



52F05NE0013 2.7704 ATIKWA LAKE (GRAPNEL

010

REPORT ON
AIRBORNE MAGNETIC AND VLF EM SURVEY
ROWAN LAKE AREA
KENORA MINING DIVISION, ONTARIO

for

Mr. Wayne Whymark

RECEIVED

JAN 25 1985

MINING LANDS SECTION

by

TERRAQUEST LTD.
Toronto,

January 18, 1985



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Appendix A - Instrument Specifications

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Figure 1 - Location Map

Figure 2 - Claim Map

Maps in Jacket:

- 409-1 Total Magnetic Field
- 409-2 Vertical Magnetic Gradient
- 409-3 VLF Contours and Profiles
- 409-4 Interpretation

1. INTRODUCTION

A combined airborne magnetic and VLF EM survey was carried out on a block of 118 claims in three separate blocks located in Rowan Lake Area, in the Kenora Mining Division, Ontario. The claim holder is Mr. Wayne Whymark, 8 King Street East, Toronto, Ontario. The work was carried out by Terraquest Ltd., 111 Richmond Street West, Toronto during the period Nov. 24, 1984 to Jan. 18, 1985.

The purpose of the survey was to explore for shear zones, faults, and other structures potentially favourable to gold or base metal mineralization.

2. THE PROPERTY

The property is divided into three separate claim groups located near Rowan Lake, Northwestern Ontario in the Kenora Mining Division. The locations of the three claim groups are shown in Figures 1 and 2 and the claim numbers for each are listed in Appendix B. The claims are located approximately 22 km east-southeast of Sioux Narrows and 68 km southwest of Dryden, Ontario. Access is by float plane from Sioux Narrows.

Latitude and longitude are 49°15' and 93°35' respectively and the NTS reference is 52 F/5.

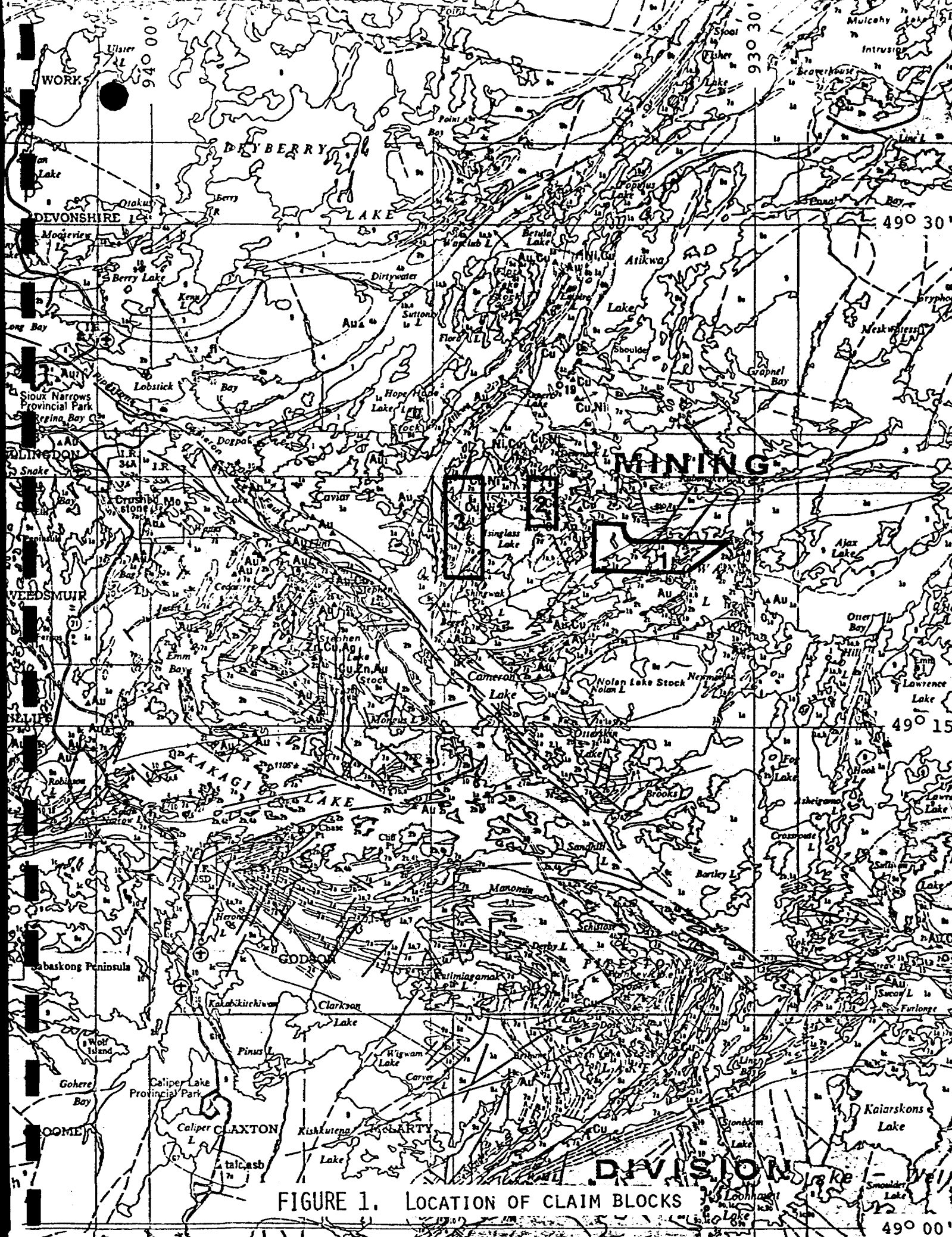


FIGURE 1. LOCATION OF CLAIM BLOCKS

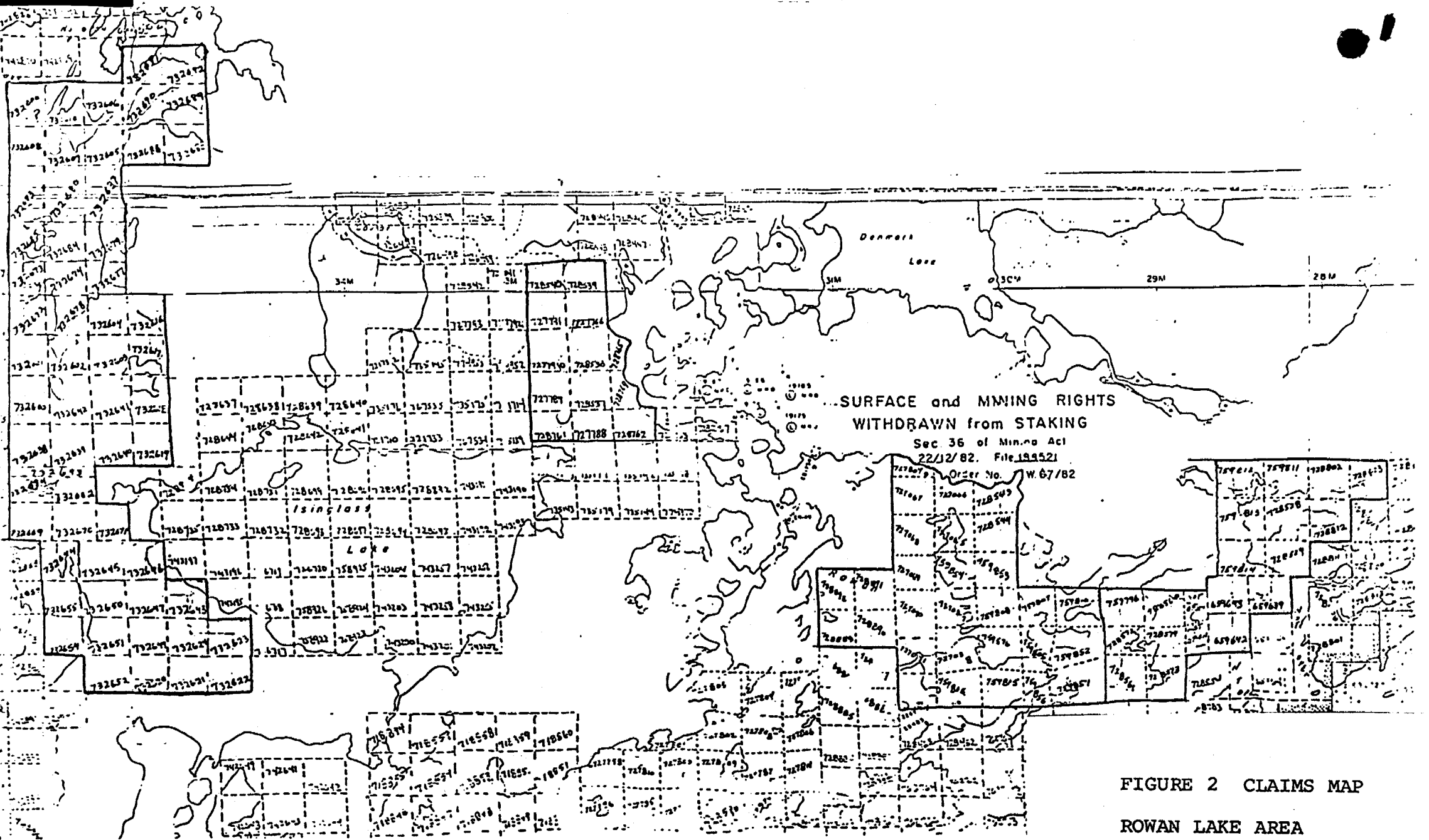


FIGURE 2 CLAIMS MAP

ROWAN LAKE AREA
 From M.N.R. Claim Maps
 M - 2580 and M - 2629

3. GEOLOGY

Map References

1. Map 2273, Atikwa Lake, Ontario Department of Mines, 1973.
2. Map P-831, Rowan Lake Area, 1973.

All three claim groups are underlain by the same assemblage of rock types. Group number one is mostly composed of the oldest formation in the area which is a mafic-to-intermediate metavolcanic formation broken in many places by narrow dykes of quartz gabbro or other mafic intrusive rocks. These strike approximately N 55°E. Small exposures of a third unit are seen at the east end of the group and this is a rhyolite-dacite tuff lying in thin beds. Some occurrences of sulphides and zinc and copper have been discovered by prospectors and are shown on the interpretation map.

Area number 2 is underlain by the same rock types with the addition of a small granite intrusion at the north end. A number of occurrences of copper and other sulphides have been discovered in outcrops of the mafic volcanics. The rocks underlying area number 3 are composed mostly of the mafic intrusives, unit number 3, mostly gabbro. A few showings of pyrite and other sulphides have been found in the area.

4. SURVEY SPECIFICATIONS

4.1 Instruments

The present survey was carried out using airborne instruments with the sensor elements mounted in the wing tips. The magnetic field was measured with a proton precession magnetometer model GSM-8BA, manufactured by GEM Systems, Toronto. The VLF EM field was measured with a three component total field strength instrument, model TOTEM-2A, manufactured by Herz Industries Ltd., Toronto. Terrain clearance is measured by a King KRA-10A Radar Altimeter. Data from these three instruments are processed by a UDAS-100 data processor, manufactured by Urtec Ltd. and then recorded onto a ninetrack tape recorder, and printed as profiles on a thermal printer in real time on the aircraft (Fig. 3). A Geocam video tape system is used to follow the flight path, and fiducial numbers generated by the UDAS-100 are recorded onto the video images.

Full specifications of the instruments are given in Appendix A.

4.2 Lines and Data

- a) Line spacing 100 metres
- b) Line direction N36°W, Group 1
 E-W, Group 2 and 3
- c) Flying height 100 metres
- d) Flying speed 156 km/hr
- e) Data point interval:
 - magnetic 42 metres
 - VLF EM 21 metres
- f) Tie Line interval, 2 kilometres
- g) VLF transmitter tuned in channel 1 (Line) - Seattle,
Washington, 24.8 kHz
- h) VLF transmitter tuned in channel 2 (Orthogonal) - Annapolis,
Md., 21.4 kHz

4.3 Tolerances

- a) Line spacing: Any gaps longer than one kilometre and wider than twice the line spacing were re flown.
- b) Flying height: Portions of line longer than one km which were above 125 metres were re flown if safety considerations were acceptable.
- c) Magnetic diurnal: Less than twenty gammas (nanotesla) deviation from a smooth background over a period of two minutes or less as seen on base station analogue record.
- d) Manoeuvre noise: approximately ± 5 gammas.

4.4 Photo mosaics

For navigating the aircraft and recovering the flight path, photo mosaics were made at final map scale from existing air photos. In order to provide a semi-controlled base the airphotos were laid down on a topographic map which had been photographically adjusted to match the photo scale. The laydown was then photographed and printed at 1:10,000 scale for navigating and flight path recovery.

5. DATA PROCESSING

Flight path recovery was carried out in the field using a video tape viewer to observe the flight path as recorded by the Geocam video camera system. The flight path recovery was completed daily to enable reflights to be selected where needed for the following day.

The remaining data processing was carried out in the offices of Dataplotting Services Inc. in Toronto.

Magnetic levelling was computed in the standard manner by tying survey lines to the tie lines. The VLF-EM data was corrected by applying the following formula.

(A) Total Field Strength

$$V = \frac{SM + 100}{K} \quad \text{where} \quad K = \frac{S(A - 2R) + 100}{100}$$

V = final corrected value in %

M = raw data value from the magnetic tape

S = scale factor

A = average of all M on a given line.

R = standard deviation of A

(B) Quadrature

$$Q = \frac{SN}{K} \quad \text{where} \quad K = \frac{SB + 100}{100}$$

N = raw data

B = average of all N

The vertical magnetic gradient is computed from the total field data using a widely accepted method of transforming the data set into the frequency domain, applying a transfer function to calculate the gradient, and then transforming back to the spatial domain. The method is described by a number of authors including Grant, 1972, and Spector, 1968.

Grant, F. S., Review of data processing and interpretation methods in gravity and magnetics, Geophysics, August 1972.

Spector, A., 1968, Spectral analysis of aeromagnetic maps: unpub. University of Toronto thesis.

These calculations, and all other corrections and map contouring were carried out by Dataplotting Services Inc. of Toronto.

6. INTERPRETATION

6.1 Area Number 1 (Rowan Lake)

The magnetic field shows a large number of narrow linear anomalies trending in a northeasterly direction and which conform in direction to the few outcrops of gabbro dykes. Some of the mapped gabbro dykes coincide with the magnetic anomalies. Others don't but it would appear that these linear anomalies are an expression of this rock type and have been marked as such on the interpretation map. At the east end of the claim group there is a "T" shaped magnetic anomaly on the vertical gradient map which is underlain in two places by rhyolite tuff. Part of the "T" could be interpreted as gabbro since its direction is the same as the dykes but there are no gabbro outcrops to support this and so this unit has been interpreted as the rhyolite tuff.

The rest of the area is believed composed of the mafic to intermediate metavolcanics which have relatively little magnetic expression.

It is recognized that the linear magnetic anomalies could be caused by concentrations of magnetite within the volcanics rather than the gabbro dykes, but the direction of the two are so similar that it is believed that the interpretation is correct. Field checking would be necessary to confirm this interpretation.

A number of faults have been interpreted from displacements in the linear anomalies.

The VLF signal measured on this survey was Seattle, Washington and a number of conductors lined approximately east-west are seen on VLF conductor map. One of them passes directly through a copper/zinc occurrence at the center of the property and probably warrants follow-up by induced polarization methods.

6.2 Areas Number 2 and 3

The magnetic pattern, particularly the vertical gradient pattern, shows the unit number three, mafic intrusive rocks (gabbro mainly), to have considerably more activity than the volcanics. Using this rule as a guide the geological contacts between these two units have been altered slightly in comparison to Map P831 but do conform in a general sense. Two faults in area number 3 seen on this geology map are confirmed in the magnetic patterns and a number of other parallel faults have been added.

In area number 2 a late archean granite intrusive is clearly outlined in the vertical gradient contours and agrees well with what has been mapped. Again the contacts between the mafic volcanics and the gabbro intrusives have been revised, and several faults have been interpreted. Several occurrences of chalcopyrite and malachite have been mapped on this property and one of these near the south boundary of the claim

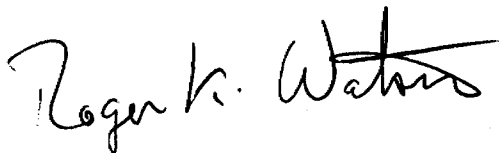
group, lies directly on a VLF conductor. This conductor warrants follow-up with either conventional EM or, preferably, induced polarization methods. Several other copper occurrences lie on the newly interpreted contact between the volcanics and gabbro and near a fault interpreted from the geophysical data. These could be of renewed interest because of their proximity to a structural deformation indicated by the fault and possibly some folding of the gabbro.

7. SUMMARY

A combined magnetic and VLF-electromagnetic survey has been carried out over three claim groups at a density of approximately 1.6 km per mineral claim. The magnetic pattern agrees in general with the mapped geology and was used to update the geology map and to detect additional faulting and structural deformation which are potential host areas of mineralization.

Respectfully submitted,

TERRAQUEST LTD.



Roger K. Watson, B.Sc., P.Eng.

Geophysicist



APPENDIX A

GSM - 8 BA AIRBORNE PROTON MAGNETOMETER

SPECIFICATIONS

Resolution: 0.5 gamma

Accuracy: ± 1 gamma over operating range

Range: 20,000-100,000 gamma in 23 overlapping steps

Gradient Tolerance: Up to 5,000 gamma/meter

Output: VISUAL: 5 digit 1 cm (0.4") high Liquid Crystal Display, visible in any ambient light
DIGITAL: Multiplied precession frequency and gating pulse
ANALOGUE: 0-99 gamma (optional)

External Trigger: Externally triggered cycling with period of 1.00 sec.

Power Requirements: 28V DC, 8Ws per reading

Operating Temperature: -40 to +55C

Dimensions: Console: 15x8x15 cm (6x3 $\frac{1}{2}$ x6")
Sensor: 14x7 cm dia (5 $\frac{3}{4}$ x2 $\frac{3}{4}$ " dia)
Staff: 175 cm (70") extended, 53 cm (21") collapsed or sectional 45 cm (18") each section

Weight: 2.7 kg (6 lb) complete, 2.3 kg (5 lb) in back-pack mode

Manufacturer: Gem Systems Inc.
105 Scarsdale Rd.
Don Mills, Ontario M3B 2R5

Totem 2A

Multi channel

VLF Electromagnetic
airborne survey instrument

Specifications

Introduction.

The Totem-2A measures basically the same parameters and shares the same package configuration as the well established Totem-1A.

This new generation instrument, however, measures multiple parameters on two channels simultaneously, with less noise and greater accuracy. These advancements have been achieved while maintaining the simple installation and operating procedures of the 1A model.

The Totem-2A employs state of art digital and linear integrated circuits to implement the functions of crystal controlled phase locked loop frequency synthesizers, dual frequency heterodyne conversion and proprietary time domain sampling vector computation techniques.

Features.

The principal parameters measured are the change in total field and the vertical quadrature field. Parameters also available are the total field gradient (from sensors in two locations) and the horizontal quadrature field. The quadrature polarity is defined by the direction of flight relative to the field. The total and quadrature magnitudes are insensitive to sensor orientation in pitch, roll and yaw.

One obvious advantage of dual frequency operation is that primary sources can be selected to ensure good coupling with conductors of any orientation. Potential uses of the gradient mode are enhanced interline contouring and deliniation of multiple conductors with horizontal and vertical gradient respectively.

Specifications subject to change.

Primary source: Magnetic field component radiated from VLF radio transmitters (one or two simultaneously).

Parameters measured: Total field, vertical quadrature, horizontal quadrature, gradient.

Frequency range: 15kHz to 250kHz front panel selectable for each channel in 100Hz steps.

Sensitivity range: 130uV/m to 100mV/m at 20kHz, 3dB down at 14kHz and 24kHz.

VLF signal bandpass: -3dB at ± 80 Hz, < 4% variation at ± 50 Hz.

Adjacent channel rejection: 300 to 800Hz = 20 to 32dB, 800 to 1500Hz = 32 to 40dB, > 1500Hz > 40dB (for < 2% noise envelope).

Out of band rejection: 10kHz to 2.5kHz = 5×10^{-4} A/m to 5×10^{-1} A/m < 2.5kHz rising at 12dB/octave
30kHz to 60kHz = 5×10^{-4} A/m to 8×10^{-3} A/m > 60kHz rising at 6dB/octave (for no overload condition).

Output span: $\pm 100\% = \pm 1.0V$

Output filter: Time constant 1sec for 0 to 50% or 10% to 90%, noise bandwidth 0.3Hz (second order LP).

Internal noise: 1.3uV/m rms (ambient noise will exceed this).

Sferics filter: Reduces noise contribution of impulse interference.

Electric field rejection: < 0.5% error for 20m tow cable.

Controls: Power switch, frequency selector switches (line & ortho) level controls (line & ortho), meter switch (total/quad) sferics filter switch.

Displays: Meters (line & ortho), sferics light, overload light.

Inputs: Power, 23 to 32 Vdc fused 0.5Amp.
Signal, Sensor upper, Sensor lower.

Outputs: Total, quad, gradient, multiplexed (line & ortho).
Audio monitor, stereo line & ortho.

Dimensions & weight: Console 19" rack mounted, 4.5cm high x 34cm deep, 3.8kg. Sensor and pre-amplifier assembly 15cm dia. and 46cm long, 1.5kg.

URTEC MODEL — UDAS-100

SPECIFICATIONS: UNIVERSAL DATA ACQUISITION SYSTEM URTEC MODEL — UDAS-100

BASIC UDAS

MICROPROCESSOR AND MEMORY:

- Texas Instruments TMS 9900 - 16 BIT with built in multiply and divide hardware.
- Total memory expandable to 32k words.
- Basic system contains:
 - 16k - 16 bit word RAM
 - Up to 8k - 16 bit word EPROM
 - Cartridge program loading
 - 12k - Bytes of non volatile RAM program storage (optional)

INPUTS AND OUTPUTS

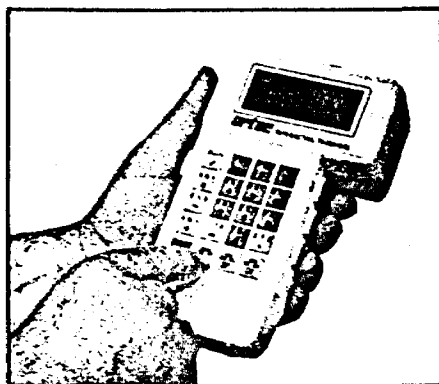
- Analog input: 16 differential input channels with 12 bit resolution at $\pm 5V$ full scale
- Analog output - up to 16 channels (optional)
- 30 addressable ports for multiple byte transfer
- 56 input/output lines for BCD and binary data information (transferred in multiples of 8 bit bytes)
- 3 pulse accumulator inputs for frequency and pulse information. (eg. — Doppler navigation and radar altimeter).
- 2 digital spectrometer inputs. (eg. upward and downward detectors selectable at 256 or 512 channels)
- 1 RS 232 serial port for interactive keyboard and display
- 1 RS 232 serial port for addition of CRT floppy disks and other terminals.
- 1 same protocol as RS 232 with TTL level
- 1 operator controlled fiducial input (switch or keyboard activated)
- Y output for graphic display on oscilloscope
- High speed data transfer-lines GPIB — IEEE-488 compatible

INTERFACES:

- Magnetometer control and signal input for proton or cesium magnetometers
- Error condition indicator level for remote monitoring of diagnostic tests.
- Controller and outputs for two 9 track 1/2 inch magnetic tape units.
- Printer/Recorder controller.
- Digital interface to navigation camera (8 digits of fiducial and coding information).
- Controller for magnetic tape cartridge (program loader)
- Disk storage interfaced via RS-232 or GPIB — IEEE-488 BUS

CONTROLS:

- System power on/off switch
- Keyboard with 24 character alphanumeric display. Keyboard/display can be operated on main console or remotely
- Manual start and load of Julian clock and fiducial numbers.
- All control functions interrogate with YES or NO answer.



Hand Held Interactive Terminal

SOFTWARE:

The basic system is supplied with the necessary programs (on magnetic cartridge) to execute routine operational functions and standard survey requirements. Additional dedicated programs are also included to provide:

- Spectrometer Calibration
- Automatic resolution check
- Full spectra printout on recorder/printer
- Continuous monitoring of system gain using natural "K" photopeak
- Automatic window adjustments
- Fast total count sampling (0.1 sec) for point sources resolution.
- Selective graphic display options.
- Read after write data verification.
- Selective data tape dump
- Magnetic tape copy (optional)
- Data processing and plotting program (optional)
- Diagnostic test programs
- A variety of additional special functions programs are available on request.

PRINTER/RECORDER

CONTROLS

- Power on/off switch
- Automatic paper feed
- Print contrast control
- On/off print head control
- Automatic take-up spool

FORMATS

- Alphanumeric, complete ASCII character set. Thermal 5 x 7 dot matrix
- Graphics 70 x 70 dots per inch resolution
- Software programmable under UDAS control
- Records up to 16 analog traces each with variable O and F.S. setting. Traces can be stacked or overlapping. Software controlled. Trace position and amplitude can be adjusted via interactive keyboard.
- Overflow is automatic by digital stepping.
- Complete alphanumeric annotations can be printed on recording chart (eg. name of project and survey area details, fiducial numbers, time, recording scales and parameters etc.)

PAPER

- Thermosensitive paper 222mm (8.75 in.) wide, 30 meter (100 ft.) long
- Thermal print head is board mounted and easy to replace

POWER

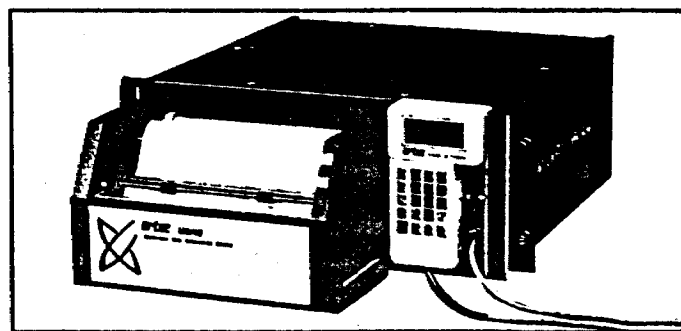
- 24 - 28VDC 3.0 A average

WEIGHT

- 15.6 kg. 35 lbs.

DIMENSIONS

- 48.2 cm (19 in.) wide, 17.8 cm (7.0 in.) high, 40.6 cm (16 in.) deep (standard rack mount).



UDAS-100 Console with Printer/Recorder Extended

FOR FURTHER INFORMATION CONTACT

urtec

INSTRUMENTS SALES LIMITED

APPENDIX B

APPENDIX B

LIST OF CLAIMS: File B-409

<u>Group 1</u>	<u>Group 2</u>	<u>Group 3</u>	
K 659 542	K 727 766	K 732 600	K 732 684
659 543	727 788	732 601	732 685
659 639	727 789	732 602	732 686
728 528	727 790	732 603	732 687
728 529	727 791	732 604	732 688
728 557	728 537	732 605	732 689
728 560	728 538	732 606	732 690
728 561	728 539	732 607	732 691
728 572	728 540	732 608	732 692
758 574	728 761	732 609	732 693
728 802	728 762	732 610	732 694
728 803	728 764	732 616	
728 812	728 765	732 617	
759 796		732 618	
759 811		732 619	
759 812		732 620	
759 813		732 621	
759 814		732 622	
727 037		732 623	
727 038		732 624	
727 065		732 638	
727 066		732 639	
727 067		732 640	
727 068		732 641	
727 069		732 642	
727 070		732 644	
727 071		732 645	
727 072		732 646	
727 807		732 647	
728 543		732 648	
728 544		732 649	
728 889		732 650	
728 890		732 651	
728 891		732 652	
728 892		732 654	
759 576		732 655	
759 803		732 669	
759 806		732 670	
759 807		732 671	
759 810		732 672	
759 815		732 673	
759 816		732 674	
759 851		732 677	
759 852		732 678	
759 853		732 679	
759 854		732 680	
759 866		732 682	
		732 683	



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52F05NE0013 2.7704 ATIKWA LAKE (GRAPNEL

900

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

Sept 13th
#154-85

Type of Survey(s) **Airborne Geophysical** Township or Area **Rowan Lake Area M-2580**

Claim Holder(s) **BIGSTONE MINERALS LTD.** Prospector's Licence No. **T-1703**

Address **8 King Street East, Suite 1703, Toronto, Ontario M5C 1B5**

Survey Company **Terraquest Surveys Ltd.** Date of Survey (from & to) **14 11 84 20 11 84** Total Miles of line Cut

Name and Address of Author (of Geo-Technical report) **Roger Watson - 111 Richmond St. West, Toronto, Ontario M5H 2G4**

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
K	728552	80			
	728553	80			
	728559	80			
	728575	80			
	728781	80			
	728782	80			
	728523	80			
	728522	80			

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JUL 20 1985

MINING DIVISION

KENORA MINING DIV.
RECEIVED
JUL 25 1985
7:18:10 11:12:12:34:58 PM

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

728552

Total number of mining claims covered by this report of work. **8**

For Office Use Only

Total Days Credits Recorded **640** Date Recorded **July 25/85** Mining Recorder **[Signature]**

Date **July 23/85** Recorded Holder or Agent (Signature) **[Signature]** President

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying **WAYNE WHYMARK - 8 King Street East, Suite 1703, Toronto, Ontario M5C 1B5**

Date Certified **July 23/85** Certified by (Signature) **[Signature]**

**Technical Assessment
Work Credits**

File
2.7704

Date
1985 03 06

Mining Recorder's Report of
Work No. 289-84

Recorded Holder

JOHN F. O'DONNELL

Township or Area

ROWAN LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	K 732600 to 610 inclusive
Electromagnetic _____ 40 days	732615 to 624 inclusive
Magnetometer _____ 40 days	732638 to 642 inclusive
Radiometric _____ days	732644 to 654 inclusive
Induced polarization _____ days	732669 to 674 inclusive
Other _____ days	732677 to 680 inclusive
Section 77 (19) See "Mining Claims Assessed" column	732682 to 694 inclusive
Geological _____ days	727788 to 791 inclusive
Geochemical _____ days	728537 to 540 inclusive
Man days <input type="checkbox"/> Airborne <input checked="" type="checkbox"/>	728761-62-64-65-66
Special provision <input type="checkbox"/> Ground <input type="checkbox"/>	727037-38
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	727065 to 071 inclusive
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	727807
	728543-44-54-60-61-72-73-74
	728889 to 892 inclusive
	759576
	759796
	759806-07-08-10-15-16
	759851-52-53-54-56
	728528-29
	728802-03-12
	759811 to 814 inclusive

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

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

K 727792-93
728541-42
728763-67

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



Ministry of
Natural
Resources

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

FWM
27704.

Mining Act

Instructions:

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

289-84 Jan 26/84

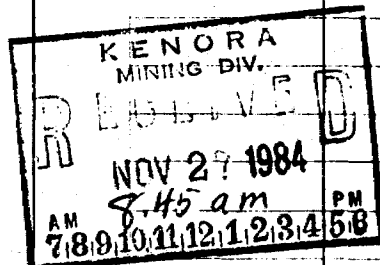
Type of Survey(s) AIRBORNE GEOPHYSICAL SURVEY VLF and MAG		Township or Area Rowan Lake Area M-2580	
Claim Holder(s) JOHN F. O'DONNELL		Prospector's Licence No. A46125	
Address 8 King Street East, Suite #1703, Toronto, Ontario M5C 1B5			
Survey Company TERRAQUEST LTD.		Date of Survey (from & to) 14 11 84 20 11 84 Day Mo. Yr. Day Mo. Yr.	Total Miles of line Cut
Name and Address of Author (of Geo Technical report) ROGER WATSON - 111 Richmond St. West, Suite 1214, Toronto, Ontario M5H 2G4			

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
K		80			
*PLEASE SEE ATTACHED SCHEDULE OF CLAIMS AND APPLY 80 DAYS CREDIT TO EACH CLAIM.					
RECEIVED					
DEC - 3 1984					
MINING LANDS SECTION					



Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

759576

Total number of mining claims covered by this report of work. **123**

Date **Nov. 26, 1984** Recorded Holder or Agent (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded **9840** Date Recorded **Nov. 27/84** Mining Recorder *[Signature]*

Date Approved as Recorded *[Signature]* Branch Director *[Signature]*

See Revised Statement

Certification Verifying Report of Work **AGENT**

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

Name and Postal Address of Person Certifying
PATRICK CHEVALIER - 8 King Street East, Suite #1703, Toronto, Ontario M5C 1B5

Date Certified **Nov. 26, 1984** Certified by (Signature) *[Signature]*

OCT 10 1984

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===== ATIKWA RESOURCES INC.
===== STAKING RUSH
===== CAMERON EXTENSION CLAIMS

===== p 1
===== ASRCE =====

ROWAN LAKE
KENORA
ONTARIO
MAP NUMBER M2580

	CLAIM NUMBER	STAKER	CLAIM HOLDER	APPLIED CREDITS	DATE RECORDED	EXPIRY DATE	REPORTING DATE
1	732600	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
2	732601	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
3	732602	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
4	732603	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
5	732604	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
6	732605	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
7	732606	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
8	732607	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
9	732608	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
10	732609	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
11	732610	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
12	732615	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
13	732616	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
14	732617	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
15	732618	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
16	732619	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
17	732620	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
18	732621	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
19	732622	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
20	732623	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
21	732624	JNB	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
22	732638	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84

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===== ATIKWA RESOURCES INC.
===== STAKING RUSH
===== CAMERON EXTENSION CLAIMS

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===== ASRCE =====

ROWAN LAKE
KENORA
ONTARIO
MAP NUMBER M2580

CLAIM NUMBER	STAKER	CLAIM HOLDER	APPLIED CREDITS	DATE RECORDED	EXPIRY DATE	REPORTING DATE
23	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
24	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
25	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
26	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
27	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
28	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
29	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
30	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
31	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
32	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
33	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
34	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
35	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
36	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
37	JT	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
38	SD	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
39	SD	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
40	SD	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
41	SD	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
42	SD	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
43	SD	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
44	SD	JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84

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ATIKWA RESOURCES INC.
STAKING RUSH
CAMERON EXTENSION CLAIMS

===== P 3 =====
===== ASRCE =====

ROWAN LAKE
KENORA
ONTARIO
MAP NUMBER M2580

CLAIM NUMBER	STAKER	CLAIM HOLDER	APPLIED CREDITS	DATE RECORDED	EXPIRY DATE	REPORTING DATE
45	732678	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
46	732679	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
47	732680	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
48	732682	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
49	732683	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
50	732684	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
51	732685	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
52	732686	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
53	732687	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
54	732688	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
55	732689	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
56	732690	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
57	732691	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
58	732692	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
59	732693	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84
60	732694	SD JOHN F O'DONNELL	0.000	08/02/83	08/02/85	11/30/84

TOTAL CLAIMS HELD: 60

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===== ATIKWA RESOURCES INC.
===== STAKING RUSH
===== ISINGLASS

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===== ASRIS =====

ROWAN LAKE
KENDRA
ONTARIO
MAP NUMBER M2580

	CLAIM NUMBER	STAKER	CLAIM HOLDER	APPLIED CREDITS	DATE RECORDED	EXPIRY DATE	REPORTING DATE
1	727788	YC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
2	727789	YC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
3	727790	YC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
4	727791	YC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
5	X 727792	YC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
6	X 727793	YC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
7	728537	RA	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
8	728538	RA	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
9	728539	RA	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
10	728540	RA	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
11	X 728541	RA	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
12	X 728542	RA	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
13	728761	MC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
14	728762	MC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
15	X 728763	MC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
16	728764	MC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
17	728765	MC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
18	728766	MC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84
19	X 728767	MC	JOHN F O'DONNELL	0.000	07/26/83	07/26/85	11/30/84

TOTAL CLAIMS HELD: 19

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===== ATIKWA RESOURCES INC.
===== STAKING RUSH
===== MONTE CRISTO BLOCK A

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ROWAN LAKE
KENORA
ONTARIO
MAP NUMBER M2580

CLAIM NUMBER	STAKER	CLAIM HOLDER	APPLIED CREDITS	DATE RECORDED	EXPIRY DATE	REPORT IN DATE
1	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
2	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
3	MC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
4	MC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
5	MC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
6	MC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
7	MC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
8	MC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
9	MC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
10	YC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
11	RA	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
12	RA	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
13	RM	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
14	RM	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
15	RM	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
16	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
17	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
18	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
19	IB	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
20	IB	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
21	IB	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8
22	DM	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/8

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=====
===== ATIKWA RESOURCES INC.
===== STAKING RUSH
===== MONTE CRISTO BLOCK A

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ROWAN LAKE
KENORA
ONTARIO
MAP NUMBER M2580

	CLAIM NUMBER	STAKER	CLAIM HOLDER	APPLIED CREDITS	DATE RECORDED	EXPIRY DATE	REPORTING DATE
23	759576	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
24	759796	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
25	759806	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
26	759807	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
27	759808	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
28	759810	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
29	759815	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
30	759816	JR	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
31	759851	RM	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
32	759852	RM	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
33	759853	RM	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
34	759854	RM	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
35	759856	RM	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84

TOTAL CLAIMS HELD: 35

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===== ATIKWA RESOURCES INC.
===== STAKING RUSH
===== MONTE CRISTO BLOCK B

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ROWAN LAKE
KENORA
ONTARIO
MAP NUMBER M2580

NOTE:

+ only claims outlined in yellow are included in the Report of Work

	CLAIM NUMBER	STAKER	CLAIM HOLDER	APPLIED CREDITS	DATE RECORDED	EXPIRY DATE	REPORTING DATE
1	728525	RA	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
2	728526	RA	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
3	728527	RA	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
4	728528	RA	JOHN F O'DONNELL	0.000	07/28/83	07/28/85	11/30/84
5	728529	RA	JOHN F O'DONNELL	0.000	07/28/83	07/28/85	11/30/84
6	728530	RA	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
7	728531	RA	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
8	728533	RA	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
9	728534	RA	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
10	728802	GB	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
11	728803	GB	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
12	728806	VB	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
13	728807	VB	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
14	728808	VB	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
15	728811	PPC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
16	728812	PPC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	11/30/84
17	728813	PPC	JOHN F O'DONNELL	0.000	07/27/83	07/27/85	00/00/00
18	759811	JR	JOHN F O'DONNELL	0.000	07/28/83	07/28/85	11/30/84
19	759812	JR	JOHN F O'DONNELL	0.000	07/28/83	07/28/85	11/30/84
20	759813	JR	JOHN F O'DONNELL	0.000	07/28/83	07/28/85	11/30/84
21	759814	JR	JOHN F O'DONNELL	0.000	07/28/83	07/28/85	11/30/84

TOTAL CLAIMS HELD: 21



Ministry of Natural Resources

Your File: 2,7704

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL TECHNICAL DATA STATEMENT

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

Type of Survey(s) AIRBORNE GEOPHYSICAL SURVEY VLF and MAG
Township or Area Rowan Lake Area M-2580
Claim Holder(s) BIGSTONE MINERALS LTD.
Survey Company Terraquest Ltd.
Author of Report Roger Watson
Address of Author #1214 - 111 Richmond St. West, Toronto M5H 2G4
Covering Dates of Survey November 14 - 20, 1984
Total Miles of Line Cut

Table with 2 columns: SPECIAL PROVISIONS CREDITS REQUESTED, DAYS per claim. Rows include Geophysical (Electromagnetic, Magnetometer, Radiometric, Other), Geological, and Geochemical.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer 40 Electromagnetic 40 Radiometric

DATE: SIGNATURE: Author of Report or Agent

Res. Geol. Qualifications

Table with 4 columns: File No., Type, Date, Claim Holder. Header: Previous Surveys.

MINING CLAIMS TRAVERSED List numerically. RECEIVED AUG - 7 1985 MINING LANDS SECTION. TOTAL CLAIMS 8

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____
Station interval _____ Line spacing _____
Profile scale _____
Contour interval _____

MAGNETIC

Instrument _____
Accuracy – Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____

Base station value and location _____

Elevation accuracy _____

**INDUCED POLARIZATION
RESISTIVITY**

Instrument _____
Method Time Domain Frequency Domain
Parameters – On time _____ Frequency _____
– Off time _____ Range _____
– Delay time _____
– Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____ Airborne Magnetic / VLF-EM

Instrument(s) _____ Magnetometer - GEM systems GSM-8Ba VLF - Herz TOTEM-2A

(specify for each type of survey)

Accuracy _____ Mag - +/- 1 Gamma VLF - +/- 1%

(specify for each type of survey)

Aircraft used _____ Cessna 182, CFAKK

Sensor altitude _____ 100 meters

Navigation and flight path recovery method _____ Photo mosaics and Video Camera

Aircraft altitude _____ 100 meters Line Spacing _____ 100 meters

Miles flown over total area _____ 208.75 miles Over claims only _____ 8 miles

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

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

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

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1985 03 06

2.7704/289-84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



March 21/85

1985 03 06

Your File: 289-84
Our File: 2.7704

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

R-2
S. Hurst:mc

Encls.

cc: John F. O'Donnell
8 King Street East
Suite 1703
Toronto, Ontario
M5C 1B5 Attn: Patrick Chevalier
cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Roger Watson
Suite 1214
111 Richmond Street West
Toronto, Ontario
M5H 2G4

1985 03 26

Your File: 289-84
Our File: 2.7704

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Notice of Intent dated March 6, 1985
Geophysical (Electromagnetic & Magnetometer)
Survey on Mining Claims K 727792, et. al.,
in the Rowan Lake Area

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

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

S. Hurst;Mc

cc: John F. O'Donnell
8 King Street East
Suite 1703
Toronto, Ontario
M5C 1B5
Attention: Patrick Chevalier

cc: Roger Watson
Suite 1214
111 Richmond Street West
Toronto, Ontario
M5H 2G4

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

Encl.

ROWAN LAKE

DISTRICT OF KENORA

KENORA MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND ● or ⊕
- CROWN LAND SALE ⊙
- LEASES ⊖
- LOCATED LAND ⊙
- LICENSE OF OCCUPATION ⊙
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS —
- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKEG —
- MINES *
- CANCELLED C
- PATENTED S.R.O. ⊙

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

AREAS WITHDRAWN FROM DISPOSITION

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

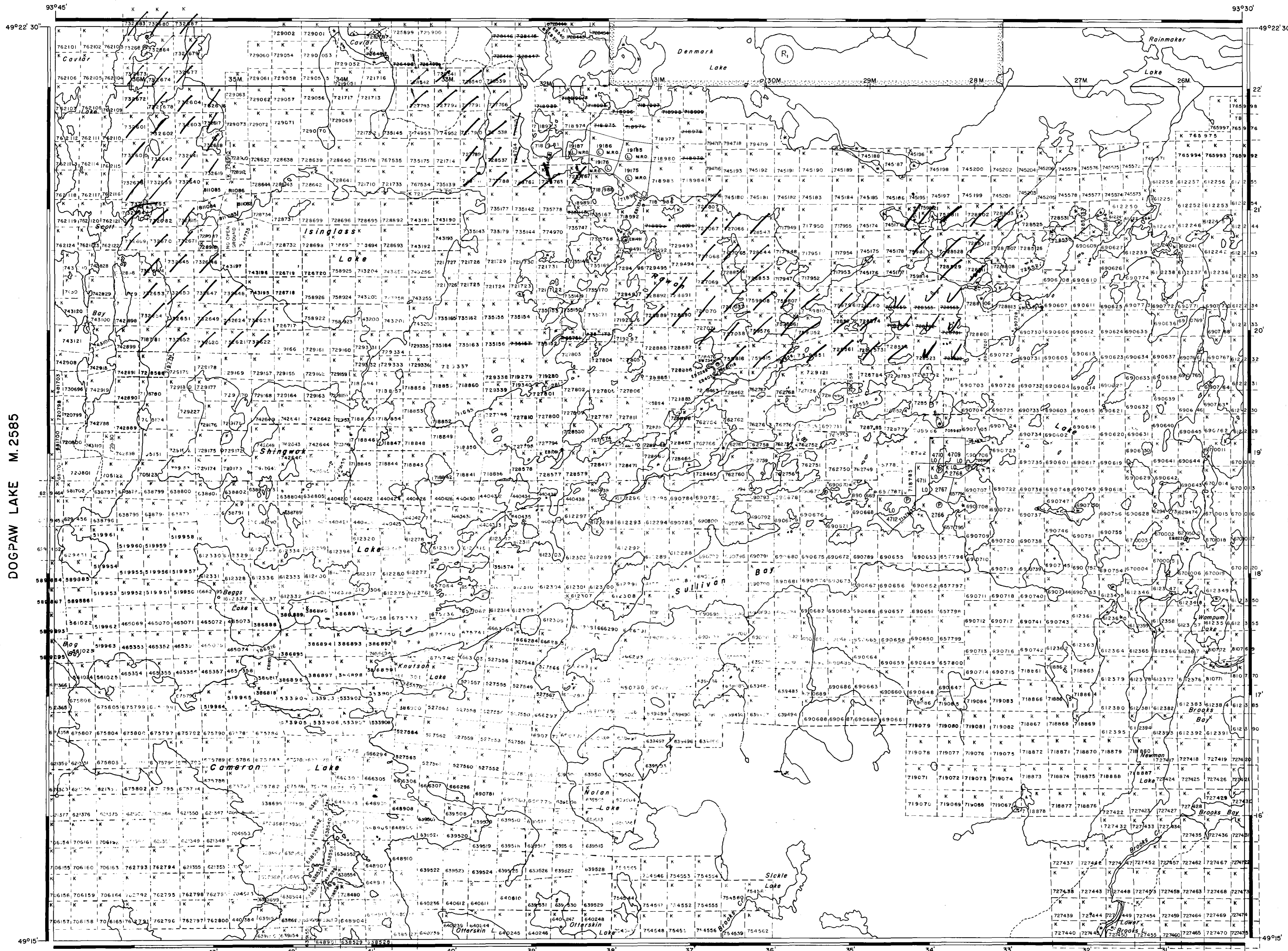
Description	Order No.	Date	Disposition	File
SEC. 36/80	W.16/83	28/6/83	M.S.	188521

NATIONAL TOPOGRAPHIC SERIES 52 F5

PLAN NO. M.2580

ONTARIO
MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH



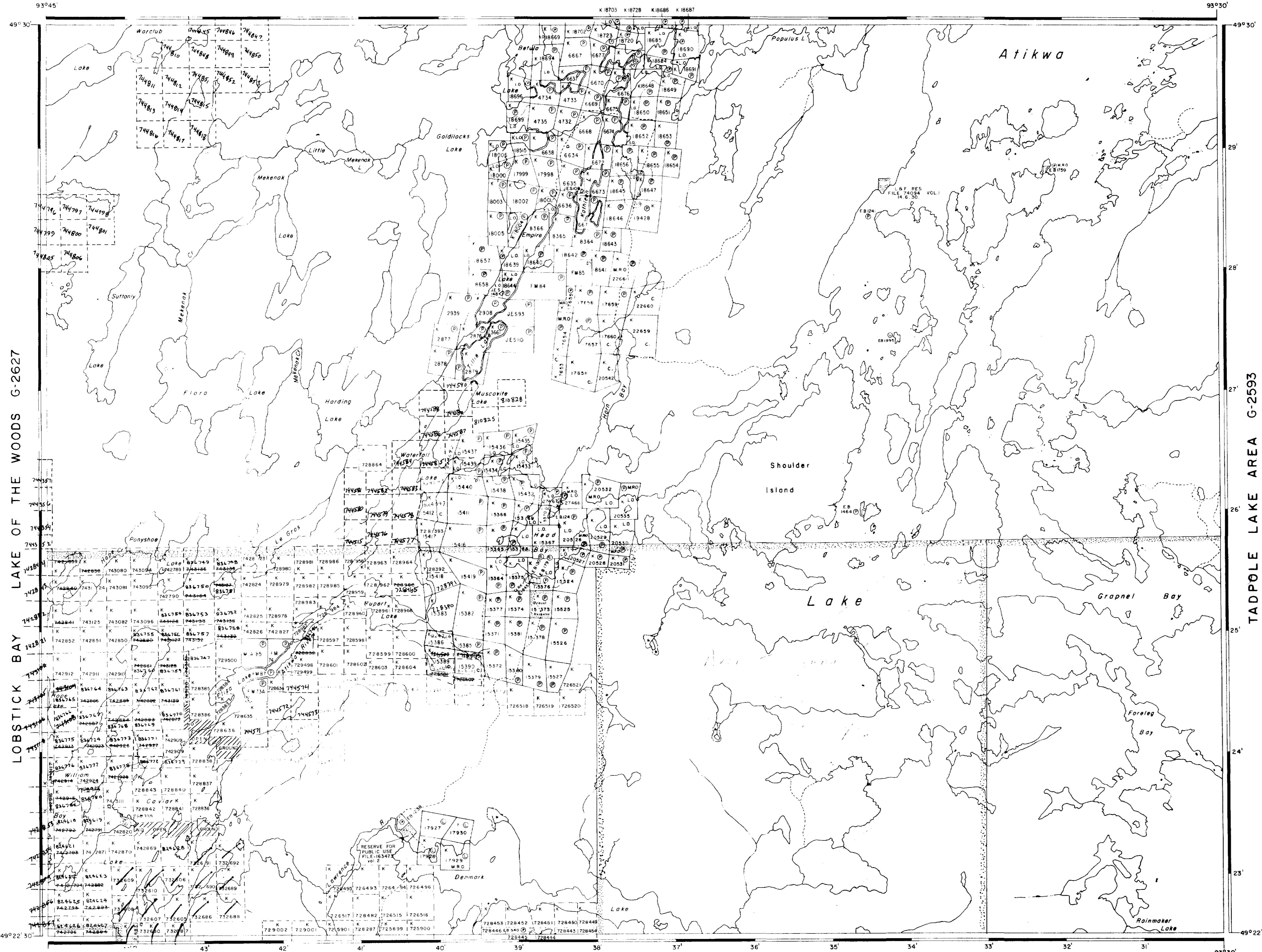
DOGPAW LAKE M.2585

LAWRENCE LAKE M.2579

BROOKS LAKE M.2473



FISHER LAKE AREA G-2617



LEGEND

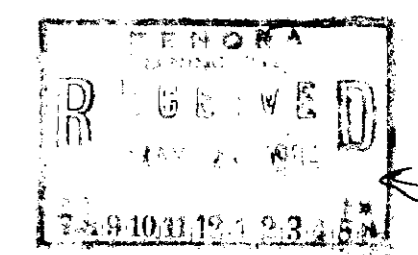
- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS —
- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKEG —
- MINES —
- CANCELLED —

REFERENCES

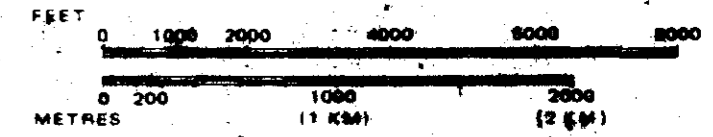
AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File
Ⓟ	W. 57/82	22/12/82		10521



SCALE: 1 INCH = 40 CHAINS

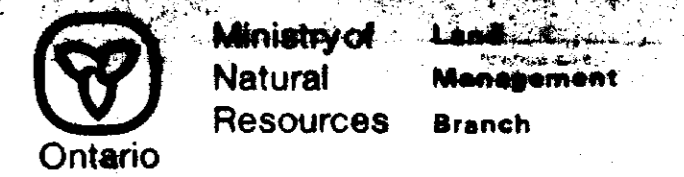


ATIKWA LAKE
GRAPNEL BAY

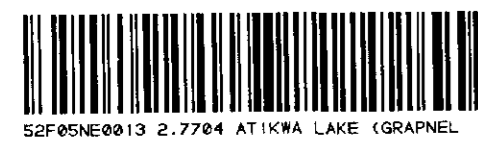
M.N.R. ADMINISTRATION DISTRICT
KENORA
MINING DIVISION

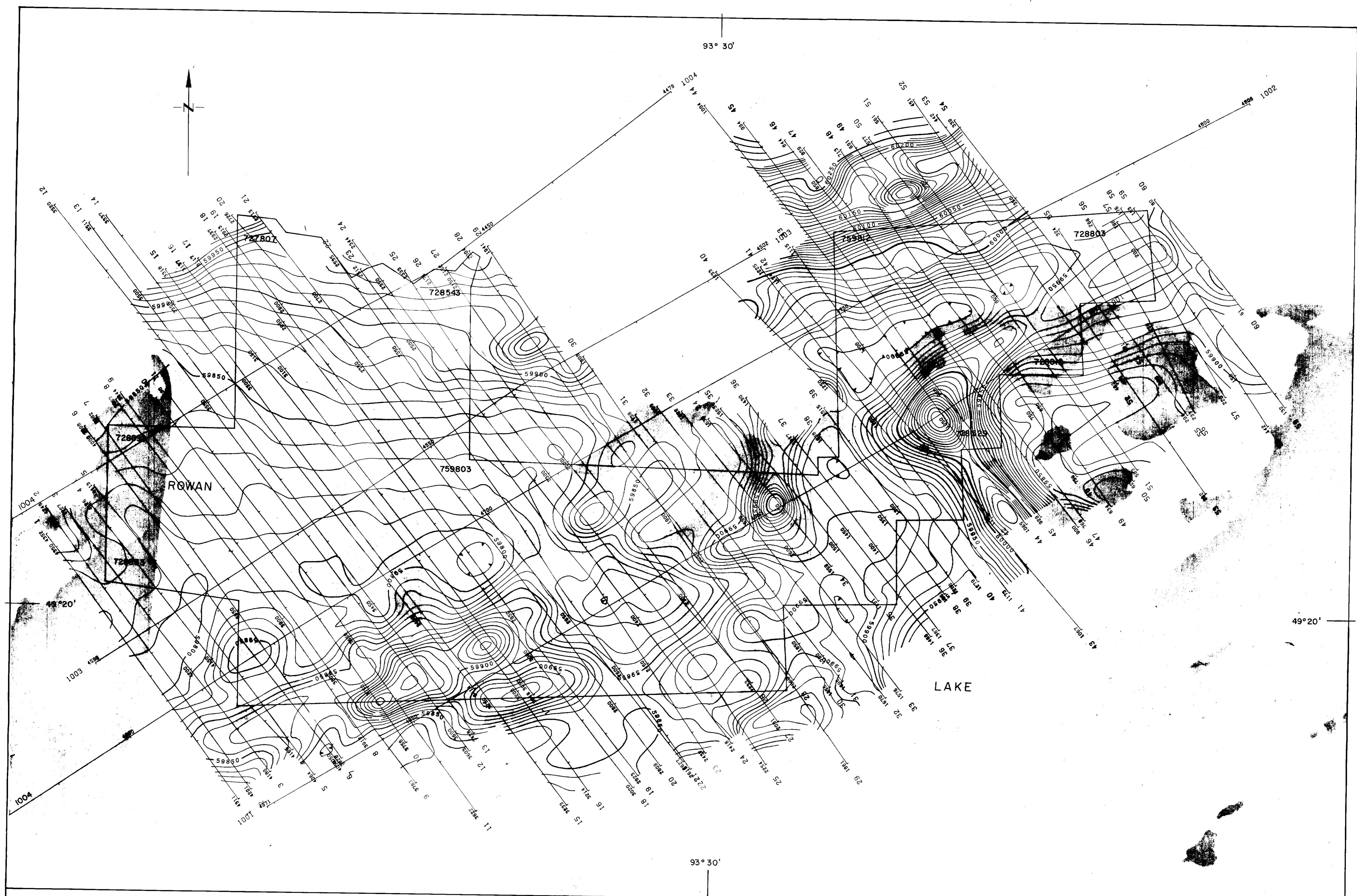
PATRICIA
LAND TITLES / REGISTER DIVISION

KENORA (PATRICIA PORTION)



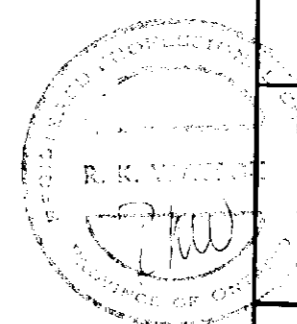
REV. FEBRUARY, 1984



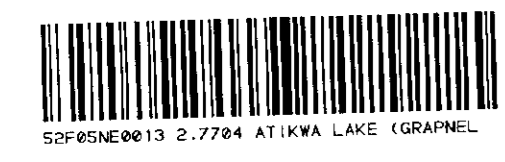


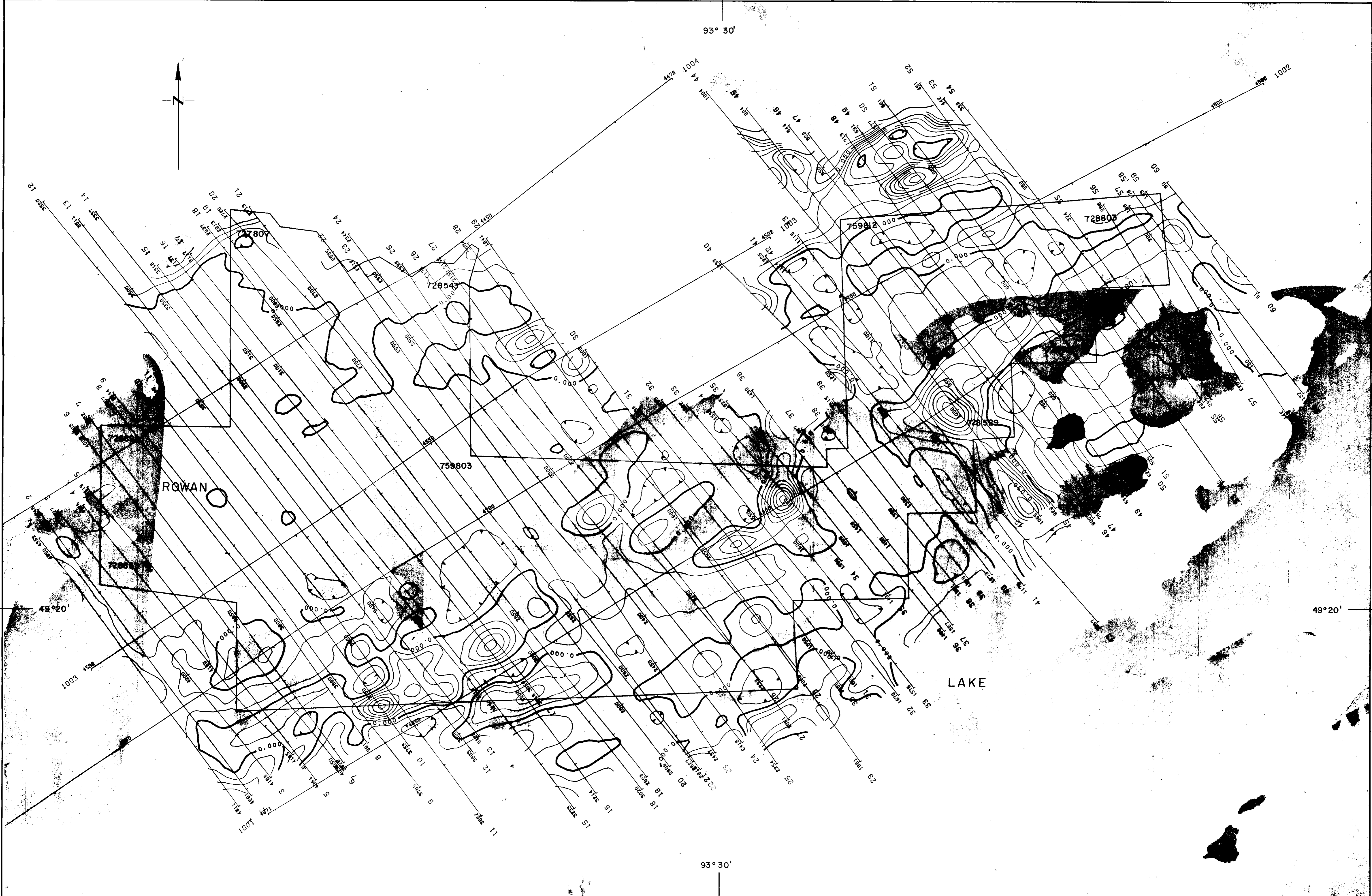
LEGEND
 TERRAIN CLEARANCE 100 metres
 LINE SPACING 100 metres

500 gammas
 200 gammas
 100 gammas



MR. WAYNE WHYMARK	
AIRBORNE MAGNETIC SURVEY	
TOTAL MAGNETIC FIELD	
BLOCK 1	
ROWAN LAKE AREA	
ONTARIO	
N.T.S. NO: 52 F/5	DRAWING NO. B 409-1-1
SCALE 1:10,000	DATE: January, 1985
TERRAQUEST LIMITED	
TORONTO, CANADA	





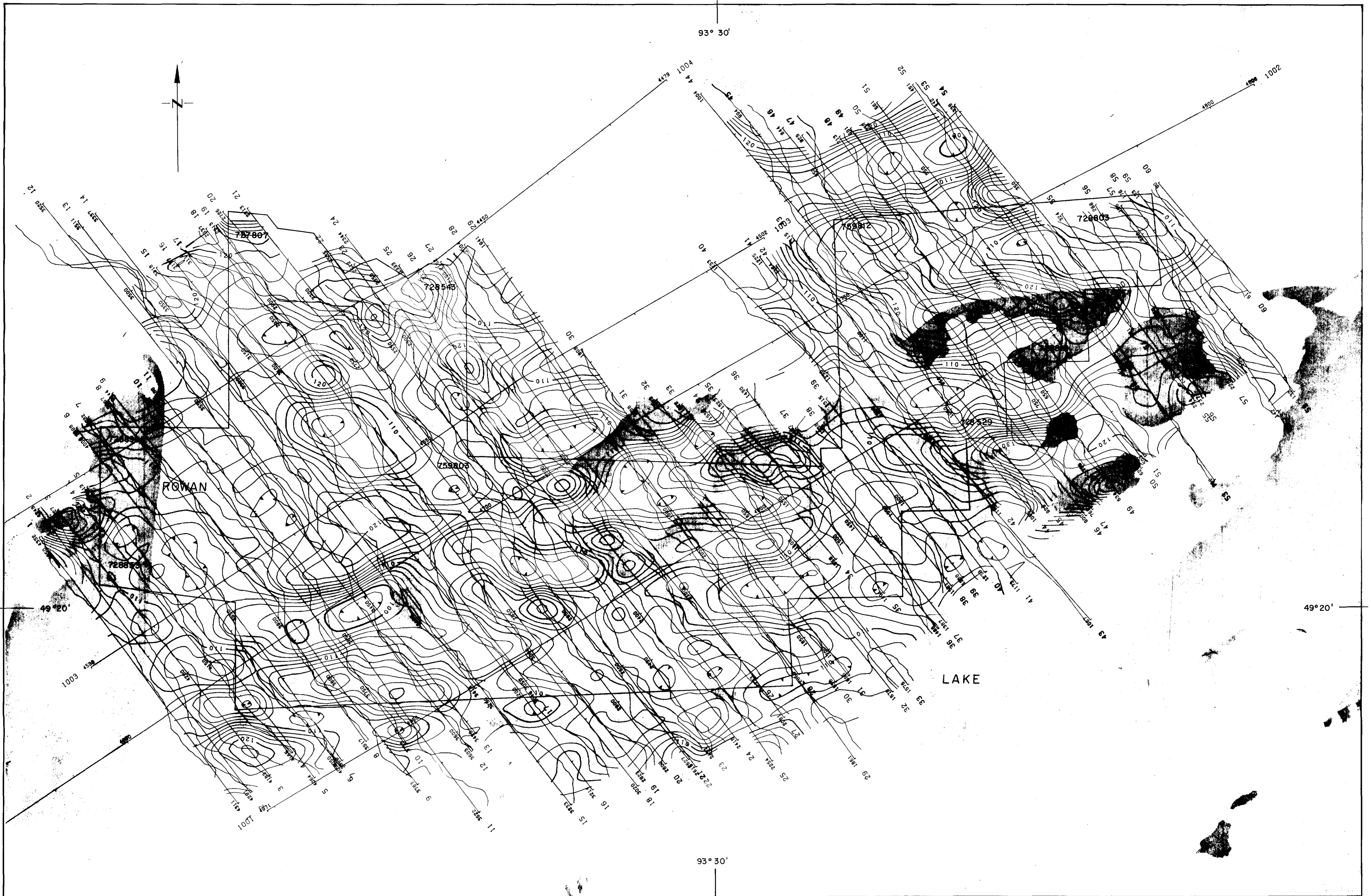
LEGEND
 TERRAIN CLEARANCE 100 metres
 LINE SPACING 100 metres

0.00 gammas/m
 0.05 gammas/m
 0.01 gammas/m






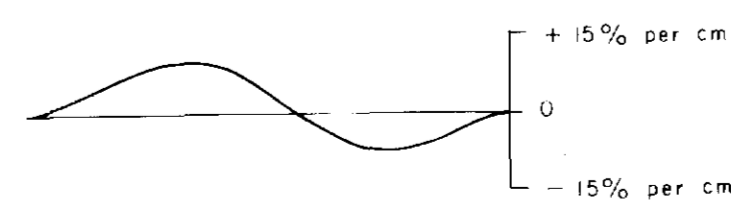
MR. WAYNE WHYMARK	
AIRBORNE MAGNETIC SURVEY VERTICAL MAGNETIC GRADIENT Calculated From Total Field	
BLOCK 1 ROWAN LAKE AREA ONTARIO	
PTS. NO. 52 F/5	DRAWING NO. B 409-1-2
SCALE 1:10,000	DATE January, 1985
TERRAQUEST LIMITED TORONTO, CANADA	





LEGEND
 TERRAIN CLEARANCE 100 metres
 LINE SPACING 100 metres

50% 
 10% 
 2% 



CONTOURS OF TOTAL FIELD STRENGTH
 PROFILES OF QUADRATURE

MR. WAYNE WHYMARK

AIRBORNE VLF-EM SURVEY
 NLK, JIM CREEK, WASH. - 24.8 kHz

BLOCK 1
 ROWAN LAKE AREA
 ONTARIO

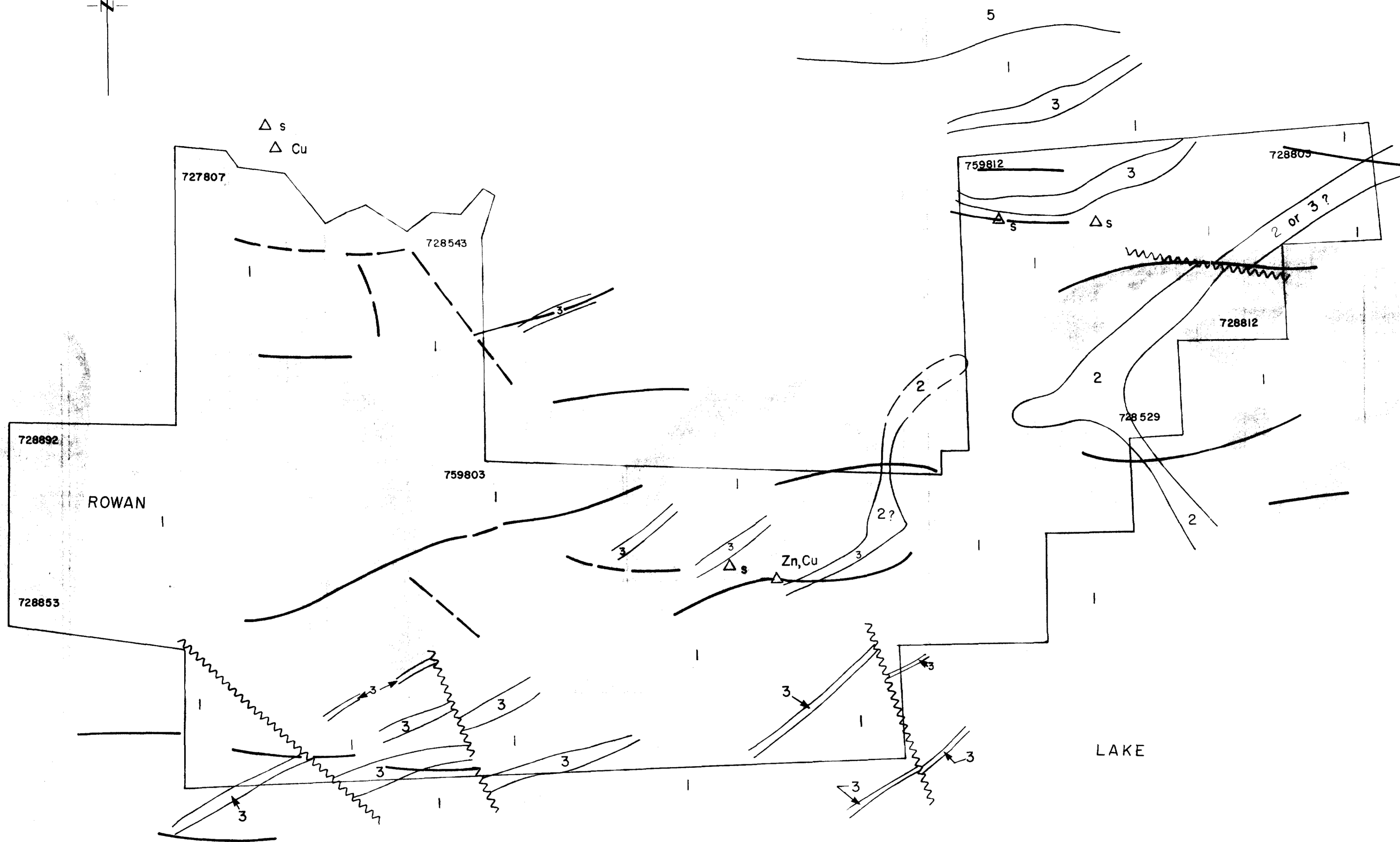


N.T.S. NO. 52 F/5	DRAWING NO. B 409-1-3
SCALE 1:10,000	DATE January, 1985

TERRAQUEST LIMITED
 TORONTO, CANADA





93° 30'



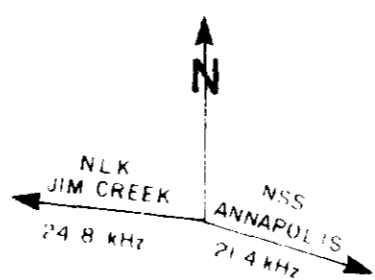
49° 20'

49° 20'

93° 30'

CONTACT —————
 FAULT - - - - -
 GABBRO DYKE  3
 LATE ARCHEAN GRANITE INTRUSION 5
 MAFIC TO INTERMEDIATE VOLCANICS 1
 MINERAL OCCURRENCES  Δ
 VLF CONDUCTORS - - - - -

LEGEND
 TERRAIN CLEARANCE 100 metres
 LINE SPACING 100 metres



MR. WAYNE WHYMARK

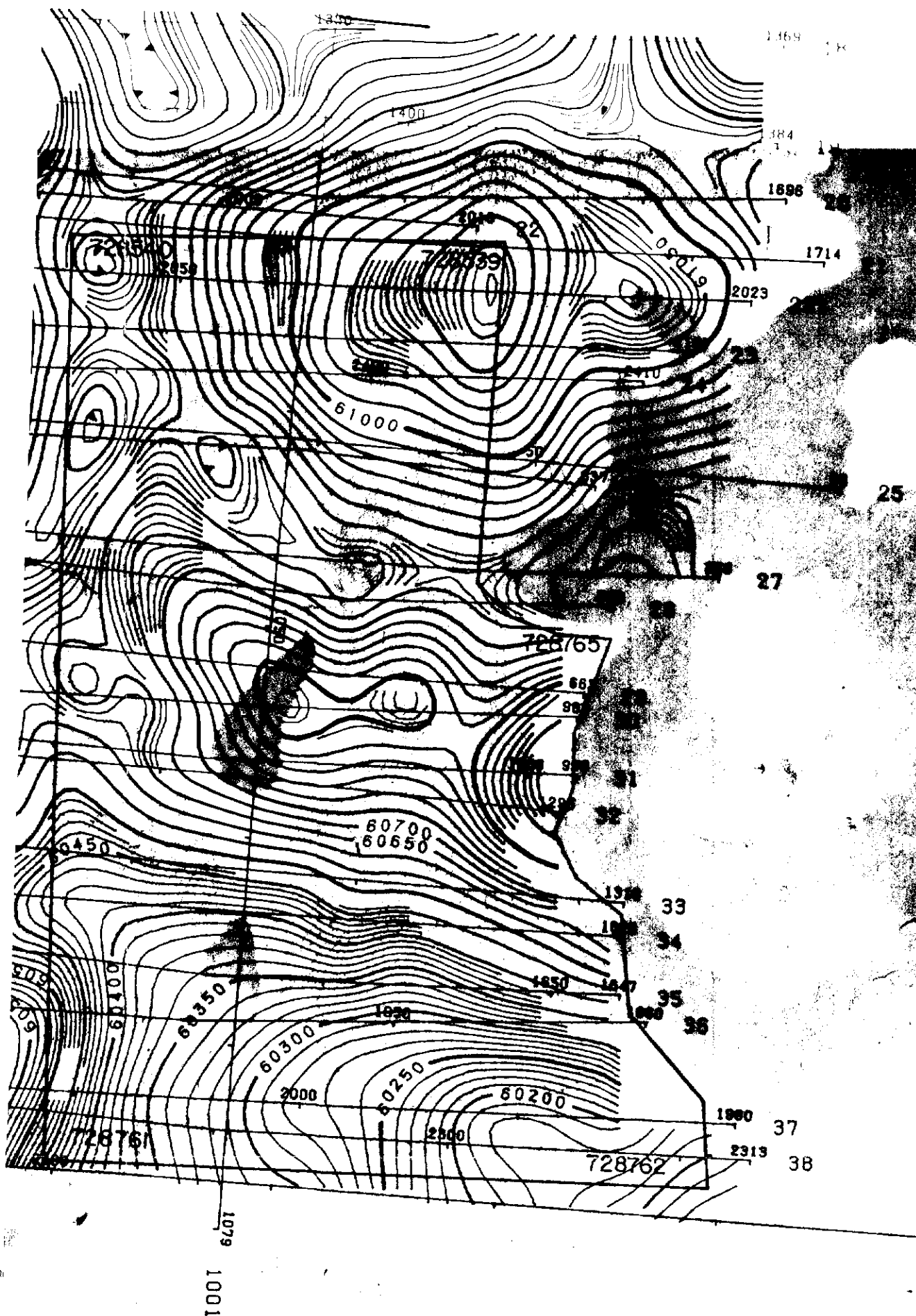
INTERPRETATION

BLOCK 1
 ROWAN LAKE AREA
 ONTARIO

NTS NO. 52 F/5	DRAWING NO. B 409-1-4
SCALE 1:10,000	DATE January, 1985

TERRAQUEST LIMITED
 TORONTO, CANADA





LEGEND

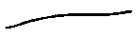
TERRAIN CLEARANCE 100 meters

LINE SPACING 100 meters

1000 gammas



50 gammas



10 gammas



MR. WAYNE WYMARK

AIRBORNE MAGNETIC SURVEY

TOTAL MAGNETIC FIELD

BLOCK 2

ROWAN LAKE AREA

ONTARIO

27704

N.T.S. NO: 52 F/5

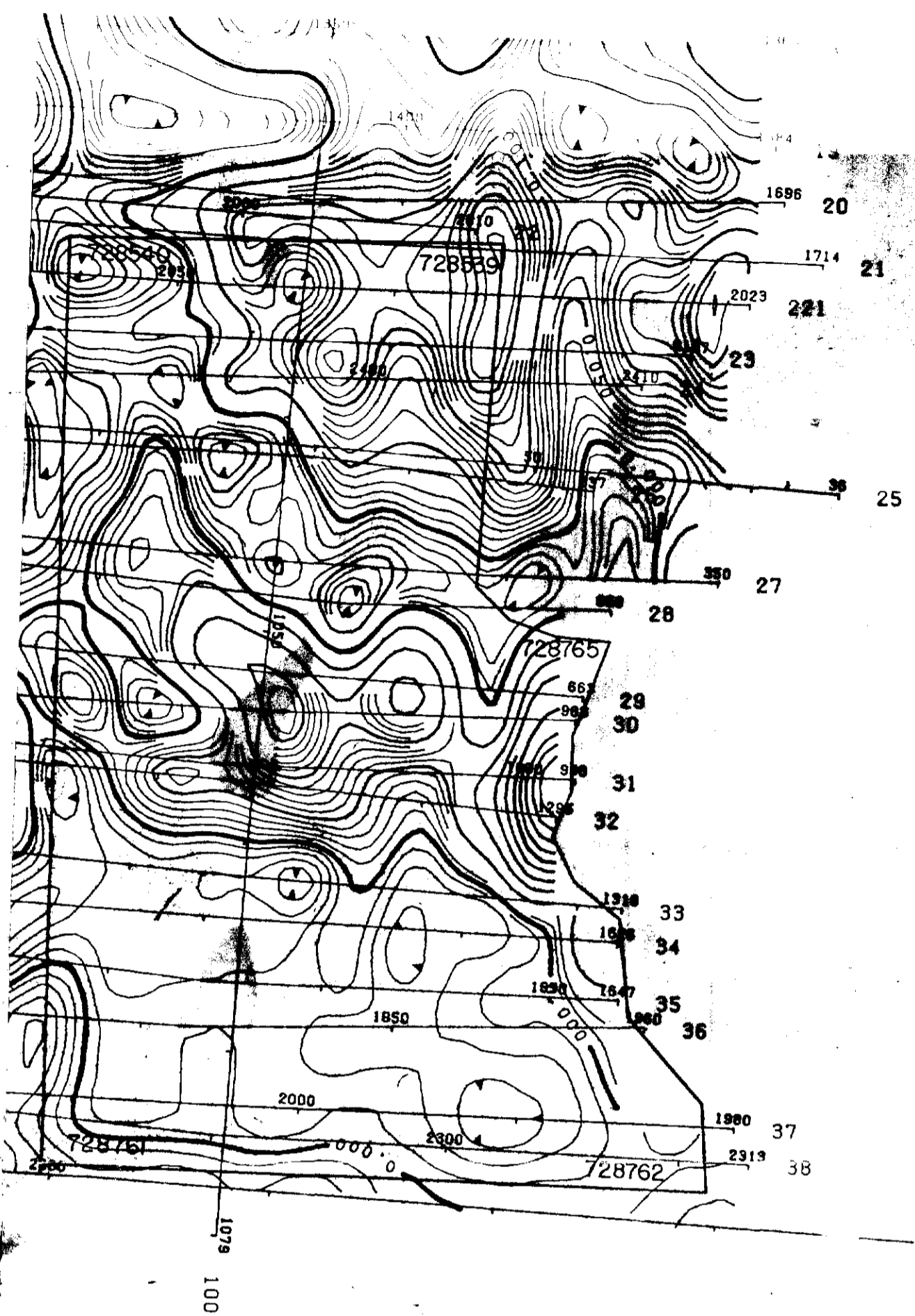
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SCALE 1:10,000

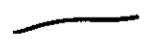


DATE: January, 1985

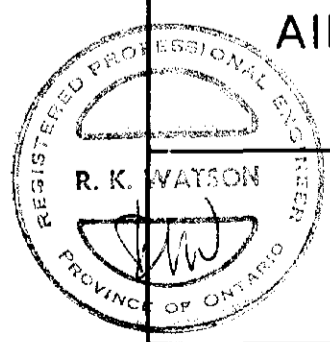
TERRAQUEST LIMITED
TORONTO, CANADA





LEGEND
 TERRAIN CLEARANCE 100 meters
 LINE SPACING 100 meters

0-00 gammas / m 
 0-05 gammas / m 
 0-01 gammas / m 



MR. WAYNE WYMARK

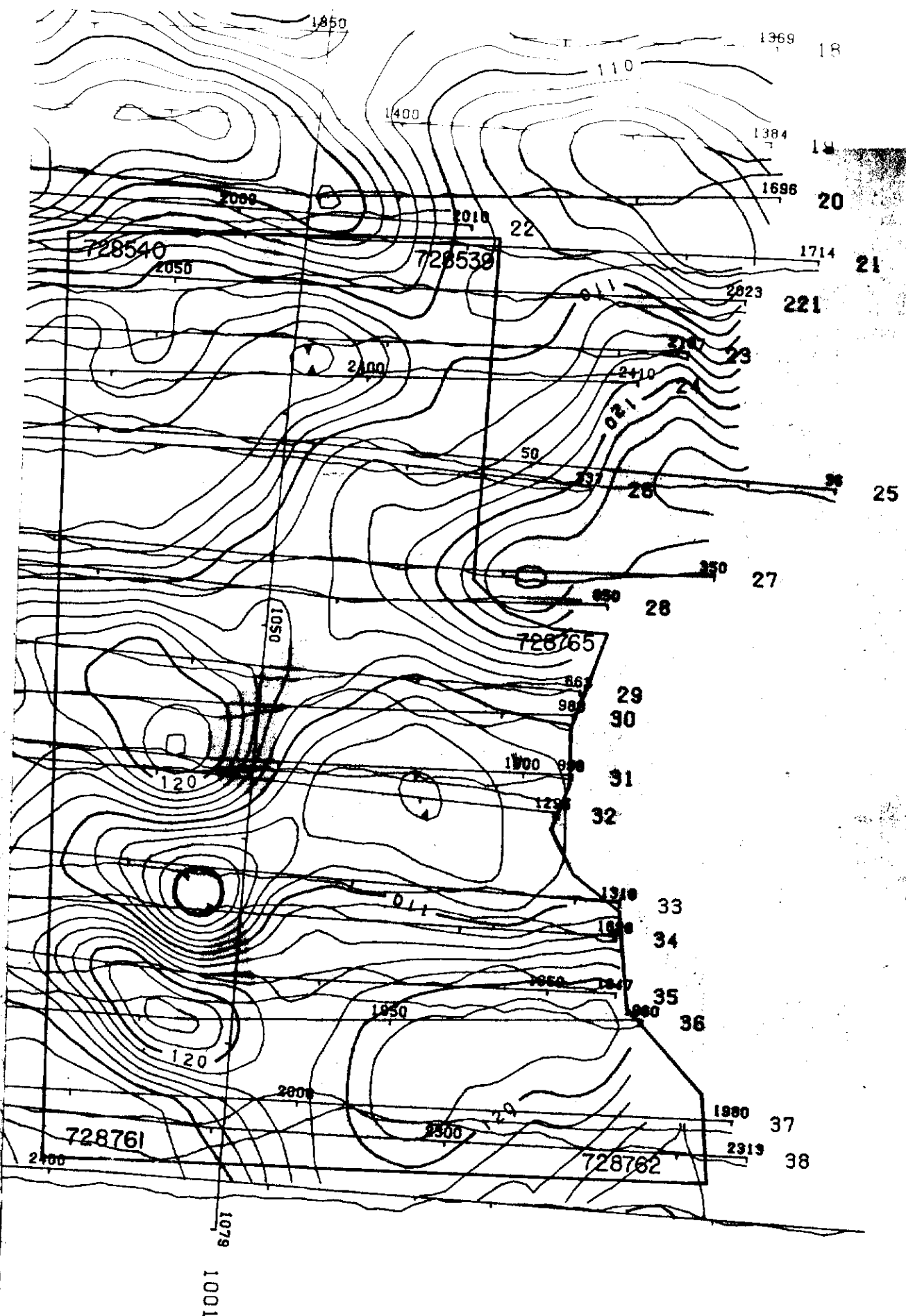
AIRBORNE MAGNETIC SURVEY
 VERTICAL MAGNETIC GRADIENT
 Calculated From Total Field

BLOCK 2
 ROWAN LAKE AREA ²⁷⁷⁰⁴
 ONTARIO

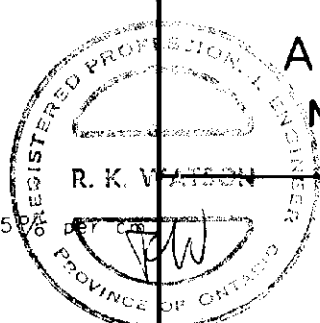
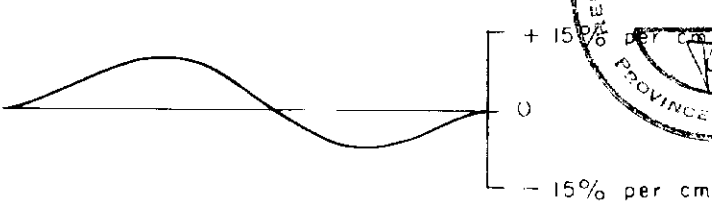
N.T.S. NO: 52 F/5	DRAWING NO. B 409-2 -2
SCALE 1:10,000	DATE: January, 1985

TERRAQUEST LIMITED
 TORONTO, CANADA





LEGEND
 TERRAIN CLEARANCE 100 meters
 LINE SPACING 100 meters
 CONTOURS OF TOTAL FIELD STRENGTH
 PROFILES OF QUADRATURE



MR. WAYNE WYMARK

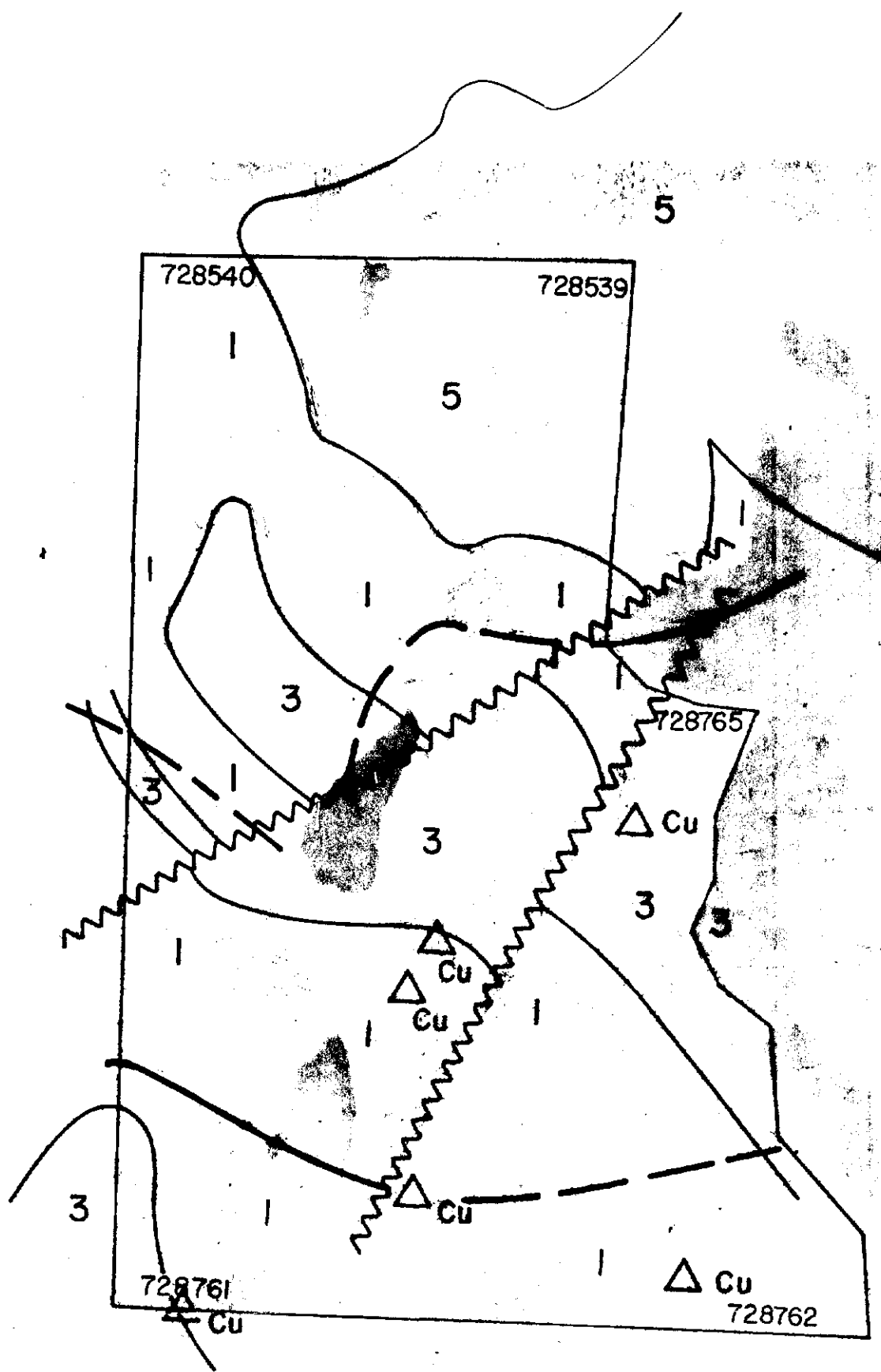
AIRBORNE VLF-EM SURVEY
 NLK, JIM CREEK, WASH. - 24.8 kHz

BLOCK 2
 ROWAN LAKE AREA 2770'
 ONTARIO

N.T.S. NO. 52 F/5	DRAWING NO. B 409.2 - 3
SCALE 1:10,000	DATE: January, 1985

TERRAQUEST LIMITED
 TORONTO, CANADA





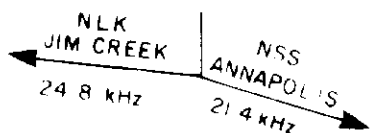
LEGEND

- TERRAIN CLEARANCE 100 meters
- LINE SPACING 100 meters
- CONTACT
- FAULT
- GABBRO DYKE
- LATE ARCHEAN GRANITE INTRUSION
- MAFIC TO INTERMEDIATE VOLCANICS
- MINERAL OCCURRENCES
- VLF CONDUCTORS



52F05NE0013 2.7704 ATIKWA LAKE (GRAPNEL)

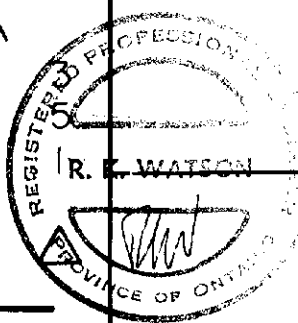
290



MR. WAYNE WYMARK

INTERPRETATION

BLOCK 2
 ROWAN LAKE AREA ^{2.7704}
 ONTARIO



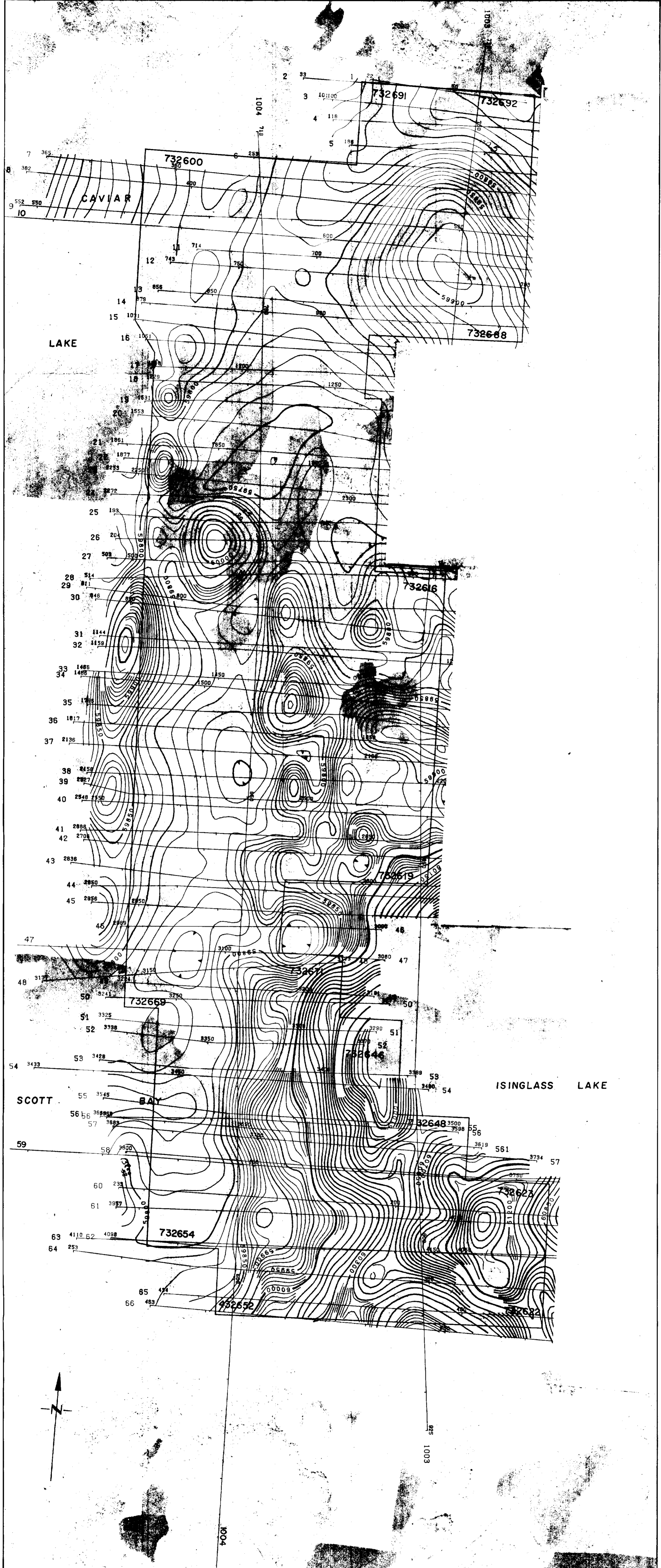
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DRAWING NO. B 409-2-4

SCALE 1:10,000

DATE: January, 1985

TERRAQUEST LIMITED
 TORONTO, CANADA

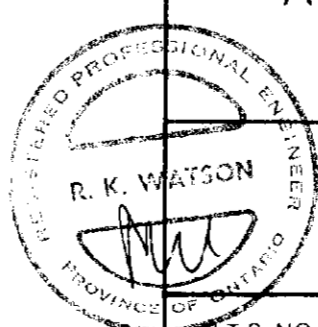


LEGEND
 TERRAIN CLEARANCE 100 metres
 LINE SPACING 100 metres

MR. WAYNE WHYMARK

AIRBORNE MAGNETIC SURVEY
 TOTAL MAGNETIC FIELD

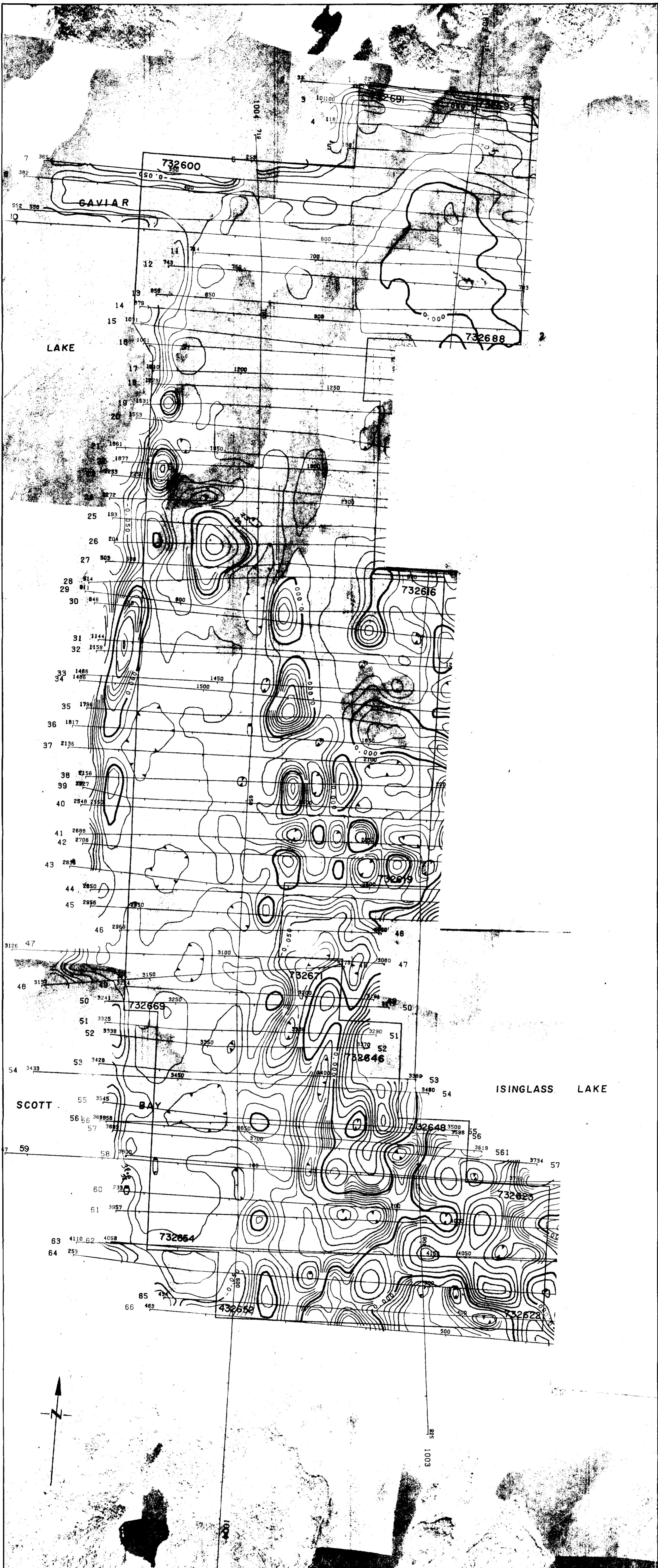
BLOCK 3
 ROWAN LAKE AREA
 ONTARIO



N.T.S. NO. 52 F/5 DRAWING NO. B 409-3-1
 SCALE 1:10,000 DATE: January, 1985

TERRAQUEST LIMITED
 TORONTO, CANADA





LEGEND
 TERRAIN CLEARANCE 100 metres
 LINE SPACING 100 metres

0.00 1:10000 /m
 0.05 1:10000 /m
 0.01 1:10000 /m

MR. WAYNE WHYMARK

AIRBORNE MAGNETIC SURVEY
 VERTICAL MAGNETIC GRADIENT
 Calculated From Total Field

BLOCK 3
 ROWAN LAKE AREA
 ONTARIO



N.T.S. NO. 52 F/5

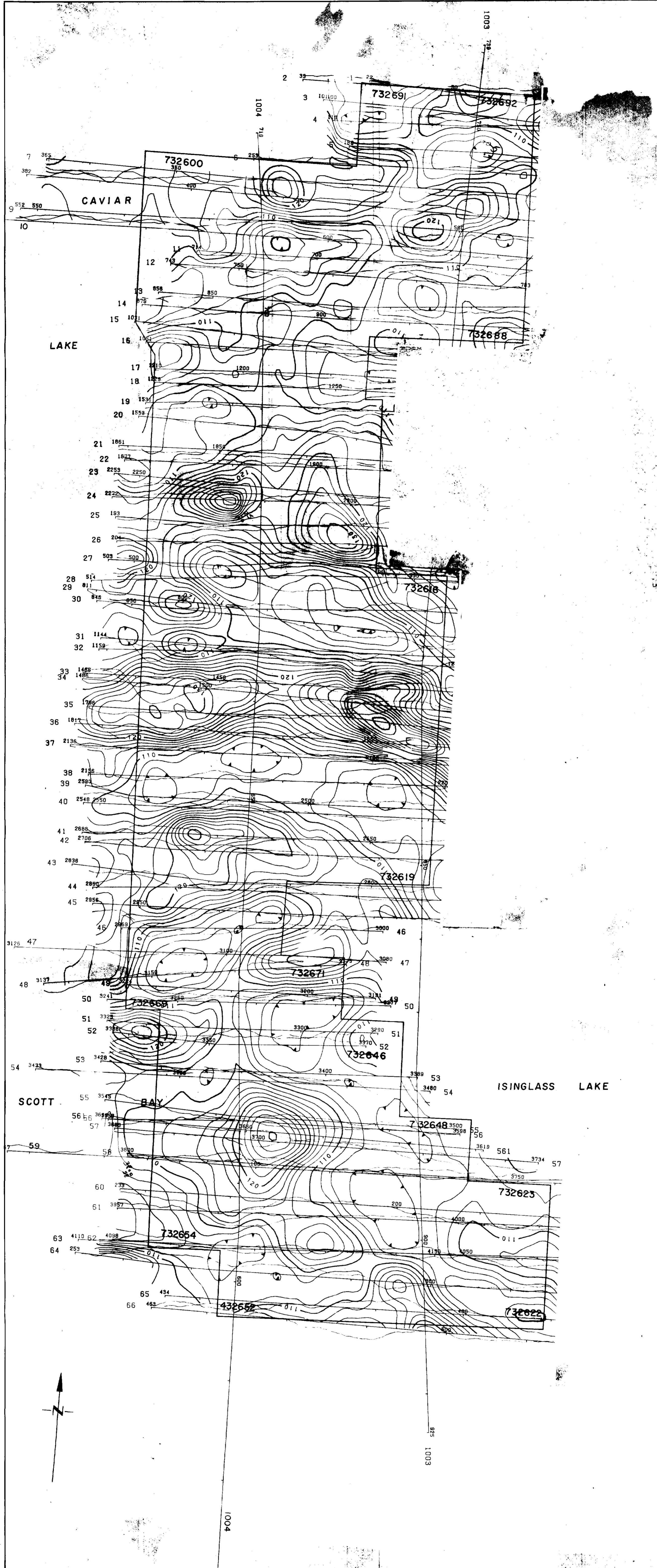
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SCALE 1:10,000

DATE January, 1985

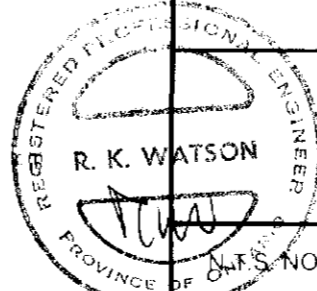
TERRAQUEST LIMITED
 TORONTO, CANADA





LEGEND
 TERRAIN CLEARANCE 100 metres
 LINE SPACING 100 metres

50 %
 10 %
 2 %



MR. WAYNE WHYMARK

AIRBORNE VLF-EM SURVEY
 NLK, JIM CREEK, WASH. - 24.8 kHz.

BLOCK 3 27704
 ROWAN LAKE AREA
 ONTARIO

SCALE 1:10,000
 DRAWING NO. B 409.3 - 3
 DATE January, 1985

TERRAQUEST LIMITED
 TORONTO, CANADA



CAVIAR
LAKE



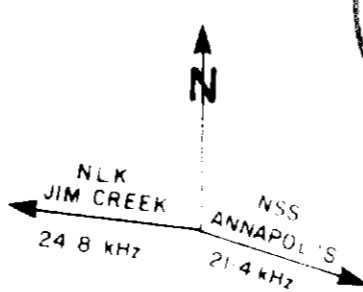
SCOTT BAY

ISINGLASS



LEGEND
TERRAIN CLEARANCE 100 metres
LINE SPACING 100 metres

CONTACT
FAULT
GABBRO DYKE 3
LATE ARCHEAN GRANITE INTRUSION 5
MAFIC TO INTERMEDIATE VOLCANICS 1
MINERAL OCCURRENCES
VLF CONDUCTORS



MR. WAYNE WHYMARK

INTERPRETATION

BLOCK 3
ROWAN LAKE AREA
ONTARIO

MTS NO. 52 F/5
DRAWING NO. B 409-3-4
SCALE 1:10,000
DATE January, 1985

TERRAQUEST LIMITED
TORONTO, CANADA

