



42A12SE0503 2.8160 TURNBULL

010

Unit One 121 Bay Street West, Toronto, Canada, M5H 2K1, Telephone (416) 869-0010

REPORT ON AN
AIRBORNE MAGNETIC AND VLF-EM SURVEY
TURNBULL TOWNSHIP
PORCUPINE MINING DIVISION, ONTARIO

for

655 GROUP HOLDINGS LIMITED

RECEIVED

MAY 27 1985

by

MINING LANDS SECTION

TERRAQUEST LTD.
Toronto, Canada

MAY 27, 1985

TERRAQUEST LTD.





42A12SE0503 2.8160 TURNBULL

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Hammond Street West, Toronto, Canada, M5H 2K1, Telephone: (416) 869-0010



1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for 655 Group Holdings Limited of Timmins, Ontario by Terraquest Ltd., 905 - 121 Richmond St. W., Toronto, Canada. The field work was performed on Mar. 24, 1985, and the data processing, interpretation and reporting from March 1985 to May 27, 1985.

The purpose of a survey of this type is two-fold. One is to prospect directly for anomalously conductive and magnetic areas in the earth's crust which may be caused by, or at least related to, mineral deposits. A second is to use the magnetic and conductivity patterns derived from the survey results to assist in mapping geology, and to indicate the presence of faults, shear zones, folding, alteration zones and other structures potentially favourable to the presence of gold and base-metal concentration. To achieve this purpose the survey area was systematically traversed by an aircraft carrying geophysical instruments along parallel flight lines spaced 100 meters apart, 100 meters above the terrain surface, and aligned so as to intersect the regional geology in a way to provide the optimum contour patterns of geophysical data.

2. THE PROPERTY

The property is located in Turnbull Township, in the Porcupine Mining Division of Ontario about 25 kilometers due east of the city of Timmins, Ontario. The claims are divided into two groups as shown in figure 3 and referred to as Block 1 (the western group) and Block 2 (east). They can be reached by forestry road from the Kam Kotia Mine road some 8 kilometers to the east.

The latitude and longitude are 48 degrees 30 min., and 81 degrees 40 min. respectively, and the N.T.S. reference is 42 A/5

The claim numbers are:

P628225, 649632-642, 699719-730, 700246-251, 708902-909, 708914-921, 796746-755, 805430-438, and 806295-299.

3. GEOLOGY

Map Reference:

1. Map 2330, Turnbull and Godfrey Twps, O.D.M., 1:31,680 1975

Block 1 (west) is underlain by Archean mafic and ultramafic intrusives which have been intruded in places by granitic rocks and by diabase dykes striking north-south. One small exposure of mafic volcanics occurs in the southern part.

A mineral occurrence, presumably gold, operated in the past by New Hope Porcupine Gold mines Ltd., lies in the ultramafics and includes a shaft. A property owned by Staten Porcupine Gold Mines

TERRAQUEST LTD.



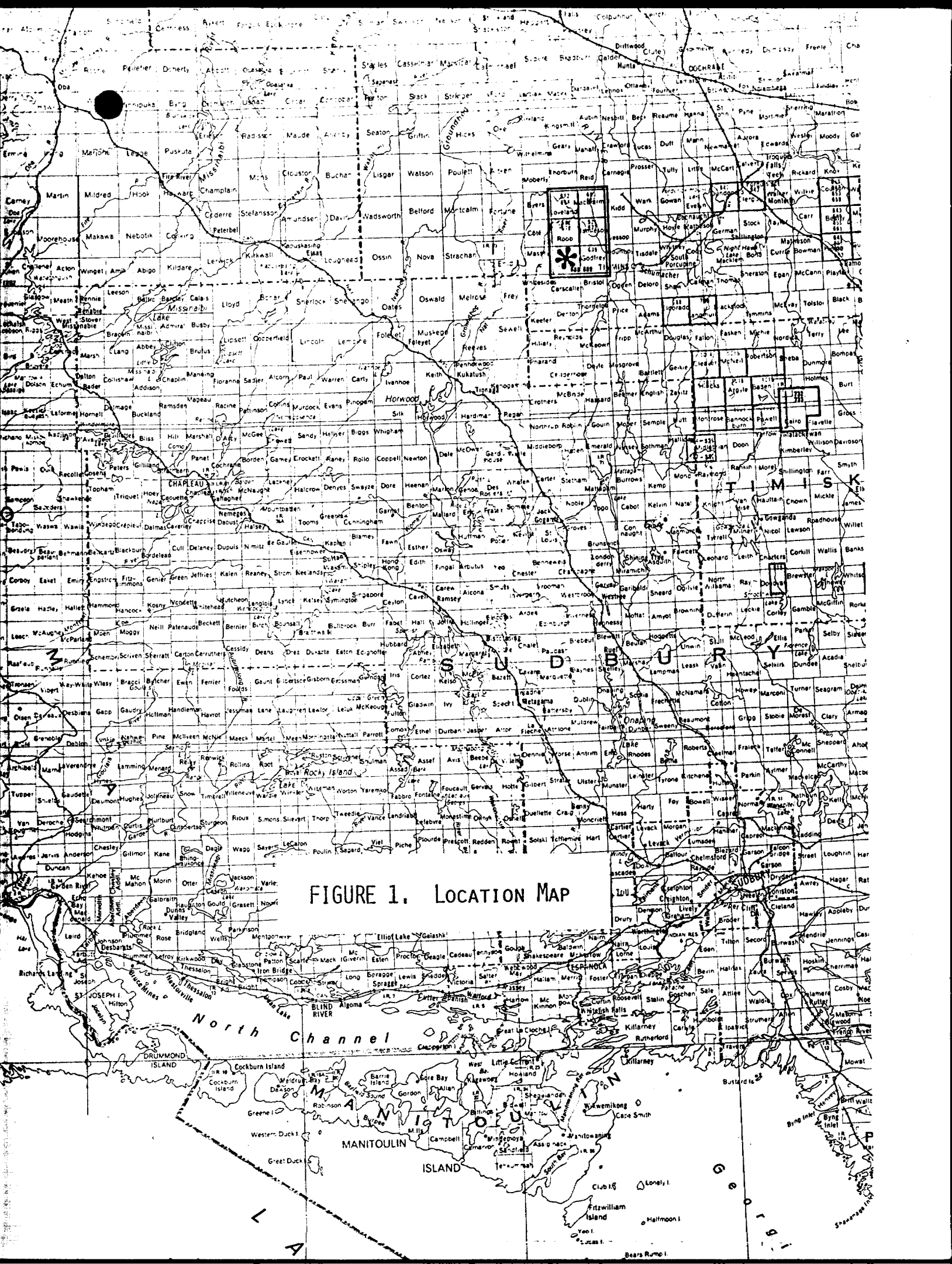
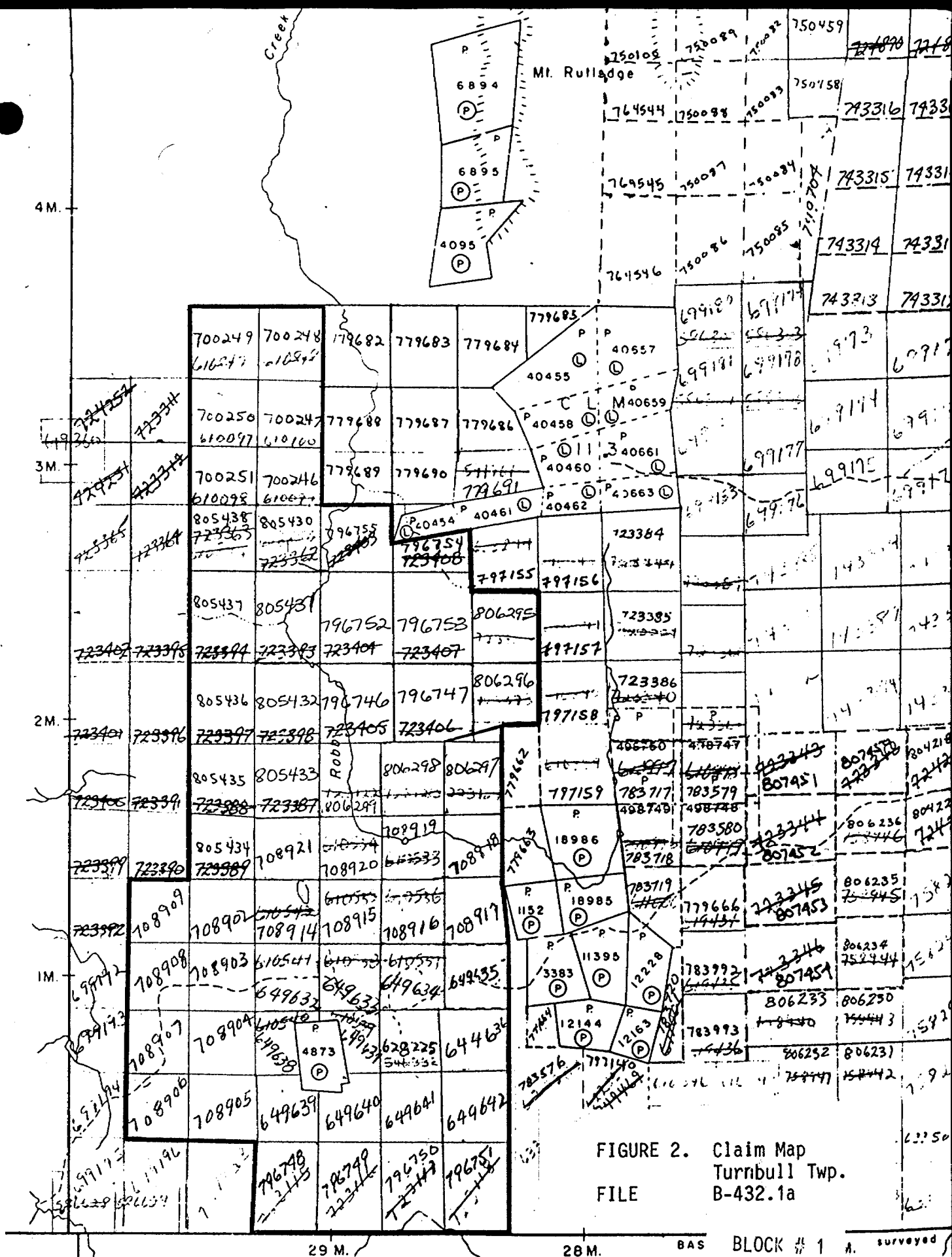


FIGURE 1. LOCATION MAP

Massey TP. (M. 296)



Carscallen TP.

Ltd. lies on the east boundary and the workings appear to be in the ultramafics.

Block 2 (east) is underlain mainly by felsic intrusives defined as granophyric quartz-albite porphyry, with some of the earlier mafic intrusives to the north and exposures of very early mafic volcanics along the west edge. A few diabase dykes traverse the group from north to south and northwesterly.

Some old workings lie in the centre of the property in the felsic rocks.

4. SURVEY SPECIFICATIONS

4.1 Instruments

The survey was carried out using a Cessna 182 aircraft, registration C-FAKK, which carries a magnetometer and a VLF electromagnetic detector.

The magnetometer is a proton precession type with the sensor element mounted in an extension of the right wing tip. It's specifications are as follows:

Resolution:	0.5 gamma
Accuracy:	One gamma
Cycle time:	One second
Range:	20000 - 100000 gammas in 23 overlapping

steps

Gradient tolerance:	Up to 5000 gammas per meter
Model:	GSM-8BA
Manufacturer:	GEM Systems Inc., 105 Scarsdale Rd., Don Mills, Ontario, M3B 2R5

The VLF-EM unit uses three orthogonal detector coils to measure (a) the total field strength of the time-varying EM field and (b) the phase relationship between the vertical coil and both the "along line" coil (LINE) and the "cross-line" coil (ORTHO). The LINE coil is tuned to a transmitter station that is ideally positioned at right angles to the flight lines, while the ORTHO coil transmitter should be in line with the flight lines. It's specifications are:

Accuracy:	1%
Reading interval:	1/2 second
Model:	TOTEM 2A
Manufacturer:	Herz Industries, Toronto

The VLF sensor is mounted in the left wing tip extension.

Other instruments are:

- . King KRA-10A Radar altimeter
- . UDAS-100 data processor with Digidata nine track tape recorder, manufactured by Urtec Ltd., Markham, Ontario.
- . Geocam video camera and recorder for flight path recovery,

manufactured by Geotech Ltd., Markham, Ontario.

4.2 Lines and Data

- a) Line spacing: 100 meters
- b) Line direction: east-west
- c) Terrain clearance: 100 meters
- d) Average ground speed: 156 km/hr.
- e) Data point interval:
 - Magnetic: 42 meters
 - VLF-EM: 21 meters
- f) Tie Line interval: 2 kilometers
- g) Channel 1 (LINE): NSS Annapolis, 21.4 kHz.
- h) Channel 2 (ORTHO): NAA Cutler, Maine, 24.0 kHz.
- i) Line km within claim boundaries: 135
- j) Line km over total survey area: 224

4.3 Tolerances

- a) Line spacing: Any gaps wider than twice the line spacing and longer than 10 times the line spacing were filled in by a new line.
- b) Terrain clearance: Portions of line which were flown above 125 meters for more than one km were reflown if safety considerations were acceptable.
- c) Diurnal magnetic variation: Less than twenty gammas deviation from a smooth background over a period of two minutes or less as seen on the base station analogue record.
- d) Manoeuvre noise: Approximately +/-5 gammas.

4.4 Photomosaics

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

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 magnetic data was levelled in the standard manner by tying survey lines to the tie lines. The IGRF was not been removed. The total field was contoured by computer using a program provided by Dataplotting Services Inc. To do this the final levelled data set is

TERRAQUEST
DTE 09 01 85 TM 12 28 20: BY: M.M.
ACFT C-FAKK PN 8437 FLTN 051

PROG.VER.220184-GRAD.
SURALT 100M

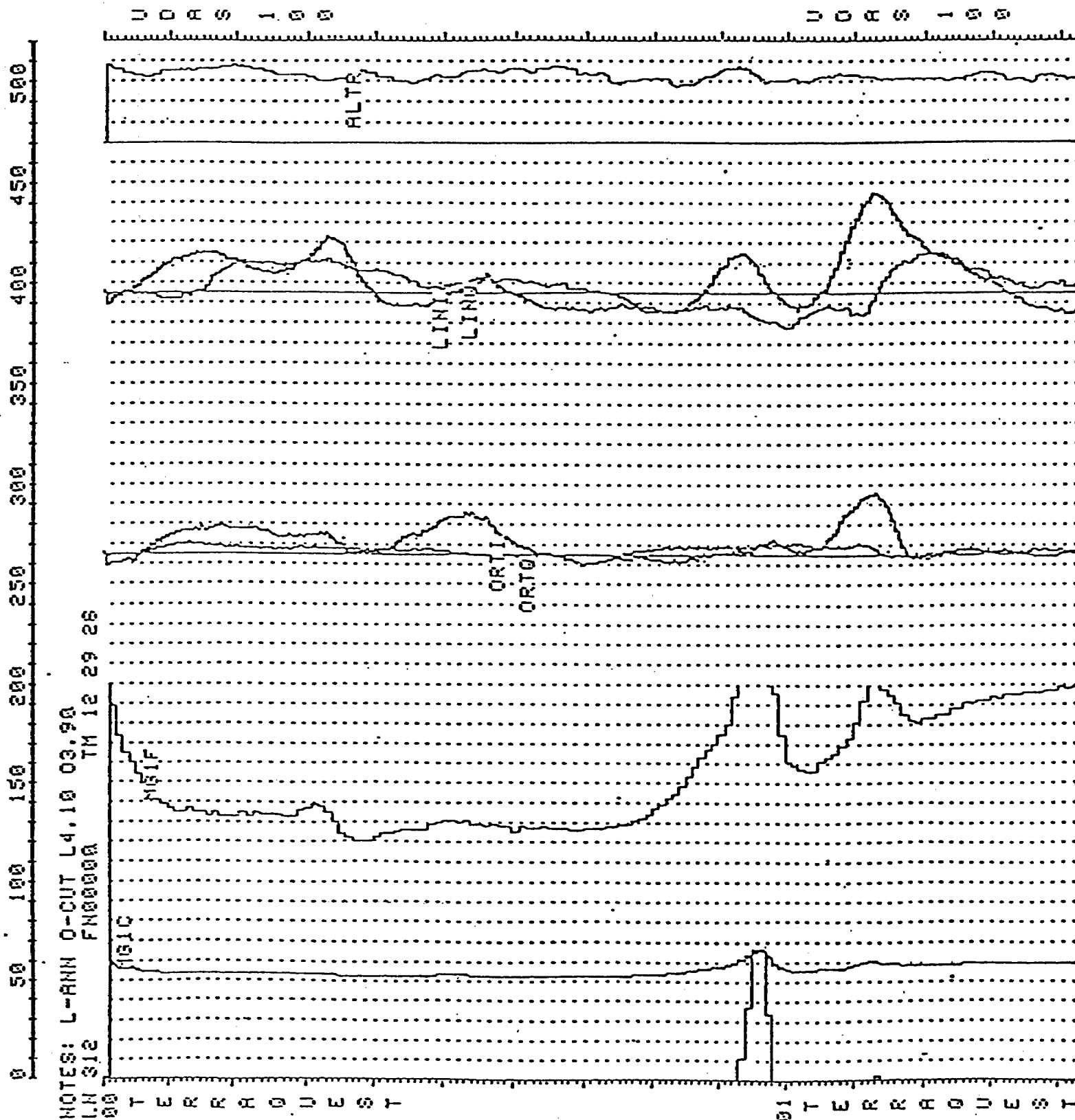


FIGURE 3. SAMPLE OF ANALOGUE DATA

gridded at a grid cell spacing of 1/4 the flight line spacing.

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

The VLF data was treated automatically so as to normalize the non conductive background areas to 100 (total field strength) and zero (quadrature). The algorithms to do this were developed by Terraquest and will be provided to anyone interested by application to the company.

- Grant, F.S.; Review of Data Processing and Interpretation Methods in Gravity and Magnetism; Geophysics, August 1972.
Spector, A.; Spectral Analysis of Aeromagnetic maps; unpublished thesis; University of Toronto, 1961.

All of these dataprocessing calculations and map contouring were carried out by Dataplotting Services Inc. of Toronto.

6. INTERPRETATION

6.1 General Approach

To satisfy the purpose of the survey as stated in the introduction, the interpretation procedure was carried out on both the magnetic and VLF data. On a local scale the magnetic gradient contour patterns were used to outline geological units which have different magnetic intensity and patterns or "signatures". Where possible these are related to existing geology to provide a geological identity to the units. On a regional scale the total field contour patterns were used in the same way.

Faults and shear zones are interpreted mainly from lateral displacements of otherwise linear magnetic anomalies but also from long narrow "lows". The direction of regional faulting in the general area is taken into account when selecting faults. Folding is usually seen as curved regional patterns. Alteration zones can show up as anomalously quiet areas, often adjacent to strong, circular anomalies that represent intrusives.

Magnetic anomalies caused by iron deposits of ore quality are usually clearly seen from their high amplitude, often in the tens of thousands of gammas. Diabase dykes are one of the most common magnetic features seen in the Ontario part of the precambrian shield.

6.2 Interpretation

a) Block 1

The magnetic contour pattern shows the presence of moderately magnetic rocks traversing the property for most of its length in a north-south direction. The vertical gradient data resolves these trends into a number of parallel bands which are identified as diabase dykes and which are well supported by the mapped geology. About nine or ten individual dykes are seen, most of which extend the full length of the claim group. Lateral offsets of these features are interpreted as faults.

The difference between the granitic rocks and the basic intrusives is not apparent in the magnetic pattern and so these units have not been outlined.

A number of VLF-EM conductor axes were found, nearly all of which strike approximately north-south. Conductor A is one of the strongest, conforms with regional strike direction, coincides partly with a diabase dyke and then moves away from the dyke, and in general appears to be related to bedrock rather than overburden. Conductor B is also of interest because of its strength and proximity to the old workings. Both are recommended for further investigation by conventional EM methods or Induced Polarization.

b) Block 2

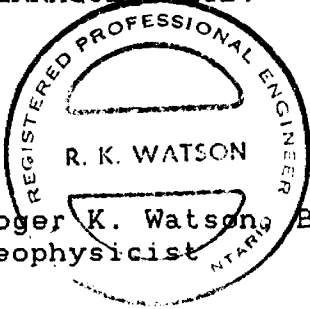
The magnetic pattern again shows a number of diabase dykes and they trend about north 15 degrees west. Unlike block 1, the mafic intrusives in this area appear to have a strong magnetic response and can be tentatively distinguished from the felsic intrusives. Unit no. 7, intermediate intrusives, have a definite signature in the south and have been outlined. The contact with the volcanics to the west, however, cannot be seen.

A number of VLF-EM conductors are seen which conform in strike direction to the local geology and so appear to be related to bedrock although mostly occur in covered areas. The conductor axes showing the reverse quadrature response are, in theory, most likely to be caused by bedrock conductors and should be investigated further.

7. SUMMARY

A combined magnetic and VLF-EM survey has been done on the claim group at a data density of approximately 1.6 km. per mineral claim. The magnetic data has been used to modify and update the existing geology and has shown a number of new contacts and faults. A number of VLF-EM conductor axes were found of which some are believed to be have potential sulphide origin and have been recommended for additional investigation.

TERRAQUEST LTD.



Roger K. Watson

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

63-1498





42A12SE0503 2.8160 TURNBULL

900

Mining Lands Section

File No 2.8160

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

Lgd.
LD

Dave
Signature of Assessor

17/6/85
Date



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

097/85
2.8160
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.

may 15/85

Type of Survey(s) **AIRBORNE GEOPHYSICAL - EM, MAG-VLF** Township or Area **TURNBULL TWP**

Claim Holder(s) **655 GROUP HOLDINGS LIMITED
Robert M. Onotsky** Prospector's Licence No. **T-1200 & C31013**

Address **680 Dieppe Street - P.O. Box 216 - Timmins, Ontario - P4n-7C9**

Survey Company **TERRAQUEST LTD** Date of Survey (from & to) **24 3 85 24 3 85** Total Miles of line Cut

Name and Address of Author (of Geo-Technical report) **MR ROGER K WATSON - 1214-111 RICHMOND ST WEST, TORONTO 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	Geophysical	Days per Claim
Complete reverse side and enter details here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

Expenditures (Type of Work Performed on Calculation of Total Expenditures) **\$ 15 =**

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.

Date **March 26, 1985** Recorded Holder or Agent (Signature) **Robert M. Onotsky**

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 **CHARLES Q. BARRIE TERRAQUEST LTD., 1214-111 RICHMOND ST. WEST, TORONTO, M5H 2G4** Date Certified **March 25, 1985** Certified by (Signature) **[Signature]**

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
	P628225	80		P805430	80
	P649632	80		P805431	80
	P649633	80		P805432	80
	P649634	80		P805433	80
	P649635	80		P805434	80
	P649636	80		P805435	80
	P649637	80		P805436	80
	P649638	80		P805437	80
	P649639	80		P805438	80
	P649640	80		P806295	80
	P649641	80		P806296	80
	P649642	80		P806297	80
	P708914	80		P806298	80
	P708915	80		P806299	80
	P708916	80		P699719	80
	P708917	80		P699720	80
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	P708904	80		P699727	80
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	P708906	80		P699729	80
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	P796751	80			
	P796752	80			
	P796753	80			
	P796746	80			
	P796747	80			
	P796754	80			
	P796755	80			

RECEIVED
APR 09 1985
MINING LANDS SECTION

OK
Please sign
LD Dong

RECORDED
MAR 2 1985
No. [Signature]

Total number of mining claims covered by this report of work. **70**

For Office Use Only
Total Days Cr. Recorded **5,600** Date Recorded **March 26/85**
Date Approved as Recorded **3.6.85**

REGISTERED

May 15, 1985

Report of Work #97/85

655 Group Holdings Ltd
Robert M. Onotsky
680 Dieppe Street
P.O. Box 216
Timmins, Ontario
P4N 7C9

Called
May 24th
checked for
Ext. to 31st of May.

Dear Sir:

RE: Mining Claims P 628225, et al,
in Turnbull Township

I have not received the reports and maps (in duplicate)
for the Airborne Geophysical (Magnetometer & Electromagnetic)
Survey on the above-mentioned claims.

As the assessment "Report of Work" was recorded by
the Mining Recorder on March 26, 1985, the 60 day period allowed
by Section 77 of the Mining Act for the submission
of the technical reports and maps to this office
will expire on May 25, 1985.

If the material is not submitted to this office by May 25, 1985,
I will have no alternative but to instruct the Mining
Recorder to delete the work credits from the claim
record sheets.

For further information, please contact Mr. Arthur Barr
at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

A. Barr:mc

cc: Mining Recorder
Timmins, Ontario

cc: Charles Q. Barrie
Terraquest Ltd
Toronto, Ontario

31st of
May

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

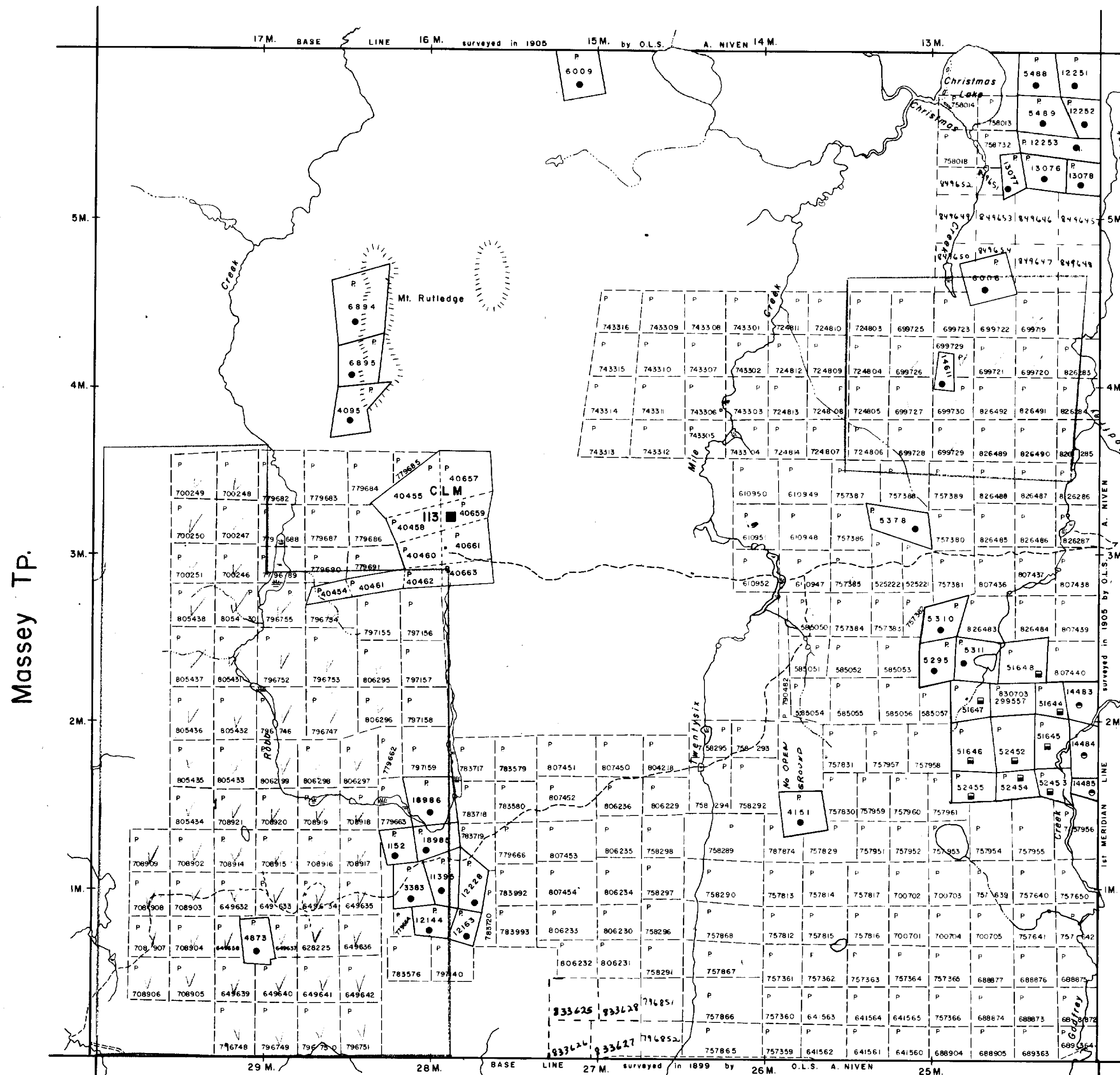
- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

NOTES

THIS TOWNSHIP LIES WITHIN THE MUNICIPALITY OF THE CITY OF TIMMINS

Robb TP



Carscallen Tp

LEGEND

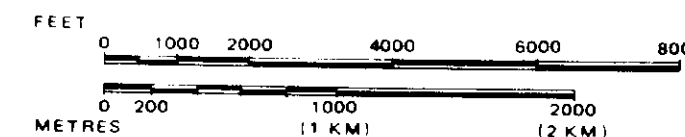
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- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊘
SAND & GRAVEL	⊙

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

SCALE: 1 INCH = 40 CHAINS



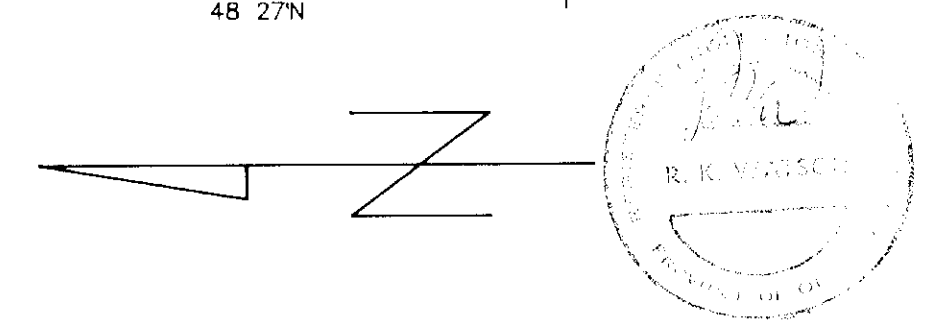
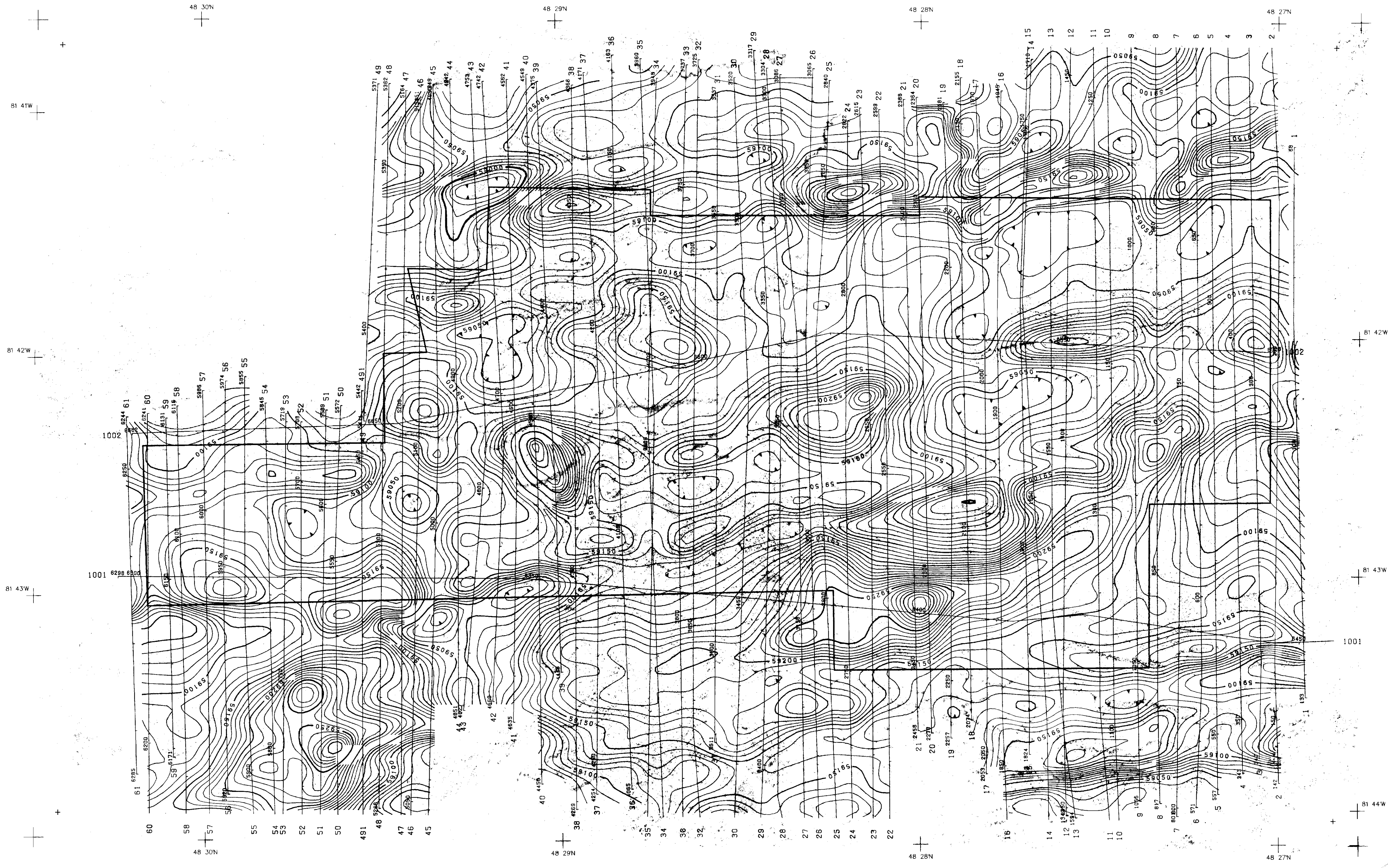
TOWNSHIP
TURNBULL
 M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Land Management
 Natural Resources Branch
 Ontario

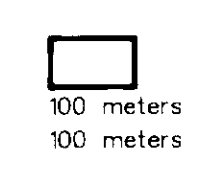
Date MARCH, 1985	Number
Draft	G-3250

MW April 19, 1985





LEGEND
 PROPERTY BOUNDARY ————
 TERRAIN CLEARANCE ————
 LINE SPACING ————
 1000 gammas ————
 250 gammas ————
 50 gammas ————
 10 gammas ————



655 GROUP HOLDINGS LIMITED

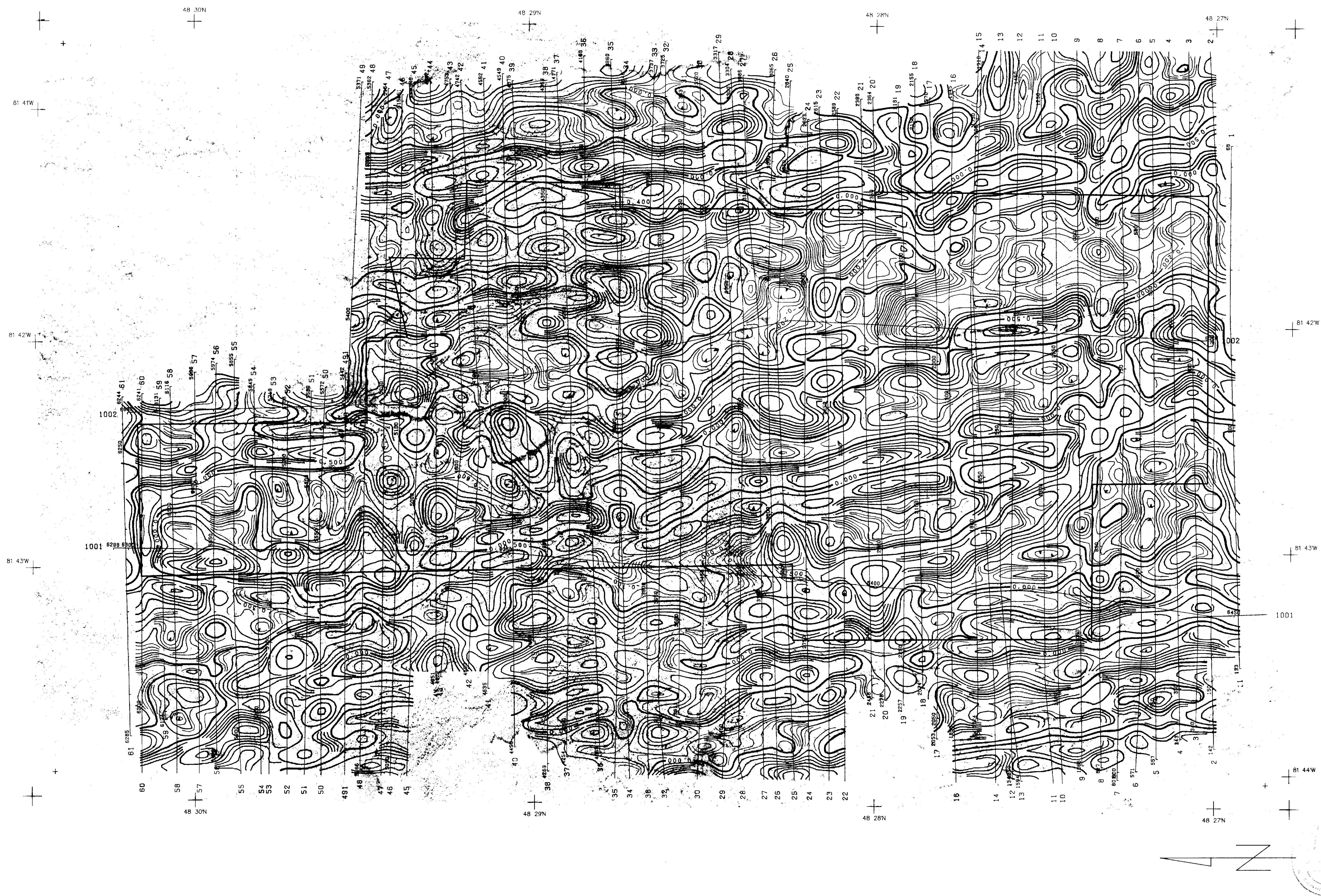
AIRBORNE MAGNETIC SURVEY
TOTAL MAGNETIC FIELD

TURNBULL TWP BLOCK 1


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SCALE 1 : 10,000	DATE: APRIL 1985	


TERRAQUEST LTD.
TORONTO, CANADA




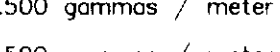


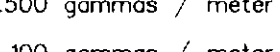
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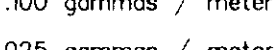
PROPERTY BOUNDARY  100 meters

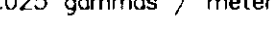
TERRAIN CLEARANCE  100 meters

LINE SPACING  100 meters

2.500 gammas / meter 

.500 gammas / meter 

.100 gammas / meter 

.025 gammas / meter 

655 GROUP HOLDINGS LIMITED

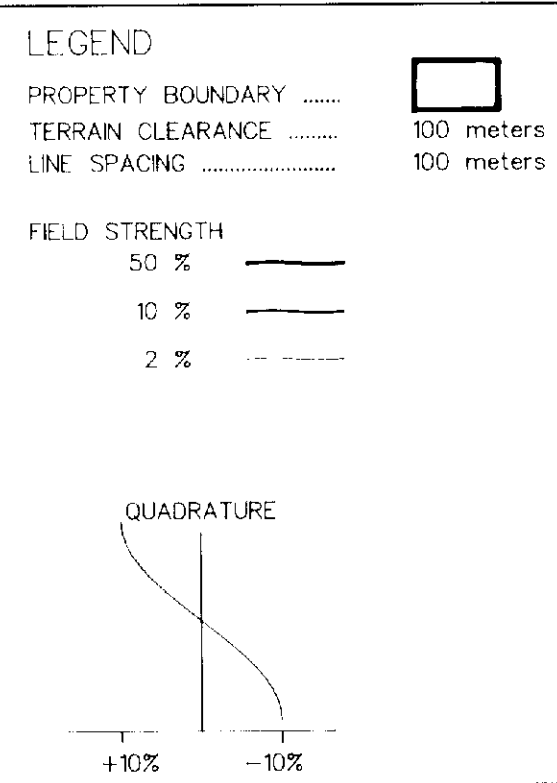
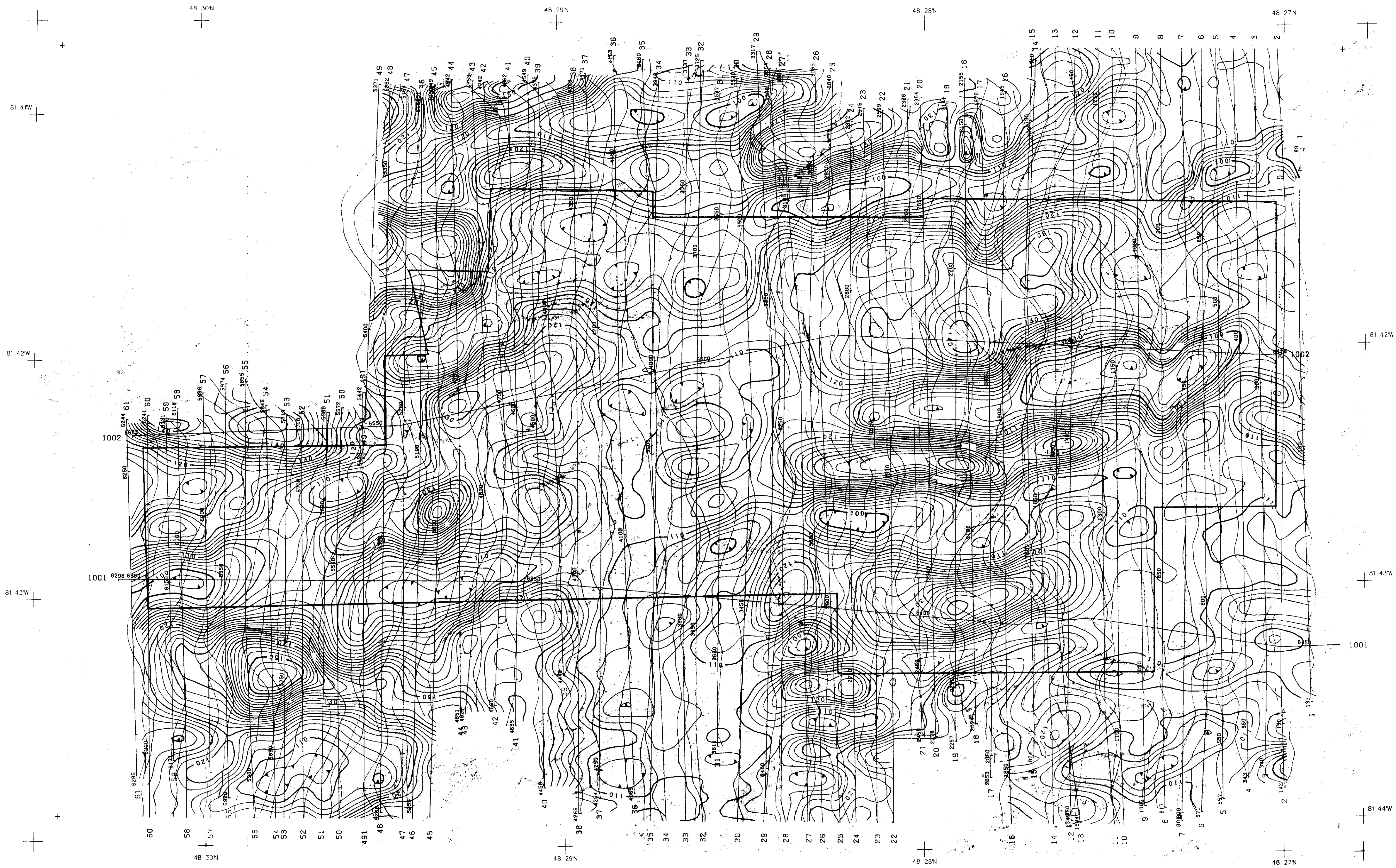
AIRBORNE MAGNETIC SURVEY
VERTICAL MAGNETIC GRADIENT
Calculated From Total Field

TURNBULL TWP BLOCK 1

N.T.S. NO:	42A/5	42A/12	DRAWING NO:	B-432.1-2
SCALE:	1 : 10,000		DATE:	APRIL 1985

TERRAQUEST LTD.
TORONTO, CANADA





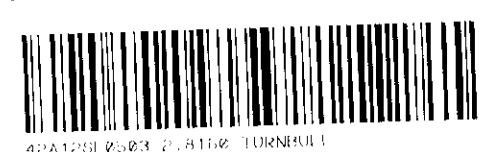
655 GROUP HOLDINGS LIMITED

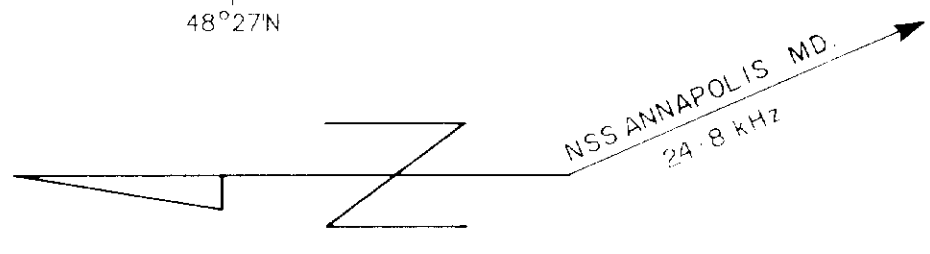
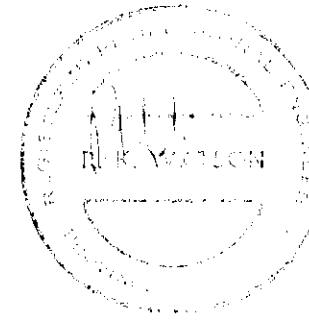
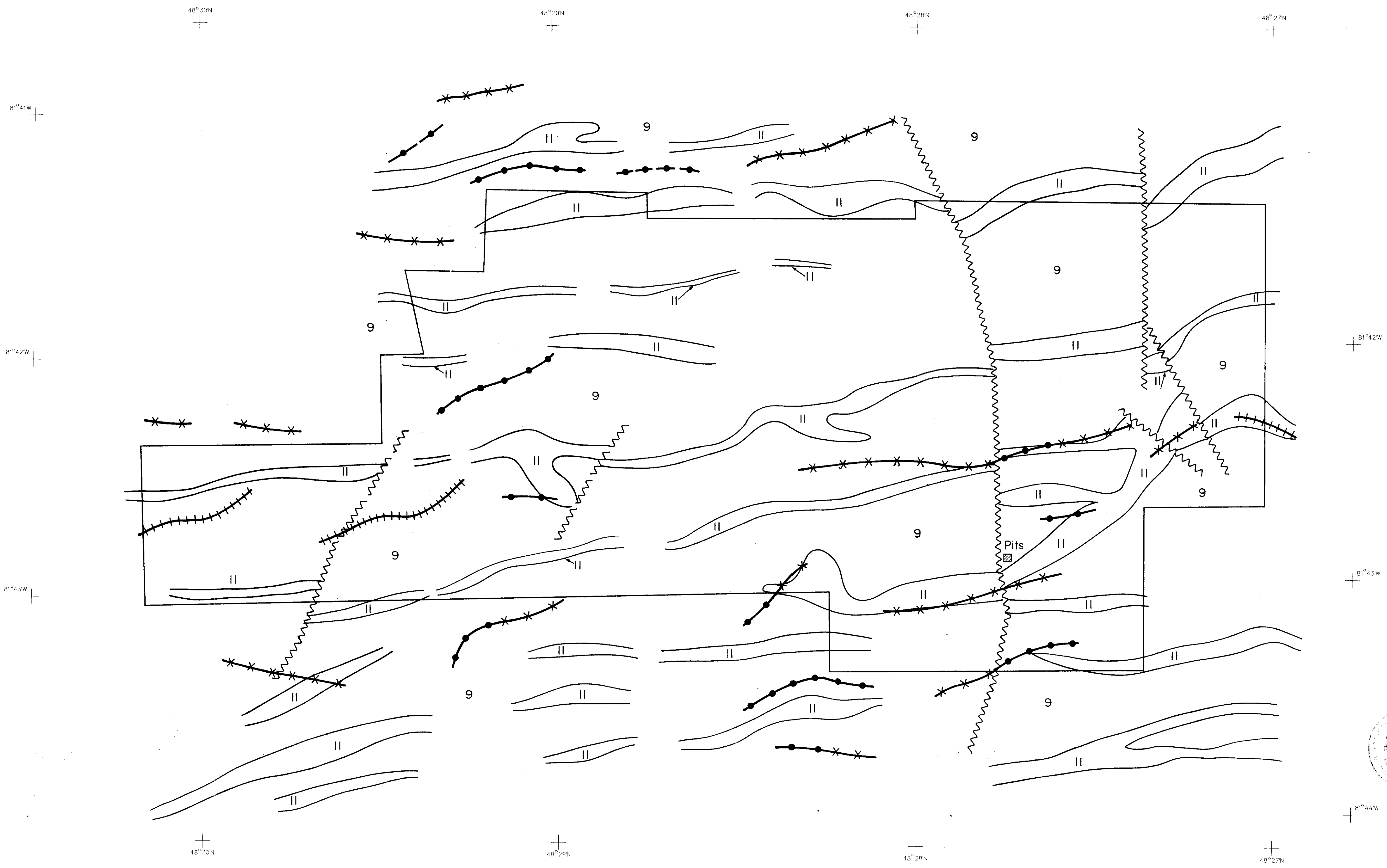
AIRBORNE VLF-EM SURVEY
 CONTOURS OF TOTAL FIELD STRENGTH
 PROFILES OF QUADRATURE

TURNBULL TWP BLOCK 1

N.T.S. NO: 42A/5	42A/12	DRAWING NO. B-432.1-3
SCALE 1 : 10,000	DATE: APRIL 1985	

TERRAQUEST LTD.
 TORONTO, CANADA





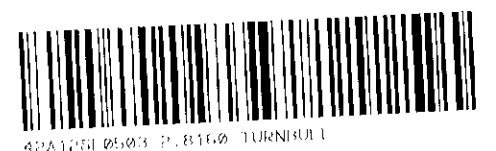
INTERPRETATION LEGEND

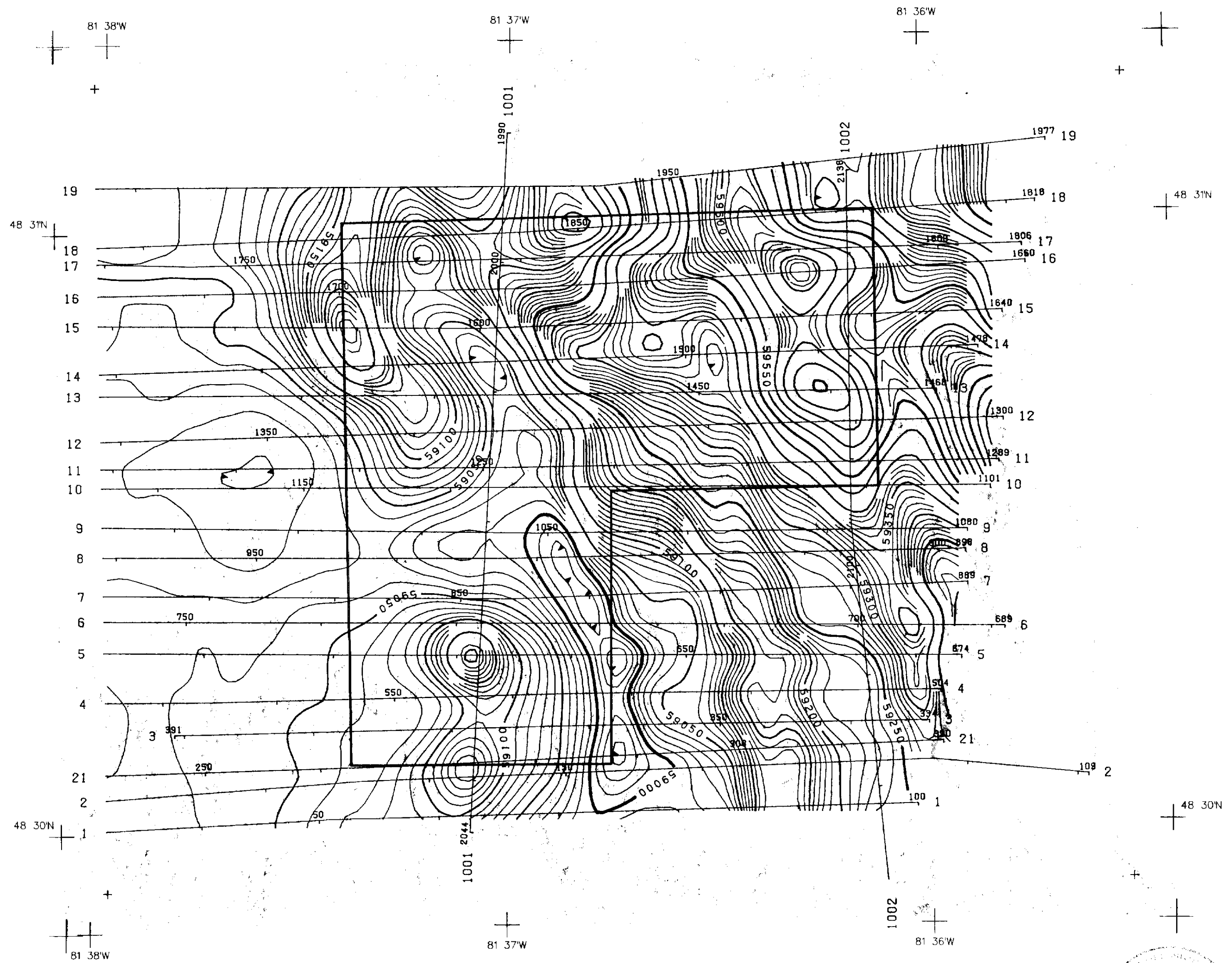
	VOLCANICS
	DIABASE DYKE
	CONTACT
	FAULT
VLF-EM conductor axes	
	NORMAL QUADRATURE
	REVERSE QUADRATURE
	IN PHASE ONLY (NO QUADRATURE)

LEGEND




	PROPERTY BOUNDARY
	PIT


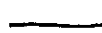


655 GROUP HOLDINGS LIMITED	
INTERPRETATION	
TURNBULL TWP BLOCK 1	
N.T.S. NO: 42A/5 42A/12	DRAWING NO. B 452.1 4
SCALE 1 : 10,000	DATE: APRIL 1985
TERRAQUEST LTD. TORONTO, CANADA	





LEGEND

PROPERTY BOUNDARY  100 meters
 TERRAIN CLEARANCE  100 meters
 LINE SPACING  100 meters

1000 gammas 
 250 gammas 
 50 gammas 
 10 gammas 

655 GROUP HOLDINGS LIMITED

AIRBORNE MAGNETIC SURVEY
 TOTAL MAGNETIC FIELD

TURNBULL TWP BLOCK 2

N.T.S. NO: 42A/12

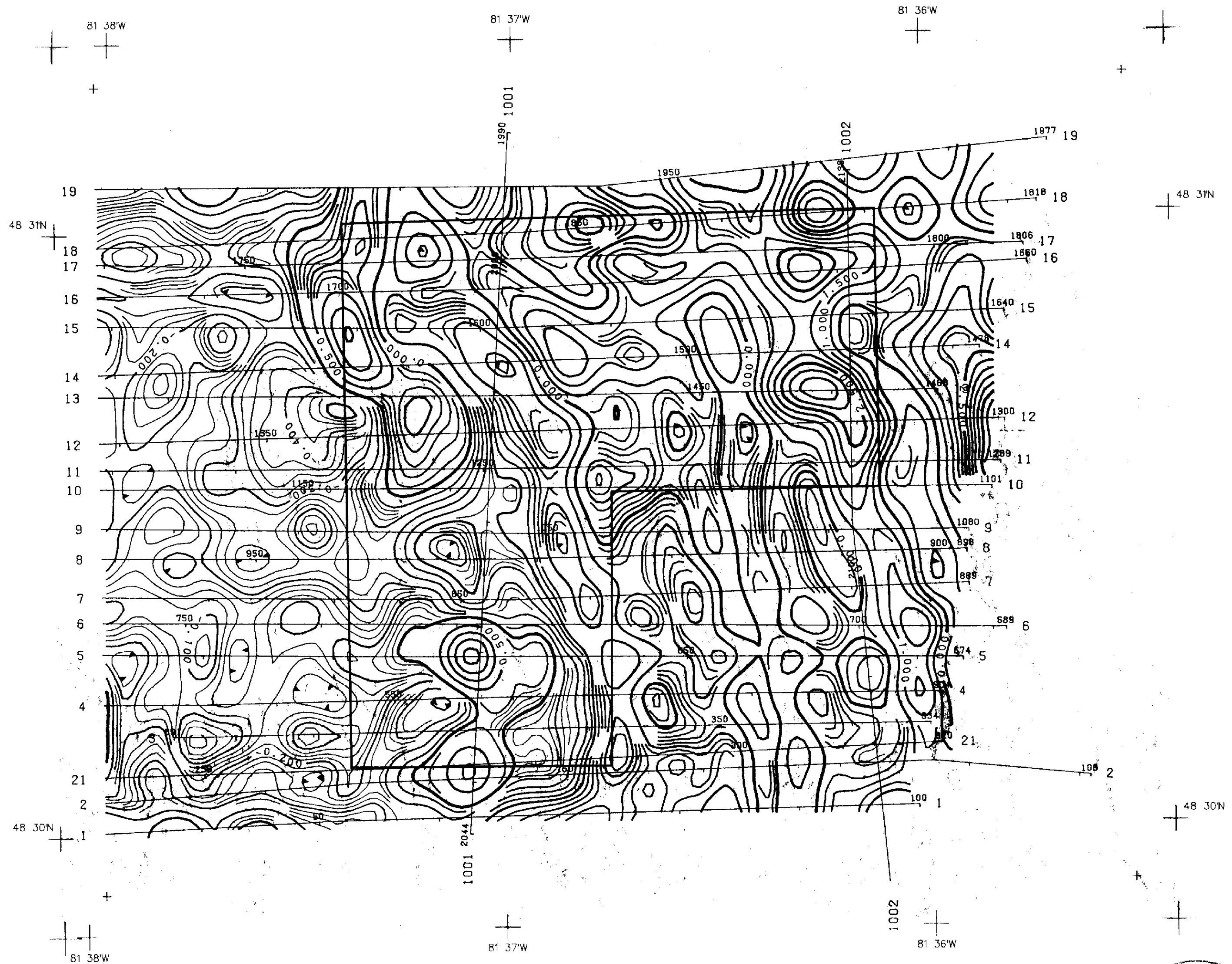
DRAWING NO. B-432.2-1

SCALE 1 : 10,000

DATE: APRIL 1985

TERRAQUEST LTD.
 TORONTO, CANADA





LEGEND

- PROPERTY BOUNDARY 100 meters
- TERRAIN CLEARANCE 100 meters
- LINE SPACING 100 meters
- 2.500 gammas / meter
- .500 gammas / meter
- .100 gammas / meter
- .025 gammas / meter

655 GROUP HOLDINGS LIMITED

AIRBORNE MAGNETIC SURVEY
VERTICAL MAGNETIC GRADIENT
Calculated From Total Field

TURNBULL TWP BLOCK 2

N.T.S. NO: 42A/12

DRAWING NO. B-432.2-2

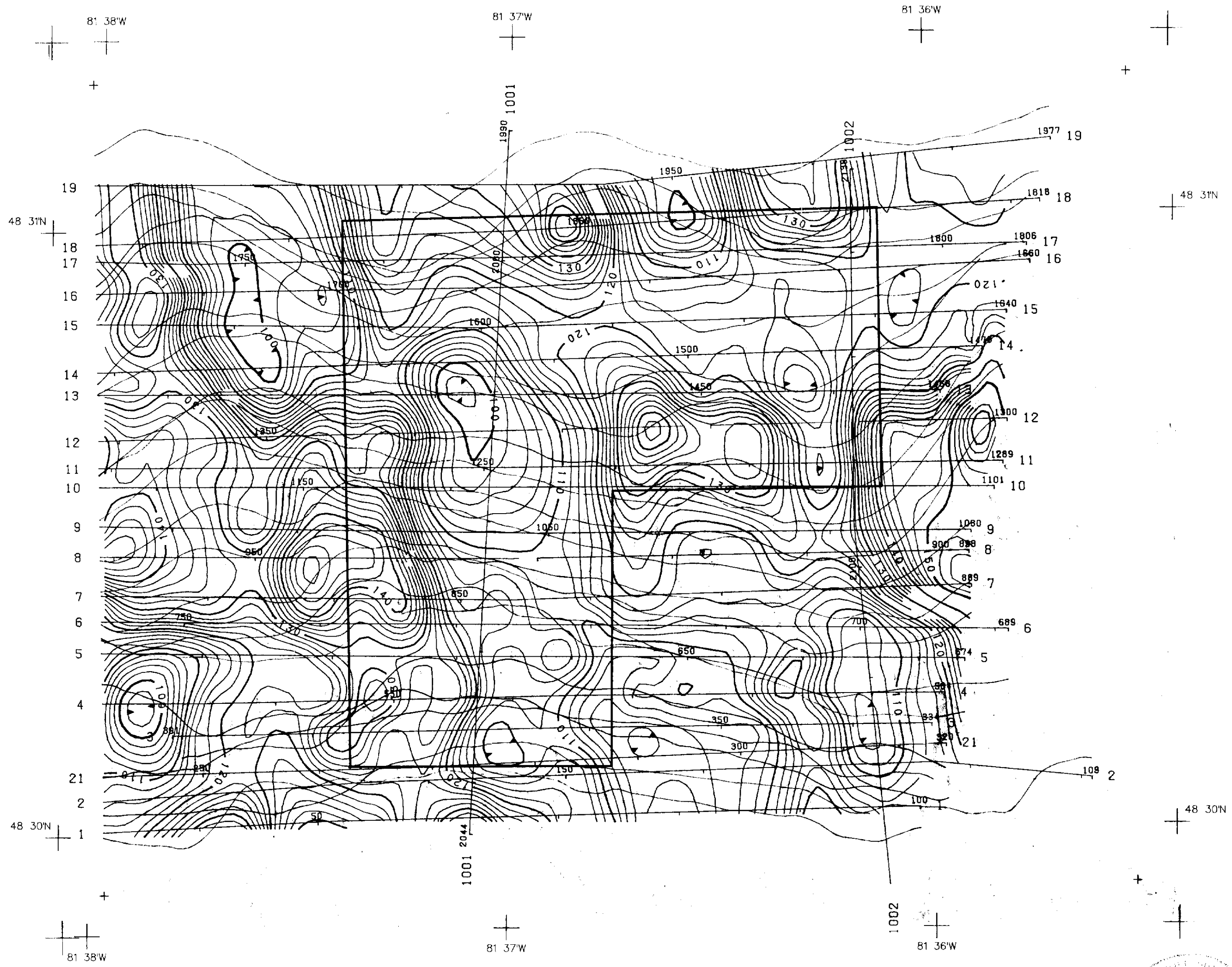
SCALE 1 : 10,000

DATE: APRIL 1985


TERRAQUEST LTD.
TORONTO, CANADA





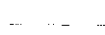
42A1251 0/23 2-6110 TURNBULL



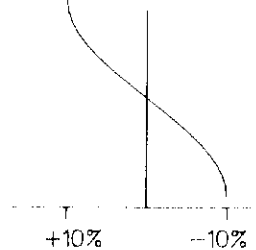
LEGEND

PROPERTY BOUNDARY 
 TERRAIN CLEARANCE 100 meters
 LINE SPACING 100 meters

FIELD STRENGTH

50 % 
 10 % 
 2 % 

QUADRATURE



655 GROUP HOLDINGS LIMITED

AIRBORNE VLF-EM SURVEY
 CONTOURS OF TOTAL FIELD STRENGTH
 PROFILES OF QUADRATURE

TURNBULL TWP BLOCK 2

N.T.S. NO: 42A/12

DRAWING NO. B-432.2-3

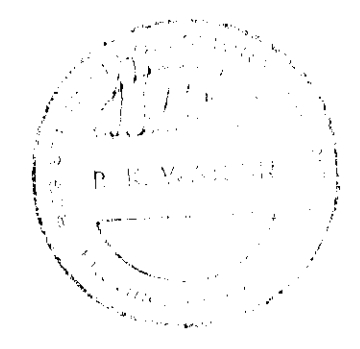
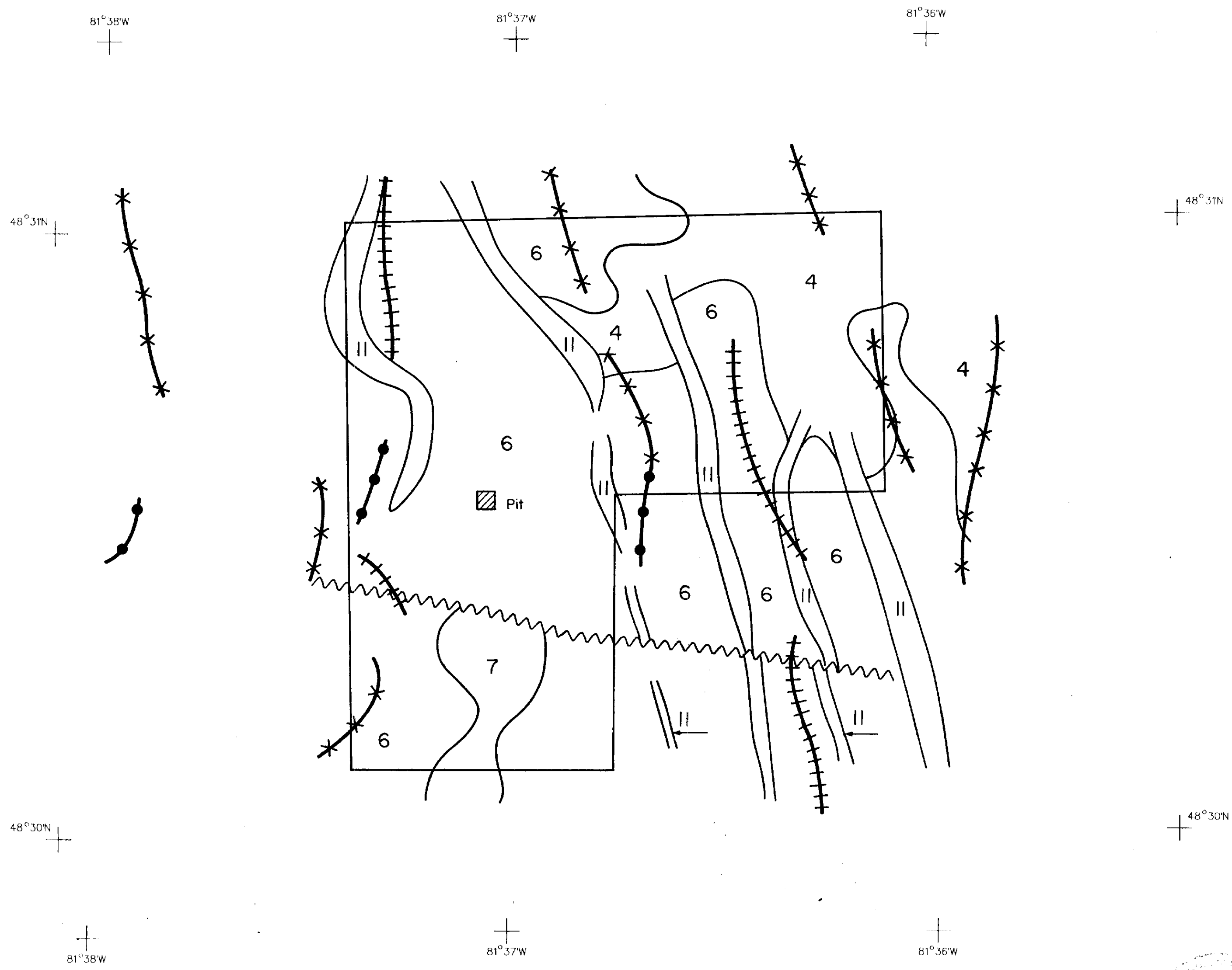
SCALE 1 : 10,000

DATE: APRIL 1985

TERRAQUEST LTD.
 TORONTO, CANADA



42A/12/85 001 2-8160 TURNBULL



INTERPRETATION LEGEND

4	MAFIC INTRUSIVES
6	FELSIC INTRUSIVES
7	INTERMEDIATE INTRUSIVES
II	DIABASE DYKE

—	CONTACT
~~~~~	FAULT
<b>VLF-EM CONDUCTOR AXES</b>	
	NORMAL QUADRATURE
x x x	REVERSE QUADRATURE
● ● ● ●	IN PHASE ONLY

**LEGEND**

-----	PROPERTY BOUNDARY
□	

655 GROUP HOLDINGS LIMITED

INTERPRETATION

TURNBULL TWP BLOCK 2

N.T.S. NO:	42A/12	DRAWING NO.:	B-432.2-4
SCALE:	1:10,000	DATE:	APRIL 1985

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TORONTO, CANADA

