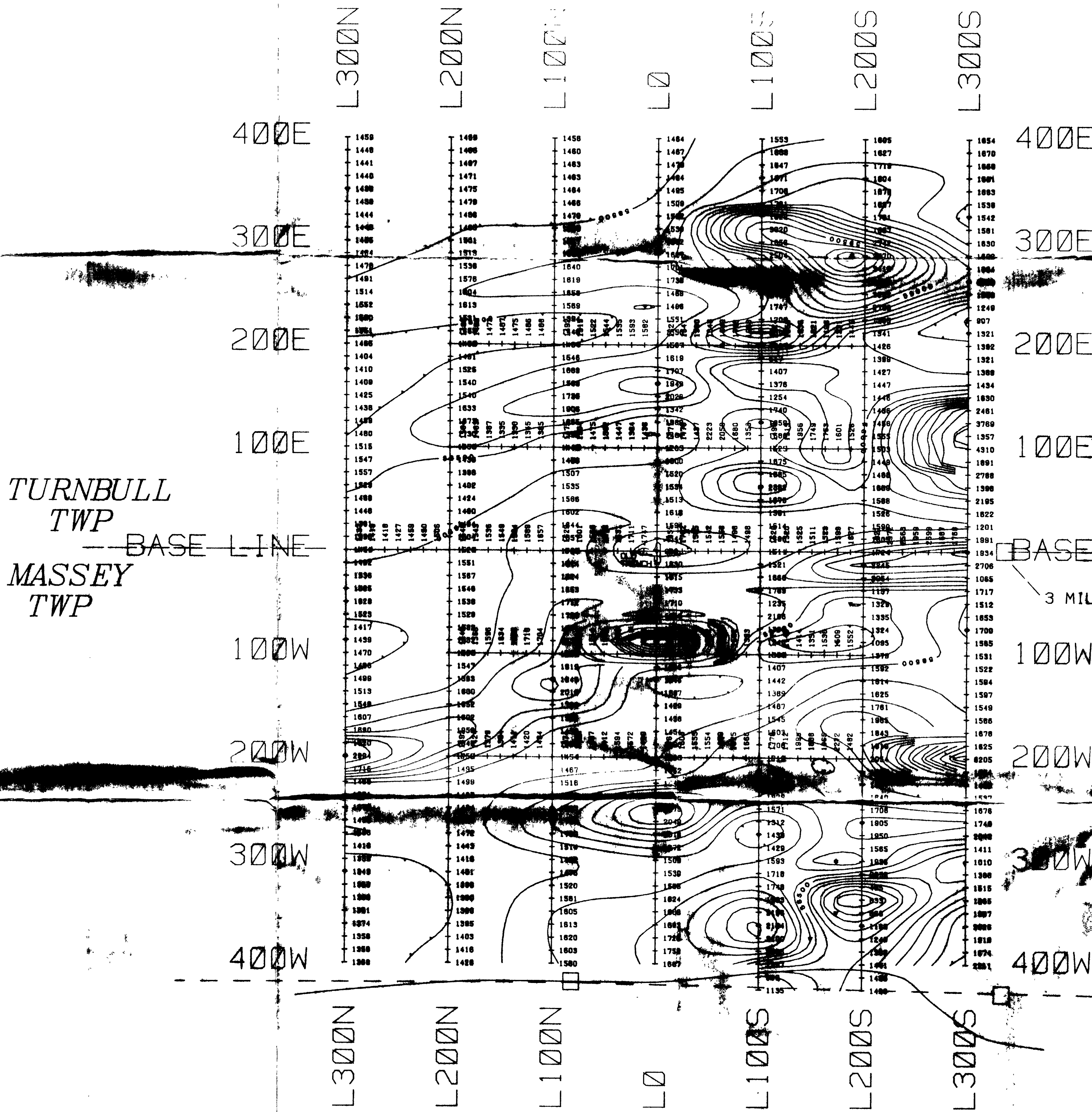
ACTIVATED AUGUST 13, 1992
 BY D.C.
 CHECKED BY G.W.

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

3968

CLAIM # 1184558 (10000000)

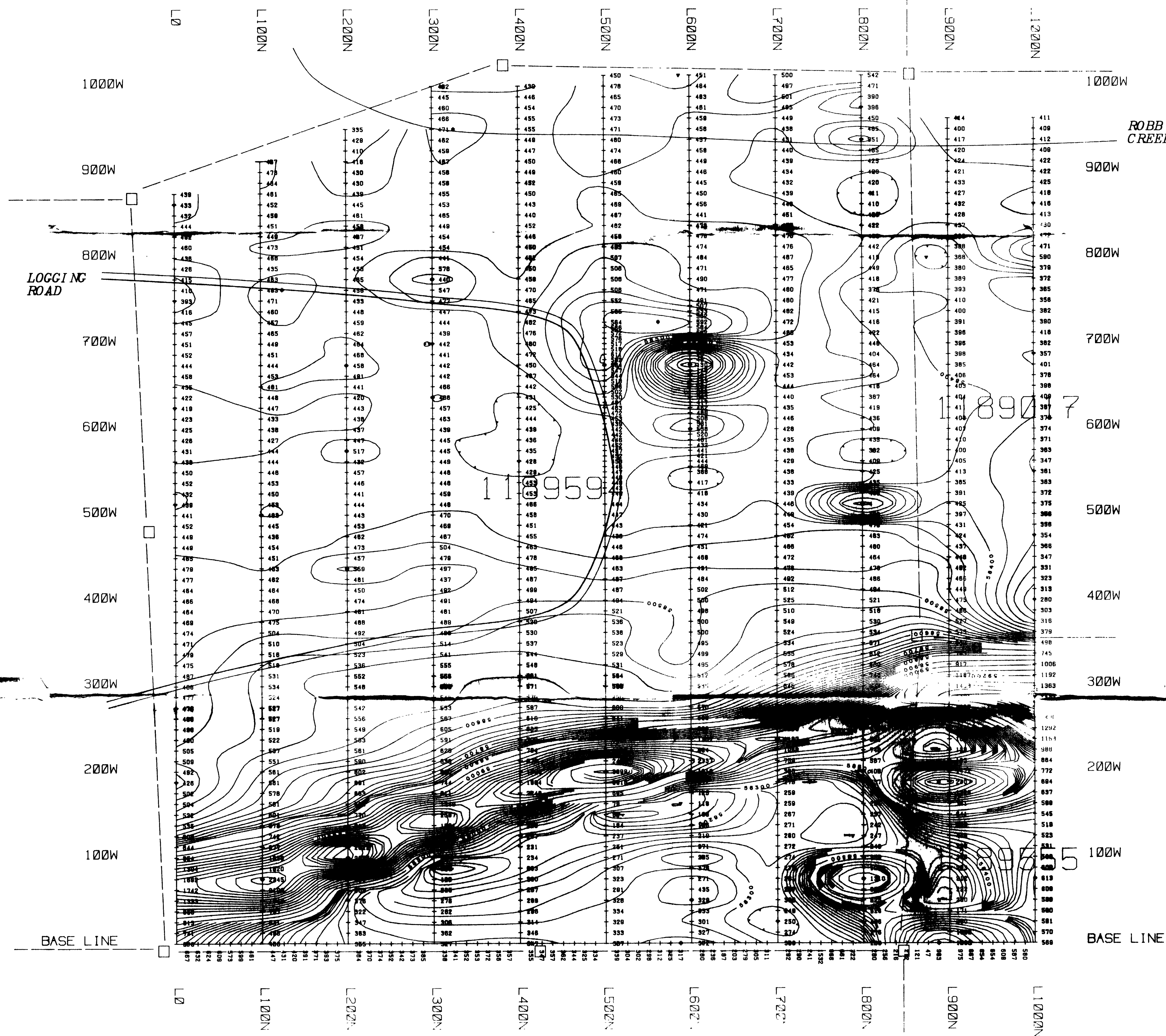


INSTRUMENT: EDA OMNI PLUS
 DIURNAL CORRECTION: BASE STATION
 READING INTERVAL: 12.5 METERS
 DATUM SUBTRACT: 57.000 NANO-TESLAS
 CONTOUR INTERVAL: 100 NANO-TESLAS
 • MAGNETIC HIGH
 • MAGNETIC LOW

2. 15433

TURNBULL STAKING SYNDICATE		
RANKIN LAKE PROPERTY		
Title: TOTAL FIELD MAGNETICS		
DATE: JAN/93	SCALE: 1:2500	N.T.S.: 42A/SW
DRAWN BY: SDA	FILE: M-1	FIG. M-1





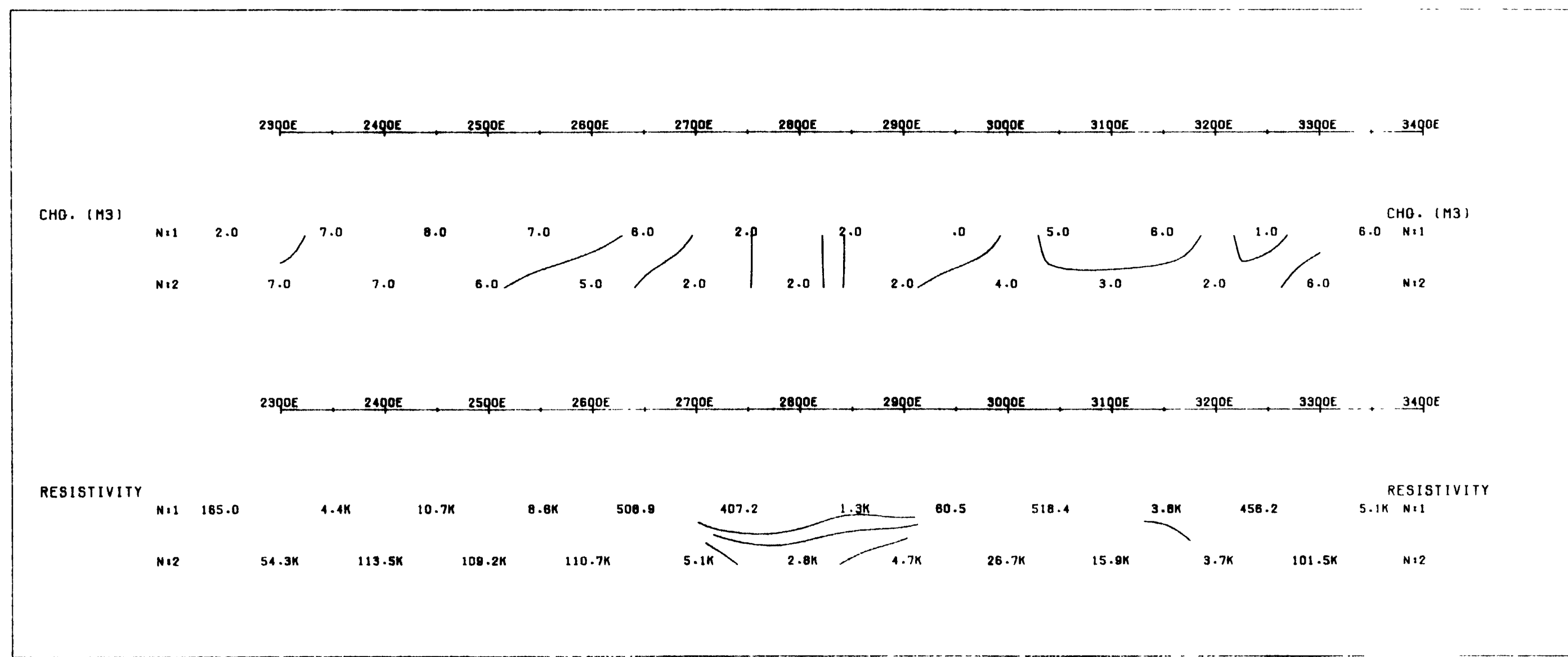
INSTRUMENT: EDA OMNI PLUS
 DIURNAL CORRECTION: OMNI IV BASE STATION
 READING INTERVAL: 12.5 METERS
 DATUM SUBTRACT: 58,000 NANO-TESLAS
 CONTOUR INTERVAL: 20 NANO-TESLAS
 • MAGNETIC HIGH
 • MAGNETIC LOW



D. 15433

TURNBULL STAKING SYNDICATE	
ROBB CREEK PROPERTY	
TOTAL AREA: 1000.00	
1000.00	1000.00
1000.00	1000.00





LINE : 8400 N

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY

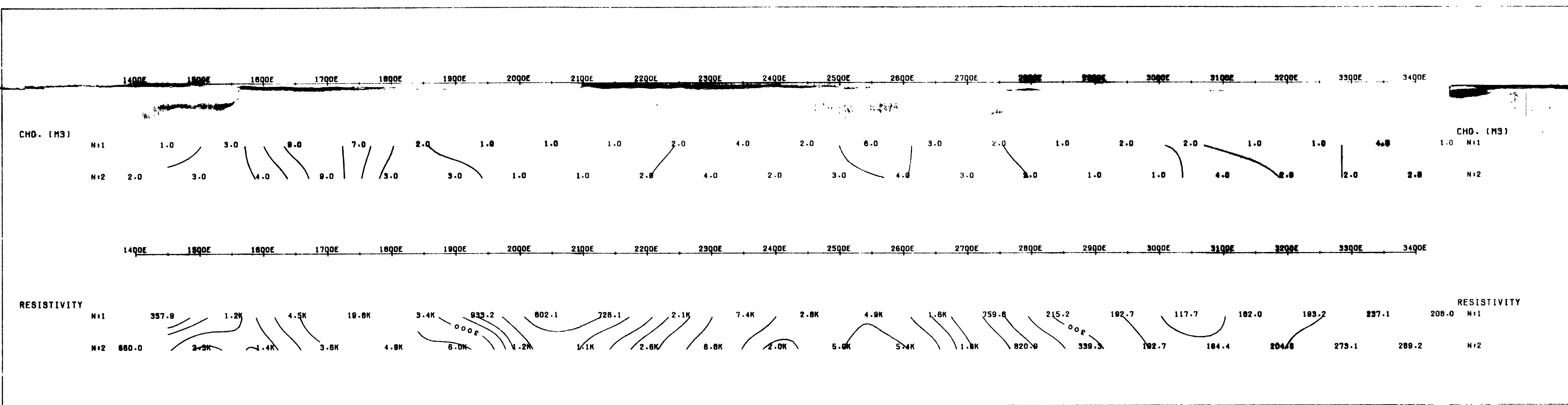
TURNBULL STAKING SYND.

ROBB CREEK PROPERTY

TURNBULL TOWNSHIP

DATE : 1992 REF : TSS

SCALE = 1:1250.0



LINE : 9600 N

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY

TURNBULL STAKING SYND.

ROBB CREEK PROPERTY

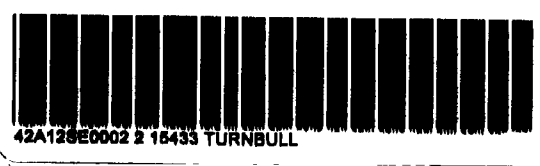
TURNBULL TOWNSHIP

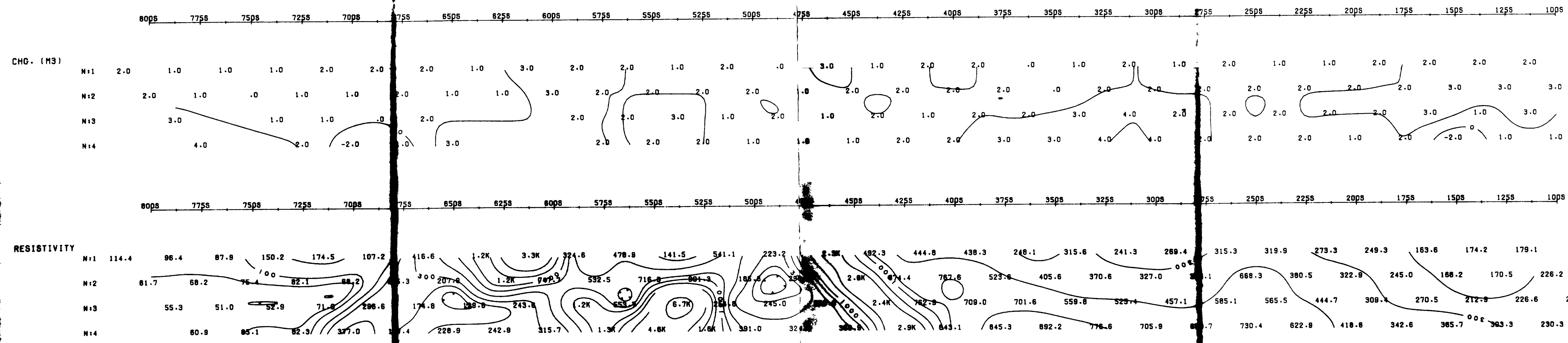
DATE : 1992 REF : TSS

SCALE = 1:1250.0

ROBB CREEK AREA
I.P. PSEUDOSECTIONS
PLATE 1 OF 1

2. 15433





CHO. (MS)
 N11
 N12
 N13
 N14

RESISTIVITY
 N11
 N12
 N13
 N14

LINE : 700 E

INDUCED POLARIZATION SURVEY

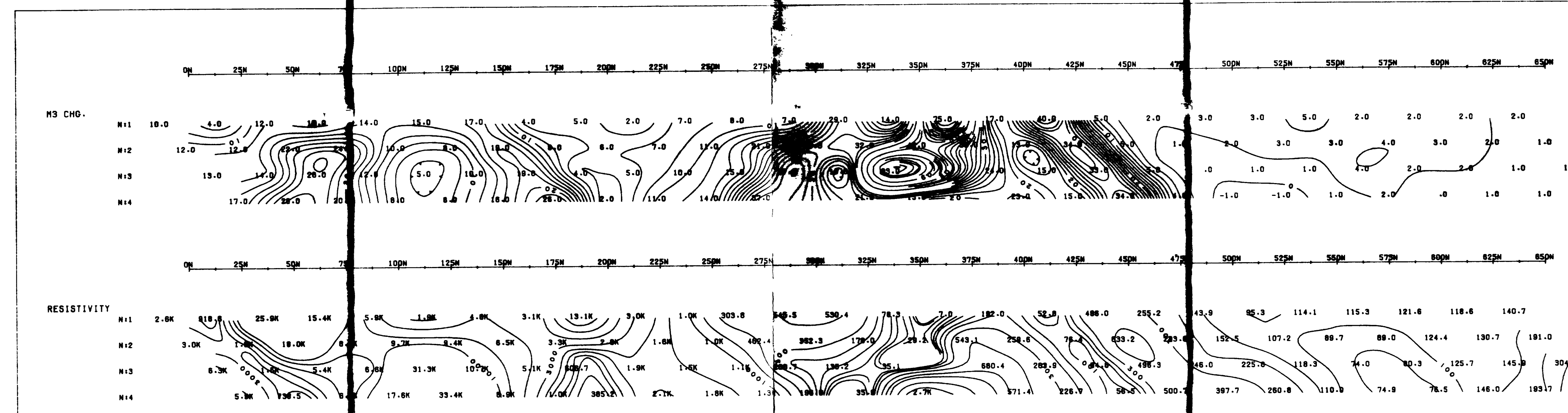
DIPOLE-DIPOLE ARRAY

DEPTH POINT
 N = 1, 2, 3, 4, ...
 "M" SPACING = 25.0 METRES

TURNBULL STAKING SYND.
 TURNBULL EAST PROPERTY
 TURNBULL TOWNSHIP

DATE : 1992 REF : TSS

SCALE = 1:1250.0



MS CHO.
 N11
 N12
 N13
 N14

RESISTIVITY
 N11
 N12
 N13
 N14

LINE : 700 W

INDUCED POLARIZATION SURVEY

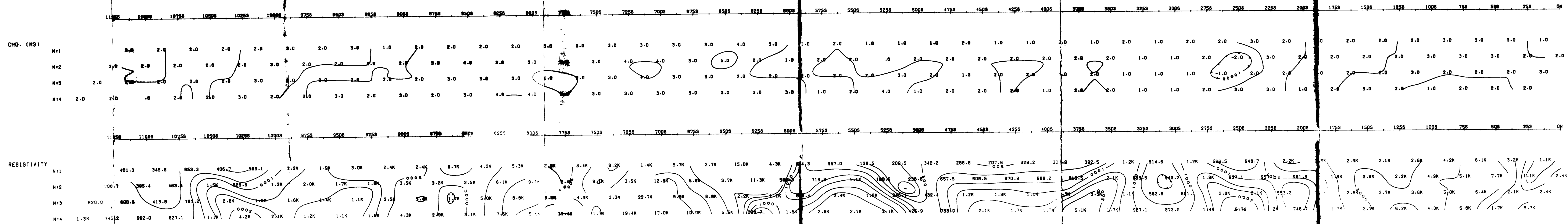
DIPOLE-DIPOLE ARRAY

DEPTH POINT
 N = 1, 2, 3, 4, ...
 "M" SPACING = 25.0 METRES

TURNBULL STAKING SYND.
 TURNBULL EAST PROPERTY
 TURNBULL TOWNSHIP

DATE : SEPT 92 REF : TSS

SCALE = 1:1250.0



CHO. (MS)
 N11
 N12
 N13
 N14

RESISTIVITY
 N11
 N12
 N13
 N14

LINE : 900 E

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY

DEPTH POINT
 N = 1, 2, 3, 4, ...
 "M" SPACING = 25.0 METRES

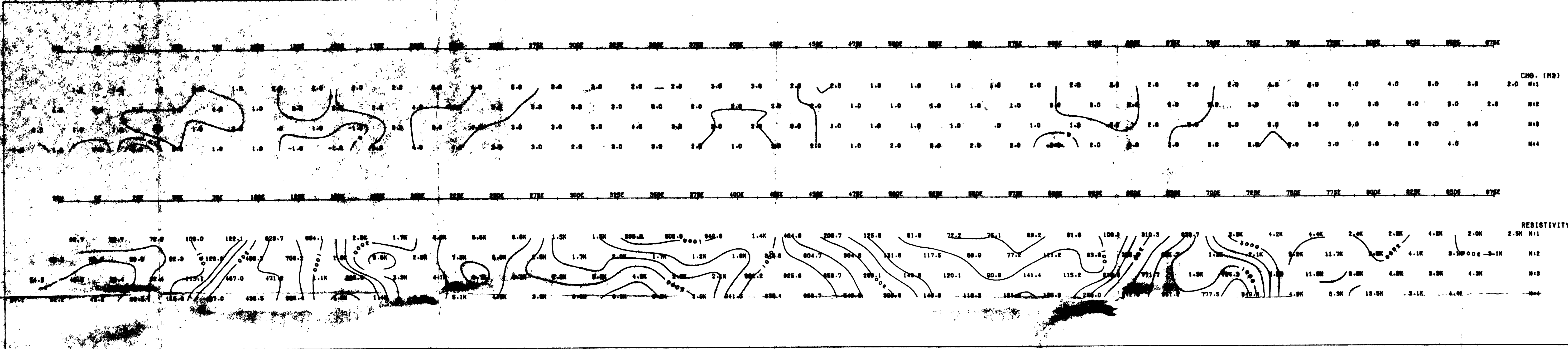
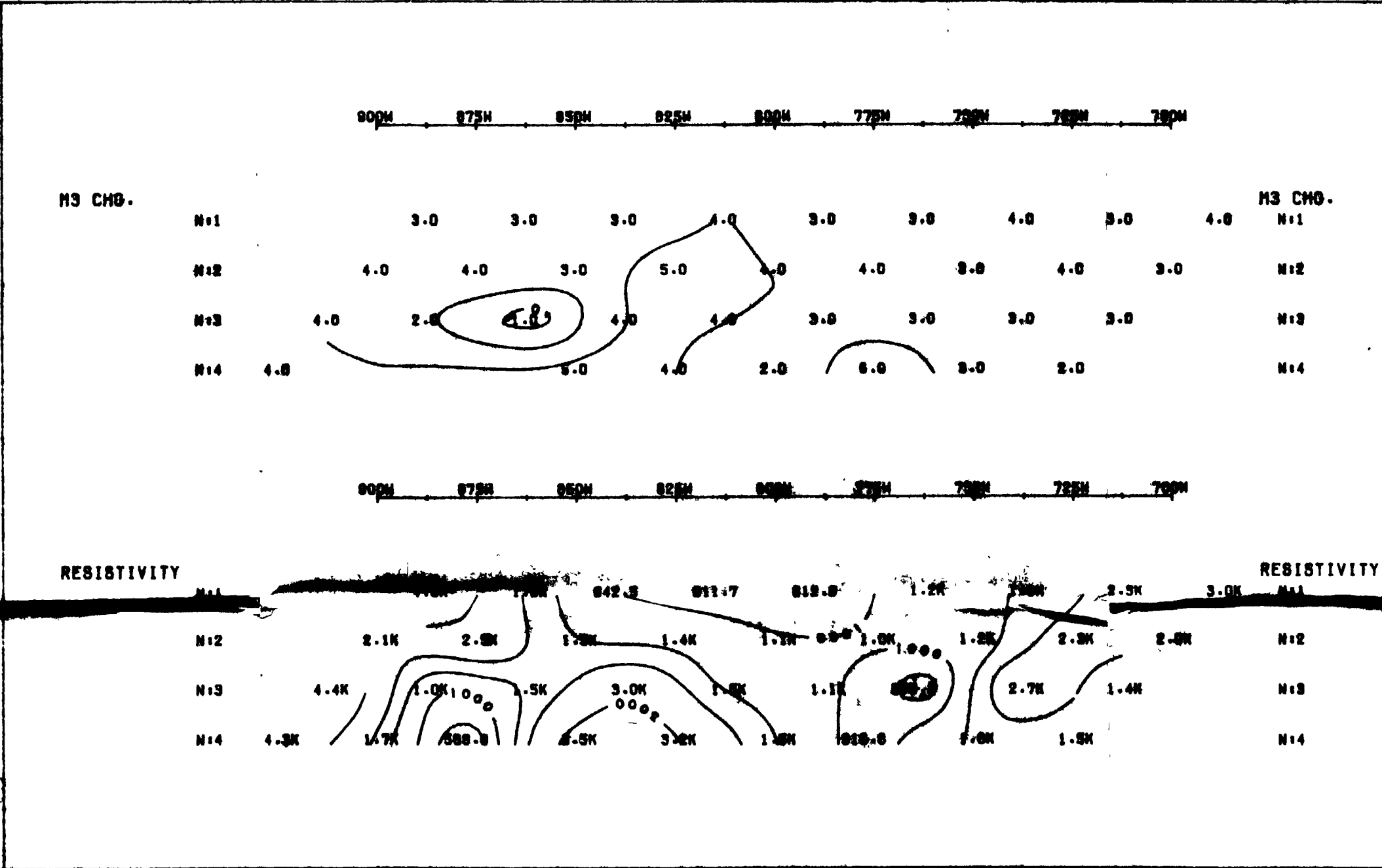
TURNBULL STAKING SYND.
 TURNBULL EAST PROPERTY
 TURNBULL TOWNSHIP

DATE : SEPT 92 REF : TSS

SCALE = 1:1250.0

12.15433

5



TURNBULL EAST PROPERTY
I.P. PSUEDOSECTION
PLATE 2 OF 2

2.15433