

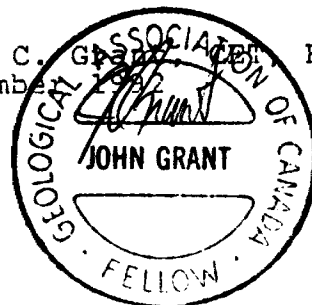


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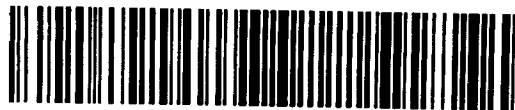
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GEOPHYSICAL REPORT  
FOR  
R. COLLINS EXPLORATION  
ON THE  
DELWOOD PROPERTY, DELORO TOWNSHIP  
PORCUPINE MINING DIVISION  
TIMMINS, ONTARIO

Prepared by: John C. Grant, FGAC.  
November 1977



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## INTRODUCTION

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## INTRODUCTION

The Delwood Property consists of three staked blocks which are located in the Northeast section of Deloro Township, Porcupine Mining Division, District of Cochrane, Ontario Canada. Refer to figures 1 and 2.

R. Collins retained the services of Exsics Exploration Limited to perform a geophysical program over the entire property. The intent of this program was to locate and outline structures which would be favourable for base metal and or gold description.

The property has a history of exploration work carried out from 1936 to 1981 by a number of Companies. Delwood Porcupine Mines was the first to work the property. They were successful in locating three auriferous lenses of iron formation. They proceeded to trench and sink shafts on these zones to determine their mineral content. Drilling was carried out on the best iron formation which is located in the central section of the current property. Several interesting sections noted gold values ranging from \$12.00 to \$18.00 across 5 feet, based on 1936 gold prices. Also, a carbonate alteration zone was discovered by Delwood traversing the original claim P-7051, current claim 1182861, which was considered large enough to host potential ore grade material.

Since Delwood days, the property has had limited geophysics, prospecting and sampling done, all of which located the above zones as well as similar structures. However, the property has never been worked to its full potential.

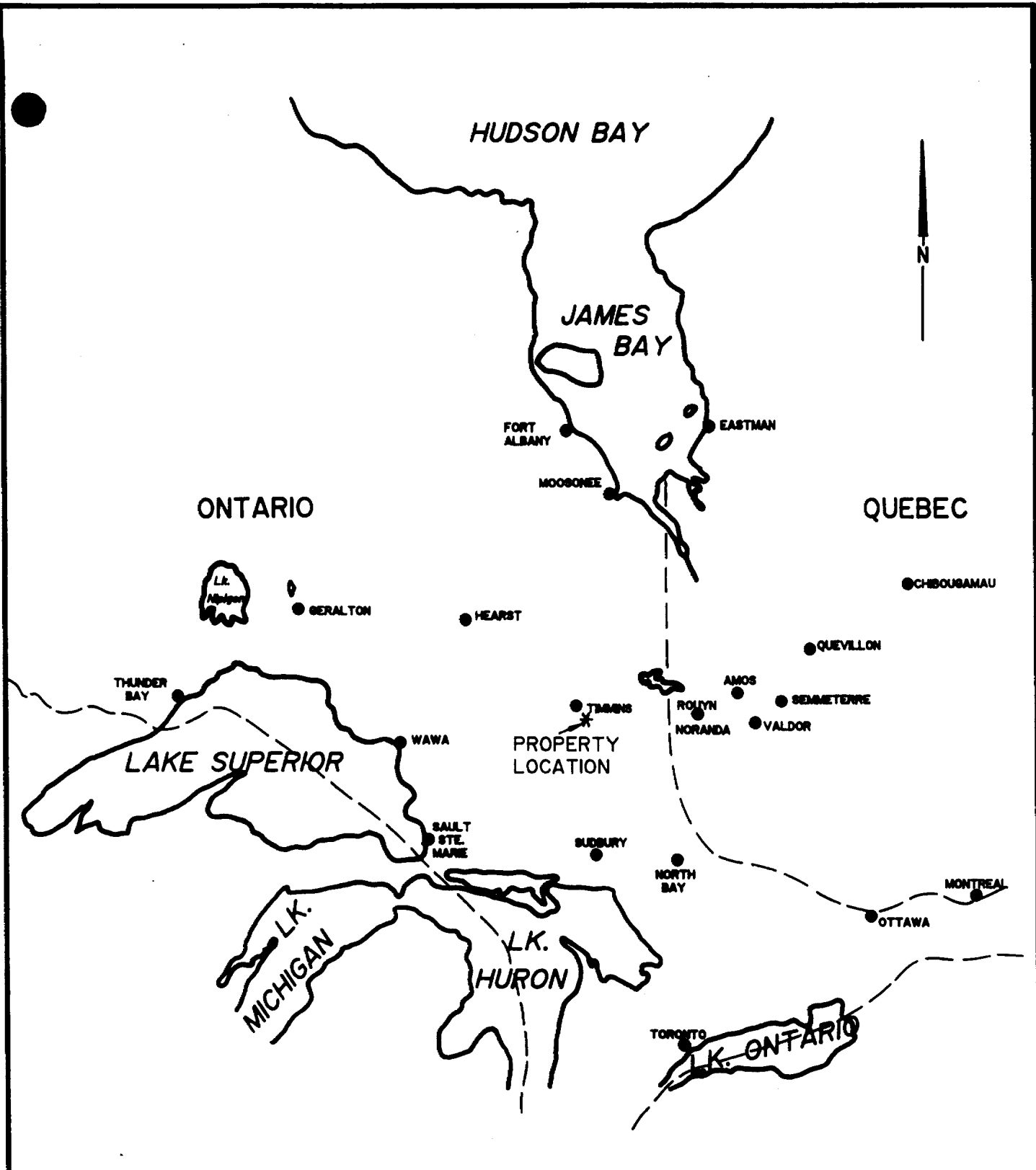
It was the intent of R. Collins Exploration to cover the property with a detailed geophysical program which would then be followed up by a major stripping, washing and sampling program. This would be the first time the property would be looked at thoroughly.


## PROPERTY DESCRIPTION AND LOCATION

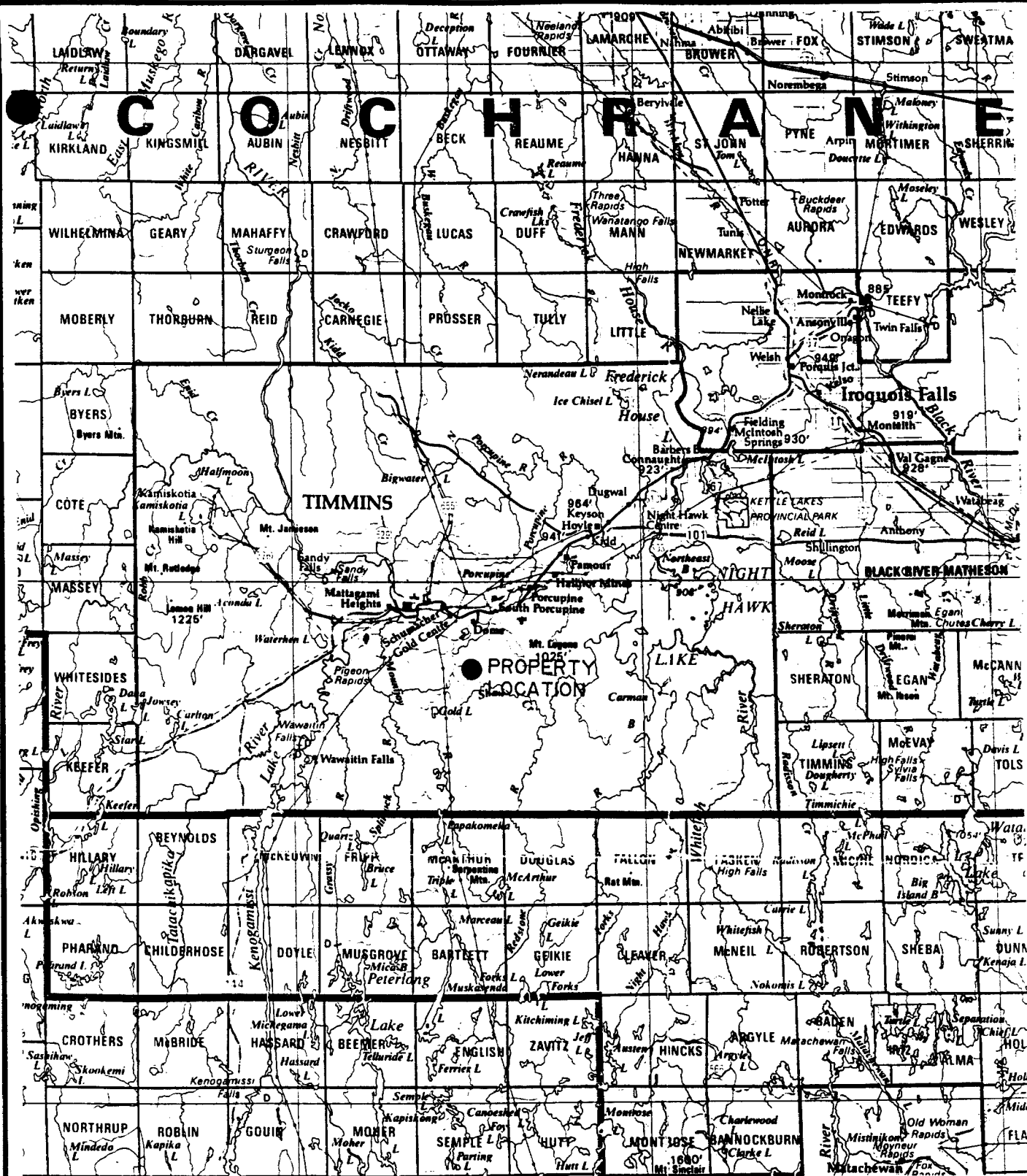
The Delwood property is comprised of 8 units which encompass approximately 320 acres of ground. The entire group is located in the northeast section of Delwood Township in the District of Cochrane, Porcupine Mining Division, Timmins, Ontario. Refer to figure 1 and 2.

## ACCESS

Access to the property is by means of the Timmins, "Backroad" to the Buffalo-Ankerite headframe and townsite, then along a good gravel road, south for a distance of 3.5 kilometers. Claim units 1182859 and 1182861 lie along the ingress road to the old Faymar Minesite, approximately 400 meters to the east. Travelling time from Timmins to the property is approximately 25 minutes. Refer to figures 2 and 3.



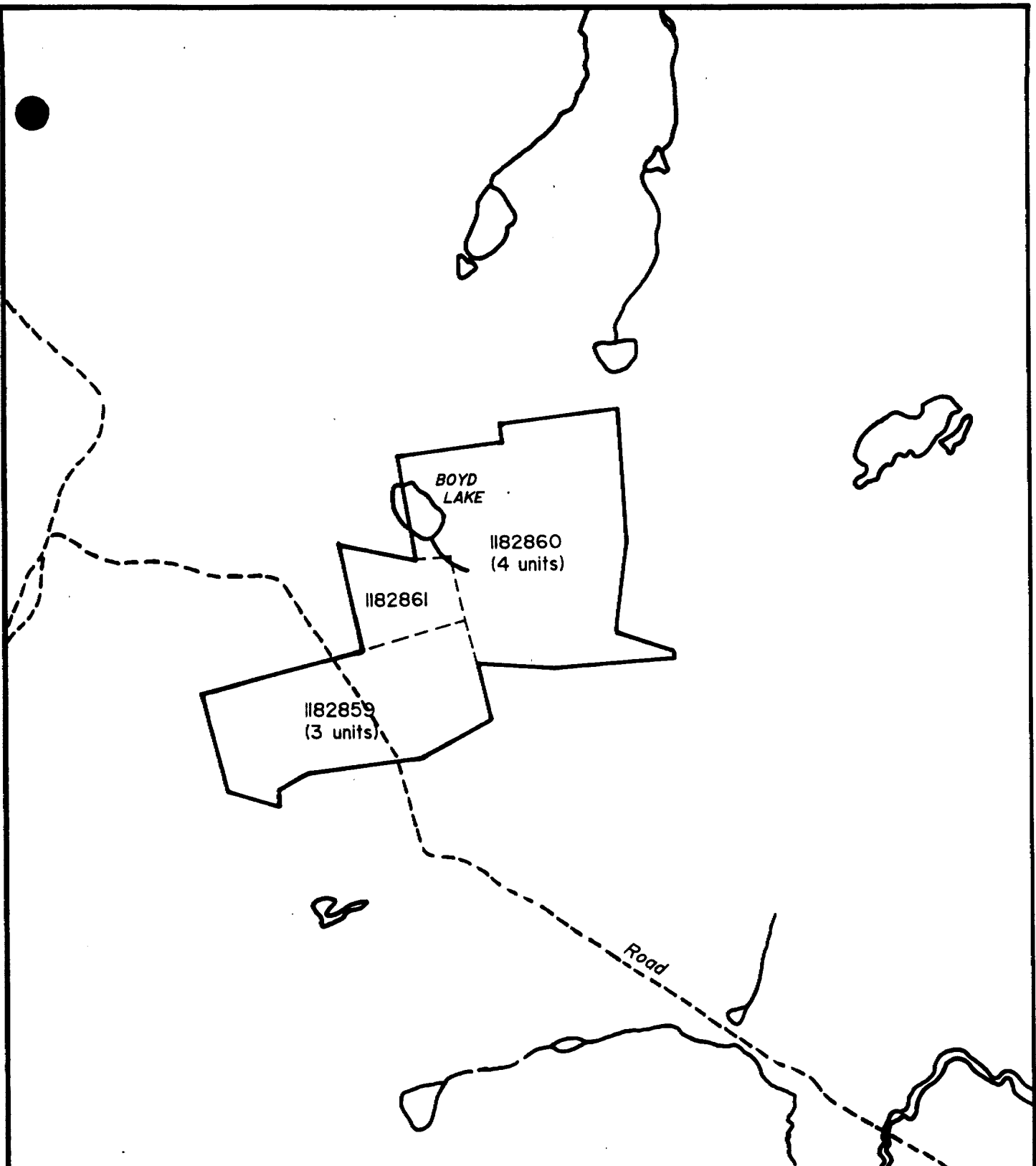
		
<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4151		
CLIENT: R. COLLINS EXPLORATION		
PROPERTY: DELORO TOWNSHIP		
TITLE: LOCATION MAP		
Fig. 1		
Date: Oct. 1992	Scale: 1"=25miles	NTS:
Drawn: P.G.	Interp: J.C. Grant	Job No. EE-587



**EXSICS EXPLORATION LTD.**  
 P.O. Box 1000, P4N-7X1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-6511

CLIENT:	R. COLLINS EXPLORATION	
PROPERTY:	DELORO TOWNSHIP	
TITLE:	PROPERTY LOCATION	
Date:	Oct. 1992	Scale: 1:600,000
Drawn:	Interp: J.C. Grant	NTS: Job No. EE-587

Fig. 2



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 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-451

**CLIENT: R. COLLINS EXPLORATION**

**PROPERTY: DELORO TOWNSHIP**

**TITLE: CLAIM SKETCH**

Fig. 3

<b>Date:</b> Oct. 1992	<b>Scale:</b> 1:20,000	<b>NTS:</b>
<b>Drawn:</b> P.G.	<b>Interp:</b> J.C. Grant	<b>Job No.</b> EE-587



## OWNERSHIP

The property is presently owned 100% by R. Collins Exploration of Timmins, Ontario.

## CLAIM GROUP

The three units which make up the present property are as follows:

P-1182859	3 units
P-1182860	4 units
P-1182861	1 units

Total	8 units
-------	---------

Refer to figure 3, copied from Ministry of Northern Development and Mines Plan Map G-3993 Deloro Township; scale 1:20,000.

## PERSONNEL

The people directly involved with the collection of all field data were all employed by Exsics Exploration Limited. All of the work was carried out under the direct supervision of J. C. Grant. All maps, plotting and computer manipulation was done by P. Gauthier.

## GEOPHYSICAL PROGRAM

This program consisted of a total Field magnetic survey done in conjunction with a very low frequency (VLF) electromagnetic survey. These two surveys were completed over the entire property generally as a reconnaissance type survey.

The property was then covered by a horizontal loop electromagnetic (HLEM) survey. This was done to follow up any and all anomalies which were noted by the VLF and magnetic surveys.

This HLEM survey is a good and effective follow up program to the VLF and Magnetics as it would verify any legitimate bedrock anomalies noted by the VLF.

This HLEM survey is a good and effective follow up program to the VLF and Magnetics as it would verify any legitimate bedrock anomalies noted by the VLF.

VLF surveys, on their own, are very susceptible to all types of geological noise such as buried creeks, streams, clay troughs and ridges, geological contacts, swamp to outcrop contacts as well as legitimate electrically charged units, ie, sulphides. Therefore, any HLEM conductors which correlate to VLF conductors would suggest the response is sulphide oriented.

## SURVEY PARAMETERS

## Total Field Magnetic Survey

This survey was completed using the EDA OMNI Plus and OMNI IV system. Specifications for this system can be found as Appendix A of this report.

The following parameters were kept constant throughout the survey.

Field Unit	-EDA OMNI PLUS
Base Station Unit	-EDA OMNI IV
Base Station Recording Interval	-30 second
Reference Field	-58,500 gammas
Datum Substract	-57,500 gammas
Line Interval	-200 foot
Station Interval	-100 foot
Contour Interval	-50 gammas

The magnetic data was plotted onto a base map to a scale of 1" = 200' and is included in the back pocket of this report.

## VLF EM Survey

This surey was also completed using the EDA OMNI Plus system: Refer to Appendix A

Field Unit	-EDA OMNI PLUS
Transmitting Station	-Cutler, Maine
Az to TX Station	-115 degrees
Transmitting Frequency	-24.0 KHZ
Shoulder Alignment	-Az 25 degrees
Parameters Measured	-1) Inphase and Quadrature -2) Total field strength -3) Dip Angle -4) Fraser Filter of Dip

## Angle

Line Interval	-200 feet
Station interval	-100 feet
Profile scale	-Dip Angle 1 cm= +/- 20%
Contour interval	-field strength +5 units -Fraser Filter +5 units

The data was then plotted onto base maps, 1 map each for Fraser Filter, Total Field strength and Dip Angle, at a scale of 1:200'. All of these maps are included in the back pocket of this report.

## AUTHORS NOTE

Fraser Filtering is a low pass filtering of the Dip anlqe measurements which results in positioning a high positive value over shallow buried structure and a lower positive value over



deeper buried structure. It is a good interpretation method for determining strikes of the buried structures as well as enhancing weaker more subtle zones of continuity which may have been missed by the dip angle surveys.

#### HLEM SURVEY

This survey was completed using the Apex Max Min II system. Specifications for this system can be found as appendix B of this report.

The following Parameters were kept constant throughout the survey period.

Coil Separation	-500 feet
Theoretical Depth Penetration	-250-350 feet
Side Seeking Ability	-250 feet
Frequencies High	-1777 HZ
Low	-444HZ
Line Interval	-200 feet
Station Interval	-100 feet
Profile Scale	-1 cm = +/- 20%

The frequency range of 1777 and 444 HZ was used for the following reasons. The 1777 Hz frequency is a good tool for locating weak near surface zones of conductivity but is less effective in conductive overburden areas.

The 444 Hz frequency is a good tool for deep buried zones below the conductive overburden layering. These two frequencies have proven to be very successful in this area from past surveys. The sideseeking ability of the unit results in blanket coverage of the grid.

The collected data for this survey was then plotted onto a base map, one map for each frequency, and then profiled accordingly. Both of these base maps are included in the back pocket of this report.

#### SURVEY RESULTS

The different survey procedures were successful in locating and outlining a number of conductive structures across the property. As was expected, the VLF survey noted a wide variety of zones across the grid.

On viewing the Fraser Filtered data, magnetic data and especially the HLEM data, a number of the VLF zones can be eliminated. However, there are still a number of targets worthy of more intense interpretation and follow-up.

Each of these zones will be discussed separately and in detail below.

## CONDUCTIVE ZONES

## Zone A:

This feature was noted by the VLF and HLEM Surveys. It strikes approximately east-west across lines 2000W to 800W at 1400S to 1300S. The depth to source appears to be 45-55 meters with weak to moderate conductivity of 4-5 MHOS.

There does not appear to be any direct magnetic correlation except that the feature lies along the north flank of a broad magnetic unit.

A follow-up program of mapping and trenching should be contemplated on the zone as it appears to be a legitimate, albeit weak bedrock zone. It may, in fact, be too deep for the HLEM Survey.

## Zone B:

This feature is represented by a weak Maxmin, HLEM, response. It again strikes approximately 070 degrees across lines 800W/1450S to 0+00/1050S. The zone appears to be at a depth of 35-40 meters with weak conductivity of 3 MHOS.

There does not appear to be any definite magnetic correlation with the zone.

The feature in fact may relate to some sort of geological noise such as a clay filled trough or ridge. The priority of this zone would be based on the results of follow-up work in Zone A. At this writing the zone would be considered as a low priority target.

## Zone C:

This feature was noted by the VLF and HLEM Surveys. It appears to be deep at 50-60 meters but has good conductivity at 5-7 MHOS. The zone is situated on line 1000W at 1150S and may extend as far as 1600W/1200S. There is no magnetic correlation.

The feature should be included in the follow-up mapping and trenching of Zone A.

## Zone D:

This feature strikes at 120 degrees across lines 0+00/150N to 200E/50S. It may in fact strike as far as 600E. It also, most probably, strikes off of the grid to the west.

The zone is deep at 75-90 meters and has good strong conductivity at 15MHOS.

The zone cross cuts the northern tip of a good magnetic unit striking in from the southwest. In fact, on closer

inspection of the magnetics, the zone has a weak magnetic low associate suggesting it may be a type of alteration zone within the host environment.

This feature represents a good legitimate bedrock zone of unknown composition. The weak magnetic correlation suggests the presence of a minor alteration zone which should be mapped and trenched.

#### Zone E:

This feature is better defined by the VLF survey than the HLEM survey but the two correlate along the western tip. At best the zone is weak, however, filtered data may suggest it is deeper than the HLEM penetration capabilities.

The entire zone lies to the south of a magnetic unit and closely parallels the magnetic contours of the unit.

At this writing the zone would be considered as a low priority target.

#### Zone F:

This feature represents the best looking target on the grid. It was best recognized by the HLEM survey. It strikes east west across lines 1200E to 1800E at 1050N. The zone is deep at 75-85 meters with good conductivity of 10MHOS.

The feature has good strong magnetic correlation of 800 to 1000 gammas above the grid background.

The feature is a definite bedrock zone, most probably a sulphide rich iron formation.

A follow-up program of stripping, trenching and mapping is required to better define the zone. The interpreted depth of the zone may suggest the feature will have to be tested by diamond drilling.

On examining the magnetics of this feature, one would be drawn to the magnetic unit which strikes across lines 1800E and 2000E at 400N and 500N and the similar zone at line 2200E\250N and 2600E/550N. Both of these feature resemble the characteristics of Zone F as far as elevated background values and strike directions. Also, VLF zone H K and L appear to relate to sections of the magnetic unit.

Certainly, if Zone F returns good results from the follow-up program the VLF Zones H, K and L should be followed-up. Regardless of Zone F results, H, K and L should be mapped.

The filtered data for Zones F, H, K and L suggest that all of the structures are relatively shallow but with depth extent.

Zone G:

This feature strikes across lines 1400E/1050N to 2200E/1950E. Again this feature is somewhat weak and questionable.

The magnetic surveys shows good correlation with the western portion of the zone but that there may be a north-south cross structure following line 1800E. The magnetic unit appears to run into a north-south cross structure following lines 1400 and 1600E.

The filtered data suggest that sections of Zone G may be within range for stripping and trenching.

Zone J:

This feature was noted by the VLF survey and it closely parallels Zone F. The zone strikes east-west across lines 1800E/1150N to 2600E/1050N.

The magnetic survey correlates with the western section of the zone and has the same elevated background as F.

This feature should be followed-up in the program layed out for Zone F.

The remaining VLF targets would be considered as low priority at this writing. Certainly several of the zones relate to geological noise as they were only detected by the VLF survey.

However, should any encouraging results be returned from the suggested follow-up areas, then each zone will have to be re-examined, especially if it lies along strike with priority target areas.

The magnetic survey was successful in highlighting several of the more predominant structures.

Certainly the most interesting target is the magnetic units which correlate to Zone F, J, K, H, and L. Both of these magnetic units are similar in elevated background levels as well as strike directions and widths. If we use Zone F magnetics as a marker horizon then several other magnetic units become interesting.

These would be the magnetic units striking across 400W and 200W at 1600S and 200E and 800E at 1550 to 1600S.

Another magnetic unit of interest would be the structure striking across lines 1400W to 200W at 700S to 100S. This feature has pretty much the same signature as the magnetics of Zone F. In fact, if one examined the property as a whole, magnetically then it might be suggested that one major magnetic

unit may lie between lines 1800W/400S to 3000E/1900N and that along this unit are heavier concentrations of sulphide rich materials.

It may also suggest that the feature is relatively shallow on its eastern and western ends and deeper in the middle section; that portion between, lines 0+00 and 800E. Also, a possible alteration zone may lie across lines 0+00 and 200E along the baseline which may have interrupted the overall unit.

#### CONCLUSIONS AND RECOMMENDATIONS

Certainly, the geophysical program was successful in outlining the known zones of interest which had been detected by the past programs. The detail work of this present program has outlined several new target areas as well as extending existing target areas.

This may be particularly true if one considers the scenario of one magnetic unit, which contains Zone F, J and several weak VLF targets to the southwest, all being one structural unit with areas of heavier sulphide concentrations.

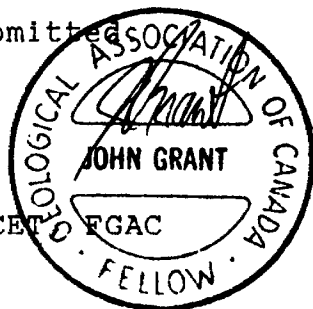
Also, Zone A, C and D may be too deep for surface trenching and will have to be followed up by drilling.

The results of the present geophysical program has enhanced an area which has a history of moderate to good gold values. The program has outlined and traced several areas which should be followed up by a detailed stripping, trenching and mapping program. The detailed mapping program should help in eliminating a number of the questionable VLF responses.

Also, should trenching prove unsuccessful on Zones A, B, C and D then diamond drilling should be considered. The drilling should be followed up by a borehole survey to check each target for continuity.

Respectfully Submitted

John C. Grant, C.E.T.



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 seventeen (17) years, including all aspects of exploration studies, surveys and interpretations.

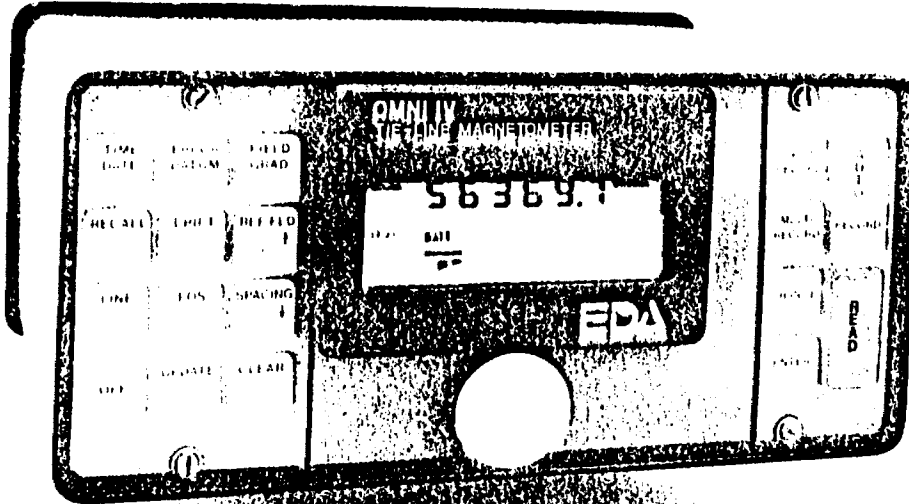
5) I have no specific or special interest in the described property. I have been retained as a Consulting Geophysicist. for property appraisal.



John Charles Grant, C.E.T.

APPENDIX A

# OMNI IV "Tie-Line" Magnetometer



## OMNI IV's Major Benefits

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





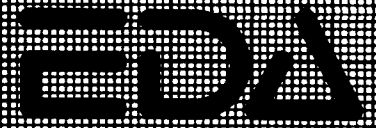
## Specifications

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



## Specifications\*

- Frequency Tuning Range . . . . . 15 to 30 kHz, with bandwidth of 150 Hz; tuning range accommodates new Puerto Rico station at 28.5 kHz
- Transmitting Stations Measured . . . . . Up to 3 stations can be automatically measured at any given grid location within frequency tuning range
- Recorded VLF Magnetic Parameters . . . . . Total field strength, total dip, vertical quadrature (or alternately, horizontal amplitude)
- Standard Memory Capacity . . . . . 800 combined VLF magnetic and VLF electric measurements as well as gradiometer and magnetometer readings
- Display . . . . . Custom designed, ruggedized liquid crystal display with built-in heater and an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal strength status monitor and function descriptors.
- RS232C Serial I/O Interface . . . . . 2400 baud rate, 8 data bits, 2 stop bits, no parity
- Test Mode . . . . . A. Diagnostic Testing (data and programmable memory)  
B. Self Test (hardware)
- Sensor Head . . . . . Contains 3 orthogonally mounted coils with automatic tilt compensation
- Operating Environmental Range . . . . . -40°C to +55°C;  
0 - 100% relative humidity;  
Weatherproof
- Power Supply . . . . . Non-magnetic rechargeable sealed lead-acid 18V DC battery cartridge or belt; 18V DC disposable battery belt; 12V DC external power source for base station operation only.
- Weights and Dimensions
  - Instrument Console . . . . . 2.8 kg, 128 x 150 x 250 mm
  - Sensor Head . . . . . 2.1 kg, 130 dia. x 130 mm
  - VLF Electronics Module . . . . . 1.1 kg, 40 x 150 x 250 mm
  - Lead Acid Battery Cartridge . . . . . 1.8 kg, 235 x 105 x 90 mm
  - Lead Acid Battery Belt . . . . . 1.8 kg, 540 x 100 x 40 mm
  - Disposable Battery Belt . . . . . 1.2 kg, 540 x 100 x 40 mm

Preliminary

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

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

Printed in Canada

# OMNI PLUS VLF Magnetometer System



## Major Benefits of the OMNI PLUS

- Combined VLF/Magnetometer/Gradiometer System
- No Orientation Required
- Three VLF Magnetic Parameters Recorded
- Automatic Calculation of Fraser Filter
- Calculation of Ellipticity
- Automatic Correction of Primary Field Variations
- Measurement of VLF Electric Field

W9360.00181



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**SUMMARY REPORT  
OF THE  
STRIPPING/WASHING/MAPPING PROGRAM**

**DELWOOD PROPERTY**

**DELORO TOWNSHIP**

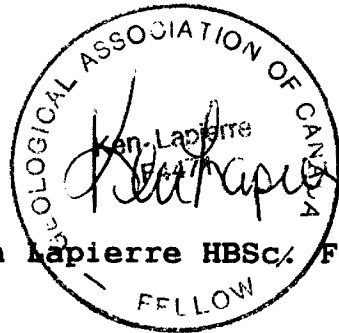
**TIMMINS, ONTARIO**

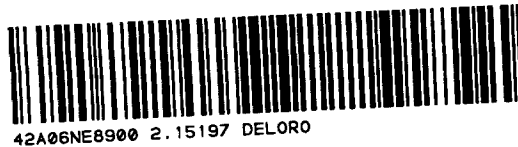
**OMIP92-070**

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November 24, 1992

Ken Lapierre HBSc. FGAC.





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Appendix I: Assay sheets

At the request of Mr. R. Collins this report was prepared for the purpose of:

- 1) Satisfying all OMIP regulations and requirements
- 2) Highlighting the geological and historical setting of the claim group.
- 3) Determining if the stripped areas are anomalous and worthy of further study.
- 4) Determining if the property should be retained for further study.

Sources of information contained in this report were obtained from Ministry of Northern Development and Mines assessment files, consultants reports and supervision, mapping and sampling of the areas exposed in this study.

**PROPERTY: LOCATION AND DESCRIPTION**

The property is comprised of 3 unpatented mining units located in the northeast quadrant of Deloro Township, Porcupine Mining Division, District of Cochrane, Ontario, Canada (figure 1).

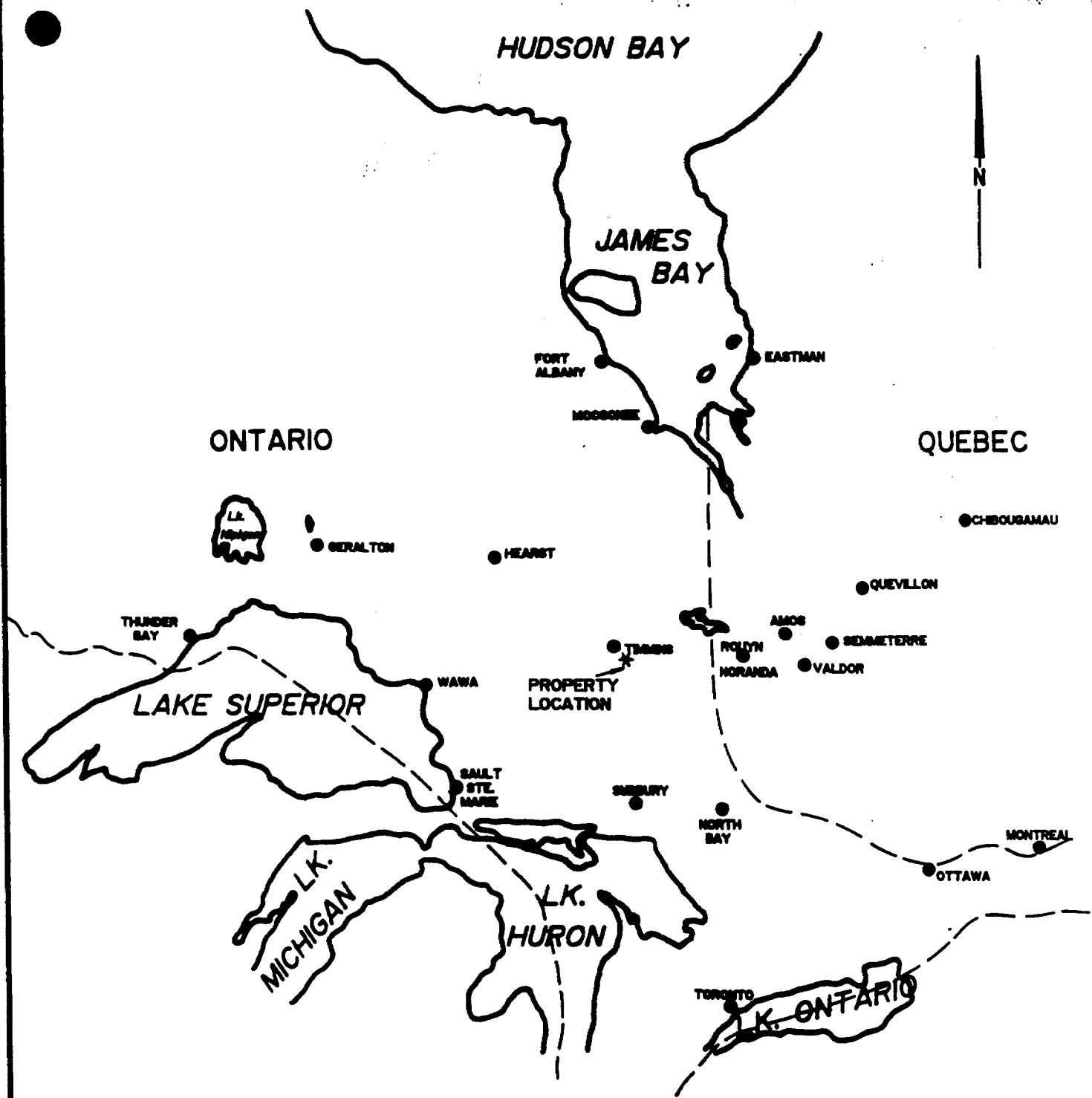
The claim numbers of the claim group are outlined below (figure 2).

<u>Claim Number</u>	<u># of units</u>	<u>Acres(approx.)</u>
P.1182859	3	120
P.1182860	4	160
P.1182861	1	40

**ACCESSIBILITY, CLIMATE, LOCAL RESOURCES**

Access to the property is by means of the Timmins backroad from either Timmins or South Porcupine to the Buffalo Ankerite Mine turnoff then south on the old "Mackay Lake gravel road for approximately 2-3/4 miles to the Faymar Mine road. At this point the road travels southeast for approximately 3/4 of a mile where it passes through claim P.1182859 (figure 3).

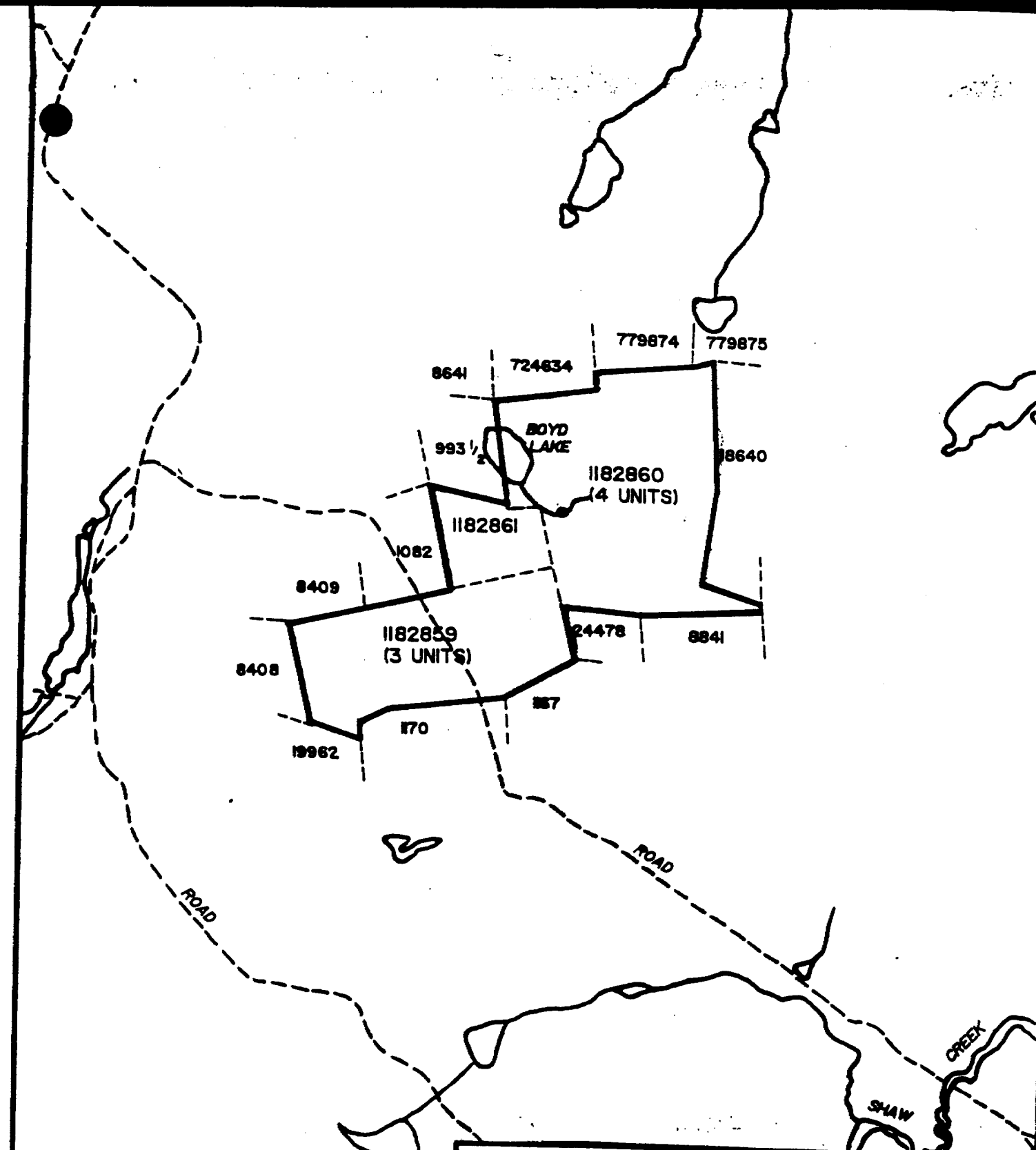
Climatic conditions are typical for this part of Northern Ontario. Temperatures range from -45 degrees celsius to +35 degrees celsius.



CLIENT: R. COLLINS EXPLORATION		
PROPERTY: DELWOOD PROSPECT		
TITLE: DELORO TWP. LOCATION MAP		
Date:	Scale: 1"=125miles	NTS:
Drawn: P.G.	Interp:	Job No:

Fig. 1





CLIENT: R. COLLINS EXPLORATION		
PROPERTY: DELWOOD PROSPECT		
TITLE: DELORO TWP. CLAIM SKETCH		
Date: Jan. 1992	Scale: 1:20,000	NTS:
Drawn: P.G.	Interp: J. Grant	Job No.

Fig. 2

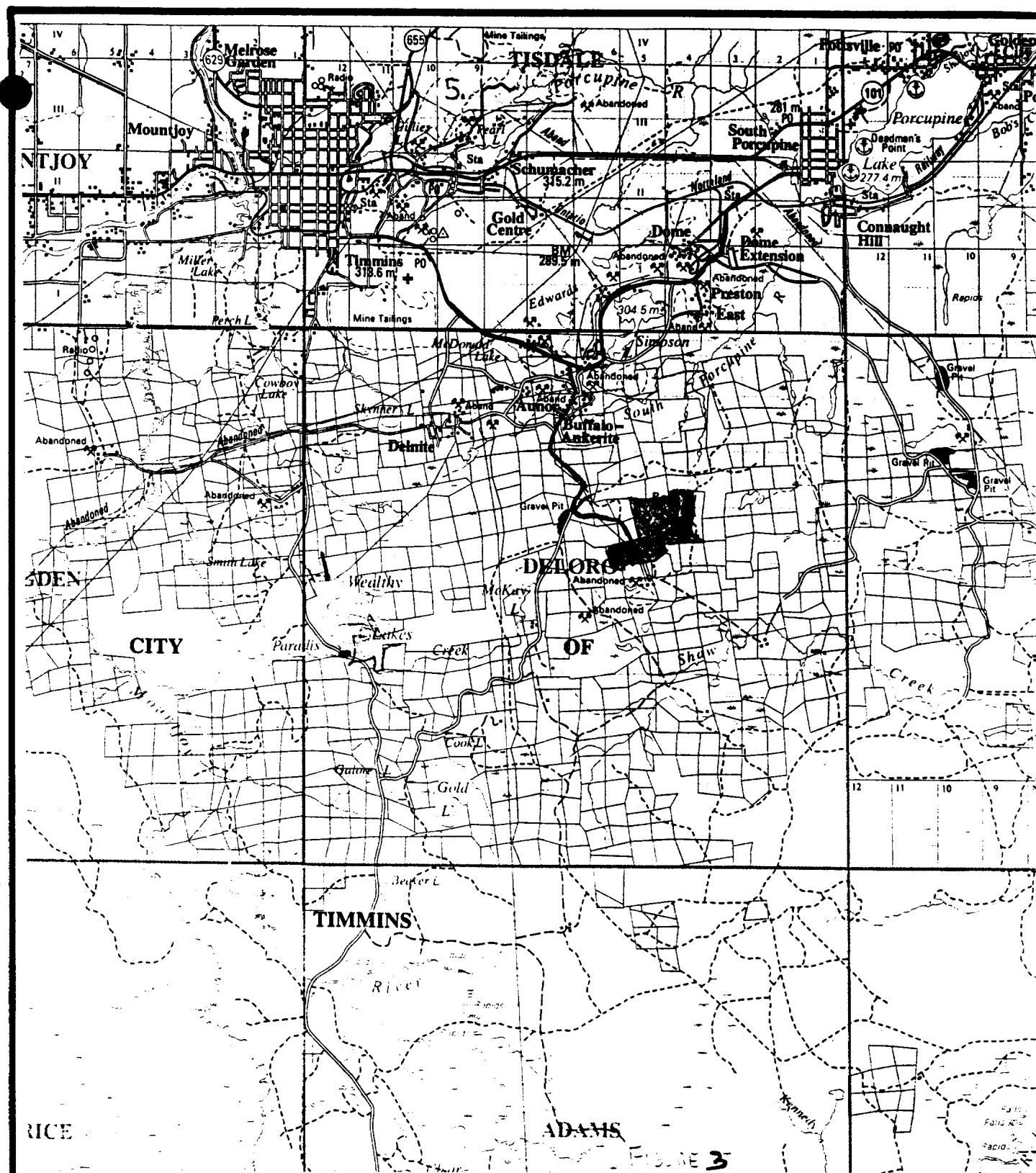


FIGURE 3

<b>LAPIERRE EXPLORATION SERVICES INC.</b> P.O. Box 1021, P4N 7H6 Suite 17, Hollinger Bldg. Timmins, Ontario Telephone: 705 267-7389	
<b>CLIENT: R. COLLINS EXPLORATION</b>	
<b>PROPERTY: DELWOOD PROPERTY</b>	
<b>TITLE: PROPERTY LOCATION</b>	
<b>DATE: NOV. 1992</b>	<b>SCALE: 1:100,000</b>
<b>DRAWN: P.G.</b>	<b>INTERP.: K. Lapierre</b>

Availability of electrical power is located at Buffalo Ankerite. Water resources are located within the property. Mining supplies and manpower are located within Timmins and South Porcupine.

**PREVIOUS WORK**

The earliest recorded information on the present property was in 1936 by Delwood Porcupine Gold Mines Limited. In that year, the company's prospectus stated that a 20 foot deep pit, that was sunk on a well mineralized quartz breccia, yielded values up to \$30/ton. Several other other "promising looking" veins were also observed on the property. Furthermore, a large mineralized float was observed to contain "a plentiful scattering of visible gold" and was concluded to be close to its source of origin. The company was successful in raising the necessary funds to explore the property by means of prospecting, trenching, blasting, shaft sinking, diamond drilling and sampling (assessment file number T-2530). Eighteen of the twenty drill holes completed on the property tested an east-west trending, 400 foot long, 2 to 6 foot wide, lenticular body of iron formation located southeast of Boyd Lake (east of #1 claim post of the present claim P.1182861)(figure 4). Results from this drill program yielded values up to \$18/ton across 5 feet. Supplementary drilling on the iron formation failed to yield anomalous values. Other zones of interest yielded low anomalous results.

On September 12, 1938, a letter from Mr. M.E. Scott, M.D. to Mr. W.A. Walton; secretary of Sylvanite Gold Mines Ltd., reported that their engineer would show Sylvanite's

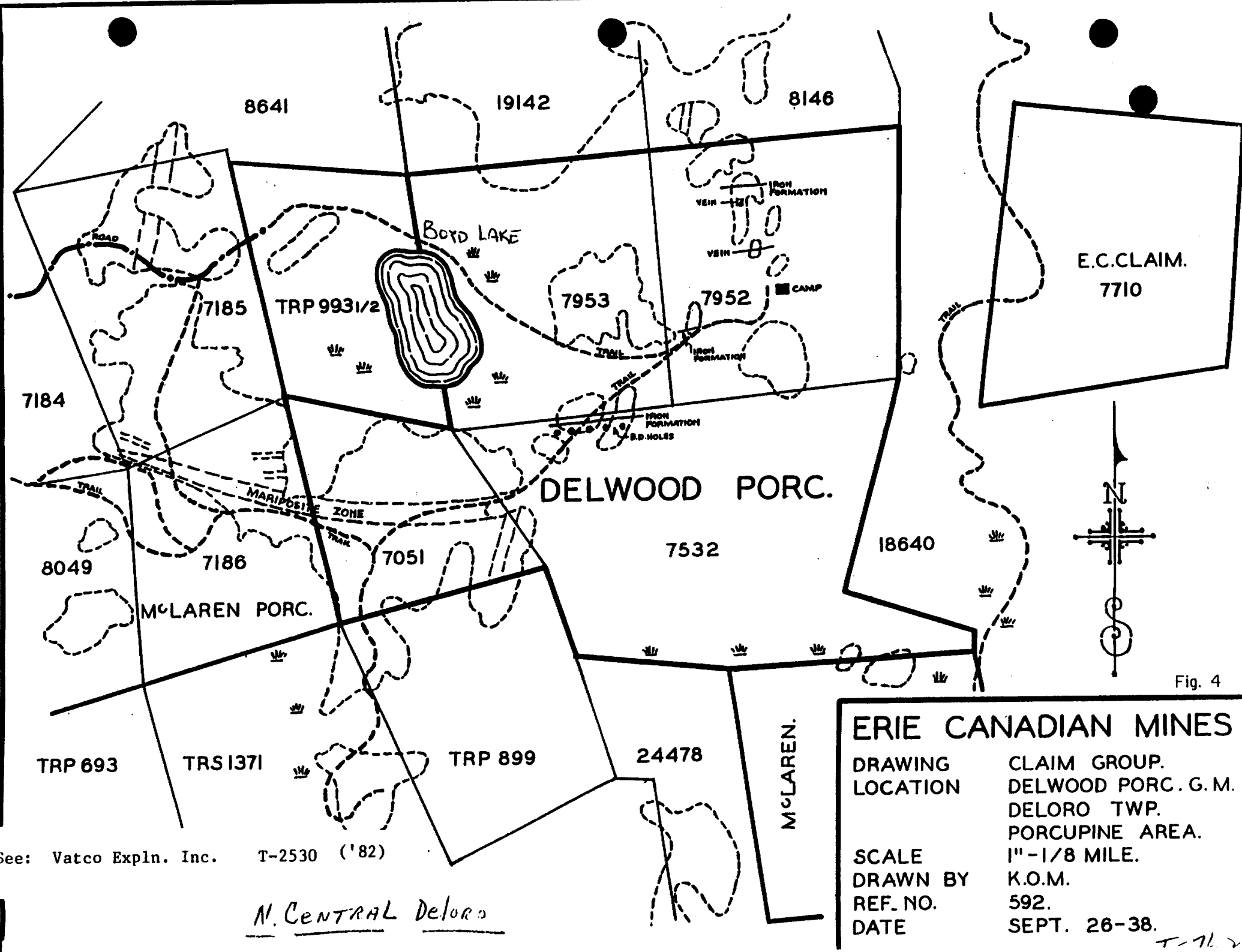


Fig. 4

**ERIE CANADIAN MINES**  
 DRAWING LOCATION CLAIM GROUP.  
 SCALE DRAWN BY DELWOOD PORC. G.M.  
 REF. NO. 592. K.O.M.  
 DATE SEPT. 26-38.

See: Vatco Expln. Inc. T-2530 ('82)

N. CENTRAL Deloro

T-712

geologist "the exact spot where the free gold is showing, \$146.00 per ton and \$46.00, no free gold showing" (assessment file T-762). These samples were reported to be chipped off near the bunkhouse by Mr. H B. Hatch (letter to Mr. Hatch from Mr. Scott on September 12, 1938). No other correspondence with regards to this matter was ever recorded.

On September 24, 1938, Mr. G. L. Holbrooke; superintendent for Erie Canadian Mines Ltd., reported to his supervisor; Mr. M.V. Moot, that the only promise for the property was a "mariposite zone striking east-west across the southwest claim of the group and showing a length of over 1,000 feet and a width between 40 to 100 feet. He concluded that "the possibilities could be investigated by about 2,000 feet of diamond drilling". No systematic stripping/washing or drill program was ever recorded on this zone.

The next recorded work recorded on the property was by Vatco Exploration Incorporated (T-2535) and Legion Resources Ltd. (T-2647). Programs of prospecting, linecutting, blasting, geology, geophysics and geochemistry were completed between 1981 and 1984. Several geophysical anomalies were detected and prospecting and sampling Delwoods old trenches yielded values up to 0.09 ounces/ton. Further work was strongly recommended but never completed.

In the fall of 1991, Mr. R. Collins decided to undertake a staking program for property acquisition. The

purpose of this acquisition was to further evaluate the property's mine making potential as outlined by previous exploration studies completed by previous companies. Mr. Collins' success in obtaining OMIP approval enabled him to proceed with his exploration study and offset half of his exploration cost. The present OMIP program included linecutting, prospecting, geophysical, geological and stripping/washing/mapping/sampling surveys over the entire property. The program commenced on September 20, 1992 and was completed on November 24, 1992.

**OMIP PROGRAM****A) Regional Geology**

The Geology of the Timmins area consists predominantly of Precambrian metavolcanics and metasediments. The precambrian rocks were later covered partially by unconsolidated Cenozoic deposits (figure 5). The precambrian rocks represent a 40,000 foot thick sequence of lower to middle greenschist facies volcanics and sediments that are divided into three groups. From oldest to youngest the three groups are known as the Deloro, Tisdale and Porcupine Groups. The Deloro Group is a 16,000 foot thick sequence composed of basal ultramafics, andesites and basalt flows followed by dacite flows, calc-alkaline rhyolites and dacite pyroclastic rocks and oxide to sulphide facies iron formations. The Tisdale Group is a 14,000 foot thick sequence composed of basal ultramafic volcanics and komatiites followed by tholeiitic basalts and calc-alkaline pyroclastic rocks. The Porcupine Group is a 10,000 foot thick sequence composed of interlayered wacke, silstone and conglomerate.

The rocks of the Timmins area were then intruded by sill-like bodies and dykes composed of felsic to mafic components.

Stratigraphic displacement of rock types range from tens of feet to thousands of feet. The most prominent and



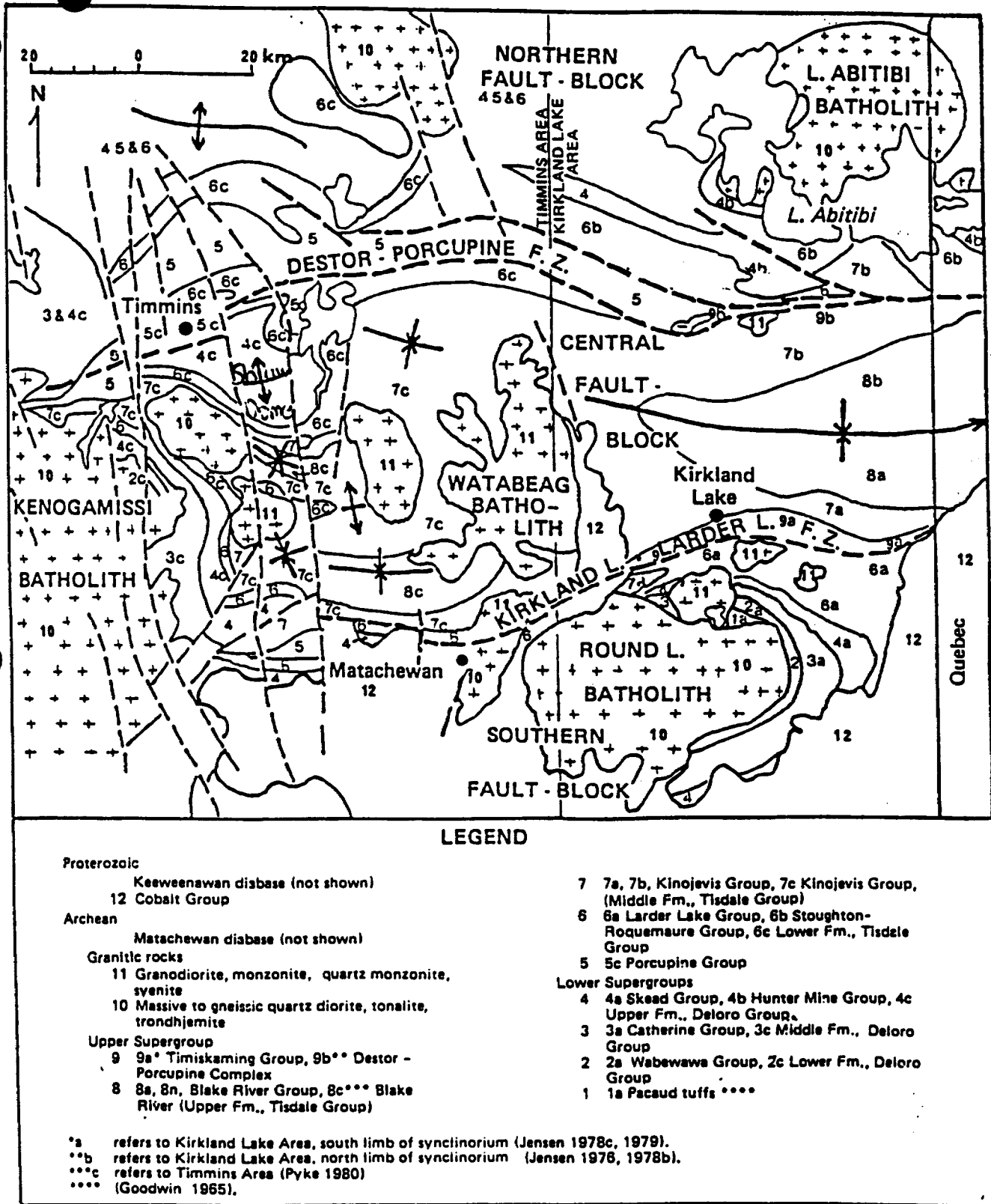


Figure 5: Geological map of the Timmins - Kirkland Lake area.

prolific fault in the area is known as the Destor-Porcupine Fault. This major structural break trends generally northeast, dips steeply north and has a width in excess of 400 feet. Other younger fault systems traversing the area are known as the Montreal River Fault and the Burrows Benedict Fault Systems.

Structurally, the area lies within the Superior Province of the Canadian Shield. North of the Destor-Porcupine Fault, 2 major series of deformational-metamorphic events altered the rocks in the region; initial north trending series of folds were subsequently refolded about an east-northeast trending series of folds (figure 6). South of the Destor-Porcupine Fault, an east-west trending series of folds produced a major structural domain known as the Shaw Dome.

#### **B) Local Geology (Pocket 1-Property Geology Map)**

The geological survey completed on the property confirmed that the property is underlain by a major sequence of volcanics of the Upper Deloro Group. This sequence consists of a series a intermediate to ultramafic volcanics, quartz breccia, iron formation and carbonatized, fuchsitic volcanics. All rock units generally trend east-west and dip vertical or northward. Alteration products included talc, chlorite, carbonate, sericite and fuchsite in varying degrees. Local mineralization consisted of pyrite, magnetite,

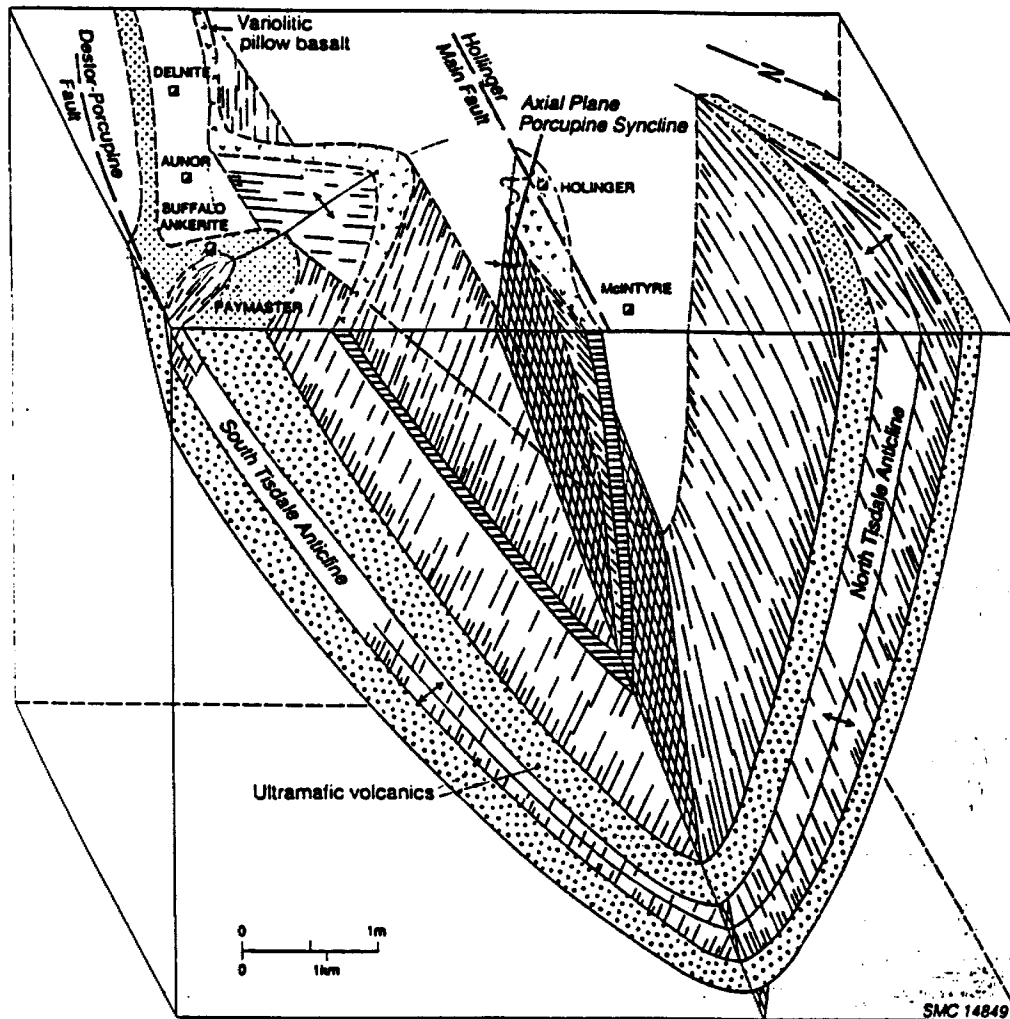


Figure 6 -Diagrammatic sketch showing interpretation of main part of the Timmins gold camp; illustrates the refolding of an anticlinal structure (now represented by the South and North Tisdale Anticlines) about the easterly trending Porcupine Syncline. For line of cross-section see Figure 15.

After D.R.Pyke, O.G.S. report # 219-Timmins Area

hematite, chalcopyrite and sphalerite.

The volcanic material of the claim group were then intruded by dykes of ultramafic composition. No major displacement was detected in the mapping program.

### **C) Geophysics**

Three detailed geophysical surveys carried out on the claim block consisted of a total field magnetic survey, a VLF electromagnetic survey and an horizontal loop electromagnetic survey. Please refer to Mr. John C. Grant's geophysical report dated November 1992.

Mr. Grant concluded the geophysical program was successful in outlining the known zones of interest as well as detecting several new target areas. Mr. Grant recommended that most of these zones, if possible, should be explored by overburden removal methods and detailed geological studies. Furthermore, he recommended diamond drilling the geophysical anomalies that could not be explained by the current program.

**D) Stripping/Washing/Mapping/Sampling Program**

Correlation of the geological stratigraphy with the geophysical surveys uncovered several important target areas that were deemed suitable for a program of overburden removal, detailed geological mapping and sampling. This program would expose and try to explain the underlying stratigraphy and corresponding geophysical anomaly.

**Assay Results:**

A total of 157 samples were taken to two different laboratories. The methods both labs used in determining the metal content of each sample was the conventional fire assay technique using either a 1/2 assay or 1 assay ton weight. Refer to Appendix 1 for a complete list of assay results.

**Trench Map 1: Carbonate Zone**

Refer to map pocket 2 for detailed information on map #1.

Geological surveys and historical documentation outlined an area that was known to contain a carbonate zone associated with mariposite or fuchsite mineralization. It was decided to expose this area by overburden removal methods so that a proper geological evaluation could determine the economic significance of the surface of this zone.

A large 100 foot wide, lenticular, fine grained, talcose, carbonated, siliceous, oxidized, sheared Carbonate Zone was

exposed in 6 trenches for a distance of over 1,100 feet. The zone striked east-west and dipped variably northward. Both footwall and hangingwall contacts were commonly foliated and were associated with a fuchsite rich, quartz stockwork environment.

Minor faulting occurred throughout the mapped area. Displacements were recorded up to 24 inches.

Mineralization within the carbonate zone was widespread throughout the zone. The higher values were concentrated at and proximal to both footwall and hangingwall contacts. All samples assayed returned anomalous values up to 1.25 grams/tonne gold.

#### Map 2: Daxl Float Zone

Refer to Map #2 located in pocket #2 at the back of the report for detailed information on this area.

During the property mapping program, Mr. Herman Daxl MSc., discovered a large angular float composed of a mineralized, brecciated, quartz rich, carbonated material. Samples removed from the "Daxl float" yielded gold values up to 6,030 ppb. Several other smaller floats, similar in composition, were observed dispersed in a north-south direction for a distance of over 1,100 feet (refer to the main geology map for exact locations). Samples removed from the smaller floats yielded gold values up to 1,205 ppb. It was decided to expose the bedrock near the Daxl float for the

purpose of determining the geological stratigraphy surrounding the float.

Five trenches were completed in the area of the Daxl float. Trench #7, located closest to the Daxl float, exposed a dark green, moderately magnetic, fine grained, slightly mineralized, ultramafic volcanic. The trench did not reach bedrock beside the Daxl float. Trenches #8 through to #11 were located south of trench #7. These trenches did not reach bedrock. The magnetic qualities of the underlying strata in the area of the Daxl float is conducive to the moderately magnetic ultramafic rock that was exposed in trench #7. The magnetic qualities of the Daxl float would, in all probability, be conducive to a magnetic low signature.

Of importance is the fact that the float dispersal area is located immediately above 2 geophysical zones; Zone A and Zone C. Both zones were noted by the VLF and HLEM surveys. They have weak to good conductivity and appear to be legitimate bedrock anomalies. Both zones are also associated with a magnetic low signature (Grant, 1992). Unfortunately, both zones are located in swampy terrain and overburden removal methods could not determine their source.

**Map 3: Sulphide Rich Shear Zone**

Refer to map pocket 2 for detailed information on Map #3.

The purpose of trench #12 and #13 was to expose several overgrown old trenches where previous owners exposed a sulphide rich zone. Uncovering and widening the old trench near the Faymar road exposed an east-west trending, northward dipping, mineralized, oxidized, foliated zone. Pyrite and pyrrhotite sulphide mineralization were associated within irregular trending quartz-rich material throughout the zone. Samples removed from the zone yielded gold values up to ??? ppb.

**Map 4: Geophysical Zone 'D'**

Refer to map pocket 2 for detailed information on Map #4.

The purpose of trench #14 was to explain the geophysical anomaly that cross cuts the northern tip of a good magnetic unit. Mr. Grant concluded that the anomaly represents a good bedrock zone that may be associated with some type of alteration zone.

Trench #14 exposed a carbonated intermediate volcanic. The geophysical anomaly could not be explained as the bedrock quickly 'dropped off' in the direction of the anomaly. Swampy topographical conditions were located above the anomaly. The anomaly could not be explained by



overburden removal methods.

Map 5: Shaft Zone

Refer to map pocket 2 for detailed information on map #5.

The purpose of trench #15 was to expose the mineralization associated with a 30 foot deep 2-compartment shaft located proximal to a geophysical anomaly. Trench #15 exposed a narrow contorted sulphide rich iron formation. The nature and appearance of the iron formation suggested that the unit was drag folded and faulted northward. The iron formation north of the shaft apparently strikes east-west. The attitude of the formation would coincide with the attitude of geophysical anomaly; Zone G. Sample results from the iron formation returned gold values up to 40 ppb.

Map 6: Quartz/Carbonate Zone

Refer to map pocket 2 for detailed information on map #6.

The purpose of trench 16 was to explain the unidentified drill hole and to locate a previous gold value of 0.09 ounces/ton in one of several old trenches.

The stripping program exposed an east-west trending, north dipping quartz/carbonate zone for a distance of approximately 45 feet. The hangingwall contact was associated with a 7 foot wide, quartz vein. Alteration products within the vein include chlorite, sericite,

tourmaline and pyrite. Bedrock depth negated the exposure of the footwall contact. Sample results from the quartz vein yielded values up to 274 ppb gold. The unidentified drill hole and previous gold value was, in all probability, the result of the east-west trending quartz/carbonate zone.

South of the quartz/carbonate zone the stripping program exposed a narrow, isolated quartz veinlet associated within a intermediate volcanic. Sporadic chalcopyrite 'patches' occurred at the quartz veinlet/intermediate volcanic contact. A quartz/chalcopyrite sample yielded a value of 1060 ppm copper.

#### **E) Other Areas of Interest**

Table 1 outlines other areas of interest within the property where swampy conditions hindered the overburden stripping program to reach bedrock conditions.

**TABLE 1: Other Areas of Interest**

<u>Location</u>	<u>Comments</u>
1. 18E/6S to 30E/1S	Geophysical Zone E: 2 test pits were unsuccessful in reaching bedrock. A weak zone was defined by the VLF and HLEM survey. The zone is defined as a low priority drill target.
2. 14E/10N to 18E/10N	Geophysical Zone F: A strong HLEM target corresponded to a strong magnetic signature. The zone was exposed in 1936 by previous owners through a trenching, blasting, shaft sinking and diamond drilling

program. Conflicting drilling results yielded values up to \$18/ton over 5 feet. Surface sampling in the present study yielded values up to 38 ppb gold. The zone is interpreted to be a narrow, east-west trending lenticular iron formation.

**CONCLUSIONS AND OBSERVATIONS**

1. Previous owners of the property identified several areas in need of further study.
2. The present geological and geophysical program on the property outlined a number of anomalous stratigraphic signatures worthy of surface exposure by overburden removal methods.
3. The low priority target areas defined by the present program are:
  - a) Carbonate Zone
  - b) Sulphide Rich Shear Zone
  - c) Shaft Zone
  - d) Quartz Carbonate Zone
  - e) Geophysical Zone E & F
4. The high priority target areas defined by the present program are:
  - a) Geophysical Zone D:

This zone could not be explained by the present study. The zone is interpreted to be a legitimate bedrock zone associated with strong conductivity (15 MHOS) and minor alteration.
  - b) Daxl Float Zone:

Several pieces of quartz-rich carbonate float material yielded gold values up to 6,030 ppb. The

float dispersal area striked approximately north-south and was spread over a distance of 1,100 feet. This area overlaid 2 Geophysical Zones; Zone A & C. Correlation between the geophysical conductors and the carbonate float could not be explained as swampy terrain negated overburden removal methods.

**RECOMMENDATIONS**

Based on the successful results of this OMIP study, the property should be retained and kept in good standing. A follow-up exploration program is justified and recommended. This program should pay special attention to the 2 high priority targets; the Geophysical Zone D and the Daxl Float Zone. Additional detailed geophysics would be necessary over these 2 areas. This would further delineate the exact location and depth of the conductors. Diamond drilling would then be necessary on both high priority areas for the purpose of determining the cause of the geophysical conductors.

The successful completion of this diamond drilling program could enhance the property for further exploratory drilling.



**DECLARATION**

I, Kenneth Lapierre, of the city of Timmins, Province of Ontario, Canada, do state:

- 1) That I am a practising Consultant Geologist with an office at Suite 17-Hollinger Building, 637 Algonquin Blvd. E., Timmins, Ontario, and that my mailing address is P.O.Box 1021, Timmins, Ontario, P4N 7H6.
- 2) That I am a graduate with the degree of Honours Bachelor of Science majoring in Geology from the University of Western Ontario, London, Ontario, Canada.
- 3) That I have practised my profession as Consultant Geologist since my graduation from The University of Western Ontario in 1983.
- 4) That I am a Fellow of The Geological Association of Canada, and member of the Prospectors and Developers Association of Canada.
- 5) That I am familiar with the material in this report, having examined the material myself.

Dated this 20th day of November 1992, Timmins, Ontario.

Ken Lapierre HBSc  
Consultant Geologist



**BIBLIOGRAPHY**

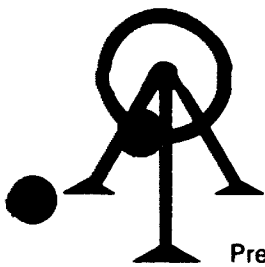
Assessment Office, Ministry of Northern Development and Mines  
Timmins, Ontario Branch: T-762, T-2530, T-2539,  
T-2647,

Grant, J.,  
1992: OMIP Summary Report On The Delwood Property  
Deloro Township Porcupine Mining Division  
Timmins, Ontario. Unpublished report. 7 p.

Grant, J.,  
1992: Geophysical Report For R. Collins Exploration  
On The Delwood Property, Deloro Township  
Porcupine Mining Division Timmins, Ontario.  
Unpublished report.

Pyke, D.R.,  
1982: Geology of the Timmins Area, District of  
Cochrane; Ontario Geological Survey Report  
219, 141 p. Accompanied by Map 2455, Scale  
1:50 000, 3 Charts, and 1 Sheet Microfische.





APPENDIX I  
**ACCURASSAY LABORATORIES**

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO

BOX 426

KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1

TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

# Certificate of Analysis

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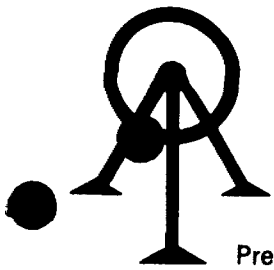
Lapierre Exploration Services  
Box 1021  
Timmins, Ontario  
P4N 7H6

September 21

92

Work Order # : 920326  
Project :

Accurassay	SAMPLE NUMBERS Customer	Gold ppb	Gold Oz/T
259660	HD 101	7	<0.001
259661	HD 102	9	<0.001
259662	HD 103	9	<0.001
259662	HD 103	9	<0.001 Check



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 KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1  
 TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

45986

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Lapierre Exploration Services  
 Box 1021  
 Timmins, Ontario  
 P4N 7H6

September 24

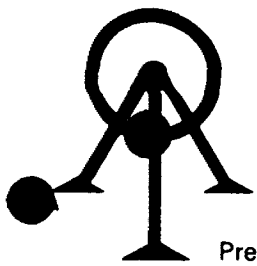
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Work Order # : 920332  
 Project :

SAMPLE NUMBERS		Gold	Gold
Accurassay	Customer	ppb	Oz/T
259846	HD104	6	< 0.001
259846	HD104	9	< 0.001 Check



Per: *G. Duncan*



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Page #1

September 30, 1992

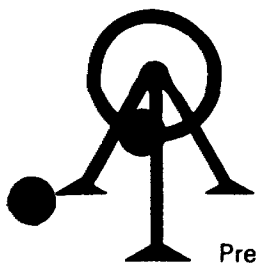
Work Order # 920332A

### CYANIDE LEACH GOLD

SAMPLE NUMBERS	Sample Wt. (g)	Solution CN Leach Oz/T	Residue Oz/T	Total Assay Oz/T	% Recovery
HD 105	2418	<0.004	<0.002	<0.004	--

Per: \_\_\_\_\_

*G. Duncan*



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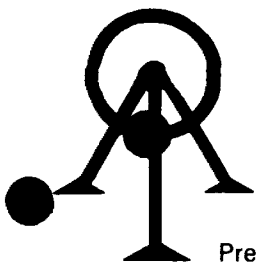
Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

October 14

92

Work Order # : 920359  
Project :

SAMPLE NUMBERS		Gold	Gold	Platinum	Palladium	
Accurassay	Customer	ppb	Oz/T	ppb	ppb	
260308	HD109	<5	<0.001	<15	<10	
260308	HD109	<5	<0.001	<15	<10	Check



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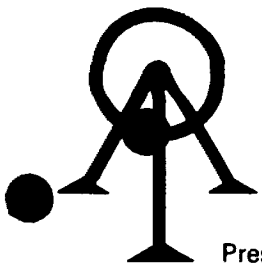
Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

October 20

92

Work Order # : 920359  
Project :

SAMPLE NUMBERS		Silver	Copper	Nickel	Lead	Zinc
Accurassay	Customer	ppm	ppm	ppm	ppm	ppm
260308	HD109	2	36	30	76	80



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October 6

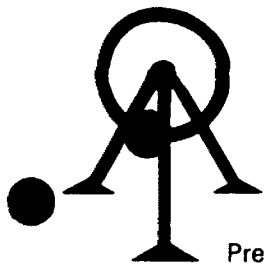
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Work Order # : 920358  
Project :

Accurassay	SAMPLE NUMBERS Customer	Gold ppb	Gold Oz/T	
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	260300	HD108	5	<0.001
	260301	HD110	<5	<0.001
	260302	HD111	<5	<0.001
	260303	HD112	18	0.001
	260304	HD113	<5	<0.001
	260305	HD114	<5	<0.001
	260306	HD115	<5	<0.001
	260307	HD116	<5	<0.001
	260307	HD116	<5	<0.001

Check

Per:



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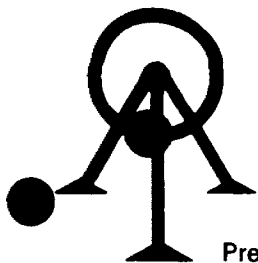
October 13

92

Work Order # : 920369  
Project :

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260694	HD 121	<5	<0.001	
260695	HD 122	<5	<0.001	
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260698	HD 125	<5	<0.001	
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260700	HD 127	<5	<0.001	
260701	HD 128	7	<0.001	
260702	HD 129	<5	<0.001	
260703	HD 130	<5	<0.001	
260704	HD 132	5	<0.001	
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260706	HD 135	<5	<0.001	
260707	HD 136	<5	<0.001	
260708	HD 137	<5	<0.001	
260708	HD 137	<5	<0.001	Check
260709	HD 138	<5	<0.001	
260710	HD 139	<5	<0.001	
260711	HD 140	20	0.001	
260712	HD 141	130	0.004	
260712	HD 141	67	0.002	Check

Per: \_\_\_\_\_



# ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO

BOX 426

KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1

TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

## Certificate of Analysis

Page: 1

Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

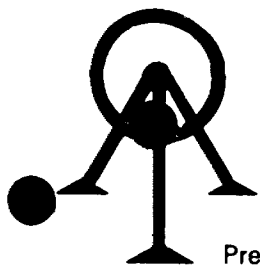
October 14

92

Work Order # : 920370  
Project :

SAMPLE NUMBERS		Gold	Gold	Platinum	Palladium	
Accurassay	Customer	ppb	Oz/T	ppb	ppb	
260713	HD 131	<5	<0.001	<15	<10	
260714	HD 134	<5	<0.001	<15	<10	
260715	HD 142	<5	<0.001	<15	11	
260716	HD 143	<5	<0.001	<15	<10	
260717	HD 144	9	<0.001	<15	<10	
260718	HD 145	3103	0.090	<15	<10	
260719	HD 146	5	<0.001	<15	<10	
260719	HD 146	<5	<0.001	<15	<10	Check





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## Certificate of Analysis

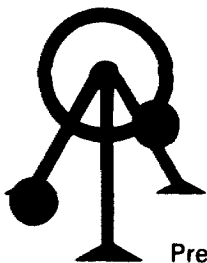
Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

Page #1

November 16, 1992

Work Order #: 920370

SAMPLE NUMBERS		Orig.	Reassay	Reassay
Accurassay	Customer	Gold	Orig. pulp	Reject
		ppb	Gold	Gold
			ppb	ppb
260718	HD 145	3103	1891	220
			6030	247



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## Certificate of Analysis

Page: 1

Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

October 21

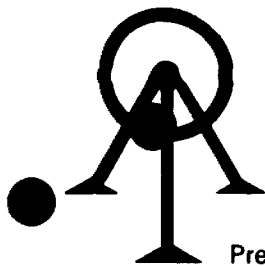
92

Work Order # : 920384  
Project :

SAMPLE NUMBERS	Customer	Gold ppb	Gold Oz/T	
0965	HD 147	10	<0.001	
0966	HD 148	<5	<0.001	
0967	HD 149	178	0.005	
0968	HD 150	193	0.006	
0969	HD 153	306	0.009	
0970	HD 154	6	<0.001	
0971	HD 155	32	0.001	
0972	HD 156	<5	<0.001	
0973	HD 157	<5	<0.001	
0974	HD 158	5	<0.001	
0974	HD 158	<5	<0.001	Check

Per: \_\_\_\_\_

ORIGINAL



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## Certificate of Analysis

Page: 1

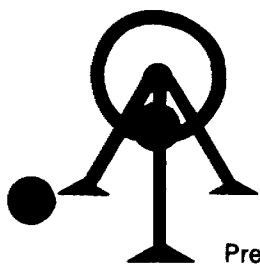
Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

October 28

92

Work Order # : 920397  
Project :

Accurassay	SAMPLE NUMBERS Customer	Gold ppb	Gold Oz/T	
261063	HD-159	6	<0.001	
261064	HD-160	1205	0.035	
261065	HD-161	5	<0.001	
261066	HD-162	38	0.001	
261067	HD-163	24	0.001	
261068	HD-164	<5	<0.001	
261069	HD-165	<5	<0.001	
261070	HD-166	<5	<0.001	
261071	HD-167	<5	<0.001	
261071	HD-167	<5	<0.001	Check



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## Certificate of Analysis

Page: 1

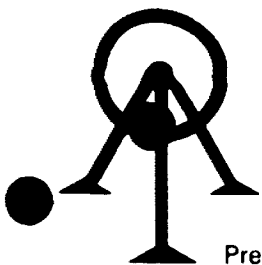
Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

November 3

92

Work Order # : 920405  
Project :

SAMPLE NUMBERS		Gold	Gold
Accurassay	Customer	ppb	Oz/T
261177	HD-168	93	0.003
261178	HD-169	<5	<0.001
261179	HD-170	14	<0.001
261180	HD-171	<5	<0.001
261181	HD-172	623	0.018
261182	HD-173	<5	<0.001
261183	HD-174	<5	<0.001
261183	HD-174	<5	<0.001 Check



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## Certificate of Analysis

Page: 1

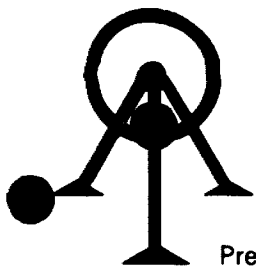
Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

November 3

92

Work Order # : 920406  
Project :

SAMPLE NUMBERS		Gold	Gold
Accurassay	Customer	ppb	Oz/T
261184	HD-175	< 5	< 0.001
261185	HD-176	< 5	< 0.001
261186	HD-177	6	< 0.001
261187	HD-178	9	< 0.001
261188	HD-179	27	0.001
61188	HD-179	Insufficient sample	Check



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## Certificate of Analysis

Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

Page #2

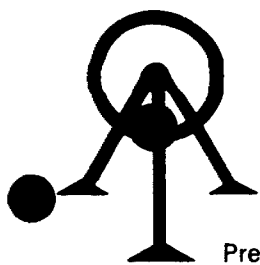
November 4, 1992

Work Order #: 920370

SAMPLE NUMBER	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	MgO %	CaO %
HD-142	44.53	5.45	12.40	23.98	6.13

SAMPLE NUMBER	Na <sub>2</sub> O %	K <sub>2</sub> O %	P <sub>2</sub> O <sub>5</sub> %	TiO <sub>2</sub> %	MnO %
HD-142	0.15	0.01	0.180	0.406	0.128

SAMPLE NUMBER	BaO %	Cr <sub>2</sub> O <sub>3</sub> %	SrO %	LOI %	TOTAL %
HD-142	0.006	0.519	0.001	5.8	99.7



# ACCURASSAY LABORATORIES

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## Certificate of Analysis

Lapierre Exploration Services  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

Page #1

November 4, 1992

Work Order #: 920370

SAMPLE NUMBER	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm
HD-142	1	52	8	46	0.6	654

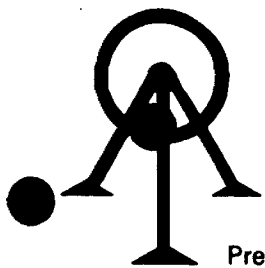
SAMPLE NUMBER	Co ppm	Mn ppm	Fe %	As ppm	Au ppm	Hg ppm
HD-142	62	299	5.17	72	<3	<3

SAMPLE NUMBER	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %
HD-142	3	<1	12	<3	80	0.20

SAMPLE NUMBER	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %
HD-142	0.02	<1	1099	5.65	23	0.02

SAMPLE NUMBER	Al %	Na %	Si %	W ppm	Be ppm
HD-142	2.34	0.01	<0.01	3	2

Per: 



# ACCURASSAY LABORATORIES

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## Certificate of Analysis

Lappirre Exploration Service  
P.O. Box 1021  
TIMMINS, Ontario  
P4N 7H6

November 2, 1992

Work Order # : 920358

SAMPLE NUMBERS		SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO
Accurassay	Customer	%	%	%	%	%
260299	HD 107	61.12	2.19	5.13	5.35	11.11
260306	HD 115	48.93	12.51	10.91	10.80	4.35

SAMPLE NUMBERS		Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	MnO
Accurassay	Customer	%	%	%	%	%
260299	HD 107	0.09	0.61	0.130	0.076	0.124
260306	HD 115	1.25	0.38	0.140	0.118	0.009

SAMPLE NUMBERS		BaO	Cr <sub>2</sub> O <sub>3</sub>	SrO	LOI	TOTAL
Accurassay	Customer	%	%	%	%	%
260299	HD 107	0.012	0.058	0.008	6.3	92.3
260306	HD 115	0.009	0.156	0.004	8.7	98.7





# ASSAYERS

LABORATOIRES/LABORATORIES

DIVISION DE/OF ASSAYERS CORPORATION LTD.

780, AV. DU CUIVRE, C.P. 665, ROUYN-NORANDA (QUÉBEC) J9X 5C6 TÉL.: (819) 797-4653 FAX: (819) 797-4501

## Certificat/Certificate

2R-1806-RA1

Comp: **KEN LAPIERRE**

Date: OCT-26-92

Proj: **DELWOOD**

Attn:

Nombre D'Echantillons/No. of Samples:

Soumis le/Submitted: **OCT-20-92**

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU g/tonne	AU CH'KS g/tonne	AU CH'KS g/tonne
# 1	274					
# 2	445					
# 3	411					
# 4	103					
# 5	206					
# 6	274					
# 7	149					
# 8	206					
# 9	240					
# 10	171					
# 11	34					
# 12	480					
# 13	274					
# 14	*			1.03	1.03	1.03
# 15	*			0.62		
# 16	309	294	323			
# 17	274					
# 18	516					
# 19	309					
# 20	96					
# 21	*			0.58		
# 22	121					

Certifie par/Certified by

  
J.J. Landers

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"SERVING INDUSTRY FOR OVER 50 YEARS"





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## Certificat/Certificate

2R-1806-RA2

Comp: **KEN LAPIERRE**  
Proj: **DELWOOD**  
Attn:

Date: **OCT-26-92**

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: **OCT-20-92**

No. D'Echantillon Sample Number	AU PPB	AU CH'KS PPB	AU CH'KS PPB	AU G/TONNE	AU CH'KS G/TONNE	AU CH'KS G/TONNE
# 23	222					
# 24	301					
# 25	359	350	367			
# 26	341					
# 27	203					
# 28	99					
# 29	321					
# 30	549					
# 31	153					
# 32	191					
# 33	234					
# 34	309					
# 35	86					
# 36	*			1.25	1.23	1.27
# 37	207					
# 38	446					
# 39	83					
# 40	299					
# 41	243					
# 42	151					
# 43	200					
# 44	327					

Certifie par/Certified by

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**Certificat/Certificate**

**2R-1806-RA3**

Comp: **KEN LAPIERRE**  
Proj: **DELWOOD**  
Attn:

Date: **OCT-26-92**

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: **OCT-20-92**

No. D'Echantillon Sample Number	AU PPB
# 45	36
# 46	82
# 47	160
# 48	95
# 49	255
# 50	225
# 51	530
# 52	487
# 53	50
# 54	253
# 55	99
# 56	10
# 57	8
# 58	16
# 59	72
# 60	42
# 61	38
# 62	42
# 63	40

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## Certificat/Certificate

2R-1842-RA1

Comp: **KEN LAPIERRE**

Date: OCT-27-92

Proj:

Attn:

Nombre D'Echantillons/No. of Samples:

Soumis le/Submitted: OCT-26-92

No. D'Echantillon Sample Number	AU G/TONNE
# 64	0.89
# 65	0.45
# 66	0.55
# 67	1.23

Certifie par/Certified by

J.J. Landers

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**ASSAYERS**  
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**Certificat/Certificate**

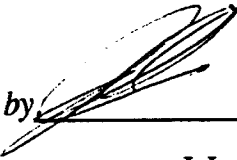
**2R-1842-RA1**

Comp: **KEN LAPIERRE**  
Proj:  
Attn:

Date: **OCT-27-92**

Nombre D'Echantillons/No. of Samples:  
Soumis le/Submitted: **OCT-26-92**

No. D'Echantillon Sample Number	AU G/TONNE
# 64	0.89
# 65	0.45
# 66	0.55
# 67	1.23

Certifié par/Certified by 

**J.J. Landers**

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## Certificat/Certificate

2R-1997-RG1

Comp: **KEN LAPIERRE**

Date: **NOV-26-92**

Proj:

Att:

Nombre D'Echantillons/No. of Samples:

Soumis le/Submitted: **NOV-19-92**

No. D'Echantillon Sample Number	AU PPB	AG PPM	CU PPM
68	41		
69	40		
70	26		
71	104		
72	24		
73	100	0.3	1060
74	118		
75	274		
76	49		
77	40		
78	22		
79	23		
80	16		



Ontario



42A06NEB900 2.15197 DELORO

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Geoscience Approvals Section  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

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

April 6, 1994

Our File: 2.15197  
Transaction #: W9360.00180

Mining Recorder  
Ministry of Northern  
Development and Mines  
Timmins, Ontario  
P4N 2S7

Dear Sir/Madam:

**Subject:** APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS  
P.1182859 ET AL IN DELORO TOWNSHIP

---

The assessment work credits for Geology, Section 12 of the Mining Act Regulations, have been approved as outlined on the attached Assessment Work Credit Form.

The approval date is March 1, 1994.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

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

 LJ/ls

cc: Resident Geologist  
Timmins, Ontario

✓ Assessment Files Library  
Toronto, Ontario

**ASSESSMENT WORK CREDIT FORM**

**FILE NUMBER: 2.15197**

**DATE: March 1, 1994**

**RECORDER'S REPORT NUMBER: W9360.00180**

**RECORDED HOLDER: Roland Collins**

**CLIENT NUMBER: 119832**

**TOWNSHIP OR AREA: Deloro Township**

<b>CLAIM</b>	<b>VALUE OF WORK DONE ON THIS CLAIM</b>	<b>VALUE APPLIED TO THIS CLAIM</b>	<b>VALUE ASSIGNED FROM THIS CLAIM</b>	<b>RESERVE</b>
P1182859	\$ 15,100	\$ 7,200	\$ 0	\$ 7,900
1182860	20,112	9,600	0	10,512
1182861	5,000	2,400	0	2,600
	<hr/>			
	\$ 40,212	\$ 19,200	\$ 0	\$ 21,012





Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 870-7284.

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

2.15197

Recorded Holder(s) ROLAND COLLINS		Client No. 119832
Address 199 LOIS CRESCENT, TIMMINS, ONT.		Telephone No. 768-8630
Mining Division PORCUPINE	Township/Area DELORO TWP.	M or G Plan No. G-3993
Dates Work Performed From: July 15/92		To: Jan 21/93

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	LINECUTTING, GEOPHYSICS (MAG, VLF, MAXIM) GEOLOGY
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

D22318  
RECEIVED  
OCT 22 1993  
MINING DIVISION BRANCH

RECORDED  
OCT 18 1993  
Receipt

Total Assessment Work Claimed on the Attached Statement of Costs \$ ~~222,165.87~~ 57,767.00

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

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

Name	Address
RUBY RESOURCES INC.	P.O. Box 1459 Timmins, Ont.
KEVIN LARRIERE EXP. LTD.	R.R. # 4 Brockville, Ont.
ELSIKS EXP. LTD.	P.O. Box 1880 Timmins, Ont.

(attach a schedule if necessary)

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

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date Oct 15/93	Recorded Holder or Agent (Signature) [Signature]
--	-------------------	---

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying John C. Grant, P.O. Box 1880, Timmins, Ont.		
Telephone No. 705-267-4151	Date Oct 15/93	Certified By (Signature) [Signature]

For Office Use Only

Total Value Cr. Recorded 57,767.00	Date Recorded	Mining Recorder [Signature]	Recorded Stamp OCT 18 1993 @ 3:00 pm '93 PORCUPINE MINING DIVISION
	Deemed Approval Date JAN. 17th 1994	Mining Recorder [Signature]	
	Date Notice for Amendments Sent		





Statement of Costs  
for Assessment Credit

État des coûts aux fins  
du crédit d'évaluation

Mining Act/Loi sur les mines

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

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

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type LINECUTTING	\$5,589.68	
	GEOLOGY	\$4,025.00	
	GEOPHYSICS	\$1,151.99	\$57,768.00
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type OCT 18 1993		
	Receipt		
Total Direct Costs Total des coûts directs			\$57,768.00

2. Indirect Costs/Coûts indirects

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

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

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

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

Filing Discounts

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

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

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

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

Certification Verifying Statement of Costs

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

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

to make this certification

Attestation de l'état des coûts

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

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

à faire cette attestation.

Signature <u>[Signature]</u>	Date <u>Oct 15/93</u>
---------------------------------	--------------------------

**MAP SYMBOLOLOGY**

Aerial Cableway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
Interprovincial	Double Track
District, Township	Abandoned
Indian Reserve	Turbine
Approximate	Road
Lat. Concession	Highway, County
Approximate	Township
Park Boundary	Access Road of (designated maintenance of significant driveway)
Bridge	Trail, Bush Road (portage ways)
Road, Railroad	Rapids
Building	Double line river with multiple rapids
Chimney	Double line river (portage ways)
Cliff, Pit, Pile	Reservoir
Contours	River, Stream, Canal
Interpretation	Approximate
Approximate	Waterfall
Control Points	Spot Elevation (like elevations) 300.0
Horizontal	Tower
Vertical	Transmission Line
Culvert	Pole
Falls	Pylon
Double line river	Tunnel
Fence, Hedge, Wall	Utility Poles
Feature Outline (Contractual Features, etc.)	Wharf, Dock, Pier
Flooded Land	Wooded Area
Lock	
Marsh or Swamp	
Mast	
Mine Head Frame	
Outcrop	

**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

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.

**TISDALE TWP G-3976**



OCDEN TWP G-3979

SHAW TWP G-3999

**ADAMS TWP G-**

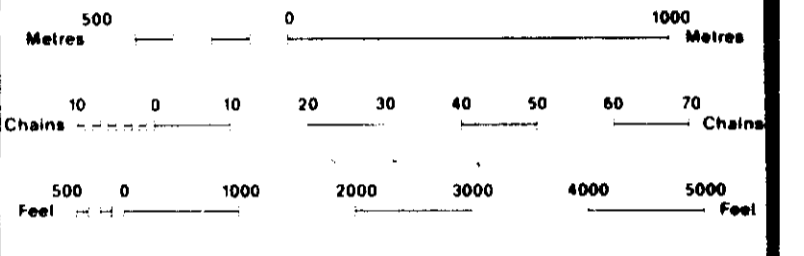
**LEGEND**

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-CANCEL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

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



SCALE 1:20 000

**NOTES**

- 1. REGISTERED CLAIMS...
- 2. MINING CLAIMS...
- 3. DOME MINE...
- 4. SURFACE RIGHTS ONLY WITHDRAWN UNDER SECTION 13 OF THE MINING ACT, R.S.O. 1990...

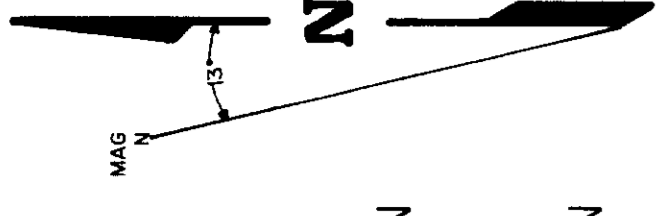
**ISSUED**  
OCT 23 1993  
PORCUPINE MINING DIVISION

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

Ministry of Natural Resources  
Land Management Branch  
Ontario

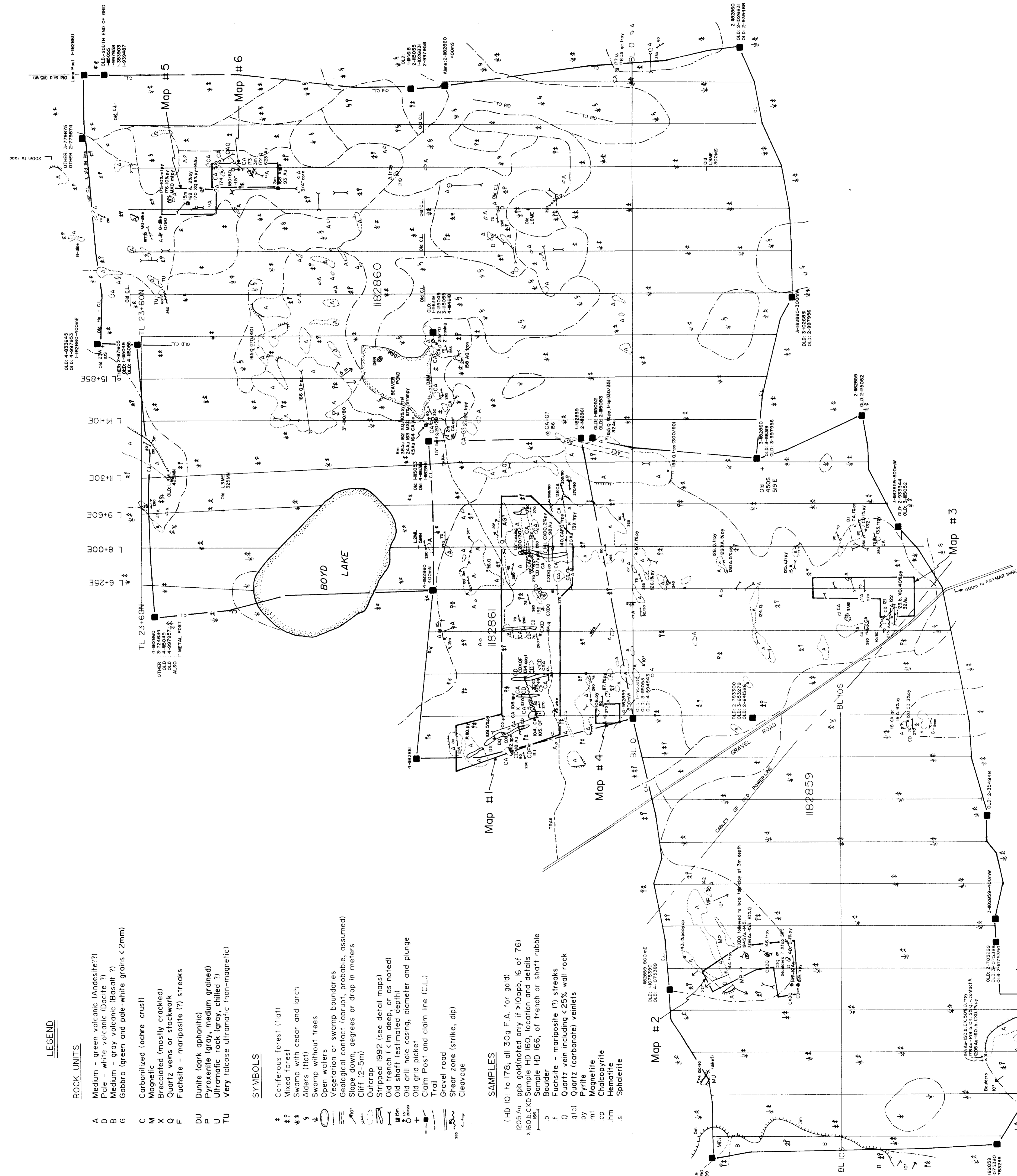
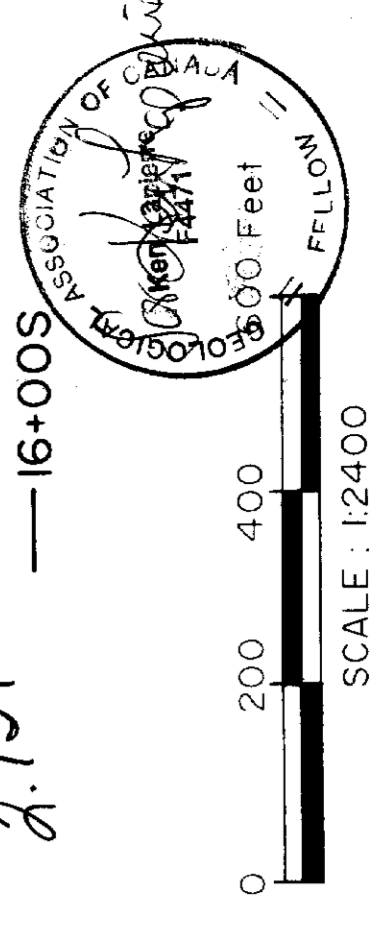
Date: FEBRUARY 1994  
Number: G-3993  
Received March 15/94





30+00N —  
28+00N —  
26+00N —  
24+00N —  
22+00N —  
20+00N —  
18+00N —  
16+00N —  
14+00N —  
12+00N —  
10+00N —  
8+00N —  
6+00N —  
4+00N —  
2+00N —  
0+00 —  
2+00S —  
4+00S —  
6+00S —  
8+00S —  
10+00S —  
12+00S —  
14+00S —  
16+00S —

2.15197



**LEGEND**

**ROCK UNITS**

- A Medium - green volcanic (Andesite?)
- B Pale - white volcanic (Dacite ?)
- C Medium - gray volcanic (Basalt ?)
- G Gabbro (green and pale-white grains < 2mm)
- C Carbonized (ochre crust)
- M Magnetic
- X Brecciated (mostly cracked)
- Q Quartz veins or stockwork
- F Fuchsite - mariposite (?) streaks
- Du Dumite (dark apophitic)
- P Pyroxenite (gray, medium grained)
- L Ultramafic rock (gray, chilled ?)
- TU Very talcose ultramafic (non-magnetic)

**SYMBOLS**

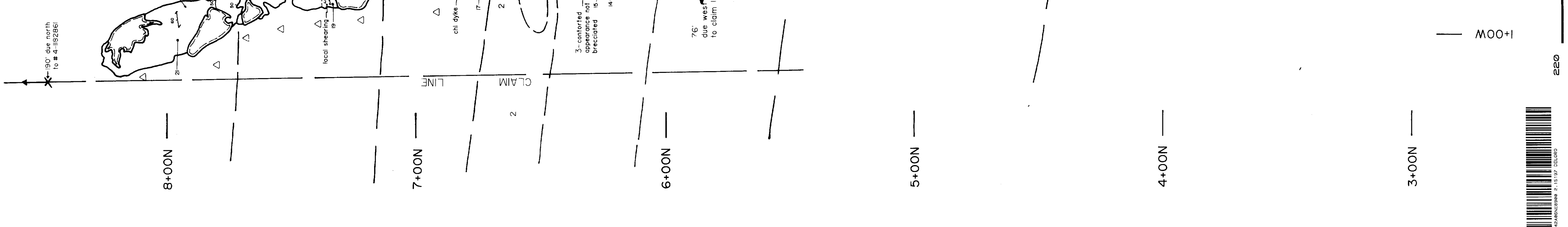
- ☐ Coniferous forest (flat)
- ☐ Mixed forest
- ☐ Swamp with cedar and larch
- ☐ Alders (flat)
- ☐ Swamp without trees
- ☐ Open waters
- ☐ Vegetation or swamp boundaries
- ☐ Geological contact (abrupt, probable, assumed)
- ☐ Slope down, degrees or drop in meters
- ☐ Cliff (2-5m)
- ☐ Outcrop
- ☐ Stripped 1992 (see detail maps)
- ☐ Old trench (< 1m deep, or as noted)
- ☐ Old shaft (estimated depth)
- ☐ Old drill hole casing, diameter and plunge
- ☐ Old grid picket
- ☐ Claim Post and claim line (C.L.)
- ☐ Trail
- ☐ Gravel road
- ☐ Shear zone (strike, dip)
- ☐ Cleavage

**SAMPLES**

- (HD 101 to 178, all 30g F.A. for gold)
- 1205 Au pbb goldfitted only (> 10ppb, 16 of 76)
- x160 L.C.X.D Sample HD 160, location and details
- 160 Sample HD 160, of trench or shaft rubble
- b Boulder
- F Fuchsite - mariposite (?) streaks
- Q Quartz vein including < 25% wall rock
- a(c) Quartz (carbonate) veinlets
- M Magnetite
- CD Chalcopyrite
- HM Hematite
- SP Sphalerite

LAPIERRE EXPLORATION SERVICES INC.  
P.O. Box 1021, P4N 7H6  
Suite 17, Haldimand Bldg. Timmins, Ontario  
Telephone: 705 267-7369

CLIENT: R. COLLINS EXPLORATION  
PROPERTY: DELWOOD PROPERTY, DELORO TWP.  
TITLE: GEOLOGY MAP  
DATE: Nov. 1992  
SCALE: 1"=200'  
DRAWN: P.G. INTERP.: Hermann Daxl



ASSAY

Sample #.	Au-ppb.	Au_g/tonne
1	274	
2	411	
3	103	
4	206	
5	274	
6	149	
7	240	
8	171	
9	34	
10	480	
11	274	
12	*	103
13	*	-0.62
14	309	
15	274	
16	516	
17	309	
18	96	
19	121	
20	222	
21	301	
22	359	
23	341	
24	993	
25	321	
26	549	
27	153	
28	191	
29	234	
30	89	
31	66	
32	*	-125
33	207	
34	446	
35	83	
36	289	
37		
38		
39		
40		

ASSAY

Sample #.	Au-ppb.
41	243
42	151
43	300
44	327
45	36
46	82
47	160
48	95
49	235
50	51
51	530
52	487
53	50
54	253
55	99
56	8
57	16
58	72
59	42
60	38
61	42
62	42
63	40

- LEGEND
- 1 - Carbonate Zone
  - 2 - Intermediate Volcanic
  - 3 - Quartz/Chlorite Breccia
  - 4 - Oxide - Sulphide Facies Iron Formation
  - 5 - Granodiorite
  - 6 - Mafic Volcanic
  - 7 - Ultramafic Volcanic
  - g - <5% Qtz veinlets
  - b - <10% Qtz veinlets
  - c - oxidized
  - d - pillowed
  - e - stretched
  - f - fine grained
  - h - chlorite
  - g - tourmaline
  - i - sheared/foliated
  - j - fragmented
  - k - fuchsite

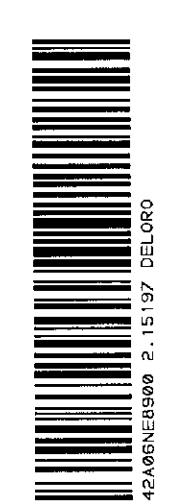
215197

SCALE (feet) 0 100 200

Map #1

LAPIERRE EXPLORATION SERVICES INC.  
 P.O. Box 1021, P.M. 716  
 Suite 17, Delwood, Ontario, M0S 2B7, CANADA

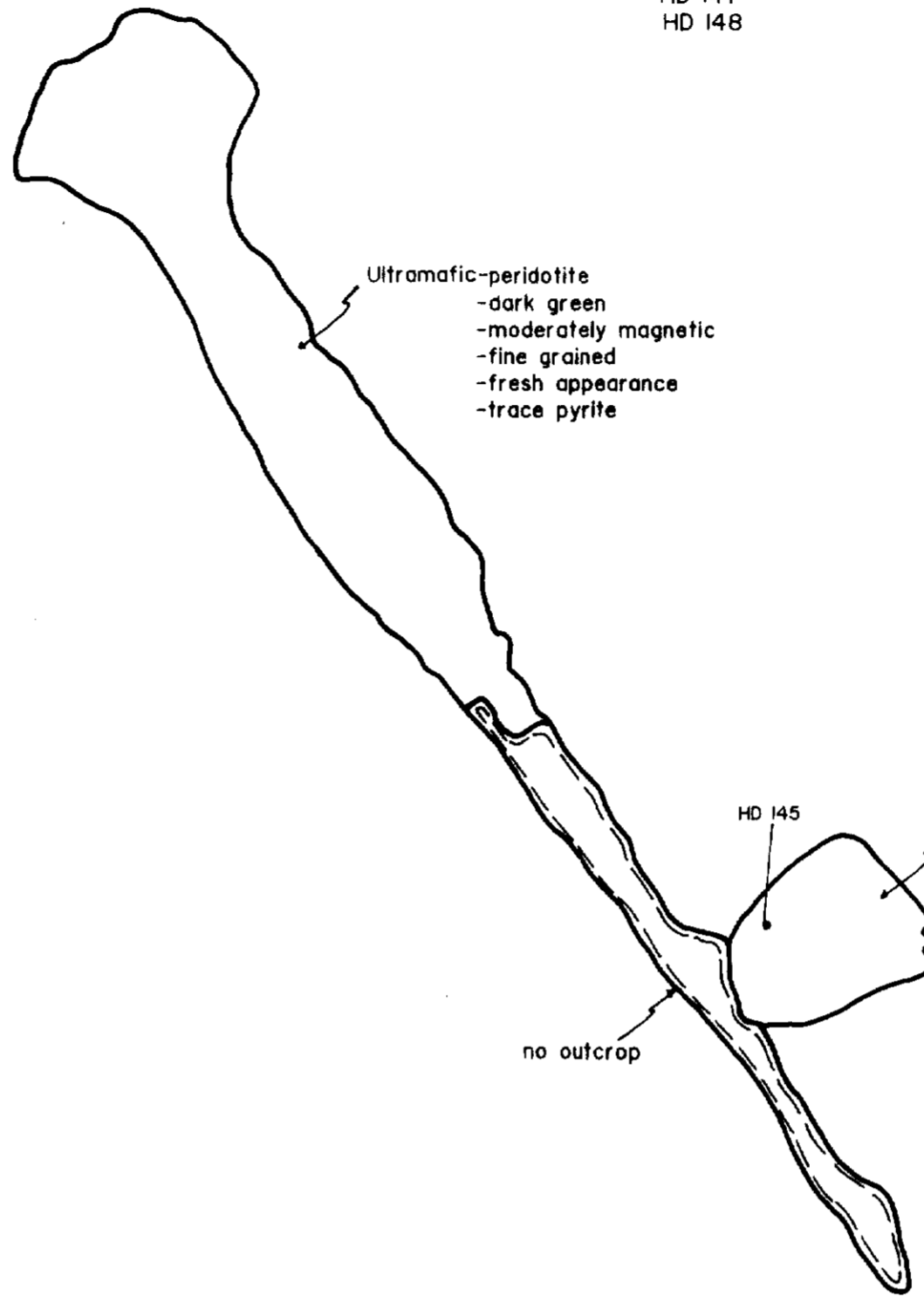
CLIENT: R. COLLINS EXPLORATION  
 PROPERTY: DELWOOD PROPERTY  
 TITLE: TRENCH GEOLOGY  
 DATE: Nov. 1992  
 DRAWN: P.G.  
 INTERP.: K. Lapierre



4+20S —  
 4+40S —  
 4+60S —  
 4+80S —  
 5+00S —  
 5+20S —  
 5+40S —  
 5+60S —  
 5+80S —  
 6+00S —  
 6+20S —  
 6+40S —  
 6+60S —  
 6+80S —  
 7+00S —  
 7+20S —  
 7+40S —  
 7+60S —

RELIEF  
 TRENCH # 7

SAMPLE #	Au ppb	g/t
64		0.89
65		0.45
HD 145	3103,1891,6030, 180,220,247	
HD 146	5	
HD 147	10	
HD 148	<5	

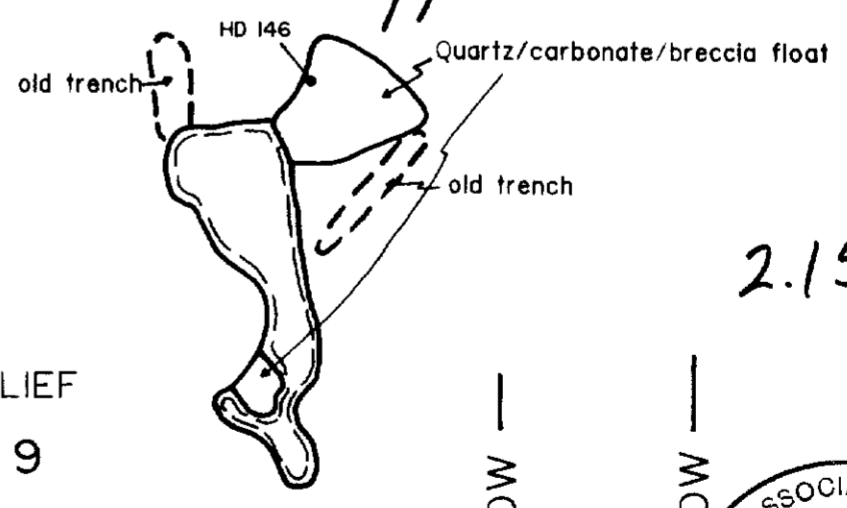


Quartz/carbonate/breccia float  
 -up to 10% fine grained disseminated euhedral pyrite  
 -20% irregular trending quartz veinlets & veins  
 -fragments <6 inches  
 -highly carbonated  
 -oxidized  
 -height = 20'



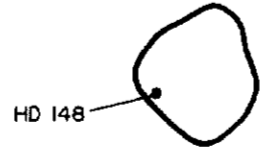
230

TRENCH # 8

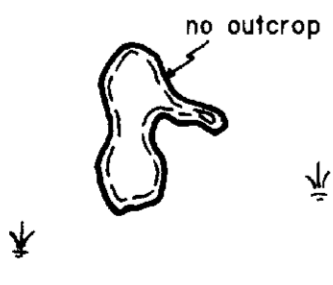


LOW RELIEF

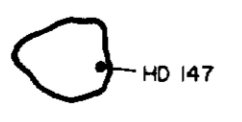
TRENCH # 9



TRENCH # 11



TRENCH # 10

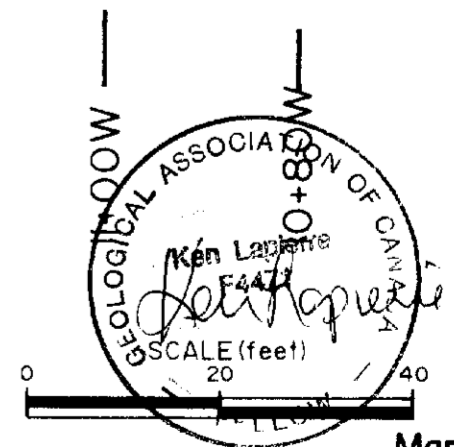


LOW RELIEF

SPRUCE SWAMP

13+00W —  
 12+80W —  
 12+60W —  
 12+40W —  
 12+20W —  
 12+00W —  
 11+80W —  
 11+60W —  
 11+40W —

2.15197

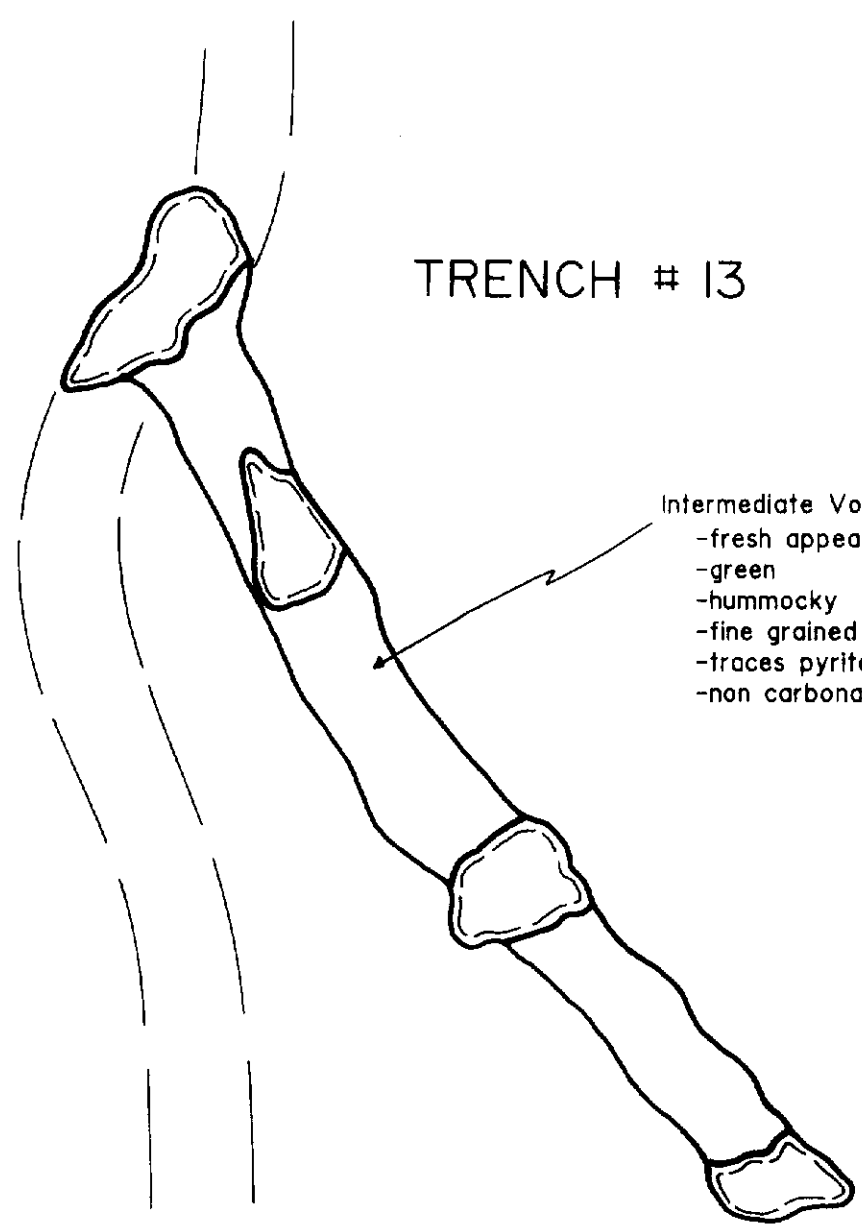


Map # 2

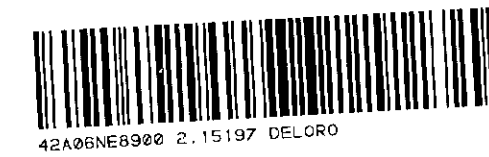
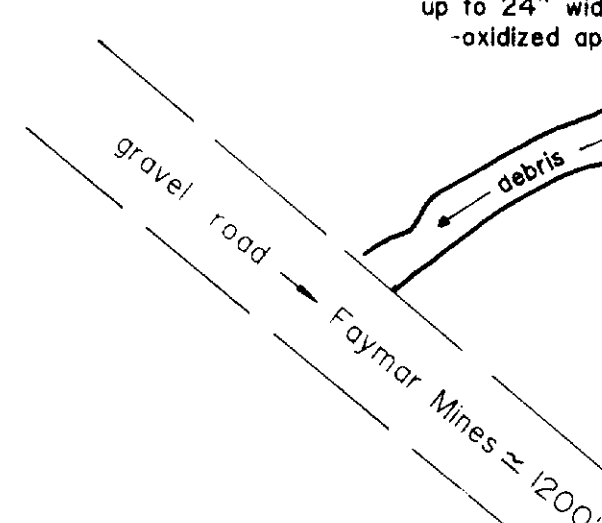
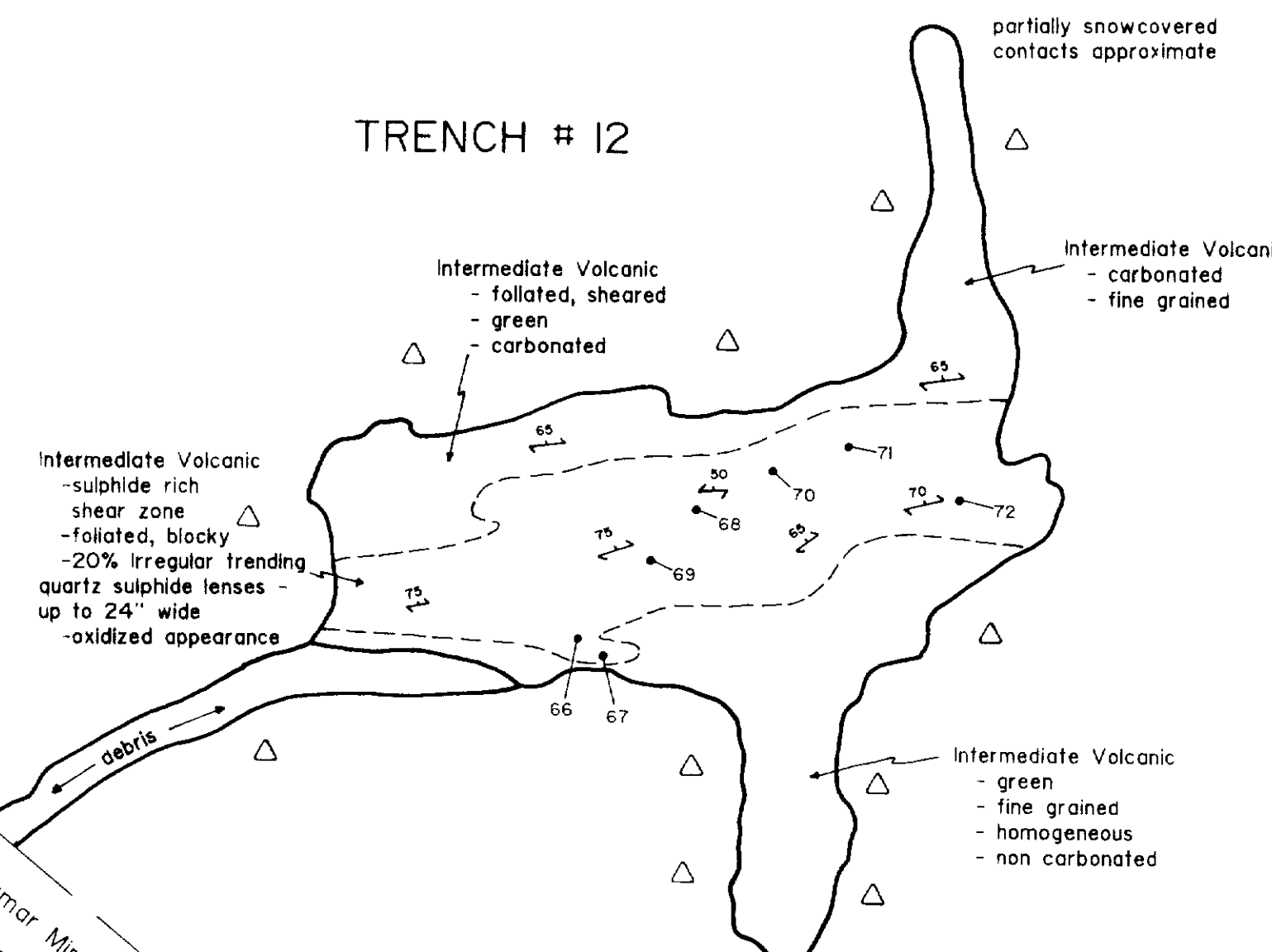
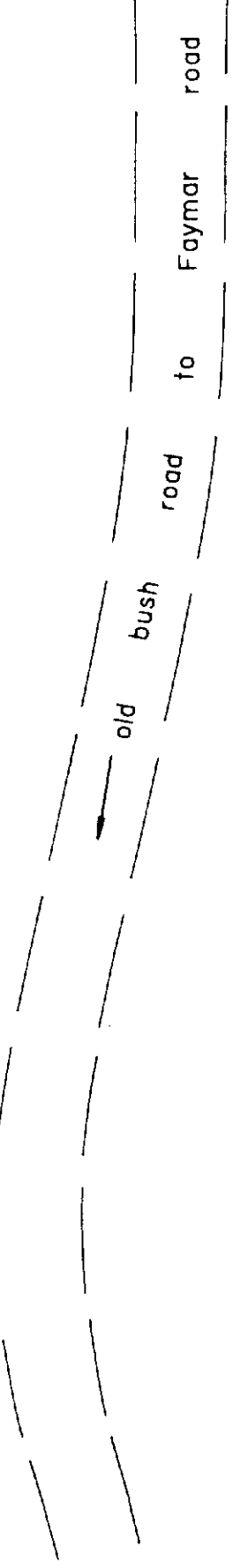
LAPIERRE EXPLORATION SERVICES INC. P.O. Box 1021, P4N 7H6 Suite 17, Hollinger Bldg. Timmins, Ontario Telephone: 706 287-7399	
CLIENT:	R. COLLINS EXPLORATION
PROPERTY:	DELWOOD PROPERTY
TITLE:	TRENCH GEOLOGY
DATE: Nov. 1992	SCALE: 1"=20'
DRAWN: P.G.	INTERP.: K. Lapierre

9+00S —  
 9+20S —  
 9+40S —  
 9+60S —  
 9+80S —  
 10+00S —  
 10+20S —  
 10+40S —  
 10+60S —  
 10+80S —  
 11+00S —  
 11+20S —  
 11+40S —  
 11+60S —  
 11+80S —  
 12+00S —  
 12+20S —  
 12+40S —  
 12+60S —  
 12+80S —  
 13+00S —  
 13+20S —  
 13+40S —

ASSAY		
Sample #	Au ppb	Au G/Tonne
66		0.55
67		1.23
68	41	
69	40	
70	26	
71	104	
72	24	



MODERATE RELIEF  
 POPLAR SPRUCE  
 POPLAR SPRUCE  
 POPLAR SPRUCE



240

3+80E — 4+00E — 4+20E — 4+40E — 4+60E — 4+80E — 5+00E — 5+20E — 5+40E — 5+60E — 5+80E — 6+00E —

Intermediate Volcanic  
 -fresh appearance  
 -green  
 -hummocky  
 -fine grained  
 -traces pyrite  
 -non carbonated

partially snowcovered contacts approximate

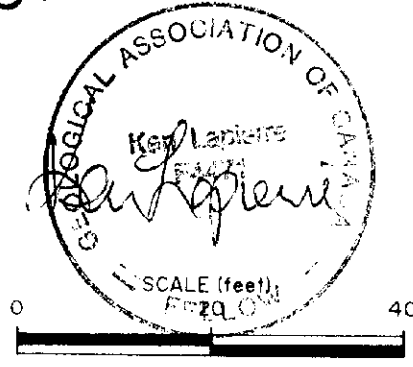
Intermediate Volcanic  
 - foliated, sheared  
 - green  
 - carbonated

Intermediate Volcanic  
 - carbonated  
 - fine grained

Intermediate Volcanic  
 -sulphide rich shear zone  
 -foliated, blocky  
 -20% irregular trending quartz sulphide lenses - up to 24" wide  
 -oxidized appearance

Intermediate Volcanic  
 - green  
 - fine grained  
 - homogeneous  
 - non carbonated

2.15197



LAPIERRE EXPLORATION SERVICES INC. P.O. Box 1021, P4N 7H6 Suite 17, Hollinger Bldg. Timmins, Ontario Telephone: 705 267-7389	
CLIENT:	R. COLLINS EXPLORATION
PROPERTY:	DELWOOD PROPERTY
TITLE:	TRENCH GEOLOGY
DATE:	Nov. 1992
DRAWN:	P.G.
SCALE:	1"=20'
INTERP:	K. Lapierre

Map # 3





2+00N

1+80N

1+60N

1+40N

1+20N

1+00N

HIGH RELIEF

Intermediate Volcanic  
- carbonated  
- fresh appearance

10'

From surface  
to 14'

35'

LOW RELIEF

SWAMP

Line

Claim

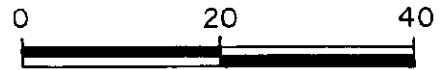
0+40W

0+20W

0+00

0+20E

0+40E



SCALE (feet)

Map # 4

2.15197



LAPIERRE EXPLORATION SERVICES INC.

P.O. Box 1021, P4N 7H6  
Suite 17, Hollinger Bldg. Timmins, Ontario  
Telephone: 705 267-7389

CLIENT: R. COLLINS EXPLORATION

PROPERTY: DELWOOD PROPERTY

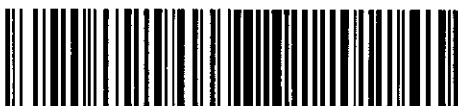
TITLE: TRENCH GEOLOGY

DATE: Nov. 1992

SCALE: 1"=20'

DRAWN: P.G.

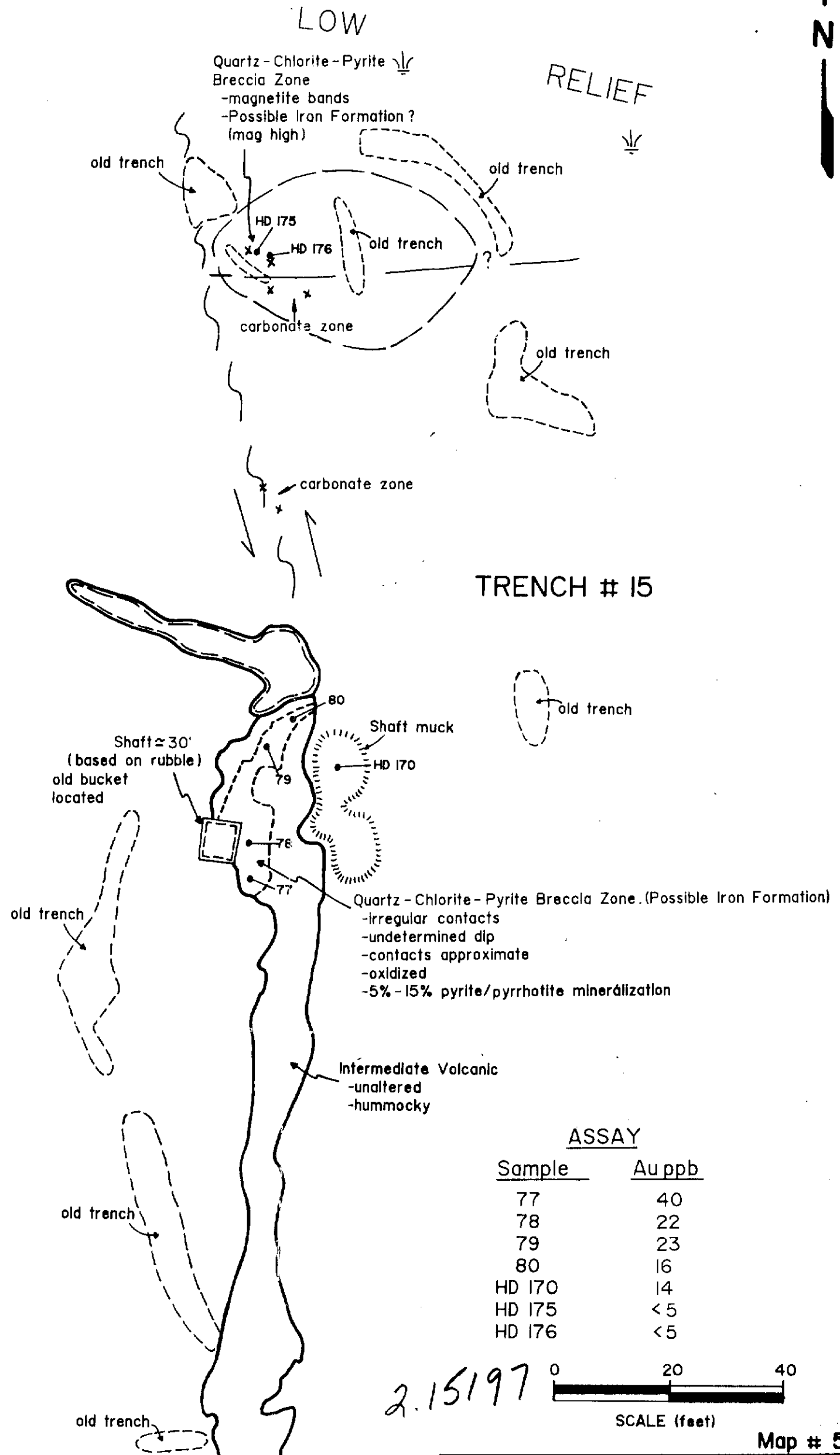
INTERP.: K. Lapierre



42A06NE8900 2.15197 DELORO

— 24+00E — 24+20E — 24+40E — 24+60E — 24+80E — 25+00E — 25+20E

22+60N —  
22+40N —  
22+20N —  
22+00N —  
21+80N —  
21+60N —  
21+40N —  
21+20N —  
21+00N —  
20+80N —  
20+60N —  
20+40N —  
20+20N —  
20+00N —

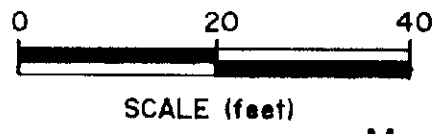


TRENCH # 15

**ASSAY**

Sample	Au ppb
77	40
78	22
79	23
80	16
HD 170	14
HD 175	< 5
HD 176	< 5

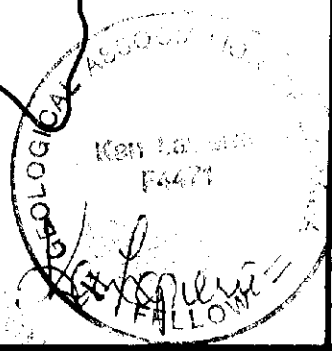
2.15197



SCALE (feet)

Map # 5

LAPIERRE EXPLORATION SERVICES INC. P.O. Box 1021, P4N 7H6 Suite 17, Hollinger Bldg. Timmins, Ontario Telephone: 705 267-7388	
CLIENT:	R. COLLINS EXPLORATION
PROPERTY:	DELWOOD PROPERTY
TITLE:	TRENCH GEOLOGY
DATE: Nov. 1992	SCALE: 1"=20'
DRAWN: P.G.	INTERP.: K. Lapierre



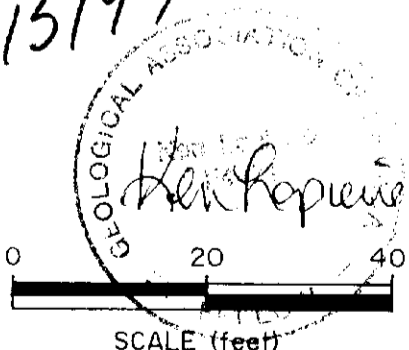
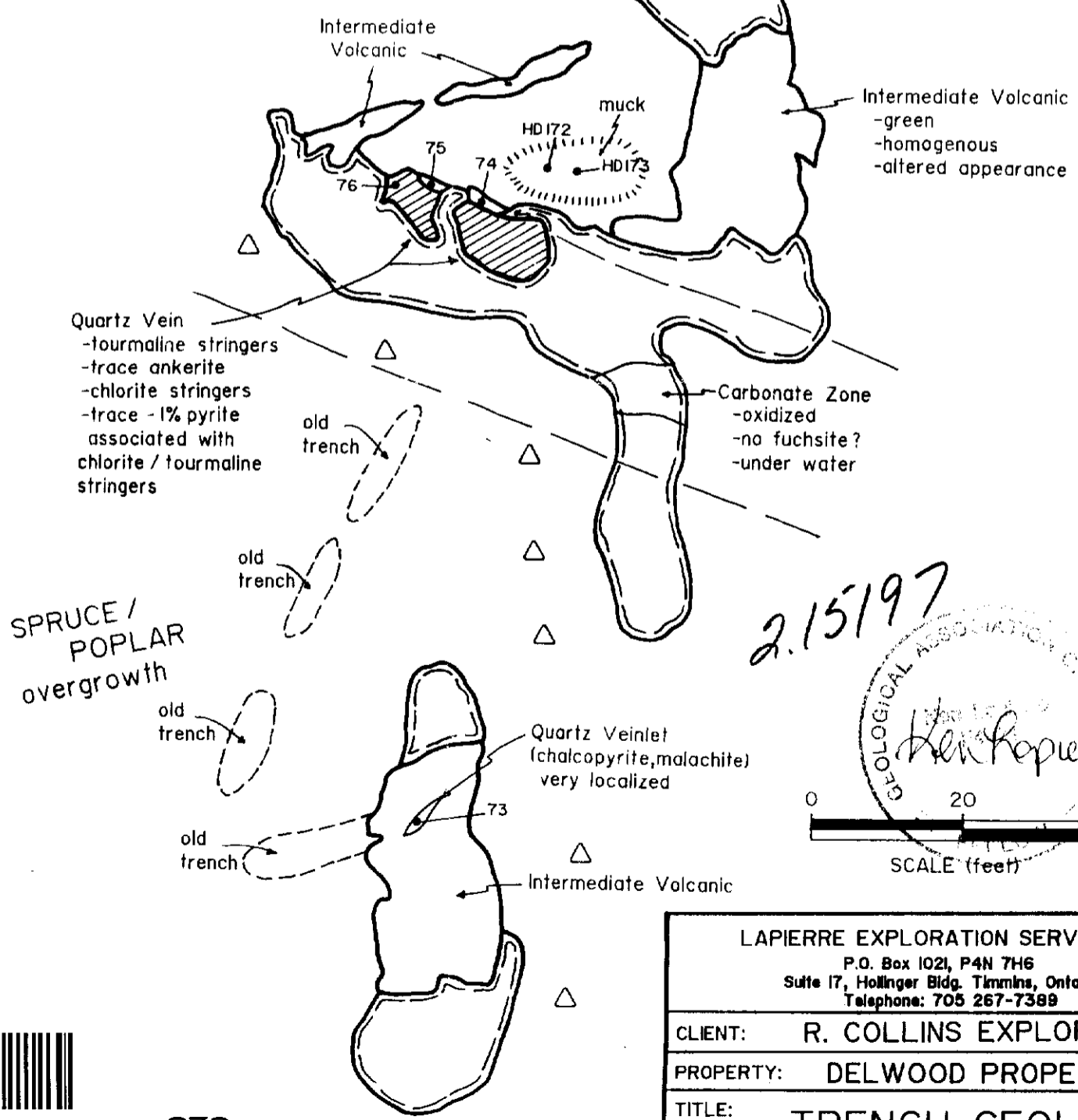
42A06NE8900 2.15197 DELORO

25+00E 25+20E 25+40E 25+60E 25+80E 26+20E

19+80N  
19+60N  
19+40N  
19+20N  
19+00N  
18+80N  
18+60N  
18+40N  
18+20N  
18+00N  
17+80N  
17+60N  
17+40N  
17+20N

ASSAY			
Sample #	Auppb	Agppm	Cuppm
73	100	0.3	1060
74	118		
75	274		
76	49		
HD 172	623		
HD 173	<5		

TRENCH # 16



Map # 6

LAPIERRE EXPLORATION SERVICES INC. P.O. Box 1021, P4N 7H6 Suite 17, Hollinger Bldg. Timmins, Ontario Telephone: 705 267-7389	
CLIENT:	R. COLLINS EXPLORATION
PROPERTY:	DELWOOD PROPERTY
TITLE:	TRENCH GEOLOGY
DATE:	Nov. 1992
SCALE:	1"=20'
DRAWN:	P.G.
INTERP.:	K. Lapierre

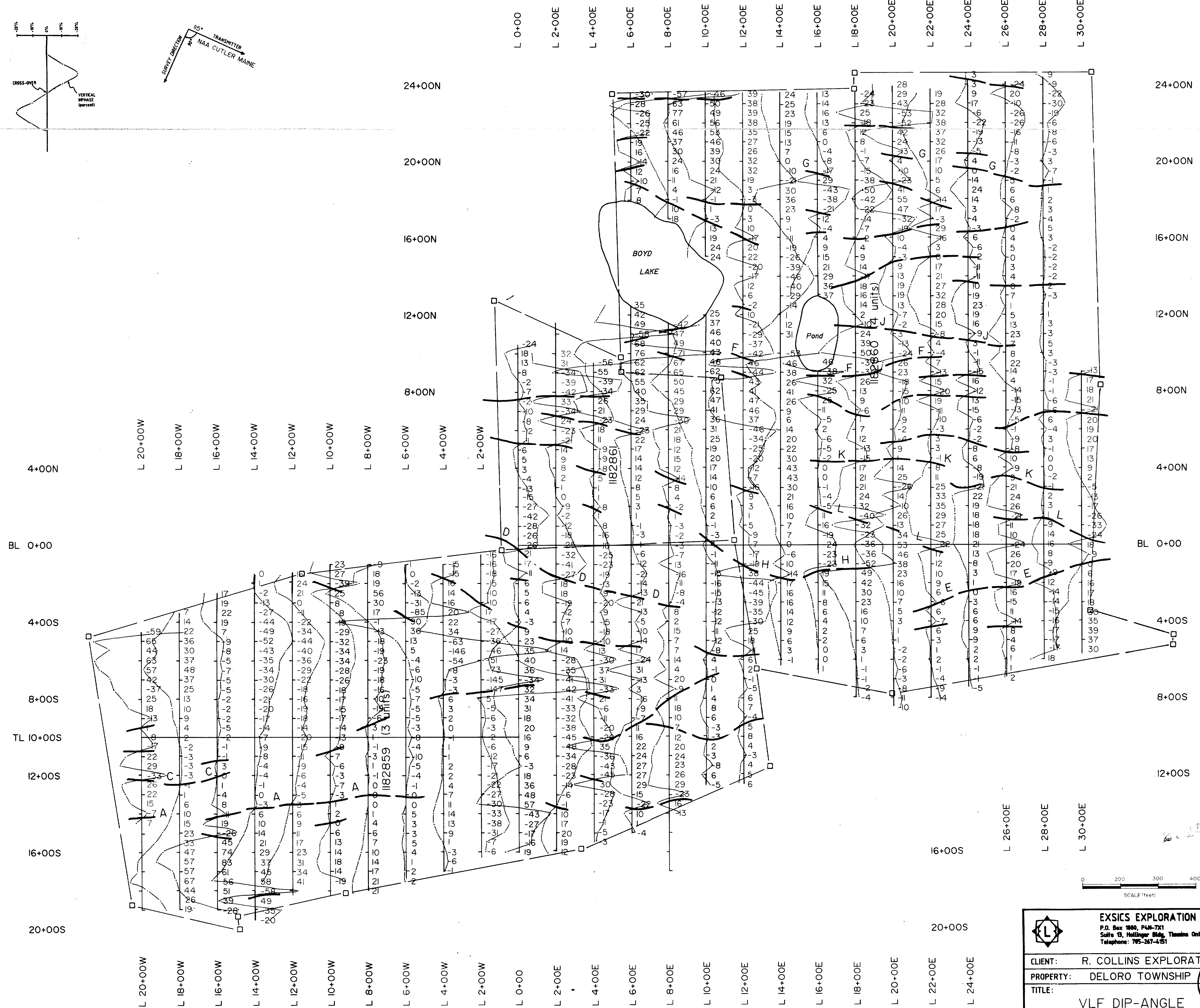
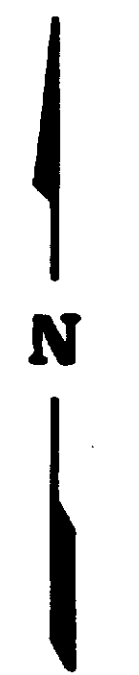
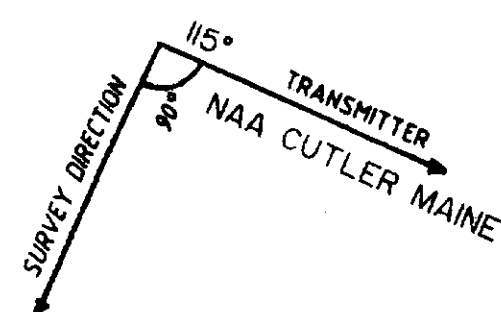
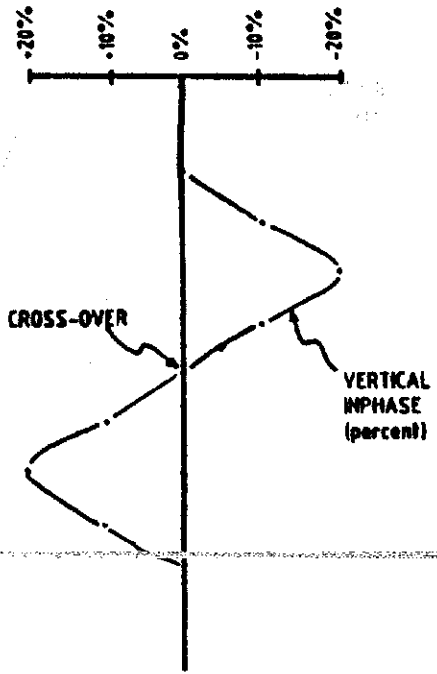


270


old trench

**LEGEND**

INSTRUMENT: EDA OMNI-PLUS  
 TRANSMITTER STATION: NAA CUTLER MAINE  
 FREQUENCY: 24.0 KHz  
 PARAMETERS MEASURED: Inphase Dip Angle  
 OPERATOR: D. Laforest  
 VERTICAL SCALE: 1cm=20%

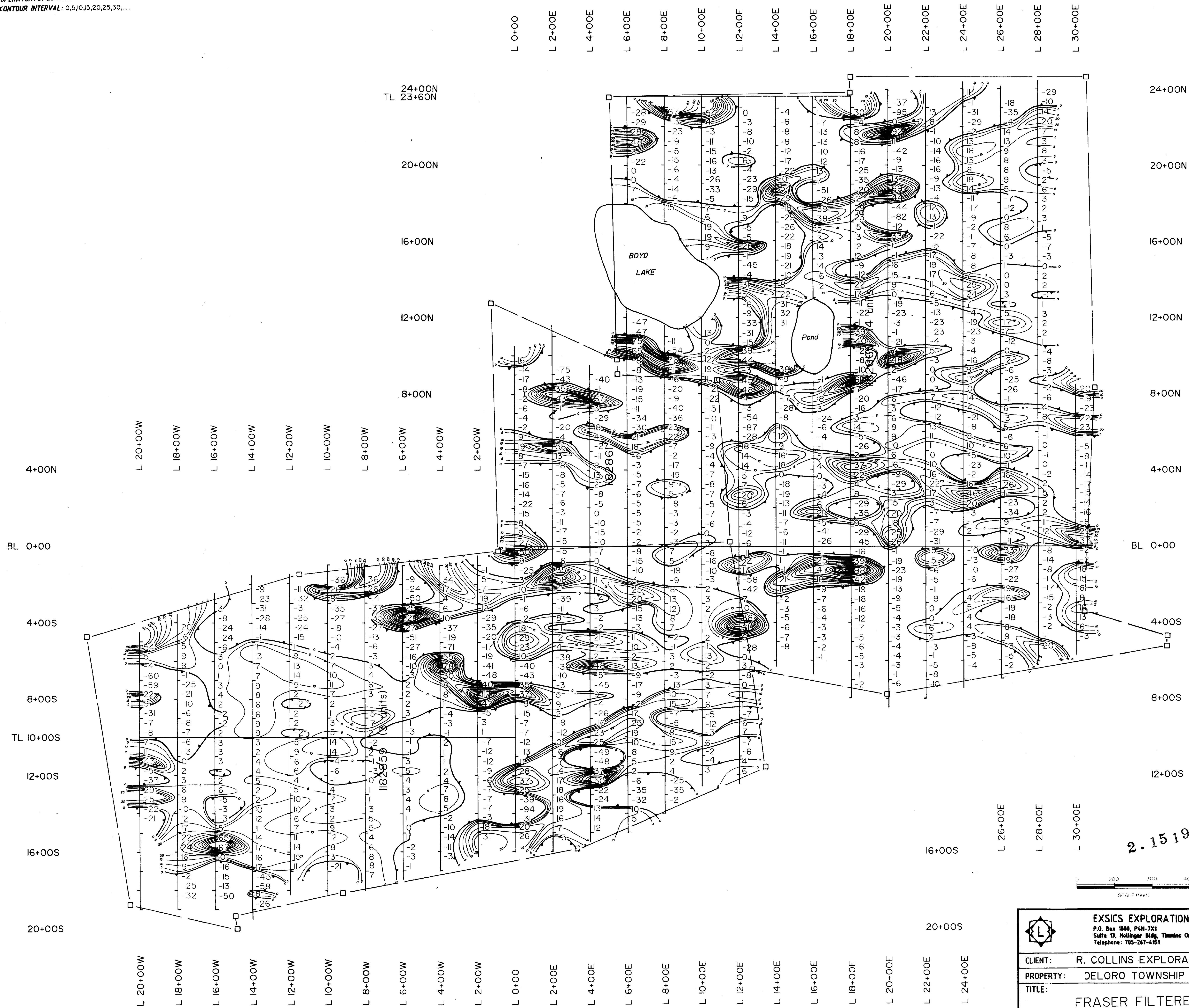


1991

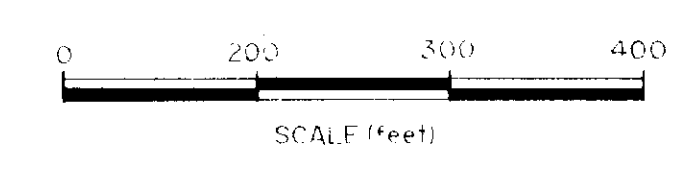
 <b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 795-267-4511		
CLIENT:	R. COLLINS EXPLORATION ASSOCIATION	
PROPERTY:	DELORO TOWNSHIP	
TITLE:	VLF DIP-ANGLE	
Date: Oct. 1992	Scale: 1"=200'	NTS:
Drawn: P.G.	Interp: J.C. Grant	Job No. EE-587

LEGEND

INSTRUMENT: EDA OMNI-PLUS  
TRANSMITTER STATION: NAA CUTLER MAINE  
FREQUENCY: 24.0 KHz  
VALUES FILTERED: INPHASE DIP-ANGLE  
OPERATOR: D. Laforest  
CONTOUR INTERVAL: 0,5,10,15,20,25,30,.....

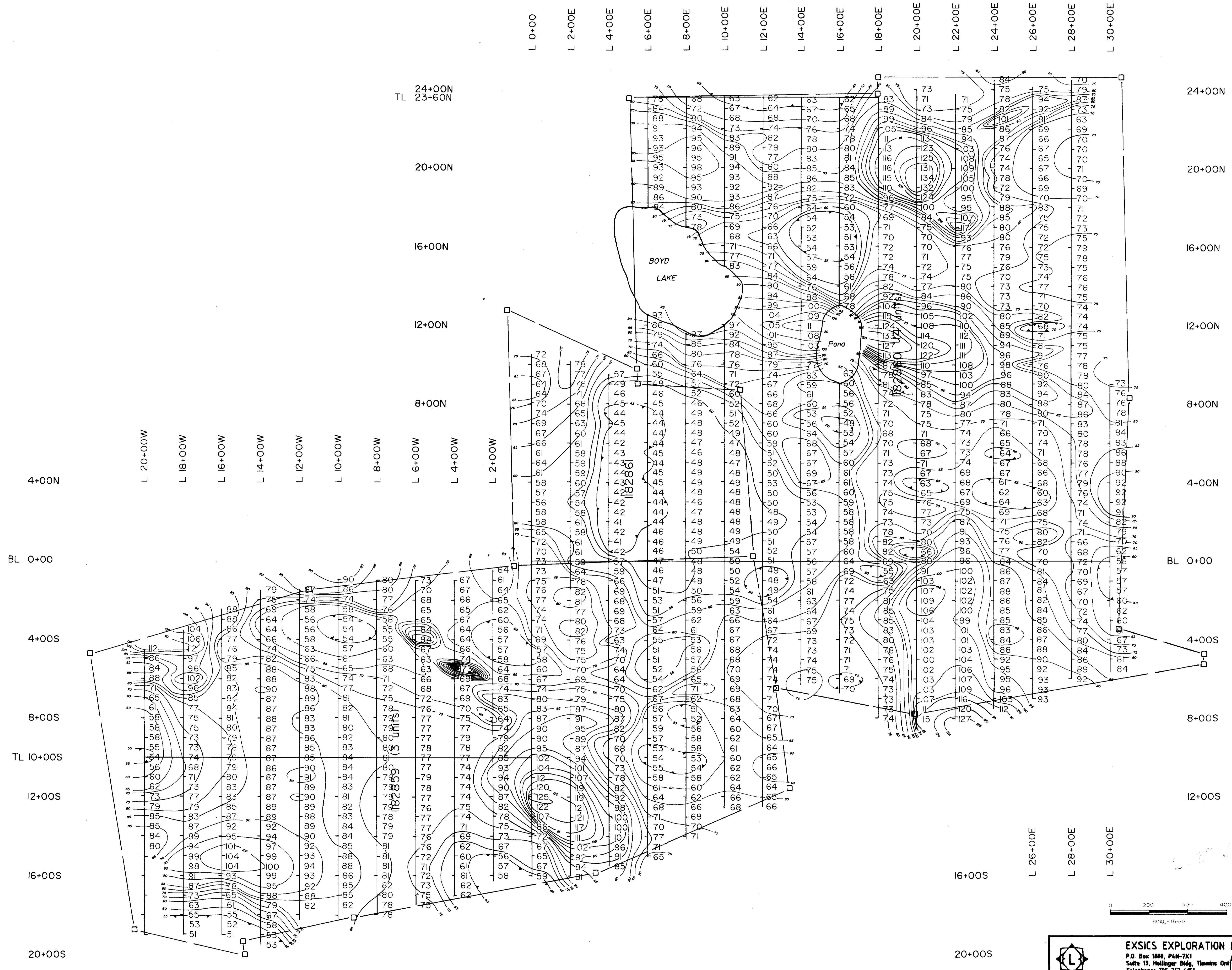
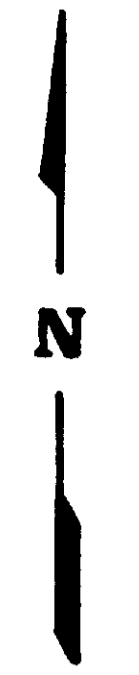


2.15.197



EXSICS EXPLORATION LTD. P.O. Box 1840, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont. Telephone: 705-267-4451		
CLIENT: R. COLLINS EXPLORATION		
PROPERTY: DELORO TOWNSHIP		
TITLE: FRASER FILTERED VLF		
Date: Oct. 1992	Scale: 1"=200'	NTS:
Drawn: P.G.	Interp: J.C. Grant	Job No. EE-587

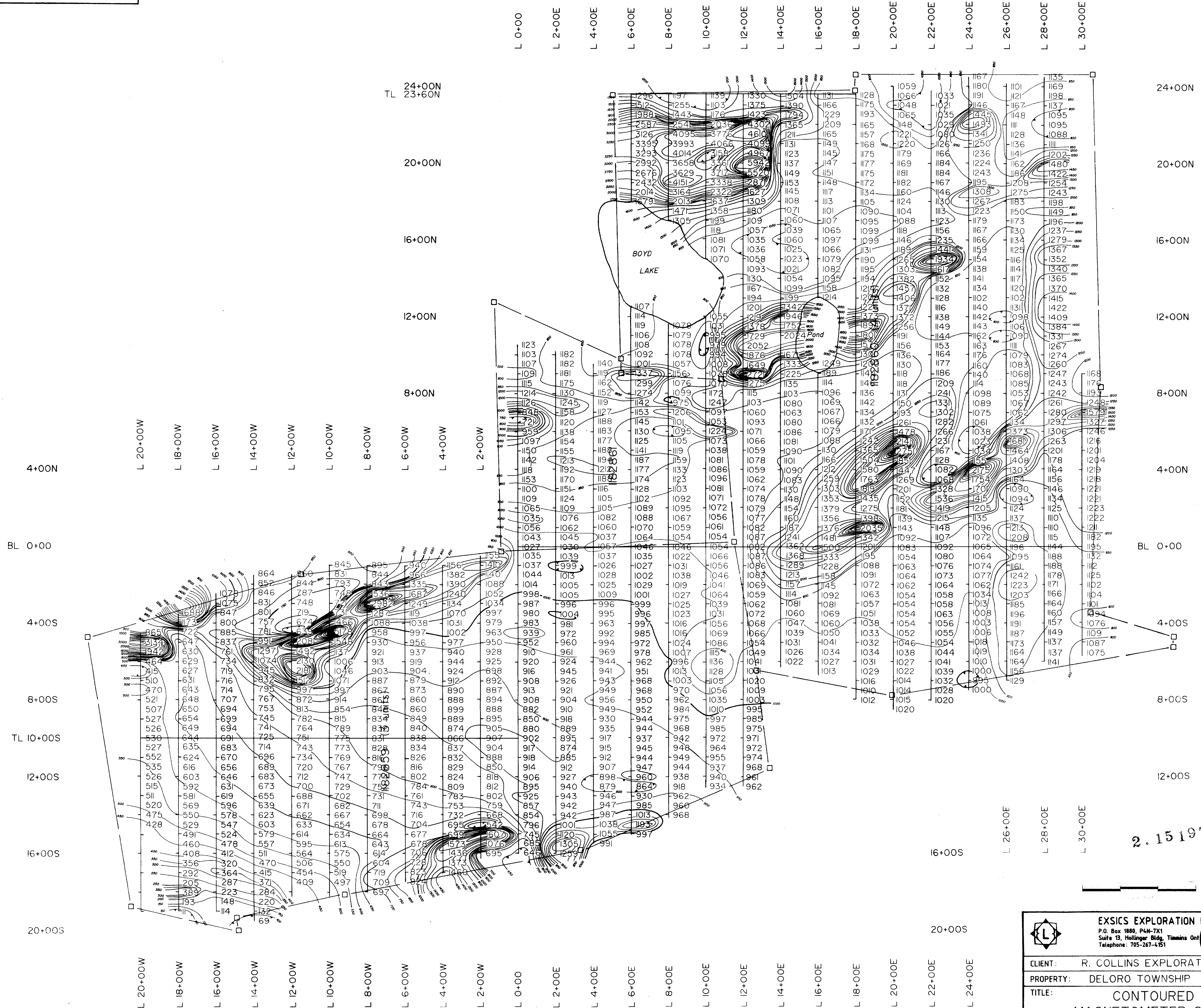
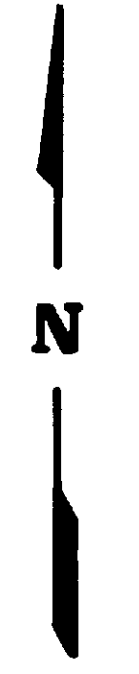




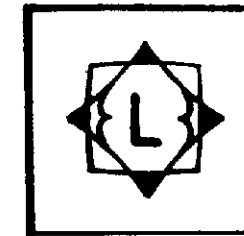
INSTRUMENT: EDA OMNI-PLUS  
 TRANSMITTER STATION: NAA CUTLER MAINE  
 FREQUENCY: 24.0 KHZ  
 PARAMETERS MEASURED: Total Field  
 OPERATOR: D. Laforest  
 CONTOUR INTERVAL: 0,5,10,15,20,25,30,...

<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg, Timmins Ont Telephone: 705-267-4751		
CLIENT:	R. COLLINS EXPLORATION	
PROPERTY:	DELORO TOWNSHIP	
TITLE:	CONTOURED VLF TOTAL FIELD (uncorrected)	
Date: Oct. 1992	Scale: 1"=200'	NTS:
Drawn: P.G.	Interp: J.C. Grant	Job No. EE-587

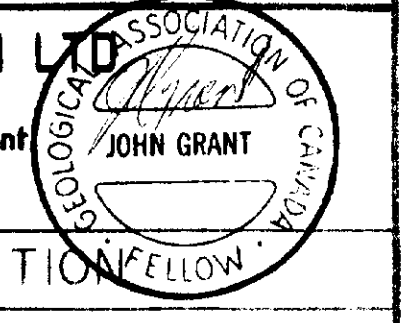
**LEGEND**  
 Instrument: EDA OMNI-IV  
 Parameters Measured: Earth's total magnetic field  
 Accuracy: +/- 1 nano-Teslas  
 Diurnal: Corrected by base station recorder  
 Contour Interval: 0.50, 1.00, 5.00, 20.00, 25.00, ...  
 Reference Field: 58,500  
 Datum Subtracted: 57,500



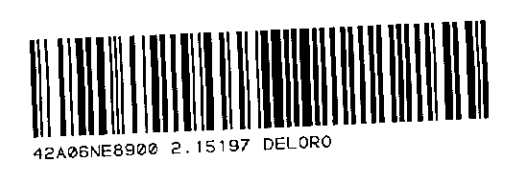
2.15.197



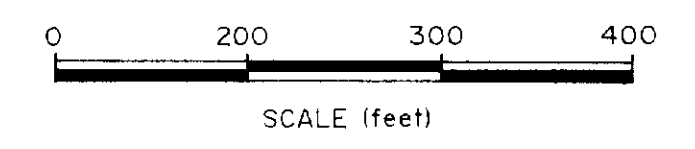
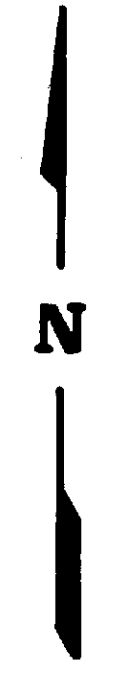
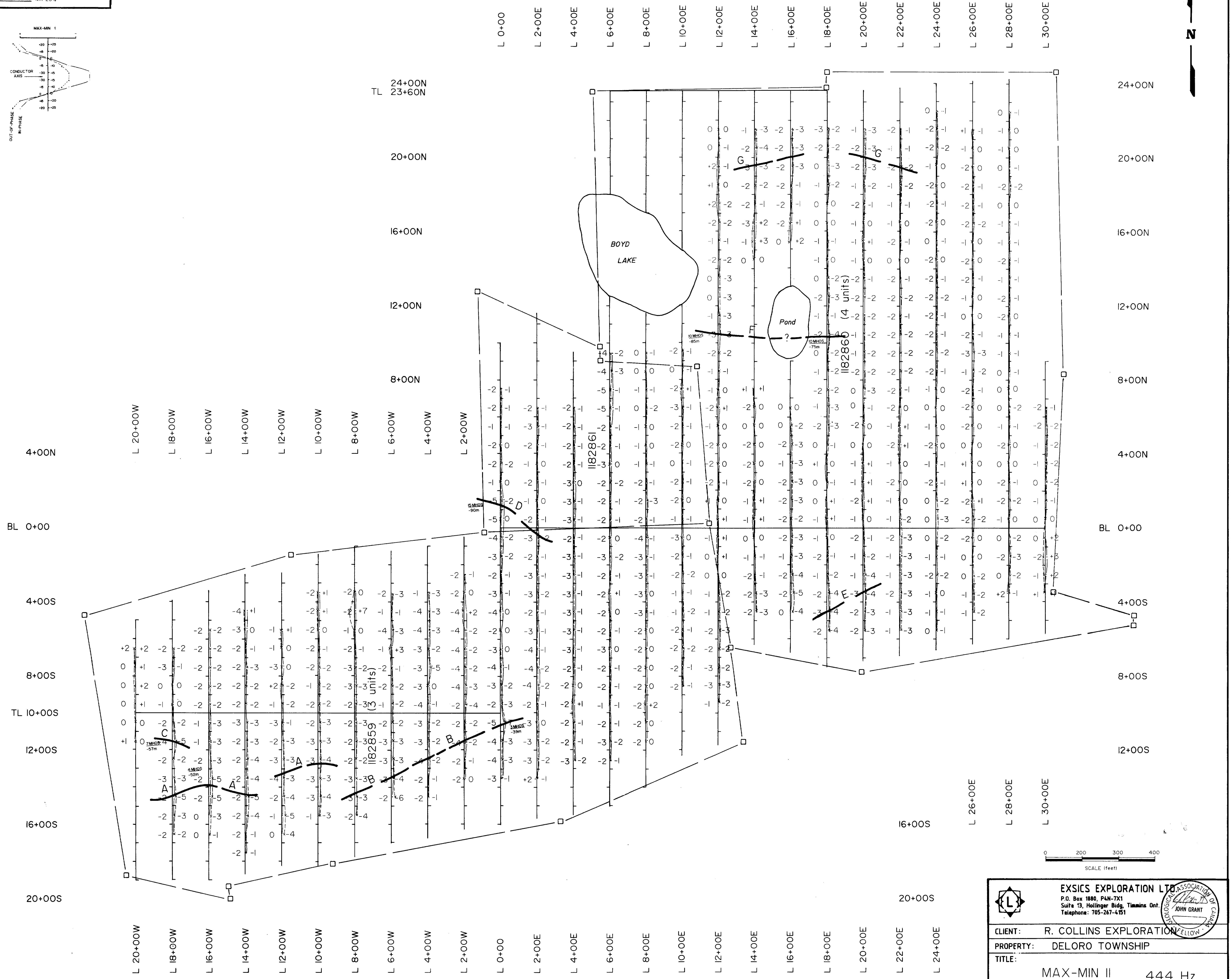
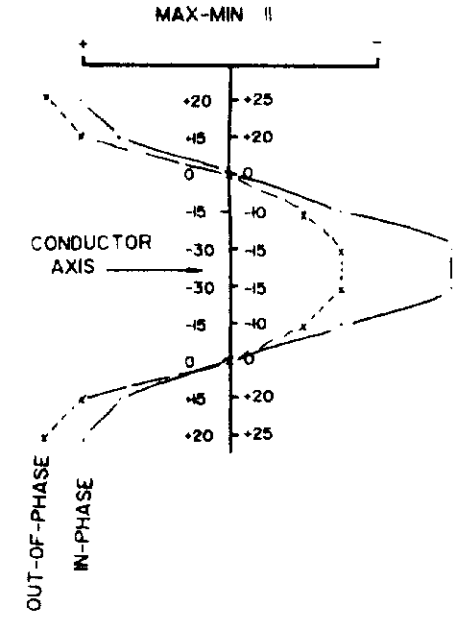
**EXSICS EXPLORATION LTD.**  
 P.O. Box 1880, P4N-7X1  
 Suite 13, Hollinger Bldg, Timmins Ont.  
 Telephone: 705-267-4151



CLIENT: R. COLLINS EXPLORATION		
PROPERTY: DELORO TOWNSHIP		
TITLE: CONTOURED MAGNETOMETER SURVEY		
Date: Oct. 1992	Scale: 1"=200'	NTS.
Drawn: P.C.	Interp: J.C. Grant	Job No EE-587



**LEGEND**  
 INSTRUMENT: Apex Parametrics Max-Min II  
 NOTE: Maximum Coupled, Horizontal Loop Survey  
 PARAMETERS MEASURED: In-phase (%)  
 FREQUENCY: 444 Hz  
 CONDUCTOR SEPARATION: 500'  
 OPERATOR: D. Ladroest  
 PROFILE SCALE: 1cm=20%

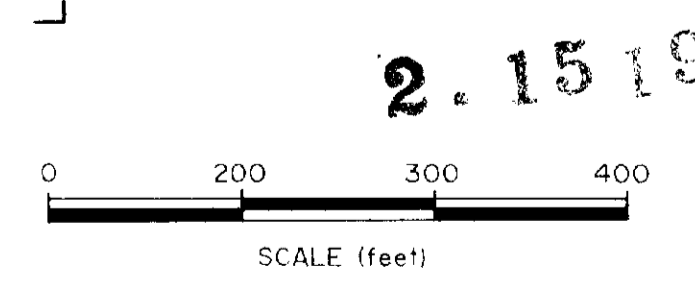
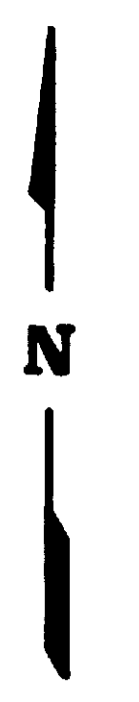
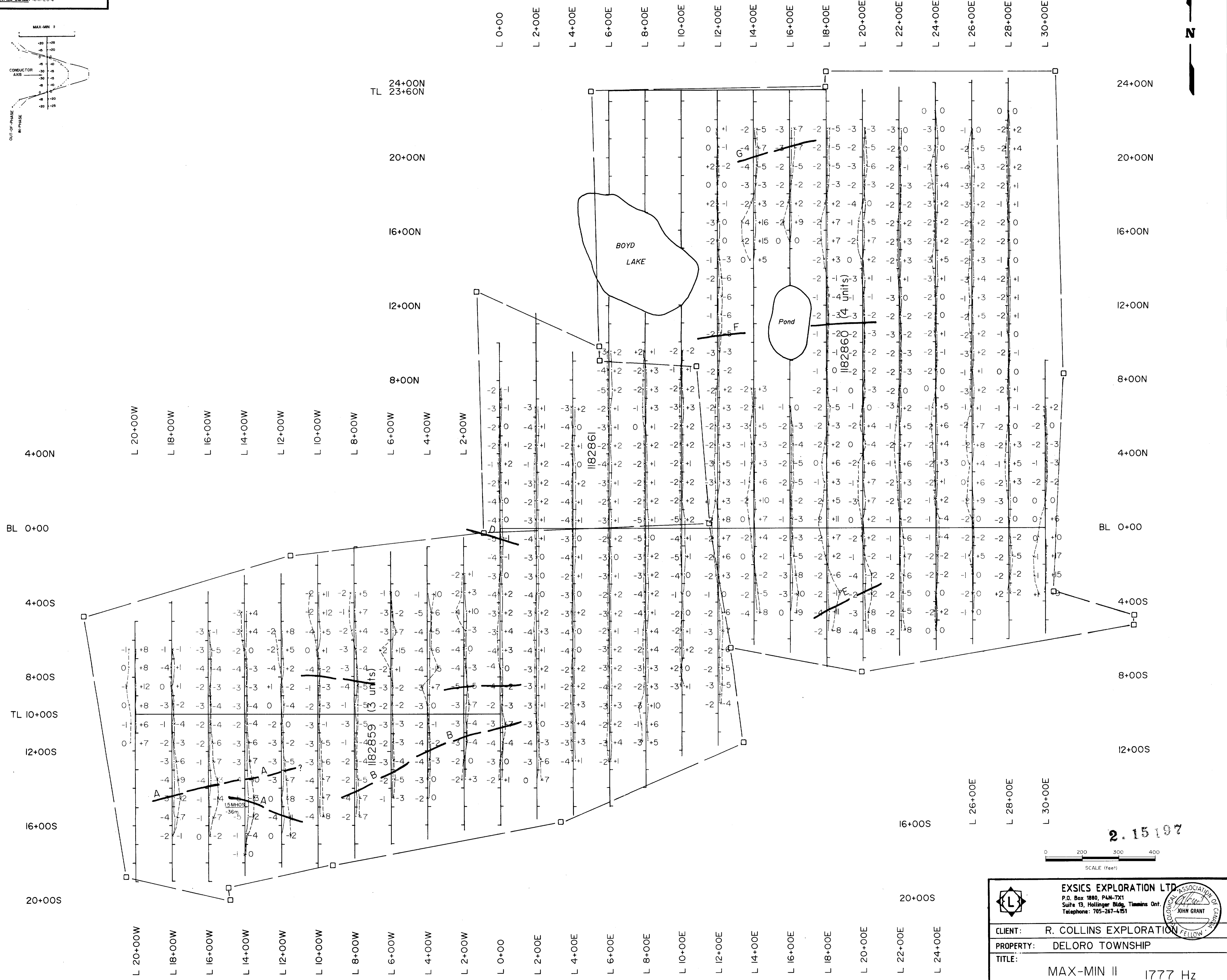
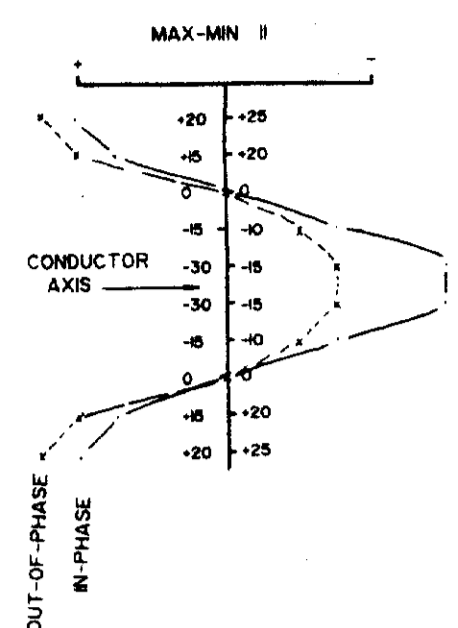


CLIENT: R. COLLINS EXPLORATION		
PROPERTY: DELORO TOWNSHIP		
TITLE: MAX-MIN II 444 Hz		
Date: Oct. 1992	Scale: 1"=200'	NTS:
Drawn: P.G.	Interp: J.C. Grant	Job No. EE-587



**LEGEND**

INSTRUMENT: Apex Parametrics Max-Min II  
 MODEL: Maximum Coupled, Horizontal Loop Survey  
 PARAMETERS MEASURED: In-phase (%), Out of phase (%)  
 FREQUENCY: 1777 Hz  
 CONDUCTOR SEPARATION: 500'  
 OPERATOR: D. Laforest  
 PROFILE SCALE: 1cm=20'



2.15.1997

<b>EXSICS EXPLORATION LTD.</b> P.O. Box 1880, P4N-7X1 Suite 13, Hollinger Bldg. Timmins Ont. Telephone: 705-267-4151		
CLIENT:	R. COLLINS EXPLORATION	
PROPERTY:	DELORO TOWNSHIP	
TITLE:	MAX-MIN II 1777 Hz	
Date:	Oct. 1992	Scale: 1"=200'
Drawn:	P.G.	Interp: J.C. Grant
		NTS: Job No. EE-587

