



41N14NW2004 2.20380 POINT ISACOR

010

GEOPHYSICAL REPORT
FOR
RIVER GOLD MINES LTD.
ON THE
BORDER LAKE PROPERTY
PILOT HARBOUR/POINT ISACOR AREAS
SAULT STE. MARIE MINING DIVISION
DISTRICT OF ALGOMA
NORTHEASTERN ONTARIO

Prepared by: J.C. Grant, CET, FGAC
April, 2000.

2.20380

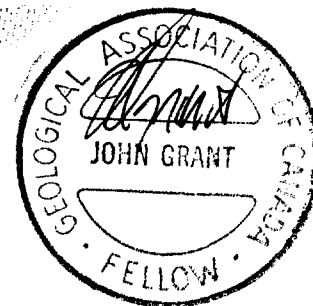




TABLE OF CONTENTS

	Page
INTRODUCTION.....	1
PROPERTY LOCATION AND ACCESS.....	1
CLAIM BLOCK.....	1,2
PERSONNEL.....	2
GROUND PROGRAM.....	2,3
SURVEY RESULTS.....	3
GENERAL MAGNETIC RESULTS.....	3,4
VLF-EM RESULTS.....	4,5
CONCLUSIONS AND RECOMMENDATIONS.....	5,6
CERTIFICATE	
LIST OF FIGURES:	<ul style="list-style-type: none"> 1. LOCATION MAP 2. PROPERTY LOCATION MAP 3. CLAIM MAP
APPENDIX:	<ul style="list-style-type: none"> A. SCINTREX, ENVI MAG SYSTEM <li style="padding-left: 2em;">BRGM, OMNI PLUS BASE STATION UNIT
POCKET MAPS:	<ul style="list-style-type: none"> CONTOURED, TOTAL FIELD MAGNETIC SURVEY 1:5000 SCALE PROFILED, VLF-EM SURVEY, 1:5000 SCALE

INTRODUCTION:

The services of Exsics Exploration Limited were retained by Mr. C. Hartley, on behalf of the Company, River Gold Mines Ltd., to complete a detailed, total field magnetic survey and a VLF-EM survey across a portion of their claim holdings, called the Border Lake Property, in the Pilot Harbour and Point Isacor Areas of the Sault Ste. Marie Mining Division in Northwestern, Ontario.

The purpose of this ground program was to locate and outline geological structures that would be considered favourable horizons for the deposition of gold mineralization. The grid area is to the immediate west and on strike with the Eagle River Mine which, as of December, 1998, had proven probable and possible reserves of 1,287,000 tonnes with an average grade of 10.44 gpt gold.

The geophysical program commenced on the 13th of March and was completed by the 20th of March, 2000. In all, a total of 39.56 kilometres of grid lines were surveyed by the two methods.

PROPERTY LOCATION AND ACCESS:

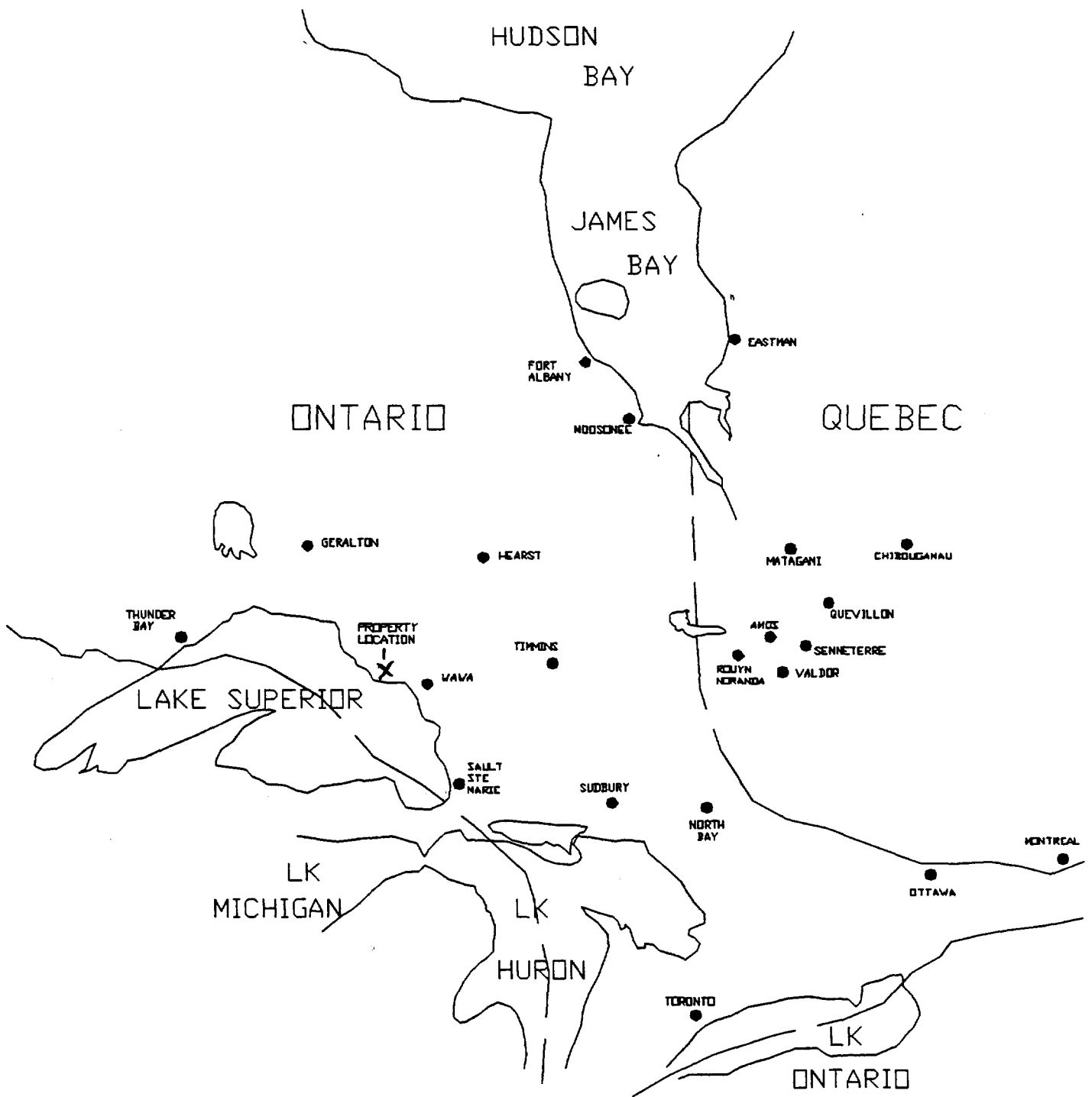
The Border Lake Property is located approximately 50 kilometres west of the Town of Wawa, in the Sault Ste. Marie Mining Division of Northwestern Ontario. Figure 1. More specifically it is situated in the Northeast corner of the Pilot Harbour Area and the Northwest corner of the Point Isacor Area. The entire property is located approximately 10 kilometres north of the north shore of Lake Superior and south of Floating Heart River. Figure 2.

Access to the grid during the survey period was relatively easy. There is a good all weather road that leads to the Eagle Mine operations which is situated approximately 5 to 7 kilometres east of the grid area. Upon reaching the Mine site, a skidoo was used to reach the actual grid area which took approximately 45 minutes. There is a good series of lakes and rivers that provided reasonable access to most section of the grid.

CLAIM BLOCK:

The claim numbers that make up the Border Lake Property are as follows.

Pilot Harbour Area: SSM-1218191, 6 Units, SSM-1231605, 6 Units, SSM-1218192, 3 Units, SSM-924536, SSM-924537, SSM-924538, SSM-924539, SSM-924540, SSM-1183301, SSM-637734



EXSICS EXPLORATION LTD.

P.O. Box 1880, P4N-7X1
 Suite 13, Hollinger Bldg, Timmins Ont.
 Telephone: 705-267-4151, 267-2424

CLIENT: RIVER GOLD MINES LTD.

PROPERTY: BORDER LAKE PROPERTY

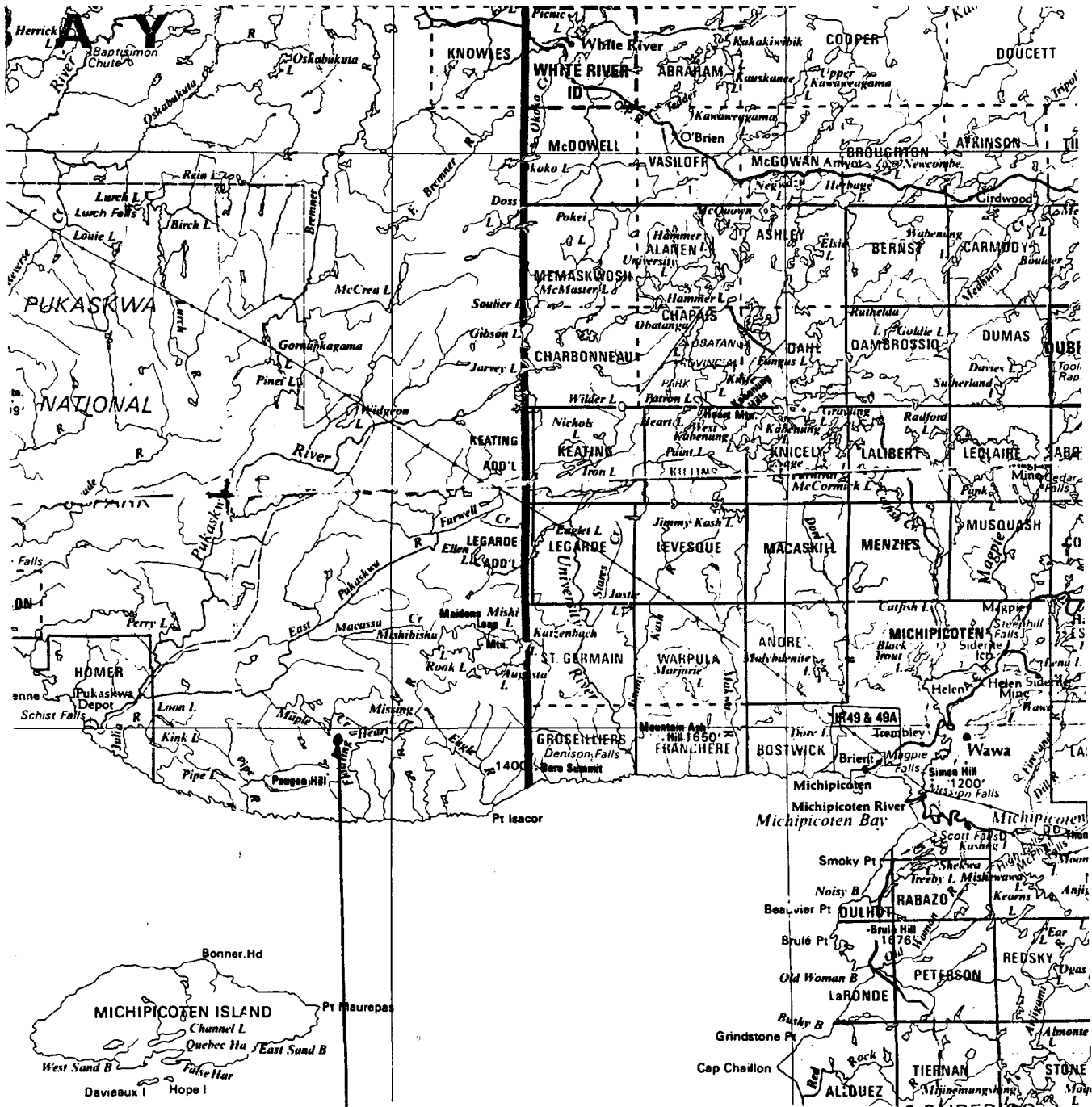
TITLE: PILOT HARBOUR AREA


LOCATION MAP

Fig. 1

Date: Mar., 2000	Scale: 1" = 125 miles	NTS:
Drawn: J.C. Grant	Interp: J.C. Grant	Job No.: E-366





		
EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151, 267-2424		
CLIENT: RIVER GOLD MINES LTD.		
PROPERTY: BORDER LAKE PROPERTY		
TITLE: PILOT HARBOUR AREA		
LOCATION MAP		
Fig. 2		
Date: Mar., 2000	Scale: 1" = 125 miles	NTS:
Drawn: J.C. Grant	Interp: J.C. Grant	Job No.: E-366

Point Isacor Area: SSM-924555, SSM-693629.

Refer to figure 3 copied from MNDM Plan Maps, G-2700 and G-3778, for the location of the claims within the Areas.

PERSONNEL:

The field crew consisted of the following two operators.

J.DerWeduwen.....Timmins, Ontario

E.Jaakkola.....Timmins, Ontario

The program was completed under the supervision of J.C.Grant and all of the plotting and interpretation was done by in house staff.

GROUND PROGRAM:

The ground program consisted of a detailed, total field magnetic survey that was done in conjunction with a VLF-EM survey. The survey was completed using the Scintrex, Envi Mag system and the BRGM, OMNI PLUS base station recorder unit. Specifications for the units can be found as Appendix A of this report. The following parameters were kept constant throughout the survey period.

Line spacing.....100 meters

Station spacing..... 25 meters

Reading intervals.....12.5 meters

Magnetic reference field....58,000 gammas

Datum subtracted.....57,500 gammas

Diurnal correction.....base station recorder

Record interval.....30 seconds

VLF Station and frequency...Cutler, Maine, 24.0khz.

Transmitting direction.....295 degrees

Alignment to grid.....025 degrees.

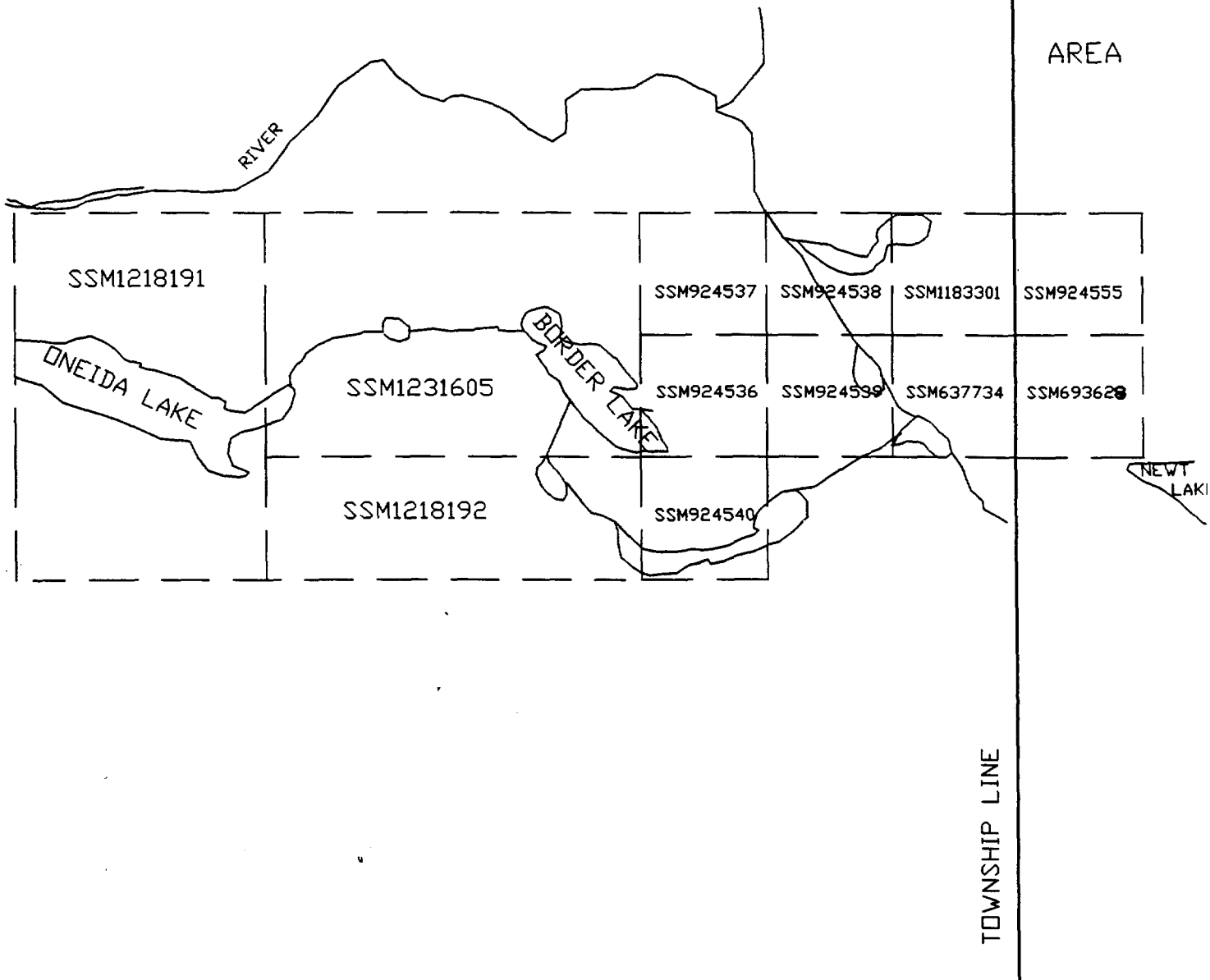
Parameters measured.....Inphase and quadrature components,
tilt angle and field strength values
in percent.

Parameters plotted.....Inphase, in percent.

Upon the completion of the surveys the magnetic data was corrected, levelled and then plotted onto a base map at a scale of 1:5000 and then contoured at 30 gamma intervals where ever possible. A copy of this base map is included in the back pocket of this report.

PILOT HARBOUR
AREA

POINT
ISACOR
AREA



EXSICS EXPLORATION LTD.
P.O. Box 1880, P4N-7X1
Suite 13, Hollinger Bldg, Timmins Ont.
Telephone: 705-267-4151, 267-2424

CLIENT:	RIVER GOLD MINES LTD.	
PROPERTY:	BORDER LAKE PROPERTY	
TITLE:	Pilot Harbour/Point Isacor Areas (PLAN G-2700)	(PLAN G-3778)
CLAIM SKETCH		
Date: Mar., 2000	Scale: 1:20,000	NTS:
Drawn: J.C. Grant	Interp: J.C. Grant	Job No.: E-366

Fig. 3

The VLF data was plotted directly onto a base map at the same scale of 1:5000 and then the data was profiled at 1cm to +/- 20% where ever possible. All of the conductor axis were then placed onto this base map and labelled for ease in interpretation. A copy of this base map is also included in the back pocket of this report.

SURVEY RESULTS:

The surveys were successful in locating and outlining the underlying geological structures of the grid. There were a number of VLF-EM targets as well as a number of magnetically active areas. Each of these EM zones and magnetic zones will be discussed separately and in detail incorporating any and all correlation between the two survey results.

GENERAL MAGNETIC RESULTS:

The most predominant structures outlined by the magnetic survey are two northwest striking cross structures that are well define striking across the grid on the western section of the grid and in the vicinity of Border Lake. Both of these cross structures probably relate to major faults as they appear, in places, to have offset the east-west striking magnetic high units.

The magnetic survey was also successful in outlining several good magnetic high units that strike east-west across the grid. The most predominant of these highs lie north of TL 9650MN and south of TL 10430MN. They are quite well defined as narrow to broad magnetic highs that generally parallel one another. Both of the more predominant highs have been cross cut by the interpreted fault zones and both targets have been offset by these faults. The offset in the northern high is visible on line 5150ME at 10150MN and in the southern mag trend on line 5300MN at 9900MN.

The southern trend appears to terminate next to the western fault zone and this is visible on line 4100ME at 10000MN. The northern trend appears to cut across the fault zone in the vicinity of line 4000ME at 10050MN.

There is another, somewhat weaker, magnetic high trend generally paralleling the above two trends. This zone can be traced from the southern tip of line 5700ME all the way to line 4200ME at 9550MN. Albeit, the zone is pinching and swelling along its strike length.

There also appears to be a contact striking across the grid from the southern tip of line 6400ME to the northern tip of line 6100ME.

To the west of this suspected contact, there is quite a back ground shift from east to west which may suggest a geological change. However, the magnetic unit may also be a deeper seated fault zone which is not as magnetically predominant as the two faults to the west.

There also appears to be minor splay faults and or secondary cross structures striking off of the two main fault zones. This is evident in the vicinity of lines 4100ME at 9925MN to 4600ME at 9750MN. This is represented by a series of magnetic lows striking east-southeast.

Another such splay is in the area of lines 5100ME and 5400ME at 10230MN. Again the magnetic response is subtle. There is a third such splay in the area of lines 5400ME and 5700ME at 9750MN and it is represented by a modest magnetic low.

VLF-EM RESULTS:

VLF-EM ZONE A:

This zone can be traced from line 7100ME to 6700ME where it continues off of the grid in both directions. It appears again striking across the southern ends of lines 6000ME to 5500ME where it again continues off of the grid to the southwest. The southwest section of the zone is cross cut by a northwest trending fault zone which does not appear to off set the strike of the zone. There is very little direct magnetic association with the strike of this zone.

VLF-EM ZONE B:

This zone can be traced from line 5400ME to and including 3600ME and continues off of the grid in both directions. The strike of the zone has been interrupted in the vicinity of lines 4300ME and 4400ME by a very predominant northwest striking fault zone. Zone B appears to lie along the southern edge of a magnetic unit that consists of spotty mag highs along it's strike length.

This zone appears to have cross cut the fault like structure situated on the west section of the grid as the magnetics show deformity in the cross structure at the point where zone B crosses it. This is quite evident on lines 4100ME and 4300ME which are on either side of the cross structure.

VLF-EM ZONE C:

This zone can be traced from line 5800ME to 4900ME and it also has been cut and offset by the fault zone. The eastern section of the zone has a good direct magnetic association, however, the western section appears to lie along the southern edge of one of the major east-west striking magnetic high units. This zone may extend as far as line 4200ME where it has been labelled D. That portion of the zone on line 4200ME has direct magnetic association, the northern magnetic east-west striking mag high.

VLF-EM ZONE D:

This zone parallels the strike of zone C and can be followed from line 5400ME to and including 4100ME where it appears to terminate next to the fault zone. This zone generally correlates to the southern, east-west striking magnetic high unit. Deformity in the shore line of Border Lake also relates to the strike direction and location of this zone, suggesting it represents a major geological unit.

VLF-EM ZONE E:

This zone can be traced from line 5100ME to 4900ME and may extend as far as lines 4400ME and 4100ME where it too appears to terminate next to the fault zone. This zone relates to a subtle but generally high magnetic unit which strikes across the grid in the same vicinity.

CONCLUSIONS AND RECOMMENDATIONS:

The ground program was successful in locating and outlining a geological environment of generally east-west striking magnetic highs that in turn have been cross cut by at least two major, northwest-southeast striking faults. Both of these fault zones appear to have off set the east-west striking mag zones. The fault zones also appear to be the source of several splay faults which strike off in an east-west direction or in a southeast direction. These splay faults also appear to have offset the VLF-EM zones as well as the magnetic high zones.

The magnetic survey also suggest that there are a number of north-south striking minor cross structures evident scattered across the grid.

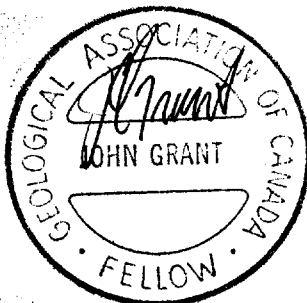
These north-south zones have caused pinching and swelling in the magnetic high units. Several of these zones were noted on lines 5900ME between TL 9800MN and 10100MN, 3850ME between TL 9350MN and 9750MN.

These ground surveys should be followed up with a detailed geological survey especially in the vicinity of the major fault structures and in the area of the VLF-EM conductive zones. The field crew noted numerous outcroppings in most areas of the survey grid. This should aid in the interpretation of most of the VLF zones.

If any of the targets return favourable results, geologically, then several lines of IP surveys should be considered to better define the zones and their depth. Also, the surveys should be extended to or incorporated with any and all existing surveys in the area to provide detailed survey coverage from the grid to the existing area of the mine.

Respectfully submitted

J.C. Grant, CET, FGAC
April, 2000.

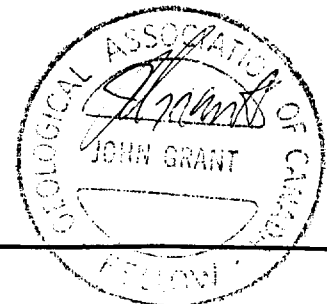


CERTIFICATE

I, John C. Grant, hereby certify that:

- 1) I am a graduate technologist, (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 currently as Exploration Manager and Geophysicist for Exsics Exploration Limited since 1980.
- 2) I am a member in good standing of the Certified Engineering Technologist Association, (CET), since 1984
- 3) I am a Fellow of the Geological Association of Canada, (FGAC), since 1986.
- 4) I have been actively engaged in my profession since May of 1975, including all aspects of exploration studies, surveys and interpretation.
- 5) I have no specific or special interest in the described property. I have been retained as a Consulting Geophysicist by the Property holders.

John Charles Grant, CET, FGAC.



APPENDIX A

SCINTREX

ENVI-MAG Environmental Magnetometer/Gradiometer

Locating Buried Drums and Tanks?

The ENVI-MAG is the solution to this environmental problem. ENVI-MAG is an inexpensive, lightweight, portable WALKMAG™ which enables you to survey large areas quickly and accurately.

ENVI-MAG is a portable, proton precession magnetometer and/or gradiometer, for geotechnical, archaeological and environmental applications where high production, fast count rate and high sensitivity are required. It may also be used for other applications, such as mineral exploration, and may be configured as a total-field magnetometer, a vertical gradiometer or as a base station.

The ENVI-MAG

- easily detects buried drums to depths of 10 feet or more
- more sensitive to the steel of a buried drum than EM or radar
- much less expensive than EM or radar
- survey productivity much higher than with EM or radar

Features and Benefits

"WALKMAG" Magnetometer/Gradiometer

The "WALKMAG" mode of operation sometimes known as "Walking Mag") is user-selectable from the keyboard. In this mode, data is acquired and recorded at the rate of 2 readings per second as the operator walks at a steady pace along a line. At desired intervals, the operator "triggers" an event marker by a single key stroke, assigning coordinates to the recorded data.

True Simultaneous Gradiometer

An optional upgrade kit is available to configure ENVI-MAG as a gradiometer to make true, simultaneous gradiometer measurements. Gradiometry is useful for geotechnical and archaeological surveys where small near surface magnetic targets are the object of the survey.

Selectable Sampling Rates

0.5 second, 1 second and 2 second reading rates user selectable from the keyboard.

Main features include:

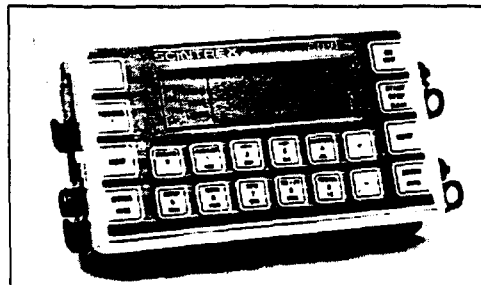
- select sampling rates as fast as 2 times per second
- "WALKMAG" mode for rapid acquisition of data
- large internal, expandable memory
- easy to read, large LCD screen displays data both numerically and graphically
- ENVIMAP software for processing and mapping data

ENVI-MAG comprises several basic modules; a lightweight console with a large screen alphanumeric display and high capacity memory, a staff mounted sensor and sensor cable, rechargeable battery and battery charger, RS-232 cable and ENVIMAP processing and mapping software.

For gradiometry applications an upgrade kit is available, comprising an additional processor module for installation in the console, and a second sensor with a staff extender.

Large-Key Keypad

The large-key keypad allows easy access for gloved-hands in cold-weather operations. Each key has a multi-purpose function.



Front panel of ENVI-MAG showing a graphic profile of data and large-key keypad

Large Capacity Memory

ENVI-MAG with standard memory stores up to 28,000 readings of total field measurements, 21,000 readings of gradiometry data or 151,000 readings as a base station. An expanded memory option is available which increases this standard capacity by a factor of 5.



ENVI-MAG Proton Magnetometer in operation

For base station applications a Base Station Accessory Kit is available so that the sensor and staff may be converted into a base station sensor.

Easy Review of Data

For quality of data and for a rapid analysis of the magnetic characteristics of the survey line, several modes of review are possible. These include the measurements at the last four stations, the ability to scroll through any or all previous readings in memory, and a graphic display of the previous data as profiles, line by line. This feature is very useful for environmental and archaeological surveys.

Highly Productive

The "WALKMAG" mode of operation acquires data rapidly at close station intervals, ensuring high-definition results. This increases survey productivity by a factor of 5 when compared to a conventional magnetometer survey.

"Datacheck" Quality Control of Data

"Datacheck" provides a feature wherein at the end of each survey line, data may be reviewed as a profile on ENVI-MAG's screen. Datacheck confirms that the instrument is functioning correctly and

allows the user to note the magnetic relief (anomaly) on the line.

Large Screen Display

"Super-Twist" 64 x 240 dot (8 lines x 40 characters), LCD graphic screen provides good visibility in all light conditions. A display heater is optionally available for low-temperature operations below 0°C.



Close-up of the ENVI-MAG screen showing data presented after each reading

Interactive Menus

The set-up of ENVI-MAG is menu-driven, and minimizes the operator's learning time, and on-going tasks.



Close-up of display of ENVI-MAG showing interactive set-up menu

Specifications

Total Field Operating Range

20,000 to 100,000 nT (gammas)

Total Field Absolute Accuracy

+/- 1nT

Sensitivity

0.1 nT at 2 second sampling rate

Tuning

Fully solid state. Manual or automatic, keyboard selectable

Cycling (Reading) Rates

0.5, 1 or 2 seconds, up to 9999 seconds for base station applications, keyboard selectable

Gradiometer Option

Includes a second sensor, 20 inch (1/2m) staff extender and processor module

"WALKMAG" Mode

0.5 second for walking surveys, variable rates for hilly terrain

Digital Display

LCD "Super Twist", 240 x 64 dots graphics, 8 line x 40 characters alphanumeric

Display Heater

Thermostatically controlled, for cold weather operations

Keyboard Input

17 keys, dual function, membrane type

Notebook Function

32 characters, 5 user-defined MACRO's for quick entry

Rechargeable Battery and Battery Charger

An "off-the-shelf" lead-acid battery and charger are provided as standard. The low-cost "Camcorder" type battery is available from electronic parts distributors everywhere.

HELP-Line Available

Purchasers of ENVI-MAG are provided with a HELP-Line telephone number to call in the event assistance is needed with an application or instrumentation problem.

ENVIMAP Processing and Mapping Software

Supplied with ENVI-MAG, and custom designed for this purpose, is easy-to-use, very user-friendly, menu driven data processing and mapping software called ENVIMAP. This unique software appears to the user to be a single program, but is in fact a sequence of separate programs, each performing a specific task. Under the menu system, there are separate programs to do the following:

- read the ENVI-MAG data and reformat it into a standard compatible with the ENVIMAP software
- grid the data into a standard grid format
- create a vector file of posted values

with line and baseline identification that allows the user to add some title information and build a suitable surround

- contour the gridded data
- autoscale the combined results of the posting/surround step and the contouring step to fit on a standard 8.5 ins. wide dot-matrix printer
- rasterize and output the results of step e) to the printer

ENVIMAP is designed to be as simple as possible. The user is required to answer a few basic questions asked by ENVIMAP, and then simply toggles "GO" to let ENVIMAP provide default parameters for the making of the contour map. The user can modify certain characteristics of the output plot. ENVIMAP'S menu system is both keyboard and mouse operable. HELP screens are integrated with the menu system so that HELP is displayed whenever the user requests it.

Options Available

- True simultaneous gradiometer upgrade
- Base station upgrade
- Display heater for low temperature operations
- External battery pouch

Standard Memory

Total Field Measurements: 28,000 readings
Gradiometer Measurements: 21,000 readings
Base Station Measurements: 151,000 readings

Expanded Memory

Total Field Measurements: 140,000 readings
Gradiometer Measurements: 109,000 readings
Base Station Measurements: 750,000 readings

Real-Time Clock

Records full date, hours, minutes and seconds with 1 second resolution, +/- 1 second stability over 12 hours

Digital Data Output

RS-232C interface, 600 to 57,600 Baud, 7 or 8 data bits, 1 start, 1 stop bit, no parity format. Selectable carriage return delay (0-999 ms) to accommodate slow peripherals. Handshaking is done by X-on/X-off

Analog Output

0 - 999 mV full scale output voltage with keyboard selectable range of 1, 10, 100, 1,000 or 10,000 nT full scale

Power Supply

Rechargeable "Camcorder" type, 2.3 Ah, Lead-acid battery.

12 Volts at 0.65 Amp for magnetometer, 1.2 Amp for gradiometer,

External 12 Volt input for base station operations

Optional external battery pouch for cold weather operations

Battery Charger

110 Volt - 230 Volt, 50/60 Hz

Operating Temperature Range

Standard 0° to 60°C
Optional -40°C to 60°C

Dimensions

Console - 10 x 6 x 2.25 inches
(250 mm x 152 mm x 55 mm)

T.F. sensor - 2.75 inches dia. x 7 inches
(70 mm x 175 mm)

Grad. sensor and staff extender - 2.75 inches dia. x 26.5 inches (70 mm x 675 mm)

T.F. staff - 1 inch dia. x 76 inches (25 mm x 2 m)

Weight

Console - 5.4 lbs (2.45 kg)
with rechargeable battery

T. F. sensor - 2.2 lbs (1.15 kg)

Grad. sensor - 2.5 lbs (1.15 kg)

Staff - 1.75 lbs (0.8 kg)

SCINTREX

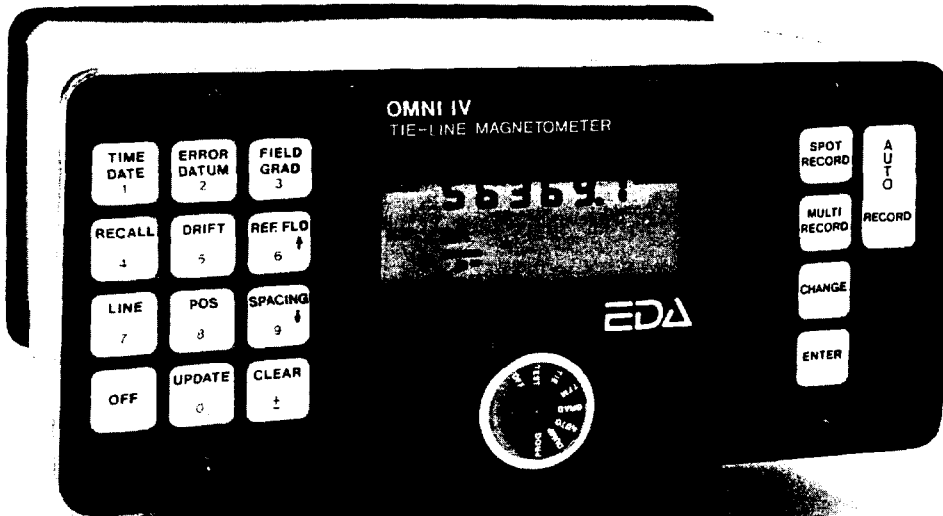
Head Office

222 Snidercroft Road
Concord, Ontario, Canada L4K 1B5
Telephone: (905) 669-2280
Fax: (905) 669-6403 or 669-5132
Telex: 06-964570

In the USA:

Scintrex Inc.
85 River Rock Drive
Unit 202
Buffalo, NY 14207
Telephone: (716) 298-1219
Fax: (716) 298-1317

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	± 0.02 gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	± 1 gamma at 50,000 gammas at 23°C ± 2 gamma over total temperature range
Standard Memory Capacity	
Total Field or Gradient	1,200 data blocks or sets of readings
Tie-Line Points	100 data blocks or sets of readings
Base Station	5,000 data blocks or sets of readings
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to $+55^{\circ}\text{C}$. 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)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	-40°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
Weights and Dimensions	
Instrument Console Only	2.8 kg, 238 x 150 x 250mm
NiCad or Alkaline Battery Cartridge	1.2 kg, 235 x 105 x 90mm
NiCad or Alkaline Battery Belt	1.2 kg, 540 x 100 x 40mm
Lead-Acid Battery Cartridge	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 (0.5m separation-standard)	2.1 kg, 56mm diameter x 790mm
Gradient Sensor (1.0m separation-optional)	2.2 kg, 56mm diameter x 1300mm
Standard System Complement	instrument console; sensor; 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly, operations manual.
Base Station Option	Standard system plus 30 meter cable
Gradiometer Option	Standard system plus 0.5 meter sensor

EDA Instruments Inc.
4 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

Final Revised



Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsections 61(2) and 61(3), R.S.O. 1990

Transaction Number (if any) 00050.00055
Assessment Plan Research Imaging



41N14NW2004 2.20380 POINT ISACOR 900

Ministry of Subsections 61(2) and 61(3) of the Mining Act, under section 8 of the Mining Act, via the assessment work and associated with the claim and holder. Check for details about this collection on Development and Mines, 3rd Floor, 255

RECEIVED JUN 21 2000 GEOSCIENCE ASSESSMENT OFFICE

Instructions: - For work performed on Crown Lands before recording a claim, use Form 0290 - Please type or print in ink.

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

Name: River Gold Mines Ltd
Address: P O Box 1520 Wawa Ont P051K0
Telephone Number: 705-856-2721
Fax Number: 705-856-2986

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

Geotechnical: panning, surveys, assays and work under section 18 (regs) [checked]
Physical: drilling, stripping, trenching and associated assays
Rehabilitation
Work Type: Line cutting, and Morphological surveys
Date Work Performed: 01 Jun 2000
Mining Division: Sault Ste Marie
Resident Geologist District: Timmins

- 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 listed for assaying work; - include two copies of your technical report.

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

Name: Exsics Exploration Ltd
Address: P.O. Box 1880 Timmins Ont
Name: Geoserve Canada Inc
Address: P.O. Box 1525 South Porcupine Ont
Telephone Number: 705-267-4151
Fax Number: 705-264-5790
Telephone Number: 705-235-8661
Fax Number: 705-235-8038

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4. Certification by Recorded Holder or Agent

I, CHARLES HARTLEY, do hereby certify that I have personally supervised the work 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: Charles Hartley
Date: June 15/2000
Agent's Address: P.O. Box 1520 Wawa Ont
Telephone Number: 705-856-2721
Fax Number: 856-2986

2.20380

final revised

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

00050, 00055

Mining Claim Number. Or if work was done on other rights: mining land, show in this column the location number indicated on the claim map.	Number of Claims (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.	Share/Value of work to be distributed at a future date
06 787827	16 ha	\$26,825	N/A	\$24,000	\$2,825
08 1234667	12	0	\$24,000	0	0
08 1234668	2	\$ 4,882	2,400	0	\$4,882
1 1218191	6	8091.63	2400	5600	91.63
2 1236989	1	0	1600	0	0
3 1236996	1	0	1600	0	0
4 1238820	3	0	1600	0	0
5 1231605	6	8091.63	2400	3600	2091.63
6 1238320	3	0	6000	0	0
7 1218192	3	4645.81	2400	0	1645.81
8 924538	1	1348.60	800	400	148.60
9 924537	1	0	400	0	0
10 924539	1	1348.60	800	400	148.60
11 924536	1	0	400	0	0
12 63773A	1	1348.60	800	400	148.60
13 924555	1	0	400	0	0
14 693628	1	1348.60	800	400	148.60
15 924541	1	0	400	0	0
Column Totals		25623.24	20400	10000	4422.84

I, Charles Hartley, 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 Record Holder of Agent Assigned to Mining Charles Hartley Date June 19 / 2000

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GEOSCIENCE ASSESSMENT OFFICE

6. Instruction 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;
- 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):

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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

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

2.20380

** 04 PAGE 04 **



Ministry of
Economic Development
and Trade

Schedule for Declaration of Assessment Work on Mining Land

Transaction Number (please copy)
00050.00055

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 Claims 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.
<i>Carried forward</i>		<i>25 623.43</i>	<i>21200</i>	<i>10800</i>	<i>4402.84</i>
<i>16 924570</i>	<i>1</i>	<i>1348.60</i>	<i>800</i>	<i>400</i>	<i>148.60</i>
<i>637733</i>	<i>1</i>	<i>0</i>	<i>400</i>	<i>0</i>	<i>0</i>
Column Totals		<i>26972.03</i>	<i>22400</i>	<i>11200</i>	<i>4571.44</i>

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 JUN 21 2000
 GEOSCIENCE ASSESSMENT
 OFFICE

RECEIVED
 4 p.m.
 JUN 30
 GEOSCIENCE ASSESSMENT
 OFFICE

2.20380



Ontario

Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use) 00050.0055

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/06. Under section 8 of the Mining Act, this 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 a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P2E 6G6.

Work Type	Units of work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Lines cut	28 Km	\$325/km	\$9100
Lines cut	12 Km	275/km	3300
Magnetic/VLF Survey	40 Km	192/km	7680
RECEIVED JUN 21 2003 GEOLOGICAL ASSESSMENT OFFICE			
Associated Costs (e.g. supplies, mobilization and demobilization).			
mob-de mob - Geophysical Crew			950
Timmins → mine site			
Transportation Costs			
Helicopter		600 to 800/hr + fuel	12123.10
Food and Lodging Costs			
Camp			4730
Total Value of Assessment Work			\$26972.10

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. If this situation applies to your claims, use the calculation below:

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

Notes:

- 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. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, CHARLES HARTLEY 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 Senior Exploration Geologist I am authorized to make this certification.
(recorded holder, agent, or state company position with signing authority)

Signature: Charles Hartley Date: June 15/00

0212 (04/97)

2.20380

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

July 11, 2000

RIVER GOLD MINES LTD.
P.O. BOX 268
VAL D'OR, QUEBEC
J9P-4P3

Telephone: (888) 415-9845
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.20380

Status

Subject: Transaction Number(s): W0050.00055 Approval

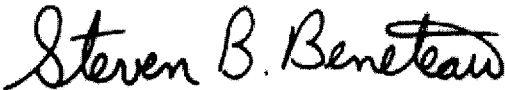
We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

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. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

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 **BRUCE GATES** by e-mail at bruce.gates@ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY
Steve B. Beneteau
Acting Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.20380

Date Correspondence Sent: July 11, 2000

Assessor: BRUCE GATES

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W0050.00055	1218191	PILOT HARBOUR, POINT ISACOR	Approval	July 11, 2000

Section:

14 Geophysical MAG

14 Geophysical VLF

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

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

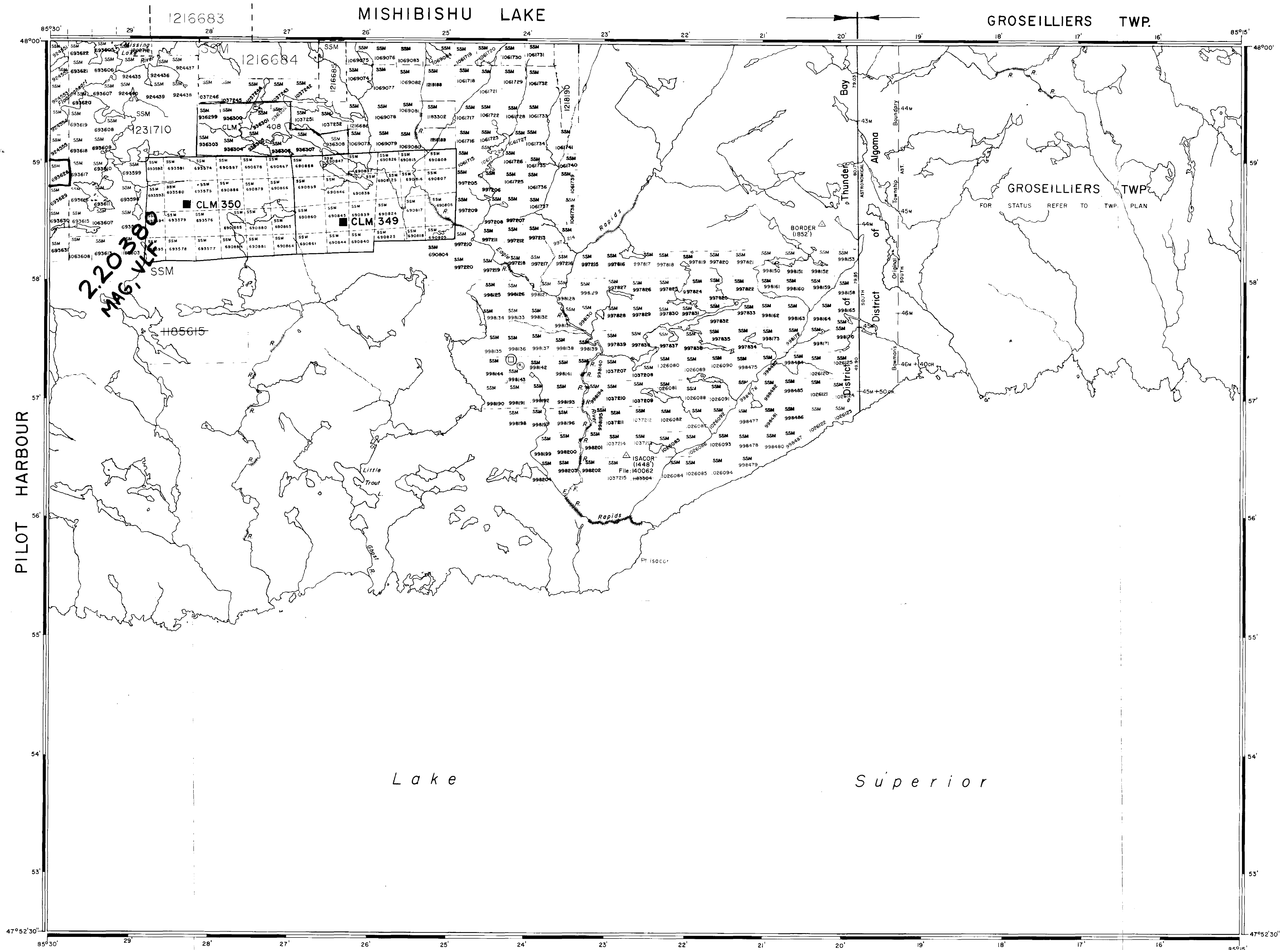
Charles Hartley
WAWA, ONTARIO, CANADA

RIVER GOLD MINES LTD.
VAL D'OR, QUEBEC

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
SEC 340 MG ACT		23/10/81		169051
GMF RADAR STATION			DEPT OF NATIONAL DEFENCE	
			WITHDRAWN FROM STAKING	



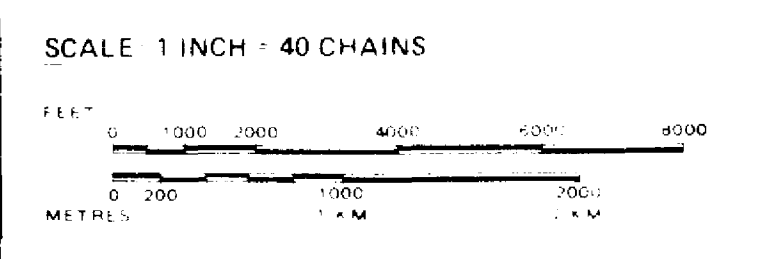
2-20-388
 MAG. V.F.F.

LEGEND

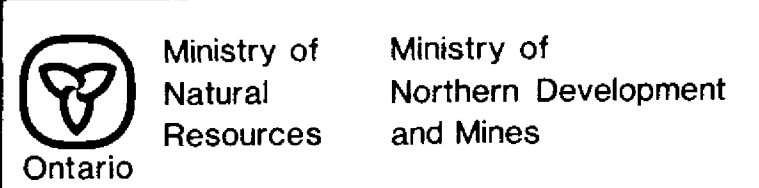
- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS BASE LINES ETC
- LOTS, MINING CLAIMS, PARCELS ETC
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION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

DISPOSITION OF CROWN LANDS

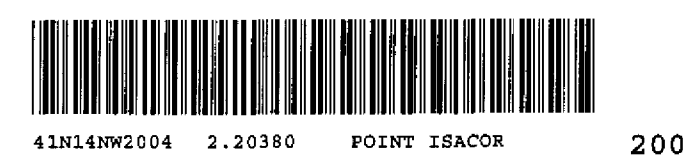
- | TYPE OF DOCUMENT | SYMBOL |
|---------------------------------|--------|
| PATENT, SURFACE & MINING RIGHTS | ● |
| ... SURFACE RIGHTS ONLY | ○ |
| ... MINING RIGHTS ONLY | ◐ |
| LEASE, SURFACE & MINING RIGHTS | ■ |
| ... SURFACE RIGHTS ONLY | ◼ |
| ... MINING RIGHTS ONLY | ◑ |
| LICENCE OF OCCUPATION | ○ |
| ORDER-IN-COUNCIL | OC |
| RESERVATION | ○ |
| CANCELLED | ○ |
| SAND & GRAVEL | ○ |
- NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1921 VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT R.S.O. 1910 CHAP. 180 SEC. 41 & 42.



AREA
POINT ISACOR
 M.N.R. ADMINISTRATIVE DISTRICT
WAWA
 MINING DIVISION
SAULT STE. MARIE
 LAND TITLES / REGISTRY DIVISION
THUNDER BAY

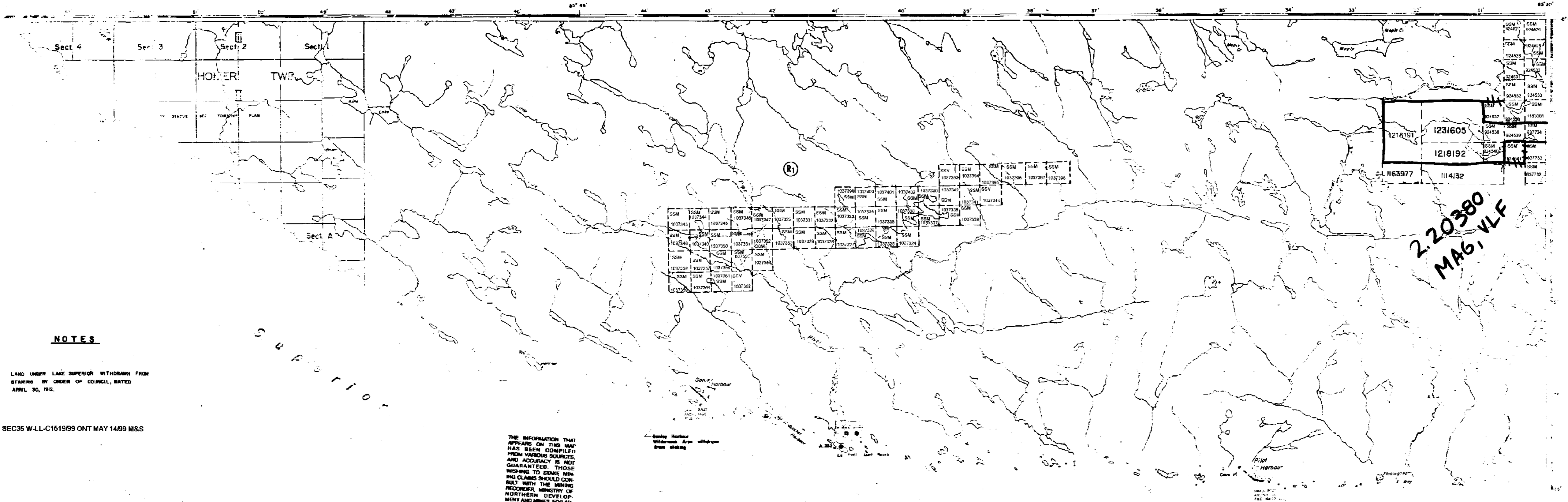


Date FEBRUARY 1987 Number **G-3778**



TRIM TO THIS LINE ALL AROUND

G-3778
 POINT ISACOR
 G-3778



NOTES

LAND UNDER LAKE SUPERIOR WITHDRAWN FROM STAFFING BY ORDER OF COUNCIL, DATED APRIL 30, 1912.

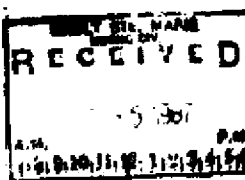
© SEC35 W-LL-C1519/99 ONT MAY 14/99 M&S

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. ACCURACY IS NOT GUARANTEED. THOSE WISHING TO MAKE 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.

Sanity Harbour Withdrawn Area withdrawn from staffing



210



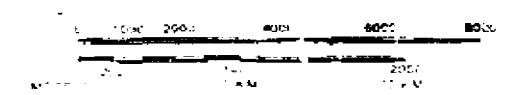
LEGEND

- 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

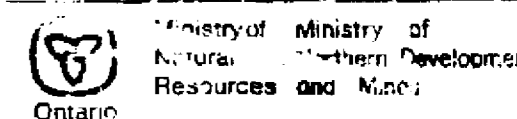
- | TYPE OF DOCUMENT | SYMBOL |
|--------------------------------|--------|
| PATENT SURFACE & MINING RIGHTS | ● |
| SURFACE RIGHTS ONLY | ○ |
| MINING RIGHTS ONLY | ◐ |
| LEASE, SURFACE & MINING RIGHTS | ◑ |
| SURFACE RIGHTS ONLY | ◒ |
| MINING RIGHTS ONLY | ◓ |
| LICENCE OF OCCUPATION | ◔ |
| ORDER-IN-COUNCIL | OC |
| RESERVATION | ⊙ |
| CANCELLED | ⊘ |
| SAND & GRAVEL | ⊙ |
- LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS
 NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CAP. 300, SEC. 41, SUBSEC. 1

SCALE 1:100,000 CHAIN



AREA
PILOT HARBOUR

H.N.R. ADMINISTRATIVE DISTRICT
 WAWA
 MINING DIVISION
 SAULT STE. MARIE
 LAND TITLES / REGISTRY DIVISION
 THUNDER BAY



The 1975 Magnetic Bearings Approx. Annual Change decreasing 2"

Date JULY 1986
 Number G-2700

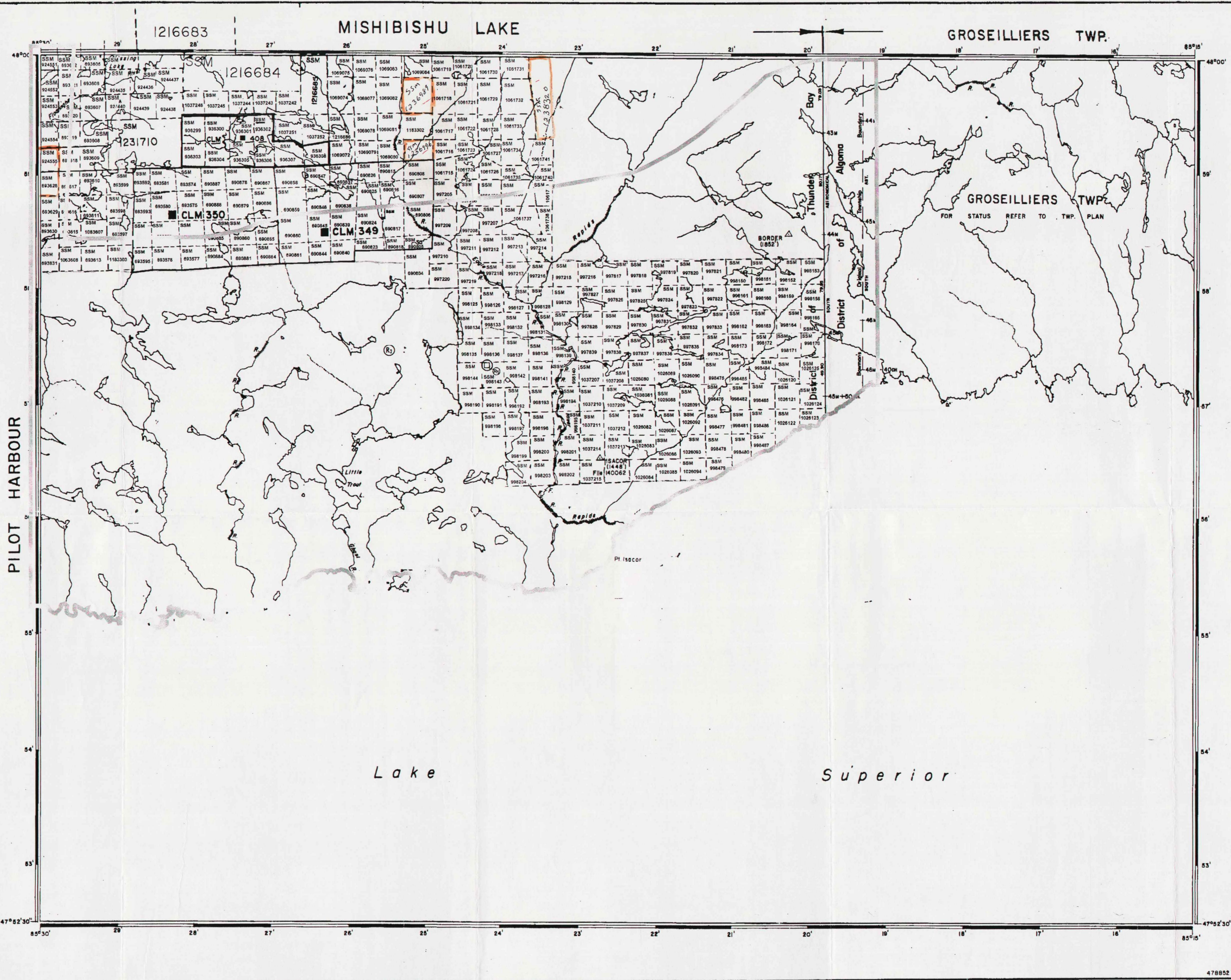
REFERENCES

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
SEC 340 M2 ACT GAP RADAR STATION DEPT. OF NATIONAL DEFENCE WITHDRAWN FROM STAKING		23/10/81		168051
SEC 35 W.L.C-1519/99 ONT MAY 14/99 M&S				

2.20380

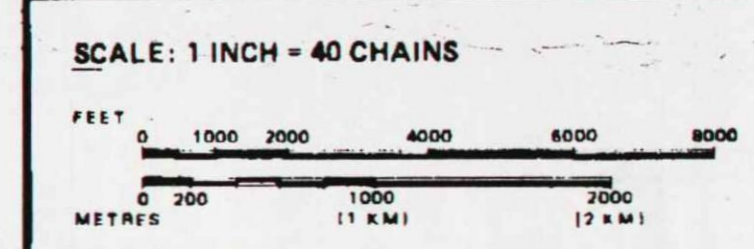


LEGEND

- 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
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- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKIEG
- 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	OC
ORDER-IN-COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○
LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS	○



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED.

JAN 10 2000

THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDS DIVISION OF THE MINISTRY OF NORTHERN DEVELOPMENT AND MINES. FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

SAULT STE. MARIE MINING DIVISION RECEIVED

FEB - 7 1994

7, 8, 9, 12, 1, 2, 3, 4, 5, 6

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AREA

POINT ISACOR

M.N.R. ADMINISTRATIVE DISTRICT

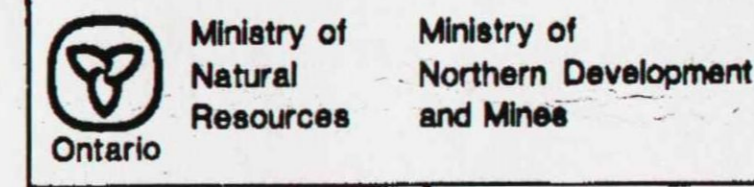
WAWA

MINING DIVISION

SAULT STE. MARIE

LAND TITLES / REGISTRY DIVISION

THUNDER BAY



Date FEBRUARY 1987

Number **G-3778**

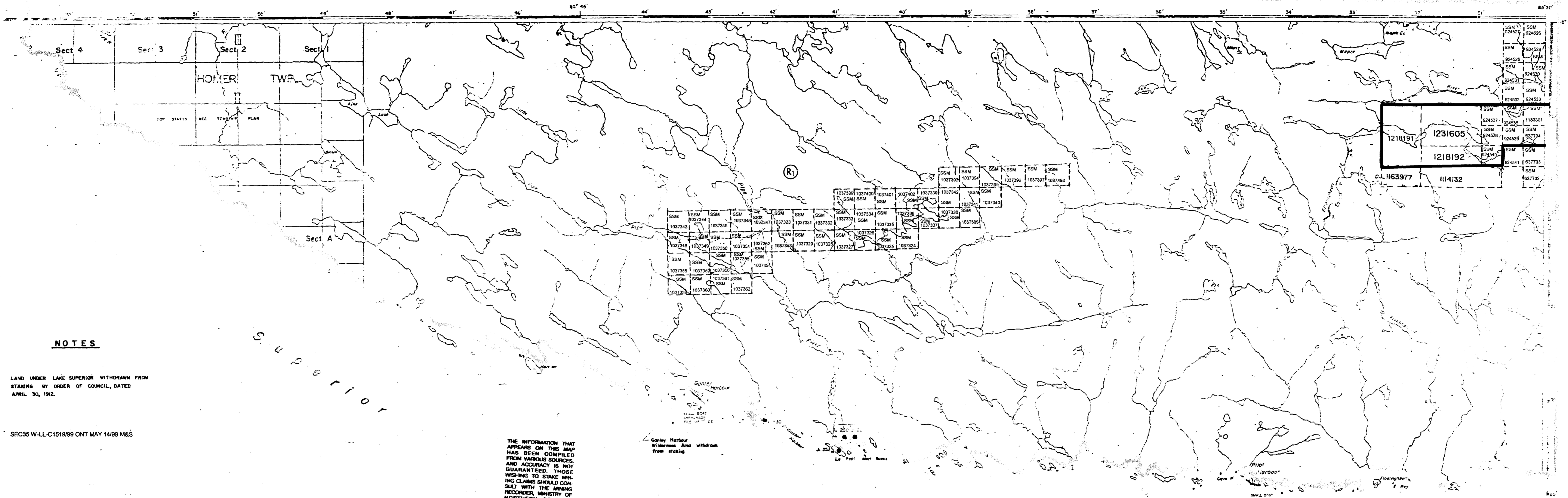


TRIM TO THIS LINE ALL AROUND

G-3778

POINT ISACOR

G-3778



LEGEND

- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
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DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	○
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	□
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	□
LICENCE OF OCCUPATION	○
ORDER-IN-COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS
 NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 360, SEC. 43, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAIN

RECEIVED

JUN 27 2000

GEOSCIENCE ASSESSMENT OFFICE

AREA

PILOT HARBOUR

H.N.R. ADMINISTRATIVE DISTRICT

WAWA

MINING DIVISION

SAULT STE. MARIE

LAND TITLES / REGISTRY DIVISION

THUNDER BAY

Ministry of Natural Resources and Mines
 Ontario

DATE: JULY 1986

NUMBER: G-270C

NOTES

LAND UNDER LAKE SUPERIOR WITHDRAWN FROM STAKING BY ORDER OF COUNCIL, DATED APRIL 30, 1912.

SEC35 W-LL-C1519/99 ONT MAY 14/99 M&S

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED.

JAN 15 2000

THOSE WHOSE TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDS DIVISION, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

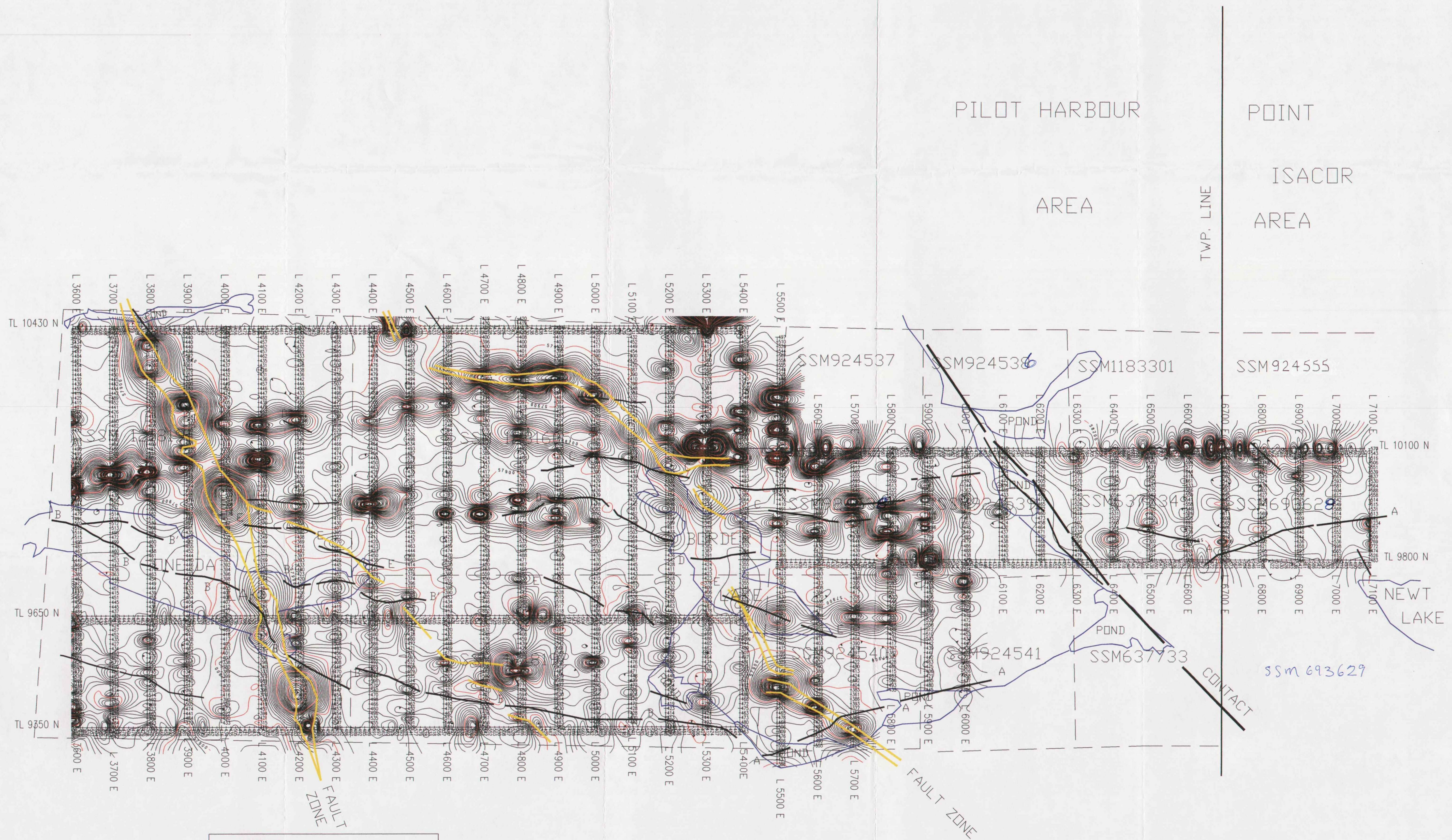
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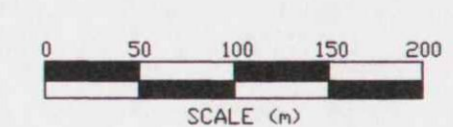
RECEIVED

JAN 15 2000

The 1975 Magnetic Bearing Approx. Annual Change Decreasing



LEGEND
 Instrument: SCINTREX ENVI MAG, BRGM OMNI-IV
 Parameters Measured: Earth's total magnetic field
 Accuracy: +/- 0.1 nano-teslas
 Diurnals: Corrected by base station recorder
 Contour Interval: 0,30,60,90,.....
 Reference Field: 58,000 gammas
 Datum Subtracted: 57,500 gammas



2.20380



EXSICS EXPLORATION LTD.
 P.O. Box 1880, P4N-7X1
 Suite 13, Hollinger Bldg, Timmins Ont.
 Telephone: 705-267-4151, 267-2424

CLIENT: RIVER GOLD MINES LTD.
 PROPERTY: BORDER LAKE PROPERTY
 TITLE: PILOT HARBOUR AREA
MAGNETOMETER SURVEY

Date: March, 2000 Scale: 1:5000 NTS:
 Drawn: J.C. GRANT Interp: J.C. Grant Job No.: E-366

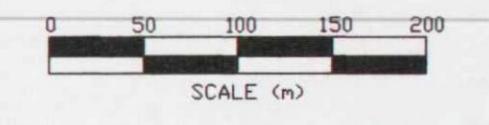
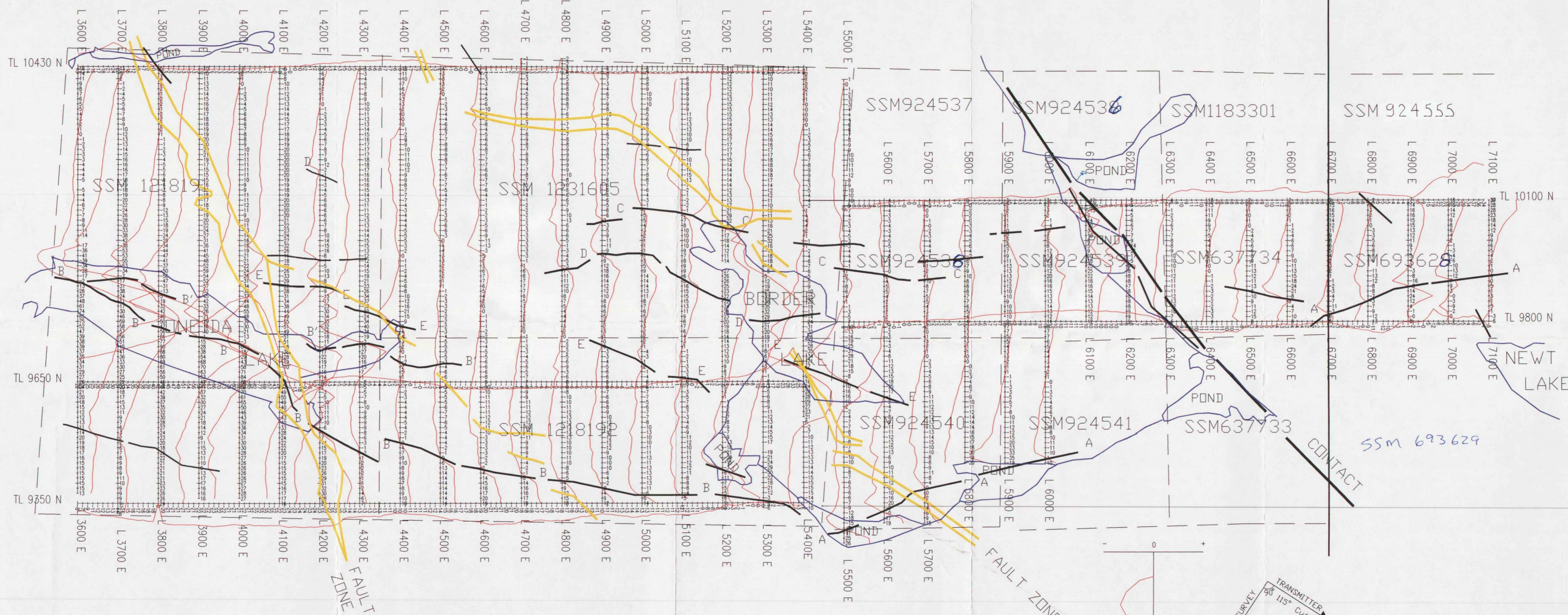




PILOT HARBOUR
AREA

POINT
ISACOR
AREA

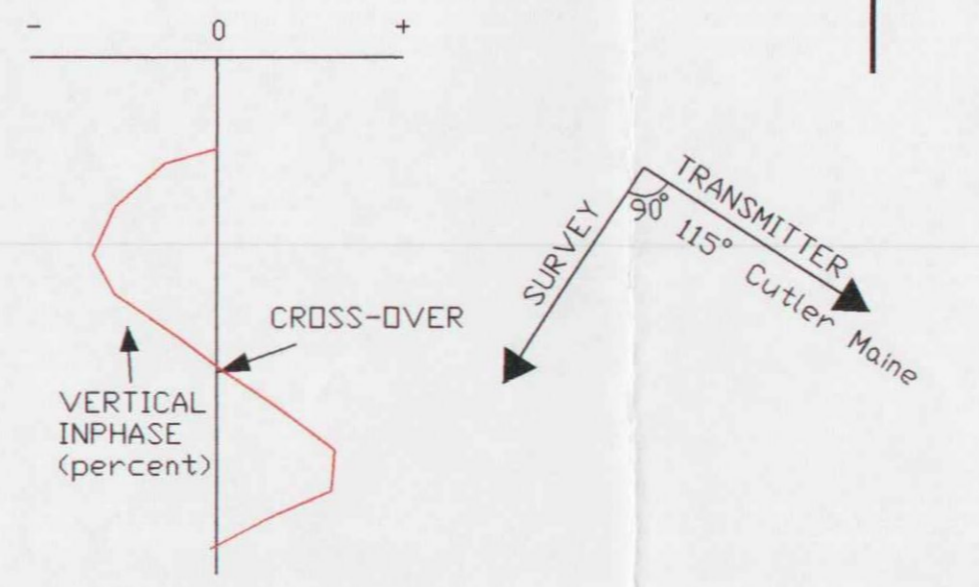
TWP. LINE




2.20380

LEGEND

Instrument: SCINTREX ENVI MAG
 Transmitter Station: NAA CUTLER MAINE
 Frequency: 24.0 KHz
 Parameters Measured: INPHASE DIP ANGLE
 Vertical Scale: 1cm=20%
 Operator: J. DerWeduwen/E.JAAKDLA



 EXSICS EXPLORATION LTD. P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151, 267-2424		
CLIENT: RIVER GOLD MINES LTD.		
PROPERTY: BORDER LAKE PROPERTY		
TITLE: PILOT HARBOUR AREA VLF-EM SURVEY		
Date: March 2000	Scale: 1:5000	NTS:
Drawn: J.C. GRANT	Interp: J.C. Grant	Job No.: E-366