

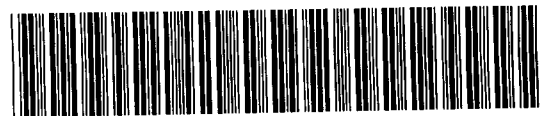
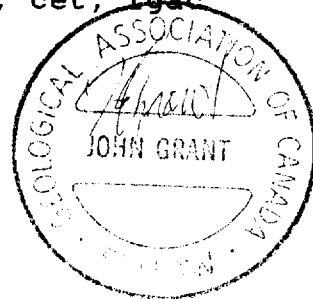
2.17613

GEOPHYSICAL REPORT  
FOR  
MORGAIN MINERALS INC.  
ON THE  
MASSEY PROJECT  
MASSEY AND WHITESIDES TOWNSHIPS  
PORCUPINE MINING DIVISION  
NORTHEASTERN ONTARIO



Prepared By: J.C. Grant, cet, fgac  
May, 1996

*Quoted 2013*



42A05NW0013 2.17613 WHITESIDES

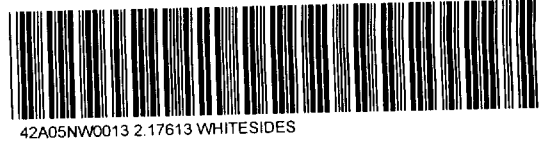


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## INTRODUCTION

The services of Exsics Exploration Limited were retained by Ken Lapierre on behalf of Morgain Minerals Inc. to follow up the results of an HLEM survey which had been completed on the property in 1992. The initial survey results outlined two parallel conductive horizons striking north-south across lines 2600MN to and including 2100MN. Both of these targets were reinterpreted by the author of this report and were found to represent legitimated bedrock conductors ranging from 25 to 50 mhos in conductivity and situated at a depth to source of 35 to 55 meters.

Based on these results, a drill hole was spotted on line 2300MN at approximately 12.5 meters east of the baseline to test the two targets. The drill hole returned ore grade copper and nickel assays in both targets with the eastern zone representing the higher grade zone.

Due to the success of this drill hole and the favourable assay results, Mr. Lapierre suggested that the grid should be resurveyed with a deep penetrating EM system.

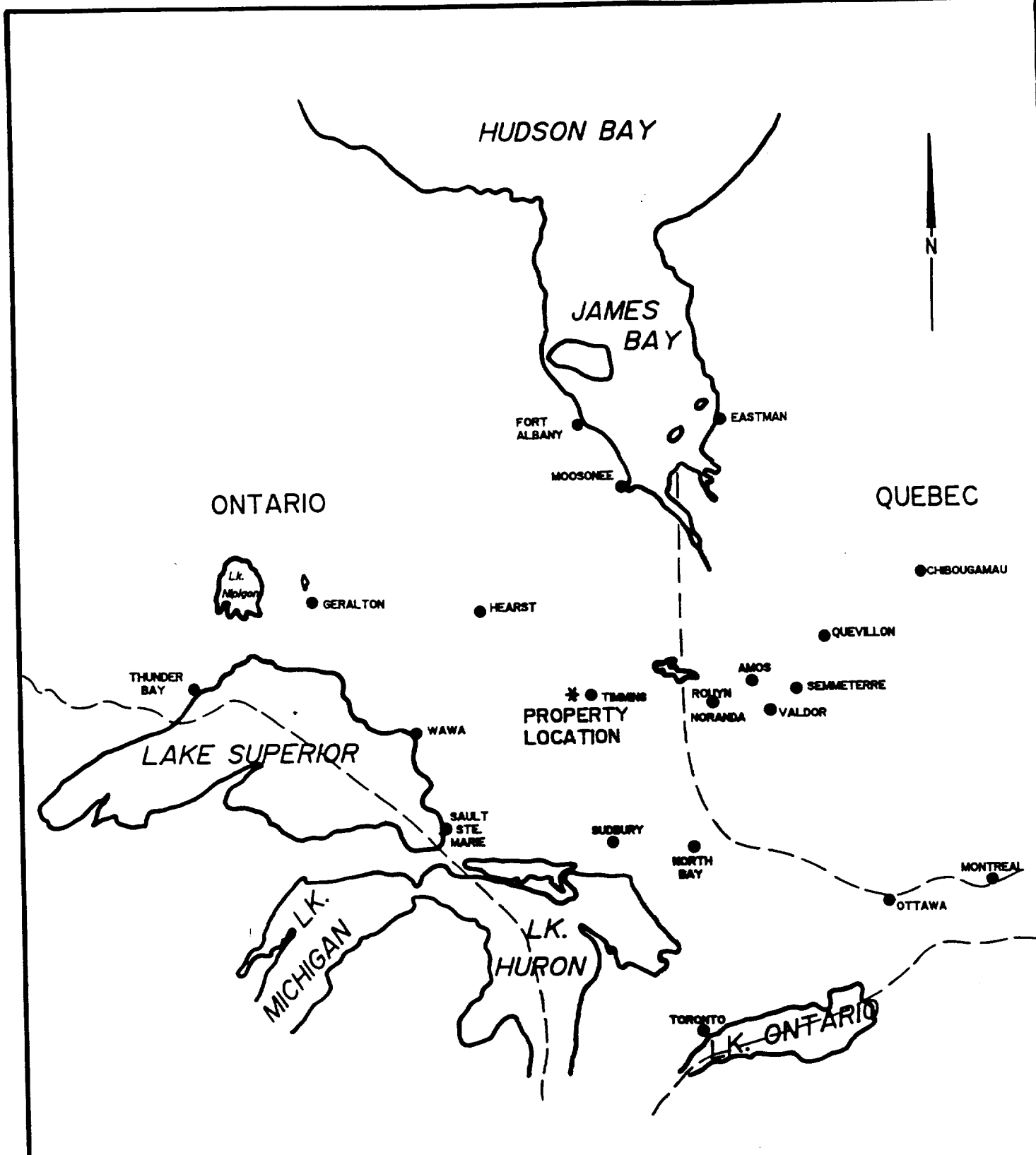
Exsics Exploration Limited was hire to complete the Deep-EM survey over the drilled HLEM targets with the idea of testing the zone at depth and on strike to better define an area for futher drilling.


This report will deal with the results of this follow-up program as well as all conclusions and recommendations. The program was completed during the 2nd and the 6th of May, 1996. Due to the commencement of spring breakup, the entire program was not completed, however, the area of interest was well covered.

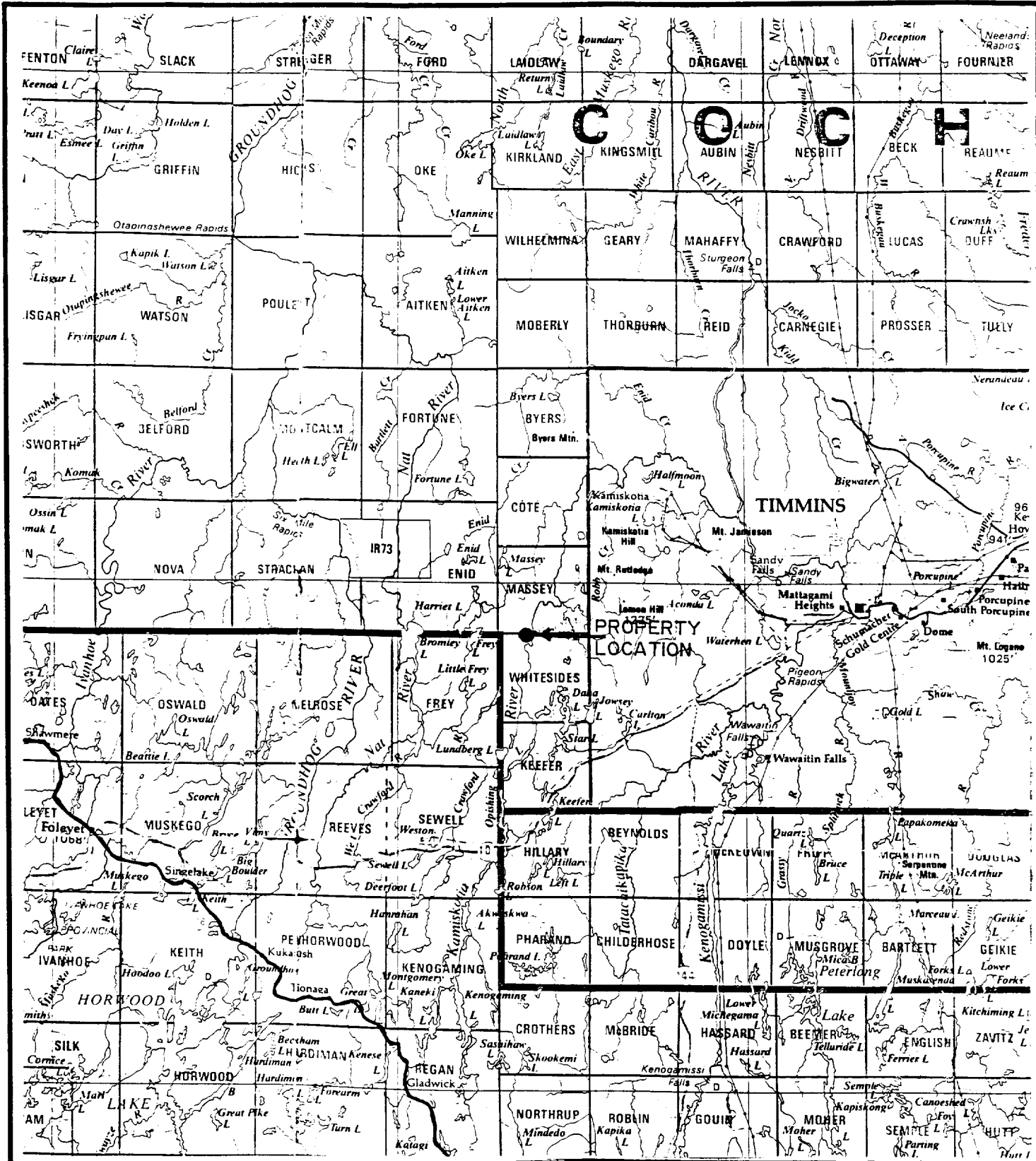
## PROPERTY LOCATION AND ACCESS

The Massey claim group is located in the south central section of Massey Township and the north central section of Whitesides Township. Both of these townships are located in the Porcupine Mining Division of Northeastern Ontario. Figure 1. More specifically the claims are located to the immediate west of the Kamiskotia river which flows generally north-south through the townships. The township line between Massey and Whitesides cuts the claim group in half in an east-west direction. Figure 2.

Access to the property during the survey period was relatively easy. Approximately 10 kilometers west of the City of Timmins, Malette Lumber maintains an all weather gravel road to their current and ongoing logging operations in a number of townships to the west and northwest of Timmins.



		
<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1800, P4M-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
<b>CLIENT: MORGAIN MINERALS</b>		
<b>PROPERTY: MASSEY TOWNSHIP PROPERTY</b>		
<b>TITLE: LOCATION MAP</b>		
Fig. 1		
Date: May 1996	Scale: 1"=125miles	MNDM Plan#:
Drawn: P. Gauthier	Intern: J.C. Grant	Job No. E-174



**EXSICS EXPLORATION LTD.**  
 P.O. Box 1000, P4M-7X1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-4151

<b>CLIENT: MORGAIN MINERALS</b>		
<b>PROPERTY: MASSEY TOWNSHIP PROPERTY</b>		
<b>TITLE: PROPERTY LOCATION</b>		
<b>Date: May 1996</b>	<b>Scale: 1:600,000</b>	<b>MNDM Plan#: 22-6</b>
<b>Drawn:</b>	<b>Interp: J.C. Grant</b>	<b>Job No. E-174</b>

ENID TWP

MASSEY TWP

Kamiskotia River

1203828  
16 Units

FREY TWP

WHITESIDES TWP



**EXSICS EXPLORATION LTD.**

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Suite 13, Hollinger Bldg, Timmins Ont.  
Telephone: 705-267-4151

**CLIENT: MORGAIN MINERALS**  
**PROPERTY: MASSEY TOWNSHIP PROPERTY**  
**TITLE:**

**CLAIM SKETCH**

Fig. 3

Date: May 1996	Scale: 1"=1/2mile	MNDM Plan#: M296
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-174

This gravel road commences immediately west of the Malette Mill and runs north and northwest off of Highway 101 west. A twenty minute ride north-northwest along this gravel road will bring one to the 27 kilometer marker and a bridge across the Kamiskotia River. One kilometer further north-northwest of this bridge will access the newly constructed drill road which is clearly marked. A short skidoo ride along this drill road for 6 kilometers will access the grid and the drill hole collar situated on line 2300MN at 12.5 meters east of the baseline. Travelling time from Timmins to the grid is approximately 45 minutes.

CLAIM GROUP

The claim numbers which wer covered by this program are as follows.

P-1203828                      16 units

Refer to figure 3, copied from MNDM Plan Map, M-296, of Whitsides and Massey Townships.

PERSONNEL

The field crew directly responsible for the collection of all data were as follows.

J.C.Grant.....	Timmins, Ontario
R. Collins.....	Timmins, Ontario
P. Otis.....	Timmins, Ontario
J. DerWeduwen.....	South Porcupine, Ontario
T. Bell.....	South Porcupine, Ontario

The entire project was completed under the direct supervision of J.C.Grant and all of the plotting and compilation was completed by P. Gauthier of Exsics.

GROUND PROGRAM

This program consisted of a detailed Deep-EM survey which was completed in conjunction with a total field magnetic reconnaissance survey. The surveys were completed over the same lines which had been cut during the summer of 1992. The PEM, DEEP-EM survey was completed on lines 2400MN to and including 1900MN whereas, the magnetic survey was completed over lines 2900MN to and including 1800MN. The baseline was also covered by the magnetic survey.

**Magnetic Survey:**

The magnetic survey was completed over the above mentioned lines using the BRGM, OMNI IV system. Specifications for the system can be found as Appendix A of this report. The following parameters wer kept constant throughout the survey.

Linespacing.....	100 meters
Station spacing.....	25 meters
Reading interval.....	12.5 meters
Diurnal correction.....	Baseline looping
Reference field.....	57950 gammas
Datum subtract.....	57500 gammas
Unit accuracy.....	=/- 0.5 gammas
Parameters measured.....	Earth's total magnetic field

The collected data was then profiled directly onto the individual line sections of the PEM results. These sections are included in this report as pull outs.

**Pulse EM,(PEM), Survey**

The PEM survey was completed using the Crone Pulse EM system. Specifications for this system can be found as Appendix B of this report. The following parameters were kept constant throughout the survey.

Linespacing.....	100 meters
Station spacing.....	25 meters
Reading interval.....	25 meter detail,50 meter recon
Timing controls.....	radio link
primary pulse.....	400
Time base.....	10ms
Coil seperation.....	150 meters
Theoretical search depth.....	100-130 meters
Parameters measured.....	8 samples of the secondary field

The collected data was then plotted onto individual line sections and profiled. Copies of these profiles are included in this report as pull outs.



SURVEY RESULTS

The PEM survey was successful in locating and defining the original HLEM conductors as was expected. The PEM survey also suggests the zone extend at depth and appear to be as conductive as the upper sections. These HLEM zones have been labelled Zone A and B and will be discussed seperstely and in detail.

During the course of the survey, it was decided, in the field to extend line 2200MN to the east to cover a moderate magnetic high feature situated approximately 350 to 400 meters east of the baseline. The PEM survey encountered another strong bedrock zone in the vicinity of this magnetic high and was able to trace the zone for 200 to 300 meters in generally a north-south direction. This zone was labelled Zone C with and associated deeper or weaker zone labelled Zone C'. Each of these new zones will be discussed in detail.

ZONE A:

This zone was defined by the HLEM survey and then was tested by the drill hole completed in April, 1996. The zone strikes from 2200MN to 2400Mn and continues north of the present PEM coverage. The zone is a good strong bedrock conductor situated at a depth to source of 72 to 110 meters and with a conductivity range of 10 to 32 mhos. The zone appears to dip near vertical to slightly grid west. The zone seems to lie on the eastern edge of a magnetic high unit.

ZONE B:

This zone was also defined by the HLEM survey and was tested by the drill hole of April, 1996. The assay results of that drill hole returned encouraging copper and nickel values over significant widths. The PEM results suggest that this zone strikes from 2100MN to 2400MN and continues to the north of the PEM coverage. Again this zone represents a good strong bedrock conductor situated at a depth to source of 82 to 115 meters and has a conductivity range of 14 to 40 mhos. The closeness of the zone to conductor A interferes with a better definition of the zone's dip but it should follow zone A's dip. Again, the zone appears to lie on the eastern edge of a magnetic high.

Both of these conductor were outlined by the HLEM survey and the PEM survey suggest that the zones have depth extensions as good as their upper sections.

As stated earlier, during the coverage of the above two targets, line 2200MN was extended to the east to test a magnetic high unit. Another conductor, Zone C was encountered which was interpreted to be at a depth to source of 100 to 110 meters and with a conductivity value of 14 to 38 mhos. The zone appears to lie either on or directly west of a good magnetic high unit. A second weaker or deeper zone was also indicated on the profiles of this line and it was labelled C'. This target is situated at a depth to source of 100 to 110 meters and with a conductivity of 10 to 15 mhos. It also appears to relate to a moderate magnetic high unit.

This zone then became the priority target on the grid since it had not been detected by the original airborne survey of 1989. This is possibly due to the fact that the zone is striking north-south and the airborne survey was flown north-south.

The zone was again outlined by lines 2100MN, 2000MN and 1900MN and it appears to continue to the south. The remaining section of the zone, that is the portion striking across lines 2100MN to and including 1900MN is situated at a depth to source of 100 to 130 meters and has a conductivity range of 8 to 30 mhos. Again this zone appears to relate to or flank a good magnetic high unit.

The weaker zone, labelled C' can be followed irratically across the same lines.

#### CONCLUSIONS AND RECOMMENDATIONS

The PEM survey did confirm the down dip extension of the drilled zones labelled A and B. The survey was also successful in outlining a new parallel zone to the east of the main zone which, from drilling, has proven ore grade assays of copper and nickel. This would make this new zone, C, a prime target for drilling. Due to the success of the initial hole, any and all zones should be followed up by further geophysics as well as drilling.

A follow-up program should consist of additional drilling of zones A and B along strike to better define the extent of the copper and nickel zone. The new zone C should be followed up further geophysically since it was missed by the government airborne. The airborne survey missed the best portion of zone C, possibly because it was flown parallel to the strike of C. The success in locating C would suggest that the airborne survey may have missed further targets which may be encountered on the property. This fact, coupled with the favourable copper and nickel assays of the first hole would prioritize the entire grid for a much more detailed geophysical program.

This follow-up geophysical program should consist of re-establishing the existing grid and the covering the lines with a detailed manetometer survey and a detailed HLEM survey. The magnetics should be done at 12.5 meter interevals on all of the lines, including the baseline and tielines. The HLEM survey should consist of a 150 meter coil seperation and rreading the 1777 and 444hz frequencies. Any and all weak zones should be followed up further with the Crone PEM system to better define their sources. A detailed geological survey should also be completed on the newly cut grid.

Further drilling of zones A and B should be considered immediately and pending their results, drilling of zone C should follow as soon as possible. However, I would recommend the surveys be completed across zone C first to give a better definition of the zone and it's location.

Respectfully submitted

J.C. Grant, CET, FGAC  
May, 1996



CERTIFICATE

I, John C. Grant, hereby certify that:

1) I am a graduate geophysicist (1975) of the three year program in Geological Technology at Cambrian College of Applied Arts and Technology, Sudbury, Campus. I have worked subsequently as an Exploration Geophysicist for Teck Exploration Limited (5 years), North Bay office, and as Exploration Manager and Geophysicist for Exsics Exploration Limited from 1980 to present.

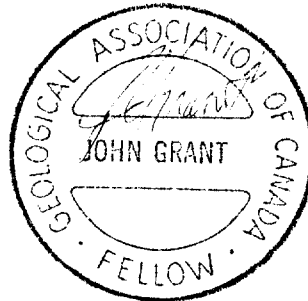
2) I am a Member of the Certified Engineering Technologist Association since 1984.

3) I am a member of the Geological Association of Canada.

4) I have been actively engaged in my profession for the last twenty (20) years, including all aspects of exploration studies, surveys and interpretations.

5) I have no specific or special interest in the described property. I have been retained as a Consulting Geophysicist by the claim holders.

John Charles Grant, CET, FGAC



*APPENDIX A*

# OMNI IV "Tie-Line" Magnetometer



- 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	$\pm 0.02$ gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	$\pm 1$ gamma at 50,000 gammas at 23°C $\pm 2$ gamma over total temperature range
Standard Memory Capacity	1,200 data blocks or sets of readings
Field or Gradient	100 data blocks or sets of readings
Off-Line Points	5,000 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 $-40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ . 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)
Design	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
Timing Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	$-40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ ; 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
<b>Weights and Dimensions</b>	
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	1.8 kg, 235 x 105 x 90mm
Lead-Acid Battery Belt	1.8 kg, 540 x 100 x 40mm
Sensor	1.2 kg, 56mm diameter x 200mm
Gradient Sensor	
0.5 m separation - standard)	2.1 kg, 56mm diameter x 790mm
C Gradient Sensor	
(1.0 m 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
Gradientometer Option	Standard system plus 0.5 meter sensor

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

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

Printed in Canada

*APPENDIX B*



# CRONE GEOPHYSICS LIMITED

3607 WOLFEDALE ROAD,  
MISSISSAUGA, ONTARIO,  
CANADA, L5C 1V8

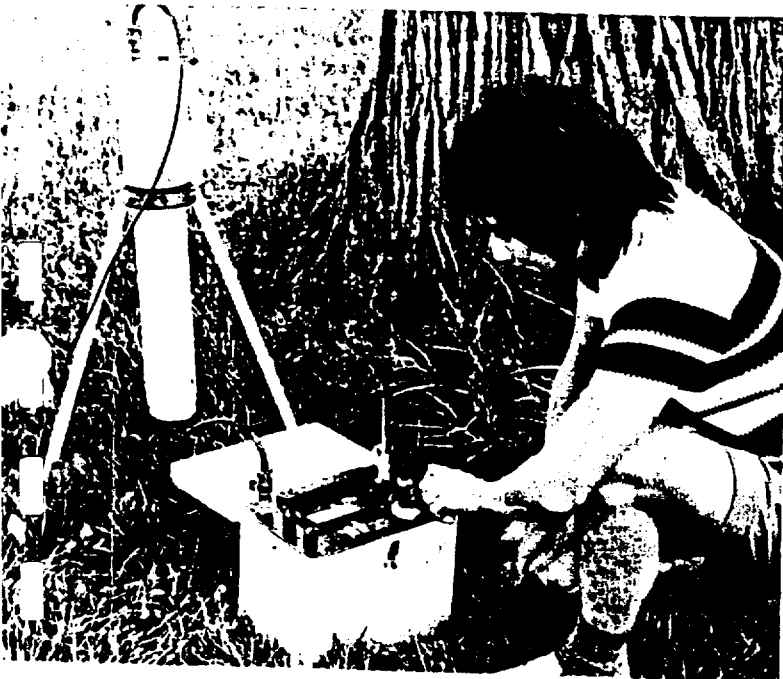
AUSTRALIA OFFICE:  
244 Newbridge Road,  
MOOREBANK, N.S.W. 2170.

Phone: (416) 270-0096  
TELEX: 06-961260

Phone: (02) 602-0937  
TELEX: 71-22922

## PULSE-INDUCED TEM

### RECEIVER

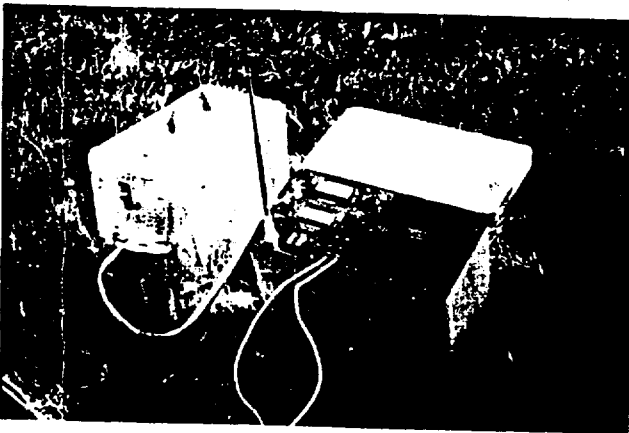


### FLEXIBILITY:

The equipment is not restricted to a fixed method. Since it is a Time Domain Method there are no rigid geometrical restrictions as to coil configurations. The transmit coil energizes — as small or large horizontal loops or a vertical loop. The receive coil measures — all three components of the secondary fields if required. The wide frequency spectrum discriminates between zones of varying conductivity. With minor modifications the equipment has borehole capabilities to a depth of 300 meters.

### INTERPRETATION:

The equipment is capable of measuring all 3 components of the secondary fields. This information can be translated into accurate estimates of the shape and position of the conductors. The method of direct plotting of induced current paths at different frequencies is a very effective interpretative method that can be performed in the field. A complete study of borehole response curves is available, (D. Wood's Thesis).



### TRANSMITTER

EQUIPMENT SALES, RENTAL & CONTRACT SERVICES AVAILABLE

# PEM SPECIFICATIONS

## TRANSMITTER:

- Transmit Control: 37x25x21cm, Weight: 11kg (23 lbs)
- Output Voltage: 24 volt, maximum output current 20 amps
- Output Waveform: Switch selectable timebase of "10ms" or "20ms" with "10ms" timebase current on 10.8ms, ramp shut off for 1.4ms, current off 9.4ms — reversing continuous waveform. With "20ms" timebase current on and off times are doubled.
- Input Power from 2 of 12 volt rechargeable batteries. Standard equipment uses 2 of 12 volt, 20 amp hour Globe gel cells in an aluminum case that can be mounted on a packframe. Weight 18.1 kg (40 lbs) Optional Equipment — lightweight powerpack 4 of 6 volt, 8 amp hour rechargeable gel cells, Weight — 9 kg (20 lbs). Motor generator for continuous operation "DEEPEM" or Borehole EM, packframe mounted 3 HP, 4 cycle gasoline engine and 24 volt generator. Total weight 18 kg (40 lbs).
- Timing controls by radio and /or cable to receiver. Cable standard length — 100M.
- Control box dimensions: 20.5cm x 25.5cm x 36.5cm. Weight 10 kg (22 lbs).
- Transmit Loop: Variable in size and number of turns from standard 6 and 9 meter diameter aluminum loops to breakable loop 9 meters in diameter and single turn 100 meter square (or 400x400 feet square) for DEEPEM and Borehole capabilities. All loops have approximately 1 Ohm resistance and a weight of 15 kg (30 lbs).
- Battery Chargers: 2 of modified Gel cell chargers 14.4 volts, initial charge current 3 to 4 amps, 110 volts or optional 220 volt supply — 50-60Hz.
- Vertical Loop Mast: Optional extra — 5 pieces tubular aluminum 9 meters high. Weight 6 kg.
- High powered transmitters (24 volts, 80 amps) are available upon request.

## RECEIVER:

Receiver Coil: Ferrite core antenna with preamplifier, mounted on a tripod. Dimensions: Height 63 cm, diameter 11 cm, weight 7 kg (16 lbs). Preamplifier power supply 2 of 9 volt batteries, vertical and horizontal levels are mounted on the coil.

Receiver Measuring Unit. Dimensions: 28 cm x 27 cm x 18 cm; weight 7 kg (16 lbs). Measurements on "10ms" time base. — Primary pulse: -100 to 0  $\mu$  sec., mid point — 50  $\mu$  s, position variable by means of a 10 turn pot — used to set zero time position at peak primary pulse. Primary pulse sample is usually set at "1000" by means of variable gain pot.

Eight samples of secondary field:

- (1) 100 to 200  $\mu$ s middle point 150  $\mu$ s
- (2) 200 to 400  $\mu$ s middle point 300  $\mu$ s
- (3) 400 to 700  $\mu$ s middle point 550  $\mu$ s
- (4) 700 to 1100  $\mu$ s middle point 900  $\mu$ s
- (5) 1100 to 1800  $\mu$ s middle point 1450  $\mu$ s
- (6) 1800 to 3000  $\mu$ s middle point 2400  $\mu$ s
- (7) 3000 to 5000  $\mu$ s middle point 4000  $\mu$ s
- (8) 5000 to 7800  $\mu$ s middle point 6400  $\mu$ s

Sample times can be doubled by switching to "20ms" time base. Receiver voltages are integrated over sample width and automatically stored and averaged over a 11 second period. Samples can also be read continuously.

## SHIPPING: All instruments packed in foam lined wood boxes.

	<u>Shipping Weight</u>
1) Box Receiver unit	14.5 kb ( 32 lbs)
2) Box Transmitter unit	20 kg ( 45 lbs)
3) Box Battery unit	28 kg ( 61 lbs)
4) Box Receive Coil	16 kg ( 36 lbs)
5) Box Transmit Coil, packframe, battery, chargers, timing cable	36 kg ( 80 lbs)

Total approximate shipping weight:

114.5 kg (254 lbs)

# 2.17613

Kenneth J. Lapierre, HBSc.  
PRESIDENT

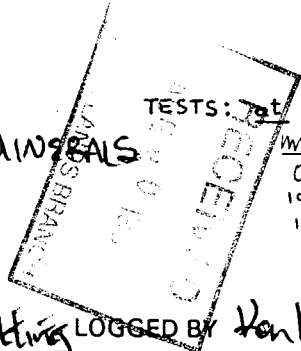
PROPERTY **Warren (edonian) - Labonde Prospect**  
TOWNSHIP **MAFFEL**  
CLAIM **1203328**

DRILLING COMPANY **Colbert ID** FOREMAN

CORE SIZE **BA** CORE STORED AT: **Hollinger Building** LOGGED BY **Ken Lapierre**

**OTHER INFO:**

**FOR: NORBITA MINERALS**



TESTS: **γt** - DIP

mm  
0 - 45  
100 - 45  
177 - 45

HOLE NUMBER **ML96-01**  
GRID REFERENCE **23100N/0415E**  
ELEVATION  
AZIMUTH **90°**  
DIP ANGLE **-45°E**  
LENGTH **176.0 meters**

DATES: **April 11/96 to April 19/96** PAGE 1 OF 5

DEPTH Meters	DESCRIPTION OF CORE	SAMPLE INTERVAL	SAMPLE NUMBER	Acc q/t					CODES OF ANALYSES
0-2	DRILL CASING								
2-8	MAFIC VOLCANIC - contacts: top = undeterminable, bottom = 304ca? - fine grained, dark green color (olivine) @ 30-40ca, - non-magnetic, non-carbonated, trace pyrite								
8-16	FELSIC INTRUSIVE (possibly granite or feldspar porphyry) RQD=75% - contacts: top = 304ca, bottom = undeterminable - K-spar rich intrusive, local feldspar phenocrysts? highly siliceous - small narrow quartz veins (5-10cm) throughout, chlorite - sil. filled fractures or sutures tr-2% fine grained dissemin- ated pyrite throughout, fine grained, up to 1% pyrite associated along some quartz/wall rock contacts, very hard, non- magnetic, non-carbonated, local mafic xenoliths proximal to bottom contact	8-9.5 9.5-11 11-12.5 12.5-14 14-15.5 15.5-16	58326 58327 58328 58329 58330 58331	NL NL NL NL 0.02 NL					
16-24.5	QUARTZ/FELSIC/MAFIC VOLCANIC INTERCALATION ZONE - contacts: top/bottom = undeterminable/gradational, no defined contact present - 16-17.5 - felsic/mafi volcanic rich area - 17.5-21.5 - quartz vein with local mafic xenoliths (10%) qtz contacts = 45ca - 21.5-24.5 - mafic qtz/feldsp rich area. - mineralization consists of fine grained (up to 4-6%) euhedral to subhedral disseminated pyrite associated with mafic-felsic material, quartz usually void of mineralization except where mafic xenoliths are present.	16-17 17-18.5 18.5-20 20-21.5 21.5-23 23-24.5	58332 58333 58334 58335 58336 58337	0.01 0.02 0.04 NL 0.05 0.01	0.04				

## DIAMOND DRILL LOG

PROPERTY: Lalonde Prospect HOLE NUMBER: ML 96-01

PAGE 2

FOOTAGE feet	DESCRIPTION OF CORE	SAMPLE INTERVAL	SAMPLE NUMBER	Au g/t	Ni ppm	Cu ppm	Co ppm	CODES OF ANALYSES
24.5-42.3	MAFIC VOLCANIC / FELSIC INTRUSIVE - contacts: top = undeterminable / gradation, bottom = undeterminable - alternating units of mafic to felsic (K-gran-rich) material - grey green colour, non-magnetic, non-carbonated - subvolcanic, fairly hard, trace to non-mineralized pyrite.	24.5-26	58338	NIL				
42.3-56	MAFIC VOLCANIC / INTRUSIVE? - contacts: top = undeterminable, bottom = 20' ca - salt & pepper texture, intergrowths of pale white feldspar within a dark green mafic matrix, local up to 1% sub-rounded feldspar "modules" up to 2cm wide, hard, non-magnetic, non-carbonated, trace fine grained pyrite / pyrrhotite disseminated, local 2% siliceous / feldspathic veining → 4% chalcopyrite → traces along contacts.							
56-59.55	MAFIC / INTERMEDIATE / SILICEOUS DYKES - contacts: top = 20' ca, bottom = 20' ca - siliceous, fine grained, very hard, non-magnetic, non-carbonated, local felsic (siliceous) grains to grains to eyes - sharp contacts, local soft gouge proximal to bottom contact							
59.55-84.8	ULTRAMAFIC / MAFIC VOLCANIC contacts: top = 20' ca, bottom = undeterminable → broken core - fine grained, grey green colour, hard, possible intrusive / flow? - local pale pink grains → possible feldspar / quartz grains as not - fresh → relic texture? → not hard, local isolated < 1% quartz veining - local micaceous areas (rare), non-mineralized. → quartziferous.	83-84 84-84.8	58339 58340			97 113	65 41	
84.8-94.8	FELSIC DYKES → QFP? - contacts: top = undeterminable, bottom = broken core - fine grained, grey colour, very hard, local micaceous grains, - blades filled fractures (marble), possible quartz, feldspar porphyry - non-mineralized (except below)	84.8-86 86-86.85	58341 58342			27 42	229 184	

## DIAMOND DRILL LOG

Lalonde Prospect

PROPERTY: Lalonde Prospect HOLE NUMBER: ML96-81

PAGE 3

FOOTAGE feet	DESCRIPTION OF CORE	SAMPLE INTERVAL	SAMPLE NUMBER	Ni ppm	Cu ppm	Co ppm	As g/t		CODES OF ANALYSES
86.85-87.9	20% stringers of sulphides → pyrrhotite, pentlandite, chalcopyrite w/ a dark green chlorite matrix mature, stringers at 45°C	86.85-87.9	58343	30	3560	48	0.01		
87.9-89		87.9-89	58344	5	42		NIL		
94.8-98	Mafic / INTERMEDIATE VOLCANIC - contacts undeterminable - fine grained biotite core throughout, matrix chlorite - chlorite alteration, increasing in silica content and hardness towards bottom contact → fine grained towards proximal to bottom contact non-mineralized								
98-100.4	FELSIC / INTERMEDIATE INTRUSIVE - contacts: top undeterminable, bottom 45°C - granular texture, grey color, hard, non magnetic mineralization - local chlorite alteration proximal to contact	98-99.5 99.5-100.4	58345 58346						
100.4-113.4	SULPHIDE ZONE → Pyrrhotite, Chalcopyrite, Pentlandite (M-1 ZONE) contacts: top = 45°C, bottom = 40°C - highly siliceous → local chlorite rich material, hard, magnetic - sulphides as net texture → discontinuous stringers and massive veins (see below), local flow structures, sugary/siliceous sections, sulphide stringers generally contorted								
100.4-101	2% stringers → cp, py, ±pn	100.4-101	58347	12	1740	22	NIL		
101-102	30% stringers, semi-massive veins	101-102	58348	41	1890	40	NIL		
102-102.75	trace sulphides	102-102.75	58349	9	654	10	0.01		
102.75-104	70% semi-massive sulphides/net texture py, cp, ±pn	102.75-104	58350	47	1230	46	NIL		
104-105.5	10% discontinuous stringers	104-105.5	58351	15	1170	14	NIL		
105.5-106.2	2-10cm wide sulphide (70%) veins - averages 25%	105.5-106.2	58352	24	471	18	0.01		
106.2-106.7	trace sulphides	106.2-106.7	58353	10	214	20	NIL		
106.7-107.7	15% net texture → py, cp, ±pn	106.7-107.7	58354	24	2580	34	0.02		
107.7-109.2	Silica loading - non mineralized	107.7-109.2	58355	11	190	12	NIL		
109.2-110.2	50% net texture, semi-discontinuous massive veins - py, cp	109.2-110.2	58356	46	5640	54	0.01		
110.2-111.2	30% discontinuous stringers → py, cp, ±pn	110.2-111.2	58357	38	2850	25	NIL		
111.2-112.25	60% stringers & massive veining - py, cp, ±pn	111.2-112.25	58358	42	2370	24	NIL		
112.25-112.75	Trace sulphides	112.25-112.75	58359	27	927	13	NIL		

FOOTAGE feet	DESCRIPTION OF CORE	SAMPLE INTERVAL	SAMPLE NUMBER	Ni ppm	Cu ppm	Co ppm	Alt	CODES OF ANALYSES
	112.75-113.4-36% stringers po, lpy, ±pn	112.75-113.4	58360	33	1880	11	0.01	
113.4-117.6	MAFIC VOLCANIC - contacts: top = 40±tca, bottom = broken core - fine grained, hard, green to dark green color, non-carbonated - non-magnetic, massive-unaltered appearance, local fine grained garnetiferous granodioritic intrusives x-cut zone generally at 20-45±tca, non-mineralized							
117.6-120.5	Feldspic Tuff? - contacts: top = broken core, bottom = 35±tca - fine grained, grey color, non-magnetic, layering/banding/fabric at 40-45±tca, trace pyrite, ±2% quartz/muscovite/graind veins paralleling layering.							
120.5-155	MAFIC VOLCANIC? - possible intrusive contacts top = 35±tca, bottom = possibly 45±tca - garnetiferous-looking relic grains throughout (15-20%) pale green color - non-magnetic, dark siliceous areas, possible preferred orientation at 345±tca generally, non-mineralized, small granodiorite-looking intrusives at top contact, local scattered gdlenses (10%) - 128.3-134 - magnetic rich garnetiferous intrusive, 55±tca - relic garnets? scattered throughout (10%) - 132.1 - 133.1 - mafic xenolith within granodiorite, 45±tca - 137.85-141 - mafic rich feldspar porphyry, 20±tca, non-magnetic - feldspar rich grains in a dark green hard matrix							
155-160.5	SULPHIDE ZONE - Pyrrhotite, Chalcopyrite ± Pentlandite M-2 ZONE - contacts: top = possibly 45±tca, bottom = 45±tca - locally, siliceous mafic rich material, hard, magnetic, sulphides as net texture, discontinuous stringers and semi-massive to massive, chalcopyrite easily recognizable as stringers, grains, and "blobs" within zone, hard pale white siliceous matrix present (see below), sharp bottom contact @ 45±tca → chlorite rich and soft	152-153.5 153.5-155	58361 58362	40 51	14 77			

FOOTAGE feet	DESCRIPTION OF CORE	SAMPLE INTERVAL	SAMPLE NUMBER	Al	Cu	Co	As		CODES OF ANALYSES
				ppm	ppm	ppm	g/t		
	-155-156.5 - trace sulphide indented cpy stringers	155-156.5	58363	76	1740	22	NIL	} all	
	-156.5-157 - 5-7% pb cpy ± pn as stringers and net texture	156.5-157	58364	35	8000	35	0.01		
	-157-157.5 - massive vein of po cpy ± pn	157-157.5	58365	114	30200	143	0.10		
	-157.5-158.4 - siliceous vein → tr-2% po cpy	157.5-158.4	58366	20	1250	23	0.01		
	-158.4-158.7 - siliceous material → 10-12% discontinuous stringers of po cpy ± pn	158.4-158.7	58367	25	15800	41	0.25		
	-158.7-159.4 - 80% massive vein of po cpy ± pn in a siliceous ch bito matrix	158.7-159.4	58368	141	7100	191	0.01		
	-159.4-159.8 - siliceous bottom contact area -- 5% - pb, cpy, pn as stringers & flux inclusions	159.4-159.8	58369	37	4040	46	0.22		
	-159.8-160.5 - chlorite rich bottom contact - trace sulphides	159.8-160.5	58370	60	710				
160.5-174.35	INTERMEDIATE/FELSIC TUFF contacts both at 45° tra	160.5-161	58371	8	145				
	- fine grained, grey col'or, bedding/fabric/orientation @ 45° tra, moderately hard, non-magnetic, non-carbonated, fine local isolated pyrite oriented parallel and within bedding planes.	161-162.5	58372	7	61				
	-161-163.3 - granodiorite? intrusive, 45° tra, garnetiferous relict present, hard, slightly magnetic, preferred orientation @ 45-55° tra, local chlorite stringers - non-mineralized.								
	-166.5-167.3 - siliceous intrusive, 50° tra, alignment of chlorite grains @ 50° tra, feldspar rich, non-magnetic, - non-mineralized								
174.35-176	Mafic volcanic - contact @ 45° tra - fine grained, massive appearance, green col'or, moderately hard, non-magnetic, non-carbonated broken core, possible cataclastic breccia @ 174.5-175 → broken core, non-mineralized								
	EOH @ 176 meters								
	April 23/96								
	Ken Aguirre								



# Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

## Assay Certificate

6W-1466-RA1

Company: **MORGAIN MINERALS INC**  
Project: ML-96  
Attn: K. Lapierre

Date: APR-19-96

We hereby certify the following Assay of 17 Core samples submitted APR-18-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Co PPM	Cu PPM	Ni PPM
58342	Nil	-	-	184	42
58343	0.01	Nil	48	3560	30
58344	Nil	-	-	42	5
58347	Nil	-	22	1740	12
58348	Nil	-	40	1890	41
58349	0.01	-	10	654	9
58350	Nil	Nil	46	1230	47
58351	Nil	-	14	1770	15
58352	0.01	-	18	471	24
58353	Nil	-	20	214	10
58354	0.02	-	34	2580	24
58355	Nil	-	12	190	11
58356	0.01	0.01	54	5640	46
58357	Nil	-	25	2850	38
58358	Nil	-	24	2370	42
58359	Nil	-	13	922	27
58360	0.01	0.01	11	1880	33

Certified by Denis Chantre





# Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

Assaying - Consulting - Representation

## Assay Certificate

6W-1546-RA1


Company: MORGAIN MINERALS INC  
Project: ML  
Attn: K. Lapierre

Date: APR-29-96

We hereby certify the following Assay of 28 Core samples submitted APR-24-96 by .

Sample Number	Au g/tonne	Au Check g/tonne	Co PPM	Cu PPM	Cu %	Ni PPM
58326	Nil	-	-	-	-	-
58327	Nil	-	-	-	-	-
58328	Nil	-	-	-	-	-
58329	Nil	-	-	-	-	-
58330	0.02	-	-	-	-	-
58331	Nil	-	-	-	-	-
58332	0.01	-	-	-	-	-
58333	0.02	-	-	-	-	-
58334	0.04	0.04	-	-	-	-
58335	Nil	-	-	-	-	-
58336	0.05	-	-	-	-	-
58337	0.01	-	-	-	-	-
58338	Nil	-	-	-	-	-
58339	-	-	-	65	-	97
58340	-	-	-	41	-	113
58341	-	-	-	229	-	27
58346	not rec'd	-	-	-	-	-
58361	-	-	-	14	-	40
58362	-	-	-	77	-	51
58363	Nil	-	22	1740	-	76
58364	0.01	-	35	8000	-	35
58365	0.10	0.09	143	>20000	3.62	114
58366	0.01	-	23	1250	-	20
58367	0.25	-	41	15800	-	25
58368	0.01	-	191	7100	-	141
58369	0.22	-	46	4040	-	37
58370	-	-	-	710	-	60
58371	-	-	-	145	-	8
58372	-	-	-	61	-	7

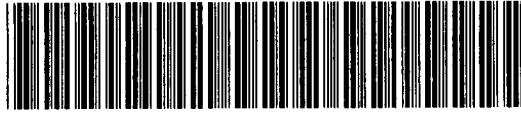
One assay ton portion used.

Certified by 

P.O. Box 10, Swastika, Ontario P0K 1T0  
Telephone (705) 642-3244 FAX (705) 642-3300

Transaction Number (office use)
W9760.00287
Assessment Files Research Imaging

Personal information collected on Mining Act, the information is a pu Questions about this collection 933 Ramsey Lake Road, Sudbury



Mining Act. Under section 8 of the espond with the mining land holder. velopment and Mines, 6th Floor,

900

Instructions: - For work performed on Crown Lands before 1 - Please type or print in ink.

2.17613

1. Recorded holder(s) (Attach a list if necessary)

Name <i>Douglas Lalonde</i>	Client Number <i>156077</i>
Address <i>53 Way Ave Timmins Ont.</i>	Telephone Number <i>264-5939</i>
	Fax Number
Name <i>Clifford MacKenzie</i>	Client Number <i>162603</i>
Address <i>Blank Notice RR#2 P10 7C3 50 Tamarack Street P4N 6R4 Timmins Ont.</i>	Telephone Number <i>222503</i>
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

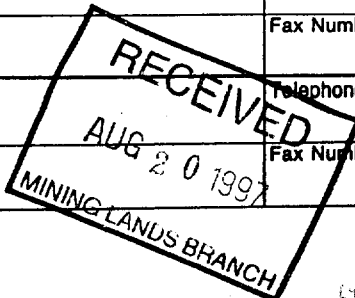
- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling, stripping, trenching and associated assays       Rehabilitation

Work Type <i>Diamond Drilling Core Logging Assaying</i>	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>\$ 12,948.00</i>
Dates Work Performed From <i>11 04 96</i> To <i>23 04 96</i>	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Porcupine</i>
Township/Area <i>Maddox</i>	Resident Geologist District <i>Timmins</i>
M or G-Plan Number <i>M-296</i>	

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name <i>Ken Lapierre</i>	Telephone Number <i>(705) 267-7389</i>
Address <i>PO Box 1433, Timmins, Ont. P4N 7N2</i>	Fax Number <i>267-7389</i>
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number



Handwritten signatures and initials, including "ok. by August" and "H. J. ..."

4. Certification by Recorded Holder or Agent

I, Ken Lapierre (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>Ken Lapierre</i>	Date <i>March 11/97</i>
Agent's Address <i>PO Box 1433 Timmins Ont P4N 7N2</i>	Telephone Number <i>(705) 267-7389</i>
	Fax Number <i>267-7389</i>

Done at Timmins 11/97

the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 1203828	16	12,948.7	0	<del>24,000</del>	
2 1213321	7		\$11,200.00		
3 1213382	1		1600.00	\$148.00	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		\$12948.7	\$12800.00	\$148.00	

I, Ken Lapierre (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Ken Lapierre Date: March 1997

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**  
 Received Stamp: MAR 18 1997  
3.00  
 PORCUPINE MINING DIVISION

Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	





# Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9760.00288
Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

**Instructions:** - For work performed on Crown Lands before re:  
- Please type or print in ink.

# 2.17613

### 1. Recorded holder(s) (Attach a list if necessary)

Name <i>Douglas Lalonde 33.33 Frank Tutic</i>	Client Number <i>D.R. 156071</i>
Address <i>D.L. Clifford MacKenzie 33.33 33.33</i>	Telephone Number <i>C.M. 162603</i>
	Telephone Number <i>2.7. 222503</i>
	Fax Number
<i>Timmins Ont.</i>	
Name <i>Douglas Lalonde</i>	Client Number <i>156077</i>
Address <i>53 Way Ave</i>	Telephone Number <i>264-5939</i>
	Fax Number
<i>Timmins Ont.</i>	

### 2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

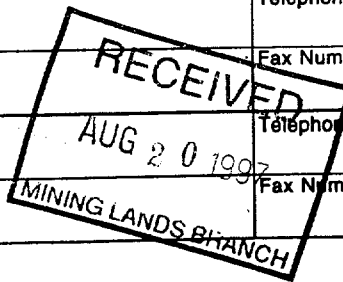
- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling, stripping, trenching and associated assays       Rehabilitation

Work Type <i>Magnetometer, Pulse EM</i>	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>\$6527.00</i>
Dates Work Performed From <i>02 05 1996</i> To <i>06 05 1996</i>	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Porcupine</i>
Township/Area <i>Massey</i>	Resident Geologist District <i>Timmins</i>
M or G-Plan Number <i>M-296</i>	

- Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;  
- provide proper notice to surface rights holders before starting work;  
- complete and attach a Statement of Costs, form 0212;  
- provide a map showing contiguous mining lands that are linked for assigning work;  
- include two copies of your technical report.

### 3. Person or companies who prepared the technical report (Attach a list if necessary)

Name <i>EXSICS EXPLORATION LIMITED</i>	Telephone Number <i>(705) 267-4151</i>
Address <i>PO Box 1880, Suite 13, Hollinger Building Timmins, Ont. P4N 7K1</i>	Fax Number <i>264-5790</i>
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number



*to date*  
*[Signature]*

### 4. Certification by Recorded Holder or Agent

I, *Ken Lapierre* (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>[Signature]</i>	Date <i>March 11/97</i>
Agent's Address <i>PO Box 1433 Timmins Ont P4N 7K2</i>	Telephone Number <i>(705) 267-7389</i>
	Fax Number <i>267-7359</i>

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 1203828	16	6,527.00	6,400	127.00	0
2		0	<del>127.00</del> X	0	0
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		6,527.00	6,527.00	127.00	0

I, Ken Lavoie (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing

*Ken Lavoie*

Date

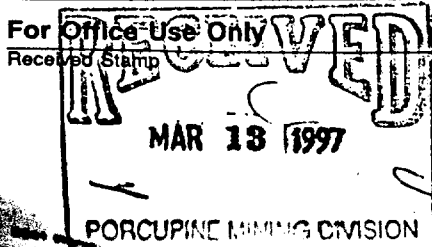
March 11/97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.



Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	



Statement of Costs for Assessment Credit

Transaction Number (office use) W9760.00288

Personal information collected on this form is obtained under the authority of section 8 of the Mining Act, the information is a public record. This information is the mining land holder. Questions about this collection should be directed to Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Understand that you are responsible for the information provided and its accuracy.

2.17613

Table with 4 columns: Work Type, Units of Work, Cost Per Unit of work, Total Cost. Includes entries for 'Mag PEM. Surveys' and 'Associated Costs'.

Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work.

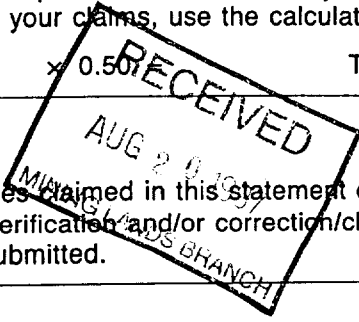
TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note: - Work older than 5 years is not eligible for credit. - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification.

Certification verifying costs:

I, Douglas Lalonde, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Douglas Lalonde I am authorized to make this certification.

Signature: Douglas Lalonde Date: 08/20/07



August 21, 1997

DOUGLAS JOSEPH LALONDE  
53 WAY AVENUE  
TIMMINS, Ontario  
P2N-3C4

Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (705) 670-5863

Dear Sir or Madam:

**Submission Number:** 2.17613

**Status**

<b>Subject: Transaction Number(s):</b>	W9760.00287	Deemed Approval
	W9760.00288	Deemed Approval

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in **DUPLICATE** to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at [beneteau\\_s@torv05.ndm.gov.on.ca](mailto:beneteau_s@torv05.ndm.gov.on.ca) or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section



# Work Report Assessment Results

**Submission Number:** 2.17613

**Date Correspondence Sent:** August 21, 1997

**Assessor:** Steve Beneteau

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9760.00287	1203828	MASSEY, WHITESIDES	Deemed Approval	June 11, 1997

**Section:**

10 Physical PDRILL

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9760.00288	1203828	MASSEY	Deemed Approval	June 11, 1997

**Section:**

14 Geophysical EM

14 Geophysical MAG

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**

Ken Lapierre  
TIMMINS, ONT, CANADA

DOUGLAS JOSEPH LALONDE  
TIMMINS, Ontario

CLIFFORD DUNCAN MACKENZIE  
TIMMINS, ONTARIO

FRANK TUTIC  
TIMMINS, ONTARIO



2.17613  
MAG, EM,  
PORILL  
Massey Twp.

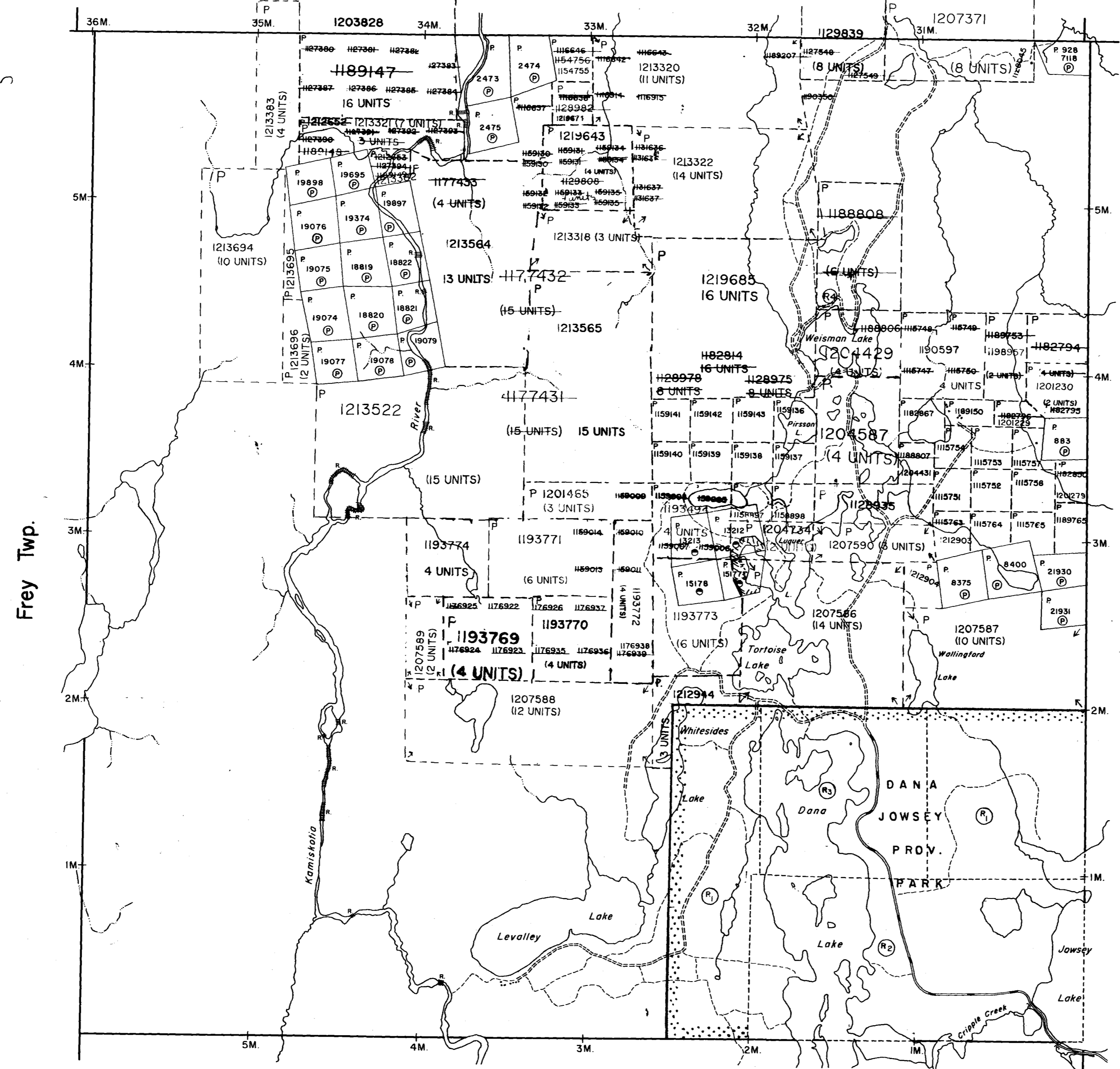
### REFERENCES

#### 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
DANA AND JOWSEY LAKES PARK RES.	SEC. 36/80	W.66/83	S.R.O.	171506
SEC. 43/70		FEB. 3/66	M. & S.R.	171506
SEC. 43/70		28/1/71	M. & S.R.	171506

MINING AND SURFACE RIGHTS WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. W-P 49/94 HER DATED 94-MAY-02



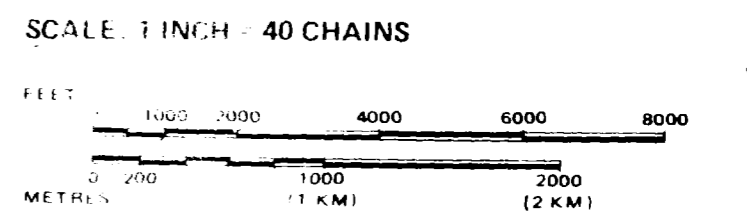
### LEGEND

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

### DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	⊙ or ●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	◑
" SURFACE RIGHTS ONLY	◒
" MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	◔
ORDER IN COUNCIL	◕
RESERVATION	◖
CANCELLED	◗
SAND & GRAVEL	◘

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



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



Date FEBRUARY 1985  
Number  
ACTIVATED JUNE 30, 1992 BY D.C.  
**G-3230**



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.

Bob K.

CÔTÉ TWP - M.271

THE TOWNSHIP OF  
OF  
**MASSEY**

DISTRICT OF  
COCHRANE

PORCUPINE  
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

2-17613

LEGEND

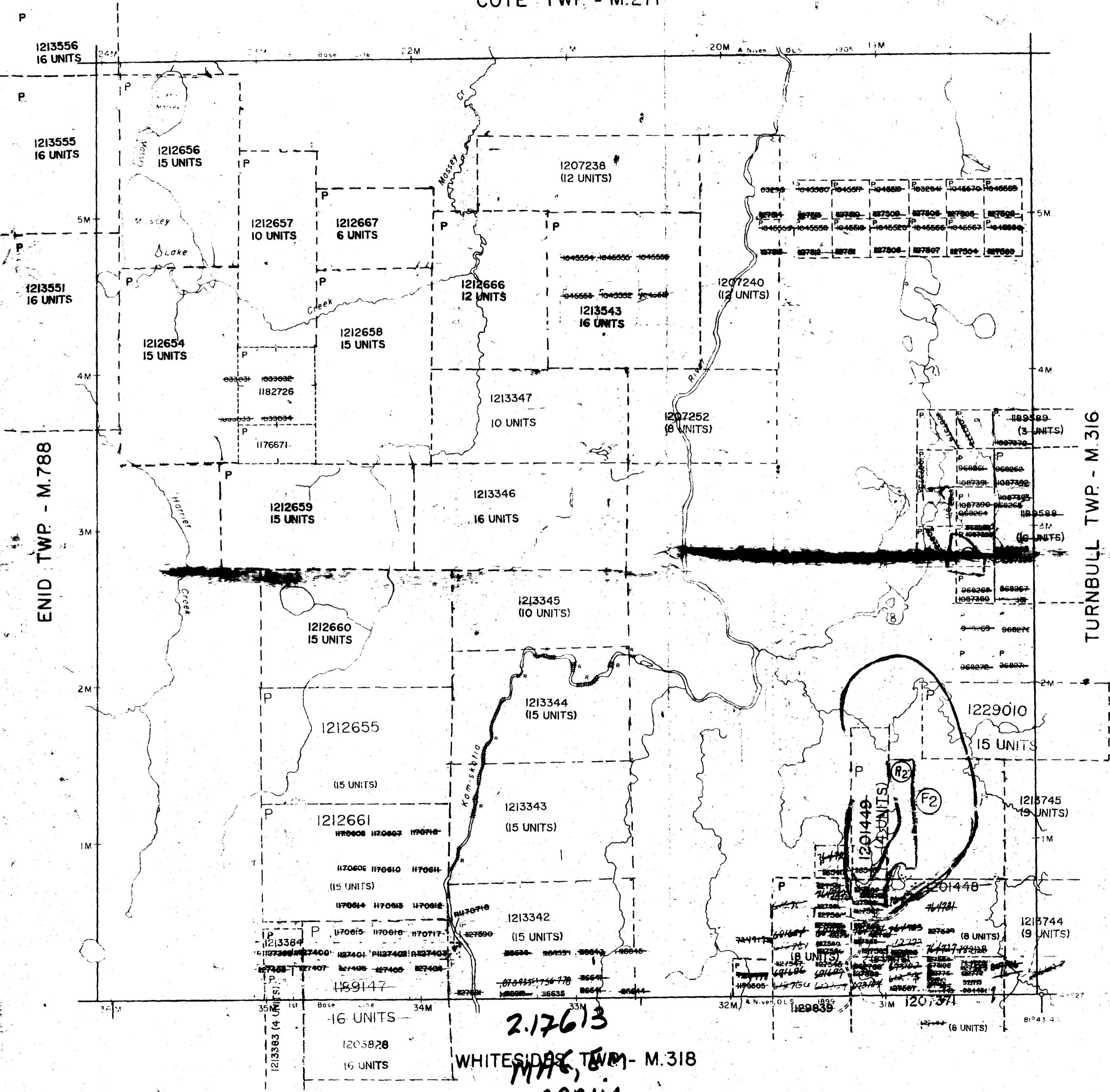
- PATENTED LAND
- CROWN LAND SAIT
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

RECEIVED  
AUG 20 1997  
MINING LANDS BRANCH

NOTES

- 400' surface rights reservation around all lakes and rivers.
- F1 THIS TWP SUBJECT TO FOREST ACTIVITY IN 1992/93. FURTHER INFORMATION AVAILABLE ON FILE.
- (R) PENDING APPLICATION UNDER THE AGGREGATE RESOURCES ACT. NOTICE RECEIVED 91-NOV-22.
- (F1) THIS TWP SUBJECT TO FOREST ACTIVITIES IN 1994/95. FURTHER INFORMATION AVAILABLE ON FILE.
- (F2) THIS TWP IS SUBJECT TO FOREST ACTIVITY IN 1996-96. FURTHER INFORMATION AVAILABLE ON FILE.
- (R2) PENDING APPLICATION UNDER THE AGGREGATE RESOURCES ACT. NOTICE RECEIVED 97-JAN-9

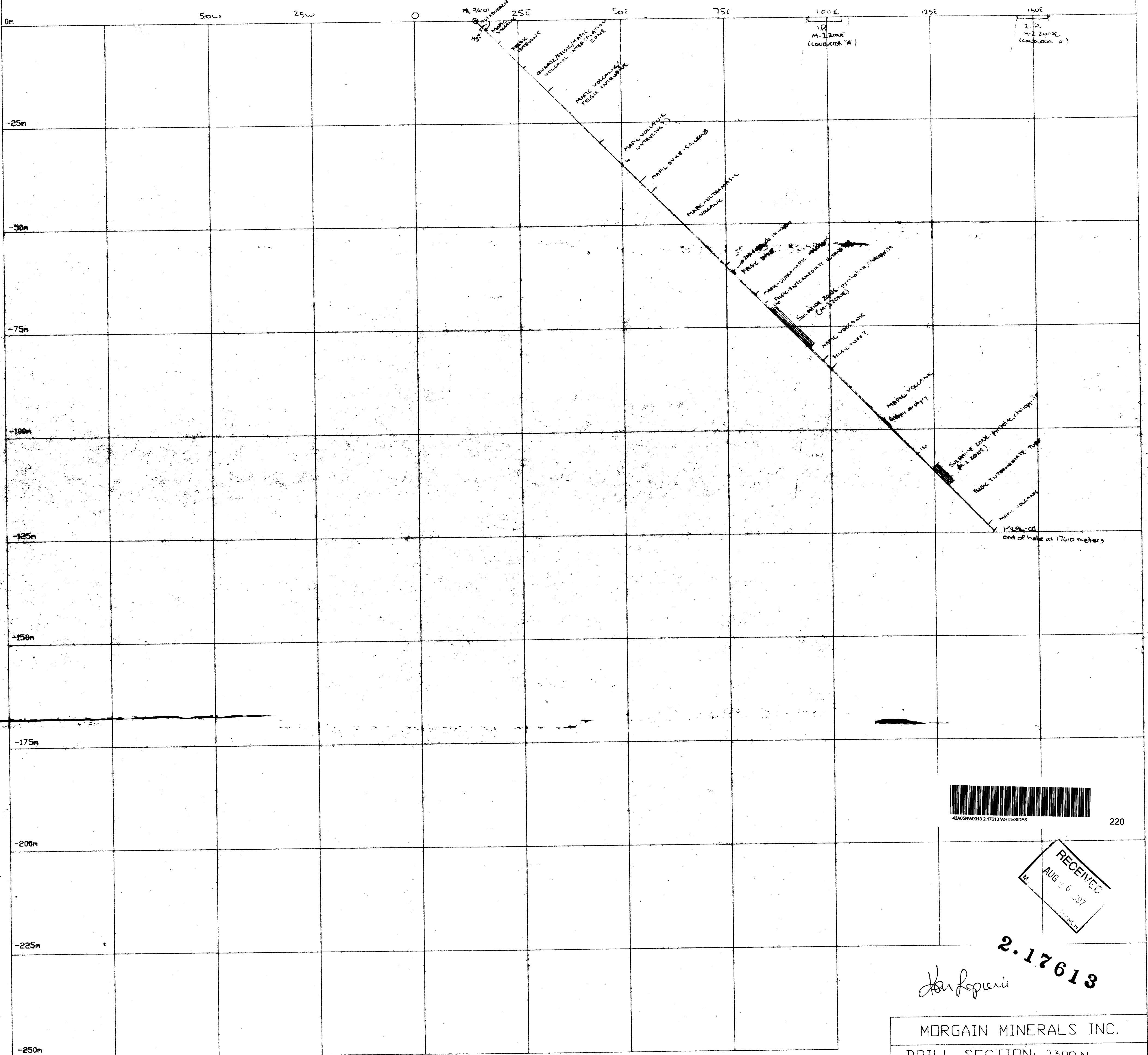
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINES OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



2.17613  
WHITESIDE TWP - M.318  
MAG, TWP  
PDRIL

PLAN NO. *Rec'd 10/4/97* **M.296**  
DEPARTMENT OF MINES  
— ONTARIO —





220

RECEIVED  
 AUG 10 2007  
 2.17613

*Ken Ferguson*

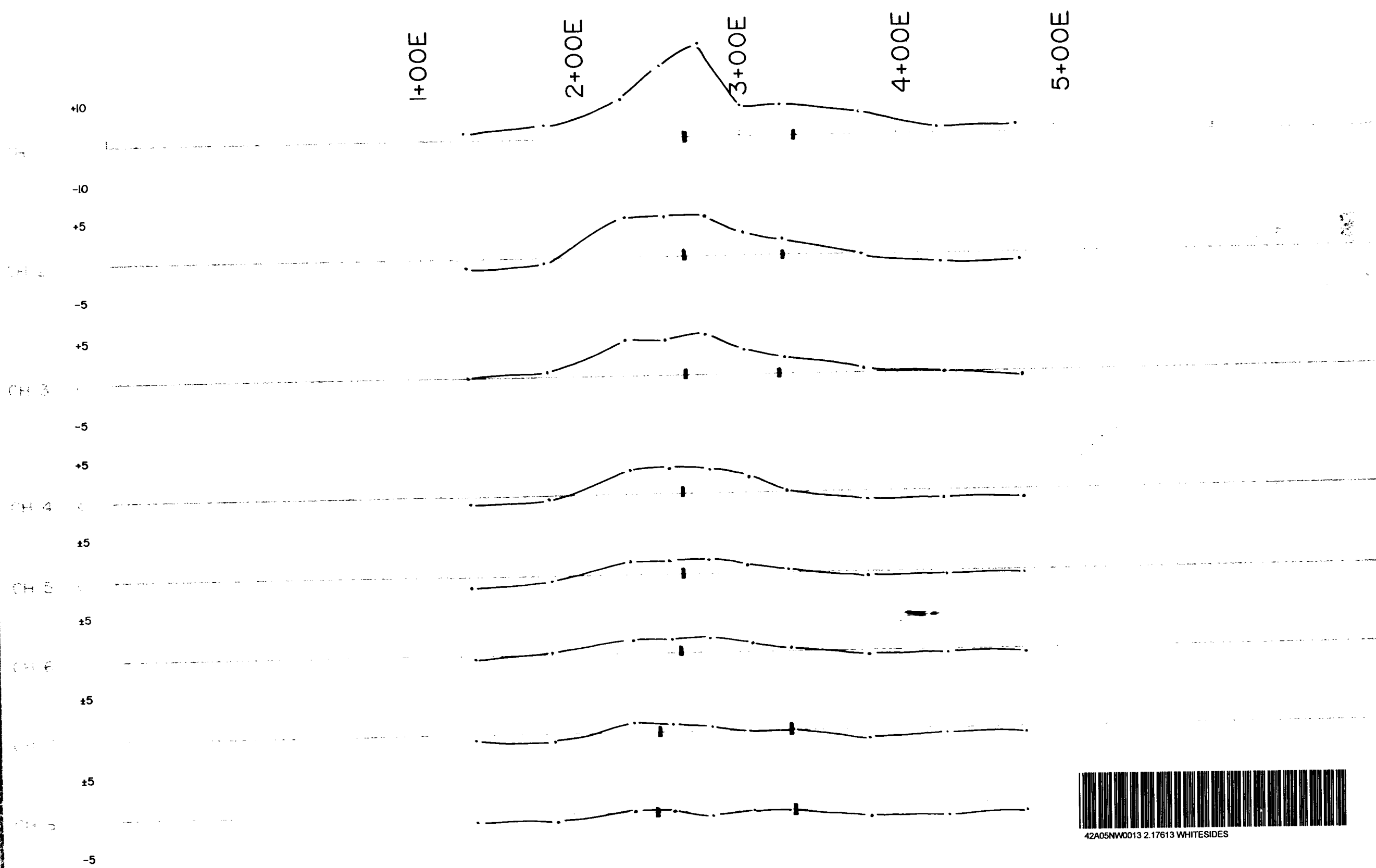
0 10 20 30  
 metres

CLAIM # 1203828

Assay: ppm/meter

\* refer to geophysical report for drill hole location (magnetic survey map) JK

MORGAIN MINERALS INC.  
 DRILL SECTION: 2300 N  
 LALONDE PROSPECT  
 LOOKING NORTH  
 LAPIERRE EXPLORATION SERVICES INC.  
 PROJECT: DATE: March 1997 SCALE: 1:500



42A05NW0013 2.17613 WHITESIDES

230



MAGNETOMETER

**2.17613**

RADIO LINK  
 400  
 150m  
 120-130m ?  
 16-30MHO  
 VERT.

ZONE C

WEAK OR  
DEEP ZONE

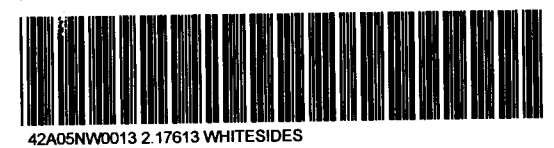
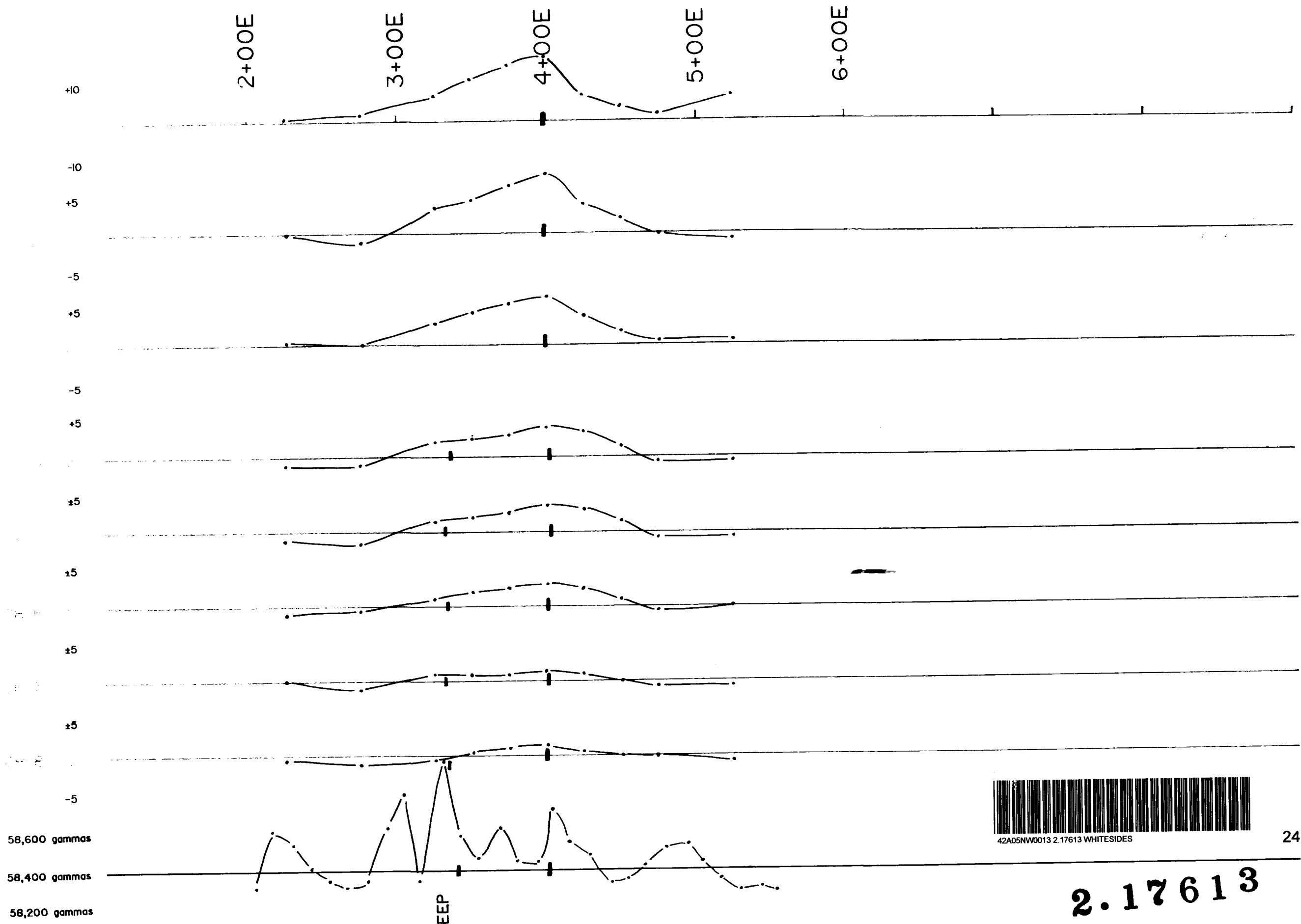


PHYSICS EXPLORATION LTD  
 1000 WARD PARK RD  
 1000 WARD PARK RD  
 1000 WARD PARK RD  
 1000 WARD PARK RD

**MORGAIN MINERALS**  
**MASSEY TOWNSHIP PROPERTY**  
 L 19+00North

MAPPING SURV  
 Date May 1996 Scale 1:25000  
 Drawn Intern

E-174

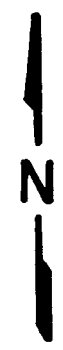



240

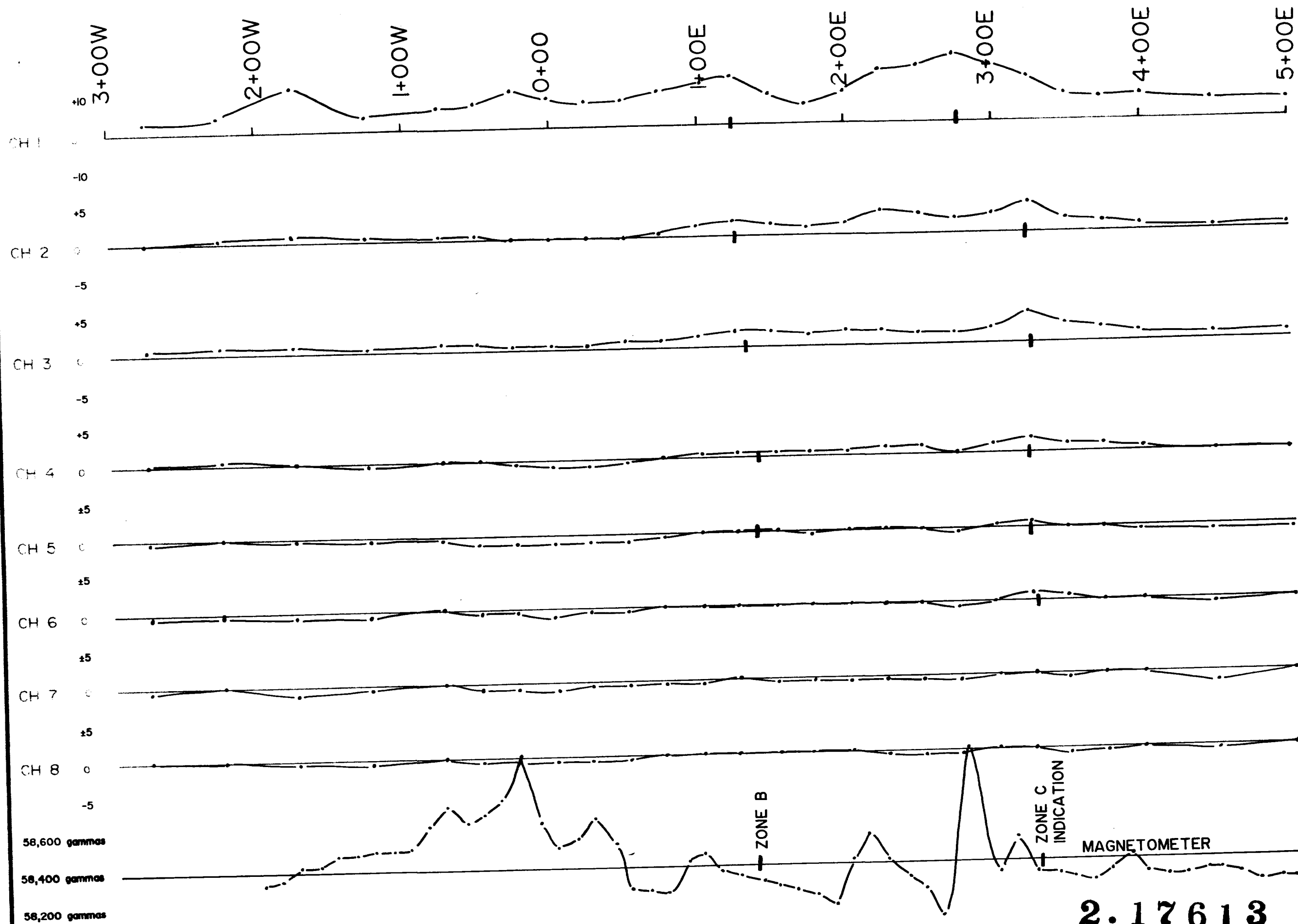
2.17613

ZONE C  
 SYNCHRONIZATION: RADIO LINK  
 CHANNEL: 40 SE 400  
 WIRE SEPARATION: 150m  
 WIRE TO SOURCE: 120-130m  
 CONDUCTIVITY: 13-30MHO  
 WIRE: VERT.  
 DIP: VERT.  
 GRID COORDINATES:  
 HOLE:  
 DATE:

WEAK OR DEEP  
 ZONE  
 ZONE C



 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg. Timmins Ont Telephone: 705-267-4151		
CLIENT: MORGAIN MINERALS		
PROPERTY: MASSEY TOWNSHIP PROPERTY		
TITLE: L 20+00North PEM MOVING COIL SURVEY		
Date: May 1996	Scale: 1:2500	NTS.
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-174



SYNCHRONIZATION: RADIO  
 PRIMARY PULSE: 400  
 COIL SEPARATION: 150m  
 DEPTH TO SOURCE:  $\approx$  120m  
 CONDUCTIVITY: 8MHOS ?  
 WIDTH:  
 DIP VERT. TO WEST


DRILL HOLE CO-ORDINATES:  
 ANGLE OF DRILL HOLE:  
 APPROXIMATE DEPTH:



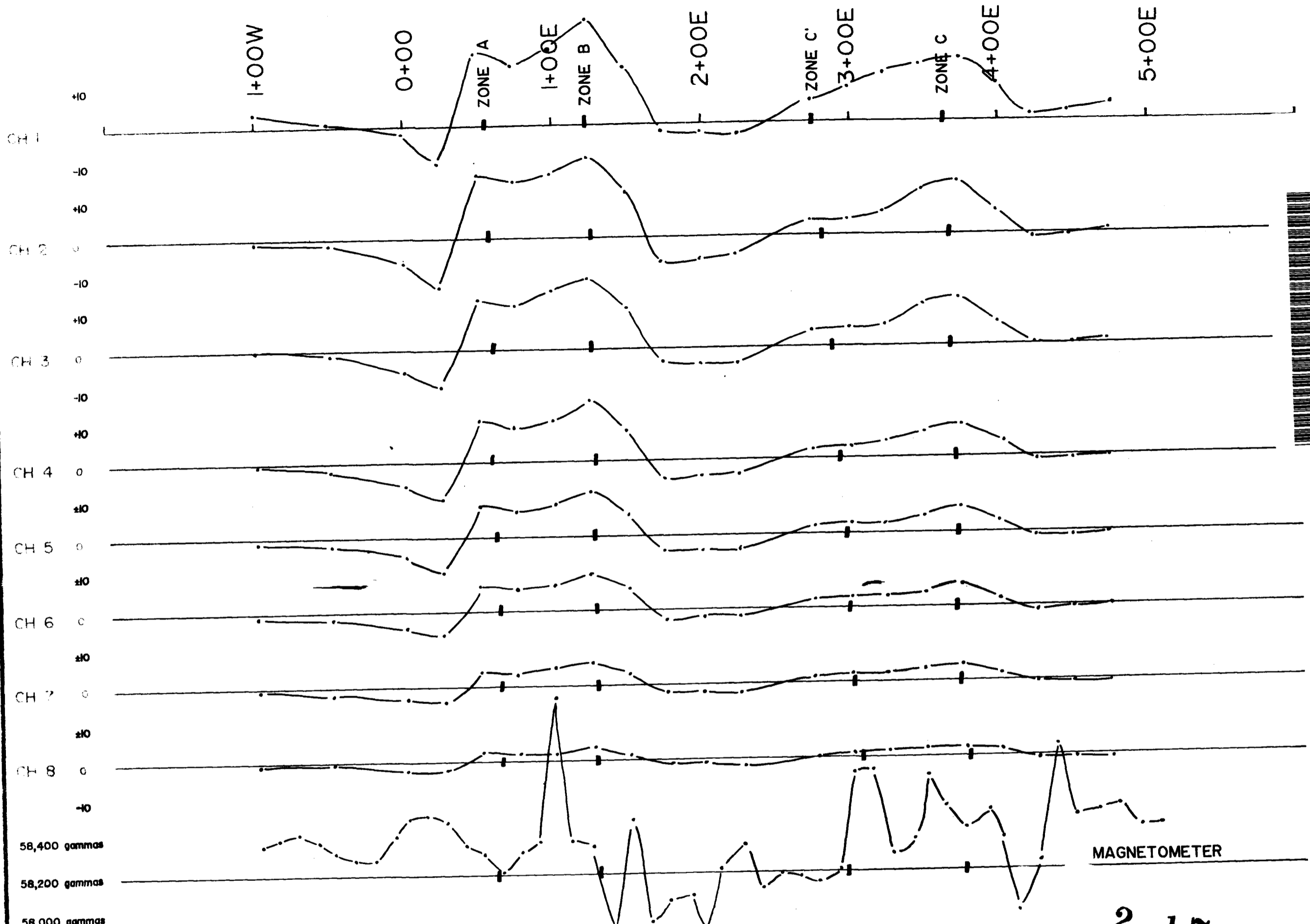
42A05NW0013 2.17613 WHITESIDES

250



		
Suite 13, Mellinger Bldg. Timmins Ont. Telephone: 705-267-4751		
CLIENT:		MORGAIN MINERALS
PROPERTY:		MASSEY TOWNSHIP PROPERTY
TITLE:		L 21+00North PEM MOVING COIL SURVEY
Date: May 1996	Scale: 1:2500	NTS.
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-174

2.17613

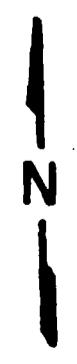


260



SYNCHRONIZATION: RADIO LINK  
 PRIMARY PULSE: 400  
 COIL SEPARATION: 150m  
 DEPTH TO SOURCE:  
 CONDUCTIVITY:  
 WIDTH:  
 GPH HOLE CO-ORDINATES:  
 DATE OF SURVEY:  
 SURVEY DEPTH:

	A	B	C	C'
90-95m	90-95m	90-95m	102-108m	110m
16-32MHO	14-40MHO	14-38MHO	10-15MHO	
WEST	VERT.	VERT.	VERT.	

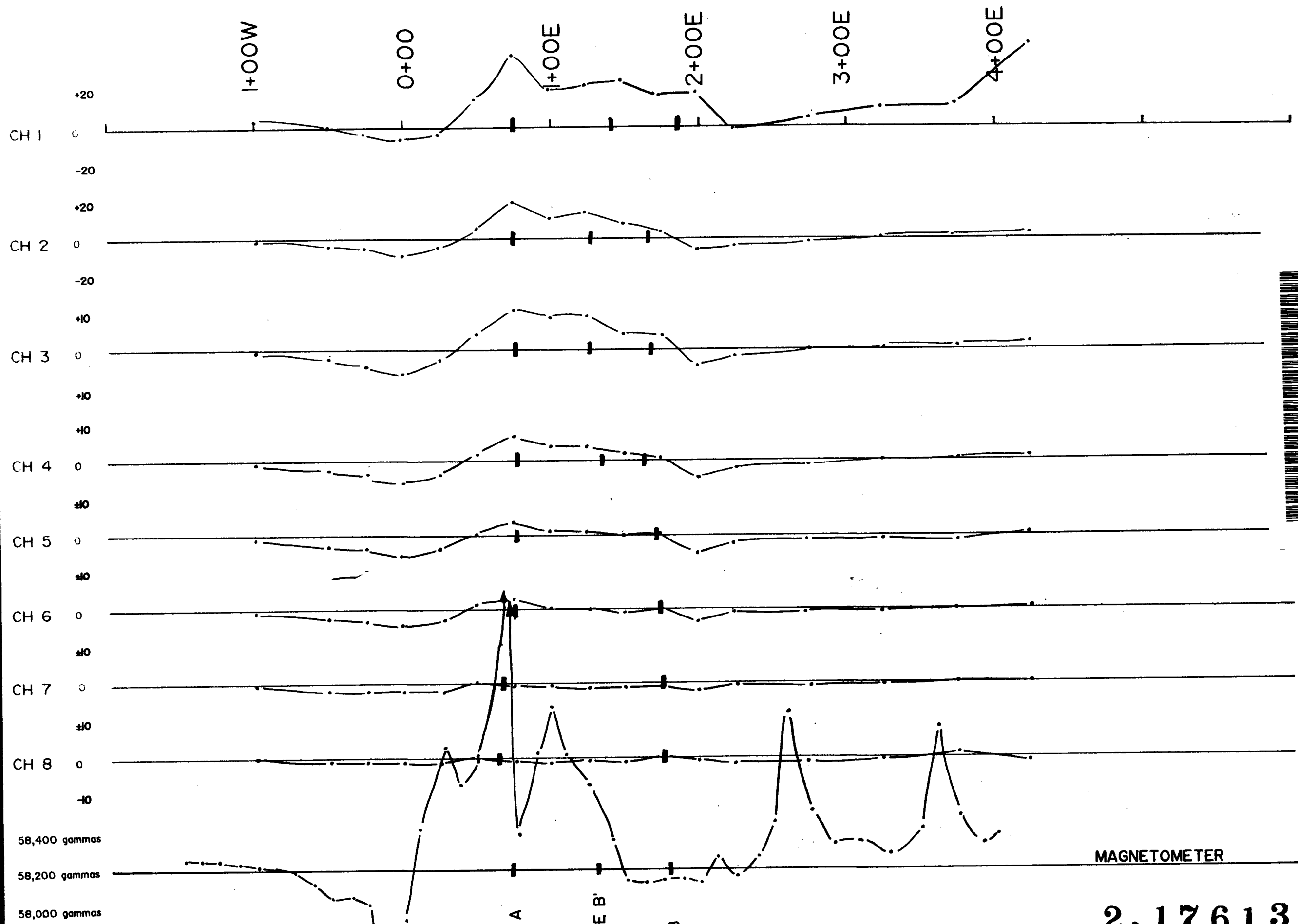


2.17613

EXPLORATION  
 P.O. Box 1000, PAN-7X1  
 Suite 13, Hallinger Bldg, Timmins Ont.  
 Telephone: 705-267-451

CLIENT:	MORGAIN MINERALS	
PROPERTY:	MASSEY TOWNSHIP PROPERTY	
TITLE:	L 22+00North PEM MOVING COIL SURVEY	
Date:	May 1996	Scale: 1:2500
Drawn:	P. Gauthier	Interp: J.C. Grant
		NTS. Job No. E-174





270



SYNCHRONIZATION: RADIO LINK  
 PRIMARY PULSE: 400  
 COIL SEPARATION: 150m  
 DEPTH TO SOURCE:  
 CONDUCTIVITY:  
 WIDTH:  
 DIP:  
 DRILL HOLE CO-ORDINATES:  
 ANGLE OF DRILL HOLE:  
 APPROXIMATE DEPTH:


A	B	B'
72-109m	110-115m	85m
7-25MHO	23MHO	9MHO
VERT.	VERT.	VERT.

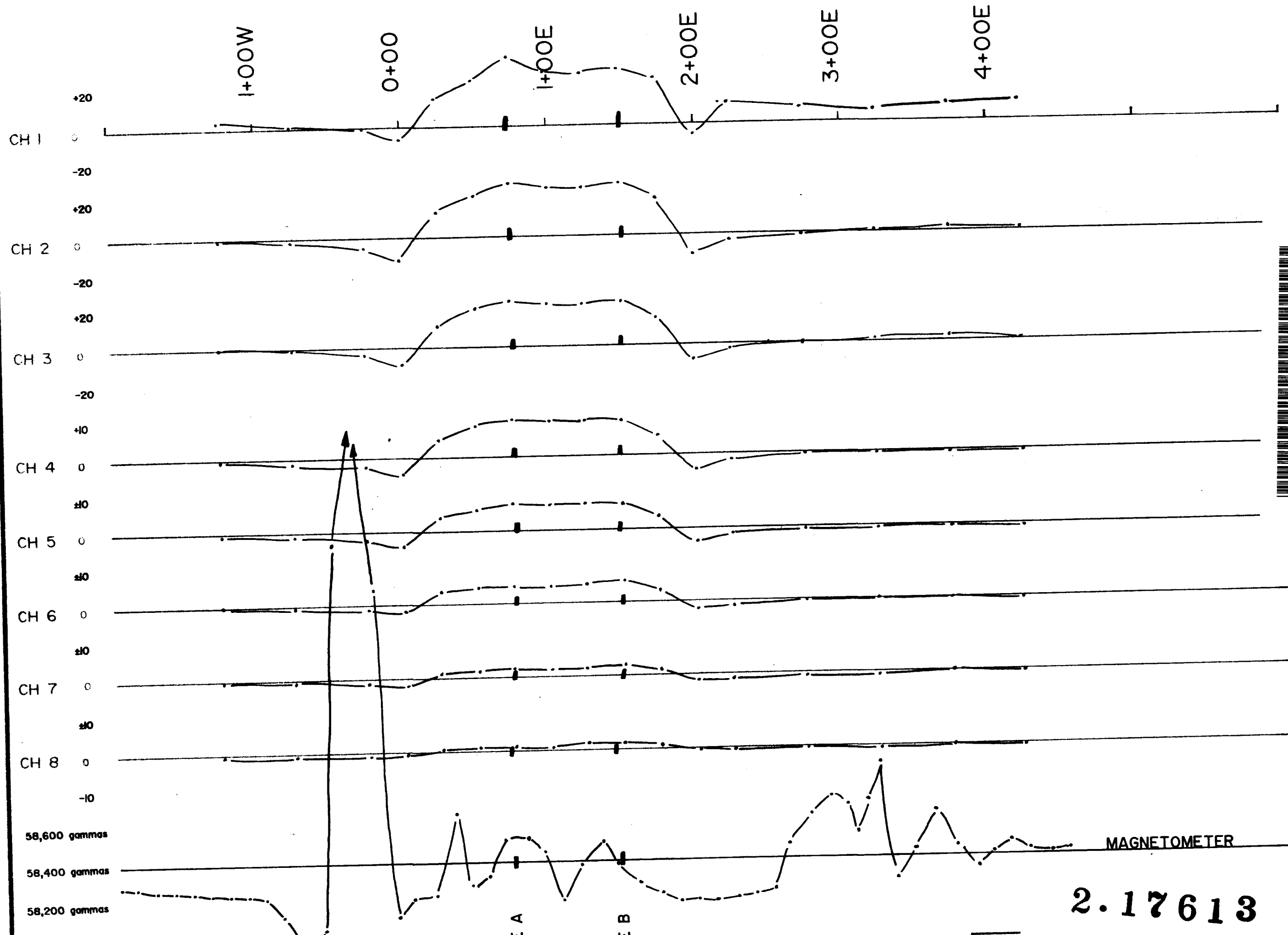
ZONE A  
 WEAK OR DEEP ZONE B'  
 ZONE B



MAGNETOMETER

2.17613

 L. 24+00NORTH LTD. P.O. Box 1000, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-451		
CLIENT:	MORGAIN MINERALS <i>gd</i>	
PROPERTY:	MASSEY TOWNSHIP PROPERTY	
TITLE:	L 24+00North PEM MOVING COIL SURVEY	
Date: May 1996	Scale: 1:2500	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No. E-174



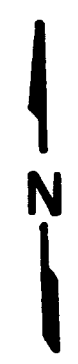
280




SYNCHRONIZATION: RADIO LINK  
 PRIMARY PULSE: 400  
 COIL SEPARATION: 150m  
 DEPTH TO SOURCE:  
 CONDUCTIVITY:  
 WIDTH:  
 DIP:  
 DRILL HOLE CO-ORDINATES:  
 ANGLE OF DRILL HOLE:  
 APPROXIMATE DEPTH:

A	B
81-105m	82-105m
14-27MHO	13-25MHO
VERT.	VERT.

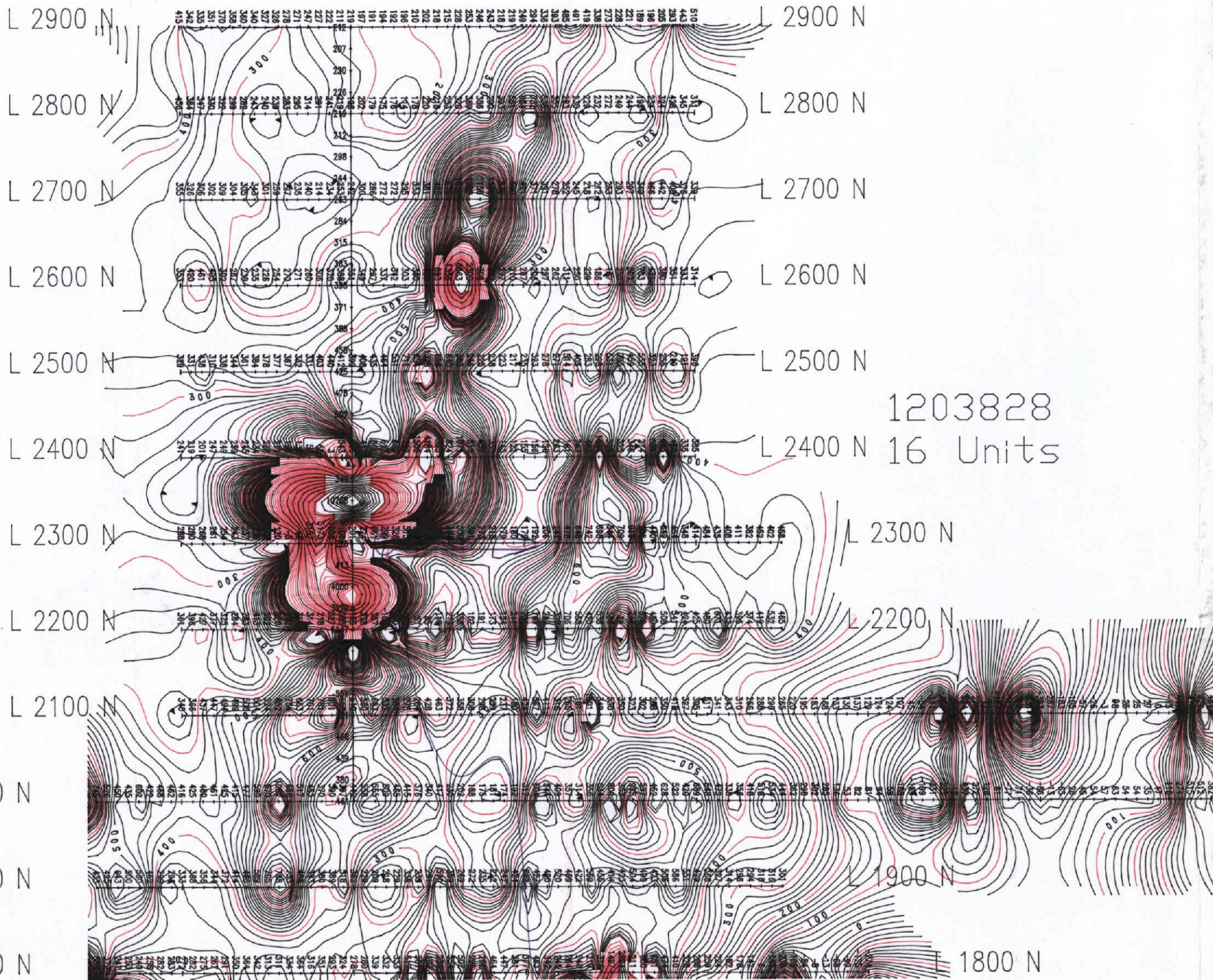
ZONE A  
 ZONE B



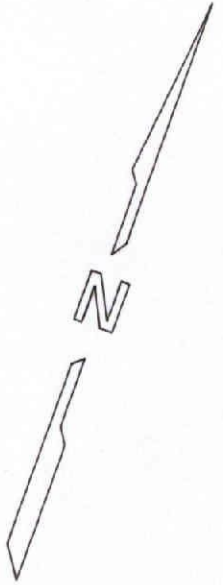
2.17613

		
P.O. Box 1880, P4M-7X1 Suite 13, Hollinger Bldg. Timmins Ont. Telephone: 705-267-4751		
CLIENT:	MORGAIN MINERALS	
PROPERTY:	MASSEY TOWNSHIP PROPERTY	
TITLE:	L 23+00North	
<b>PEM MOVING COIL SURVEY</b>		
Date: May 1996	Scale: 1:2500	NTS
Drawn: P. Gauthier	Interp: J.C. Grant	Job No E-174

300W 200W 100W BASELINE 100E 200E 300E 400E 500E 600E 700E 800E 900E 1000E



2.17613



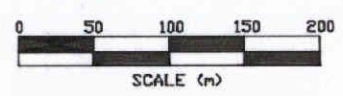
1203828  
16 Units

L 2100 N  
L 2000 N



42A05NW013 2.17613 WHITESIDES

290



SCALE (m)

**LEGEND**  
 Instrument: BRGM OMNI-1V  
 Parameters Measured: Earth's total magnetic field  
 Accuracy: +/- 0.1 nano-teslas  
 Diurnals: Corrected by base station recorder  
 Contour Interval: 0,20,40,60,80,100,.....  
 Reference Field: 57,950 gammas  
 Datum Subtracted: 58,000 gammas

ML96-01  
 depth = 176 metres  
 azimuth = 090 (due east)  
 co-ord. = 2300N/0+15E  
*J.C. Grant*

	EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151	
	CLIENT:	MORGAIN MINERALS
PROPERTY:	MASSEY TOWNSHIP	
TITLE:	MAGNETOMETER SURVEY	
Date: June 1996	Scale: 1:5000	NTS:
Drawn: P. Gauthier	Interp: J.C. Grant	Job No.: E-174