CANADIAN EXPLORATION SERVICES LTD
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WALLBRIDGE MINING COMPANY LIMITED

# MAX-MIN HLEM Survey Over the PELE PROPERTY

# Harty Township, Ontario

C Jason Ploeger, B.Sc, P.Geo
April 3, 2014

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## LIST OF TABLES AND FIGURES

# 1. SURVEY DETAILS

## 1.1 PROJECT NAME

This project is known as the **Pele Property**.

## 1.2 CLIENT

Wallbridge Mining Company Limited

129 Fielding Road
Lively, Ontario
P3Y 1L7

## 1.3 LOCATION

The Pele Property is located approximately 20 kilometers northwest of Chelmsford, Ontario. The grid area is located in Harty Township and covers a portion of mining claim 3018771, within the Sudbury Mining Division.

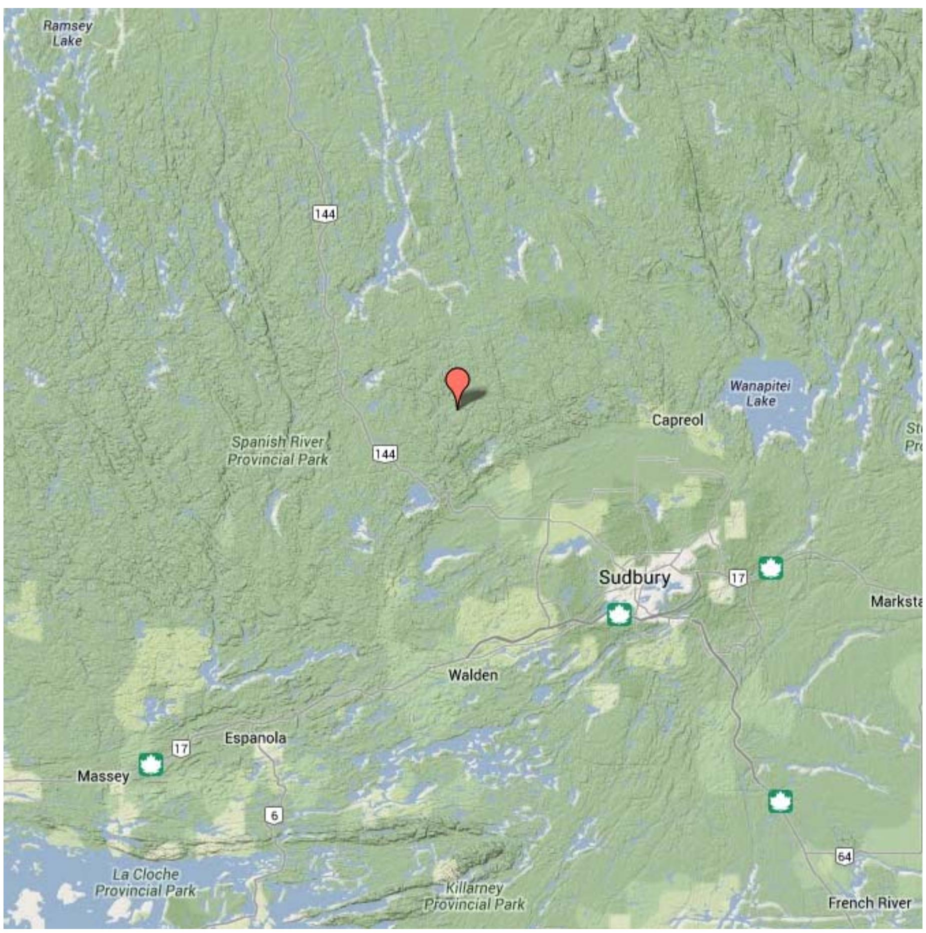



***Figure 1: Location of Pele Property***

### 1.4 Access

Access to the property was via a snowmachine. A series of forestry access roads was used extending north from the community of Levack, Ontario.

### 1.5 Survey Grid

The grids were established prior to survey execution and consisted of a total of 2.2 kilometers of grid lines. The survey lines were spaced at 50 meters and stations were picketed at 25m intervals with the baseline running at 87°N for a total of 200 meters.

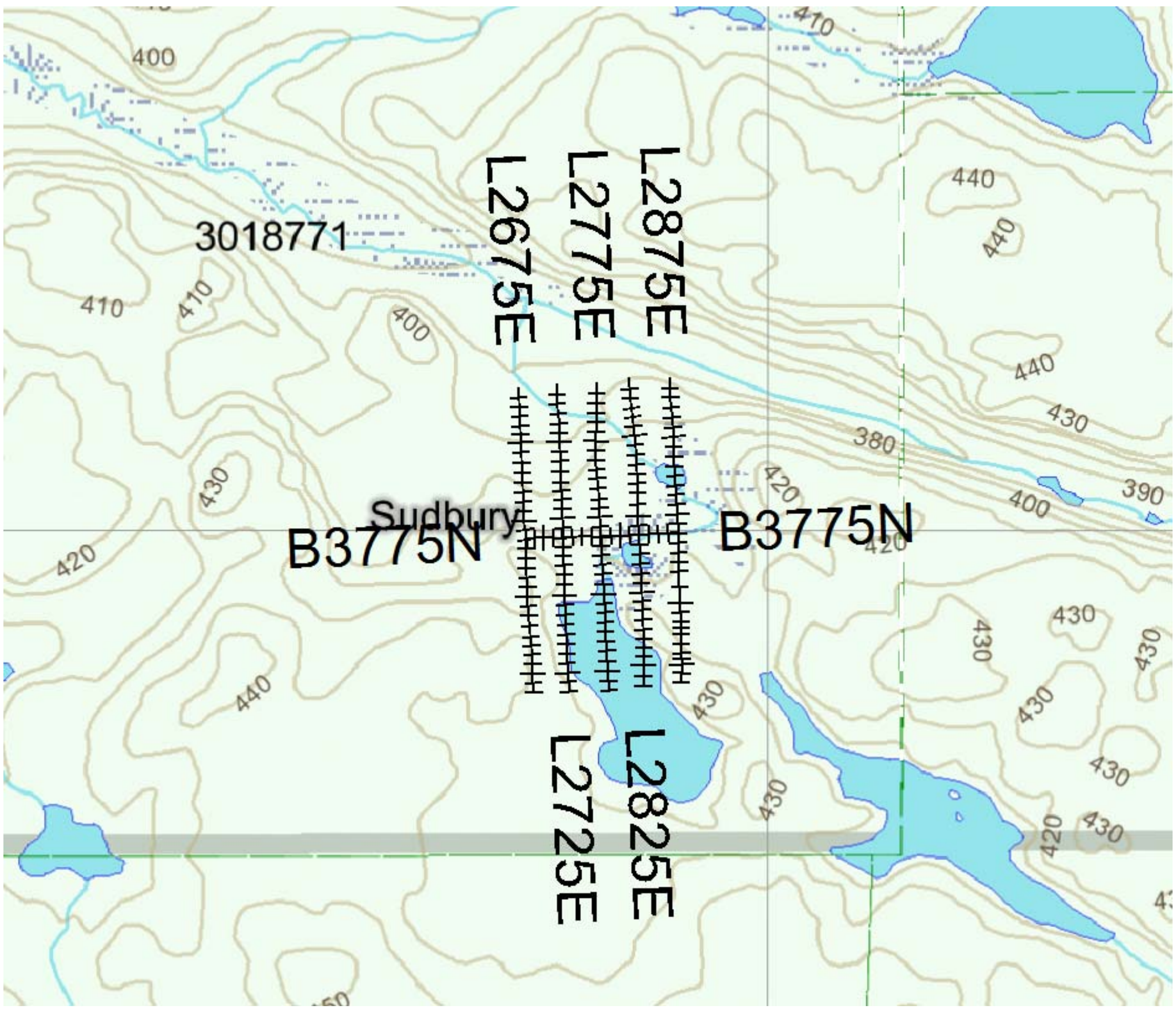



***Figure 2: Claim Map with Pele Property***

## 2. SURVEY WORK UNDERTAKEN

### 2.1 Survey Log

| Date | Description | Line | Min Extent | Max Extent | Total Survey (m) |
|---|---|---|---|---|---|
| March 19, 2014 | Locate survey lines and perform max-min survey. | 2675E | 3575N | 3975N | 400 |
| | | 2725E | 3575N | 3975N | 400 |
| | | 2775E | 3575N | 3975N | 400 |
| | | 2825E | 3575N | 3975N | 400 |
| | | 2875E | 3575N | 3975N | 400 |

***Table 1: Survey Log***

### 2.2 Personnel

Bruce Lavalley of Britt, Ontario, operated the MaxMin receiver and Bill Bonney of Kirkland Lake, Ontario, operated the MaxMin transmitter.

### 2.3 Survey Specifications

The survey was conducted with an APEX PARAMETRICS MAXMIN II. Frequencies 222Hz, 444Hz, 888Hz, 1777Hz and 3555Hz were used with a 200m coil separation. A Suunto PM-5 clinometer was used to measure slopes between picketed stations. These slopes were averaged over 200m to determine the correct tilt readings.

A total of 2 line kilometers of MaxMin was read on the Pele Property on March 19$^{th}$, 2014. This consisted of a total of 160 samples taken in 222Hz, 444Hz, 888Hz, 1777Hz and 3555Hz at a 12.5m sample interval.

## 3. OVERVIEW OF SURVEY RESULTS

### 3.1 SUMMARY INTERPRETATION

Within the area, it was noted that there was a low frequency noise. This was more apparent in frequency 222Hz and occasionally crept into frequency 444Hz. When this noise was noted, many repeats were taken until two back to back readings repeated themselves. Generally, the higher frequencies were stable once the initial reading was taken.

The topography was difficult on this grid. This includes steep inclines and sidehills throughout the grid. Care was taken to keep the coil and receiver coaxial at a properly corrected distance between transmitter and receiver. This being said there may be some minor topographical variances within the dataset.

Due to the length of the survey lines it is difficult to identify and characterize any possible anomaly. Lines 2825E and 2875E exhibit little variance indicating a very low probability of an unconstrained anomaly. Lines 2675E, 2725E and 2775E all exhibit an area of maximum in phase response with the in phase trending negative in either direction from the maximum. This indicates the possibility of an unconstrained response existing on either side of the baseline.

The strongest response occurs over the north end of line 2725E. This response is most likely centered near 3837.5N, however, due to its unconstrained nature is difficult to further characterize.

## APPENDIX A

### STATEMENT OF QUALIFICATIONS

I, C. Jason Ploeger, hereby declare that:

1. I am a professional geophysicist with residence in Larder Lake, Ontario and am presently employed as a Geophysicist and Geophysical Manager of Canadian Exploration Services Ltd. of Larder Lake, Ontario.

2. I am a Practicing Member of the Association of Professional Geoscientists, with membership number 2172.

3. I have Special Authorization number 270 by l'Ordre des Geologues du Quebec to practice geoscience in Quebec.

4. I graduated with a Bachelor of Science degree in geophysics from the University of Western Ontario, in London Ontario, in 1999.

5. I have practiced my profession continuously since graduation in Africa, Bulgaria, Canada, Mexico and Mongolia.

6. I am a member of the Ontario Prospectors Association, a Director of the Northern Prospectors Association and a member of the Society of Exploration Geophysicists.

7. I do not have nor expect an interest in the properties and securities of **WALLBRIDGE MINING COMPANY LIMITED**

8. I am responsible for the final processing and validation of the survey results and the compilation of the presentation of this report. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.

C. Jason Ploeger, P.Geo., B.Sc.
Geophysical Manager
Canadian Exploration Services Limited.

Larder Lake, ON
April 3, 2014

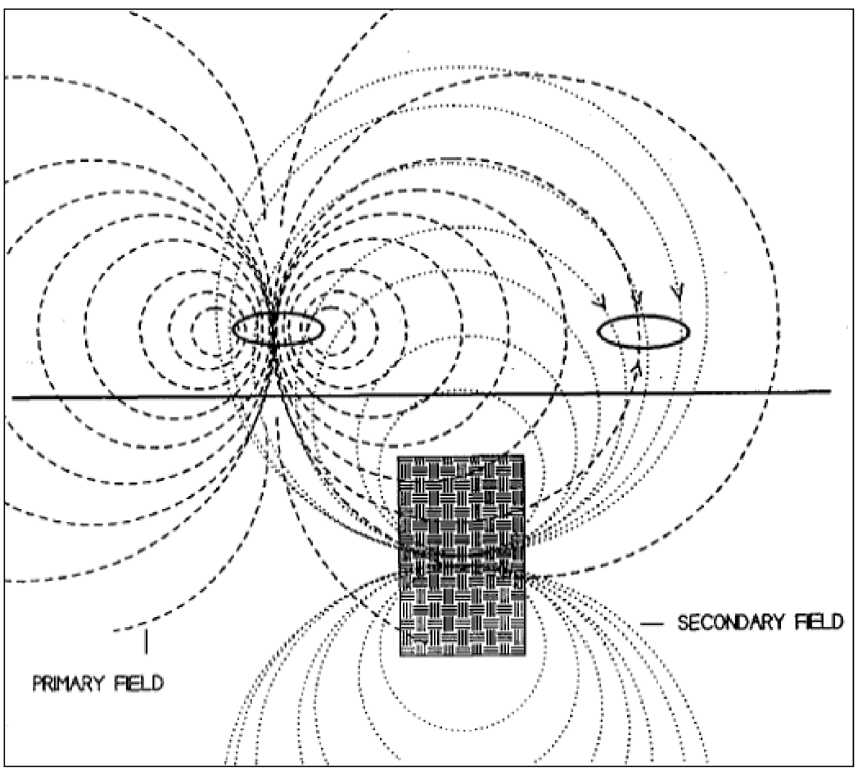
## APPENDIX B

### THEORETICAL BASIS AND SURVEY PROCEDURES

#### HLEM Electromagnetic

The HLEM method involves the use of a pair of separated horizontal coils (Figure MMI). Most commonly, the surveys are conducted in the frequency domain. In this method, a sine wave of variable frequency is sent through one of the coils to create a time-varying vertical magnetic dipole source. The second coil is a receiver which detects both the primary signal from the transmitting coil and a secondary signal created by magnetic induction in a conductive target in the earth.

The HLEM method requires that a sample of the transmitted signal be sent along a wire to the receiver where it is used to synchronize the phase of the receiver with the transmitter. This permits the receiver to remove the effect of the transmitter signal (primary field) and to split the remaining secondary field into two components. One phase with the primary field (in-phase component). The second component is the portion of the secondary field which lags the primary field by one quarter cycle (90' - quadrature component). The ratio of the in-phase to quadrature components is used to determine the electrical conductance of a target.




***MMI: HLEM source field***

HLEM instruments remove the primary filed from the signal to leave only the secondary field. By convention, a secondary field in the same direction as the primary field is recorded as positive while a secondary field in the opposite direction to the primary field is recorded as negative. HLEM data is commonly plotted as profiles with the reading plotted at the midpoint between the transmitter and receiver. The reason for this is that the response from a steeply dipping conductor, the most common target of this method, is strongest when the two coils straddle the conductor.

## APPENDIX C

### APEX PARAMETRICS MAXMIN II

### Specifications

Advanced spheric and powerline interference rejection results in faster and more accurate surveys, particularly at the larger coil separations.

The Maxmin Computer or MMC is offered for digital data processing, display, storage and transfer. The MMC displays and stores the inphase and quadrature readings, their standard deviations, and the corresponding apparent ground conductivity values. Rough terrain surveys are also simplified with the MMC.

Data interpretation and presentation programs are available for layered earth parametric soundings and discrete conductor surveys.

Frequencies
222, 444, 886, 1777, 3555Hz

Coil Separations
50, 100, 200 meters (selected with grid switch in receiver)

Modes of Operation
MAX 1: Horizontal loop or slingram— Transmitter and receiver coil planes horizontal and coplanar.
MAX 2: Vertical coplanar loop mode— Transmitter and receiver coil planes vertical and coplanar.
MIN 1: Perpendicular mode 1—Transmitter coil plane horizontal and receiver coil plane vertical.

MIN 2: Perpendicular mode 2—Transmitter coil plane vertical and receiver coil plane horizontal.

Parameters Measured

In-phase and quadrature components of the secondary magnetic field. Measures percent of primary field.

Readouts

Analog direct edgewise meter readouts for in-phase, quadrature and tilt. Additional digital LCD readouts provided in the optional MMC computer. Interfacing and controls are provided for ready plug-in of the MMC.

Ranges of Readouts

Switch activated analog in-phase and quadrature scales: 0±4%, 0±20% and 0±100%, and digital 0±199.9% autorange with optional MMC Analog tilt 0±75% and 0±99% grade with MMC.

Resolution

Analog in-phase and quadrature 0.1 to 1% of primary field, depending on scale used, digital 0.01% with autoranging MMC; tilt 1% grade.

Repeatability

0.01 to 1% of primary field typical, depending on frequency, coil separation and conditions.

Signal Filtering

Powerline comb filter, continuous spheric noise clipping, auto adjusting time constant, and more.

Warning Lights

Receiver signal and reference warning lights to indicate potential error conditions.

Survey Depth Penetration

From surface down to 1.5 times coil separations for large horizontal targets, and 0.75 times coil separation for large vertical targets are typical values.

Reference Cable:

Lightweight unshielded 4/2 conductor teflon cables for maximum operating temperature range and for minimum pulling friction.

Intercom

Voice communication link provided for operators via the reference cable.

Temperature Range:

-30 to +60 degrees Celsius, operating range.

Receiver Batteries
Four standard 9V - 0.6 Ah alkaline batteries. Life: 25 hours continuous duty, less in cold weather. Optional 1.2 Ah extended life lithium batteries available (recommended for very cold weather).

Transmitter Batteries
Standard rechargeable gel-type lead-acid 6V-26 Ah batteries (4 x 6V - 6.5 Ah) in nylon belt pack. Optional rechargeable long life 6V-28 Ah Nicd batteries (20 x 1.2V - 7 Ah) with Nicd chargers (best choice for cold climates).

Transmitter BatteryChargers
Lead acid battery charger: 7.3V @ 2.8A Nicd battery charger with 2.8 A @ 8V nominal output. Operation from 110-120 and 220-240VAC, 50-60Hz, and 12-15VDC supply

Receiver Weight
8Kg carrying weight (including the two ferrite cored antenna coils), 9Kg with MMC computer.

Transmitter Weight
16Kg carrying weight

Shipping Weight
60Kg plus weight of reference cables at 2.8Kg per 100 meters, plus optional items if any Shipped in two aluminum-lined field I shipping cases

## APPENDIX D

### LIST OF MAPS (IN MAP POCKET)

Posted Profiled Plan Map (1:2500)

1) WALLBRIDGE-PELE-MAXMIN-222
2) WALLBRIDGE-PELE-MAXMIN-444
3) WALLBRIDGE-PELE-MAXMIN-888
4) WALLBRIDGE-PELE-MAXMIN-1777
5) WALLBRIDGE-PELE-MAXMIN-3555

Grid Sketch on Claim Map (1:20000)

6) WALLBRIDGE-PELE-GRID

**TOTAL MAPS = 6**

**Wallbridge Mining Company**

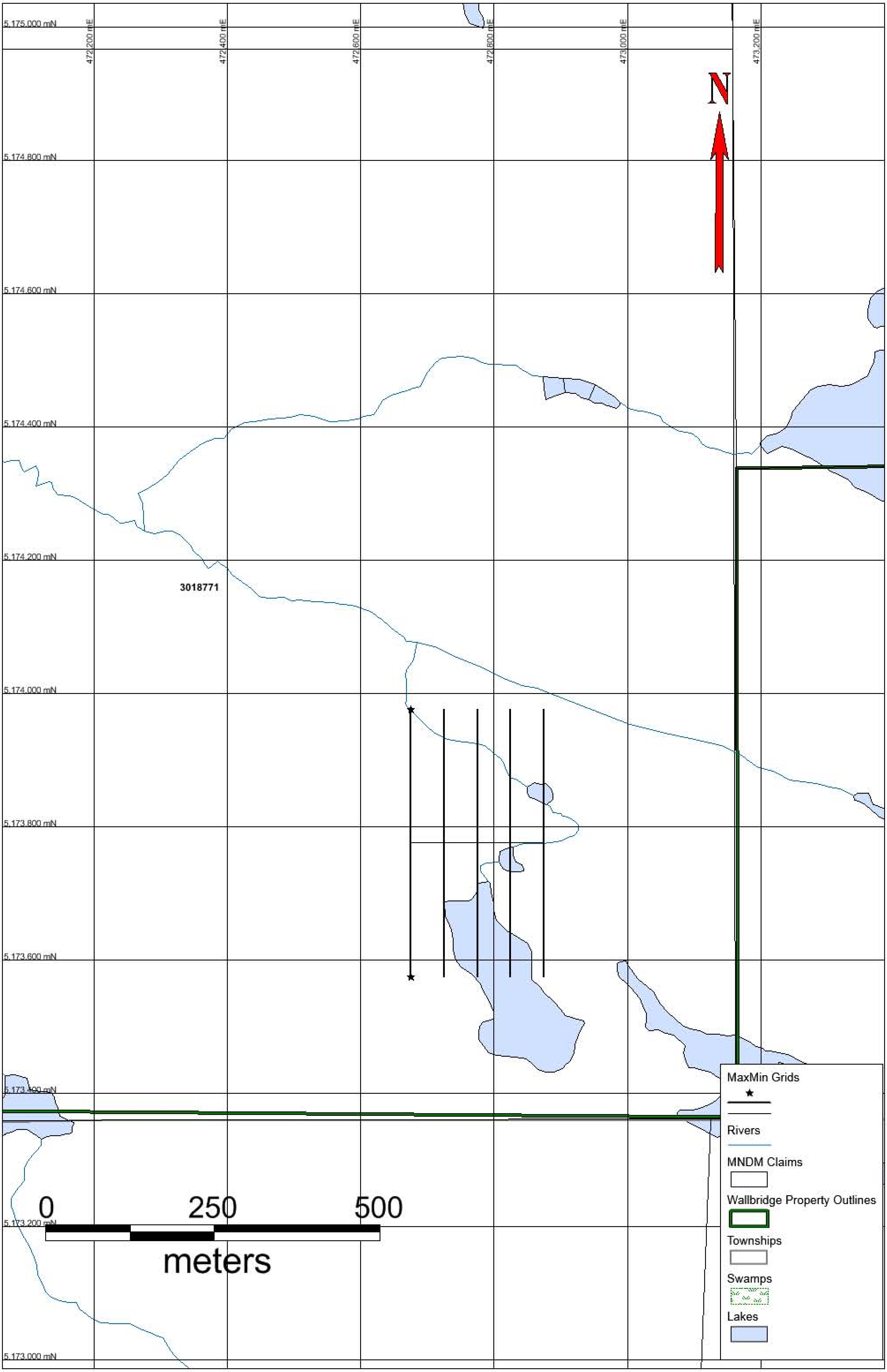
**-2014 Max-Min-**
**Pele Mountain JV Project**
**Sudbury**

**Explanation of Costs Incurred**

To complete the survey, Wallbridge Mining Company incurred costs in addition to that for the services provided by Canadian Exploration Services Ltd.

Wallbridge Mining contracted Daniel Gauthier Exploration Inc. out of Abitibi, Quebec to cut the 5.4 line kilometer grid.

Wallbridge employees Tom Johnson, Jesse Bagnell and Dave Coventry were responsible for supervising the contractors. Dave Smith and Natalie MacLean were responsible for planning the survey, sequestering, supervising and coordinating contractors, and review of the results. Peter Anderson was responsible for data preparation and management. Nick Wray was responsible for assembling the assessment report. Wallbridge's trucks and snowmobiles were used for the purpose of supervision and establishing access.



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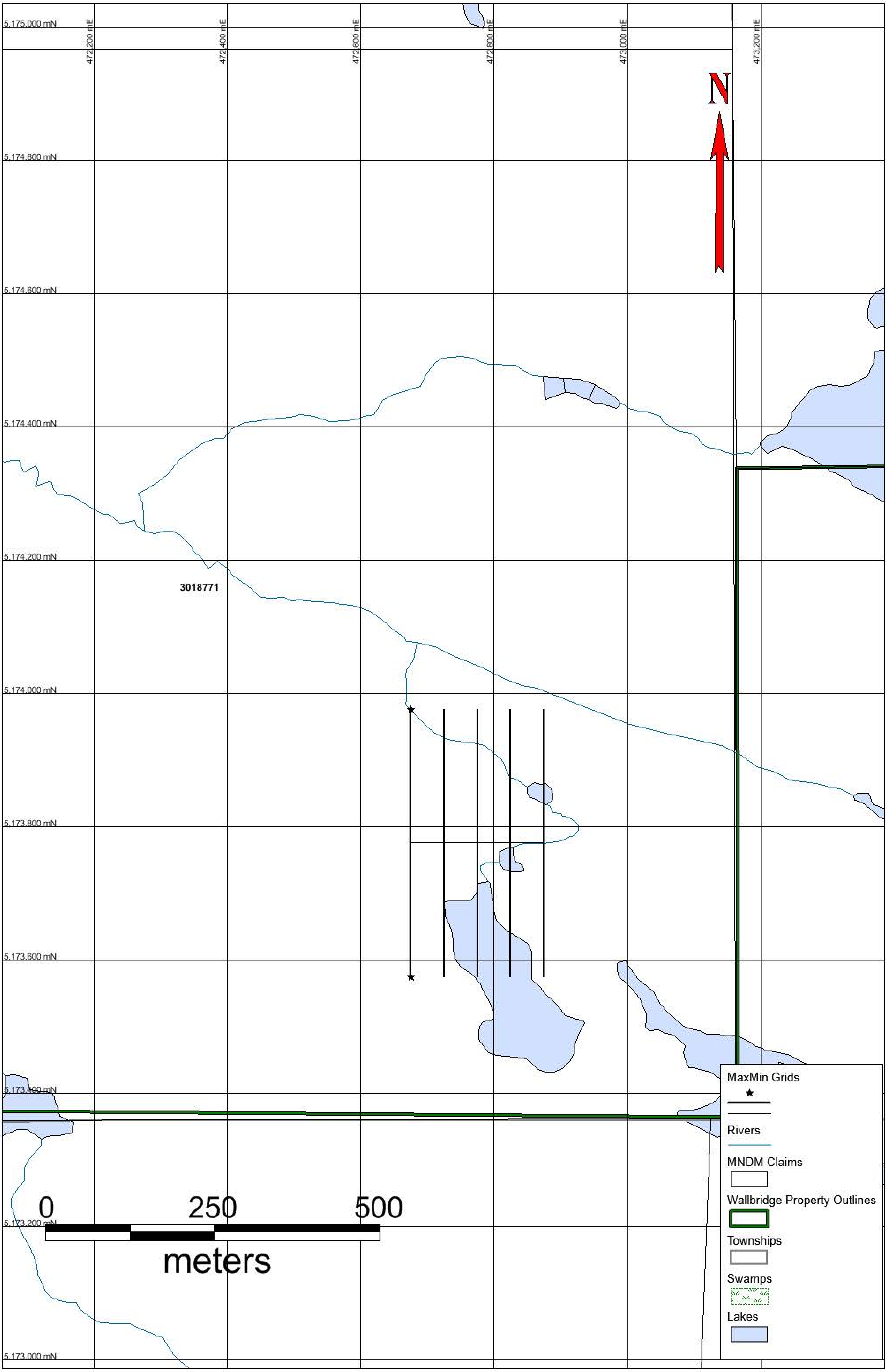
Rivers
MNDM Claims
Wallbridge Property Outlines
Townships
Swamps
Lakes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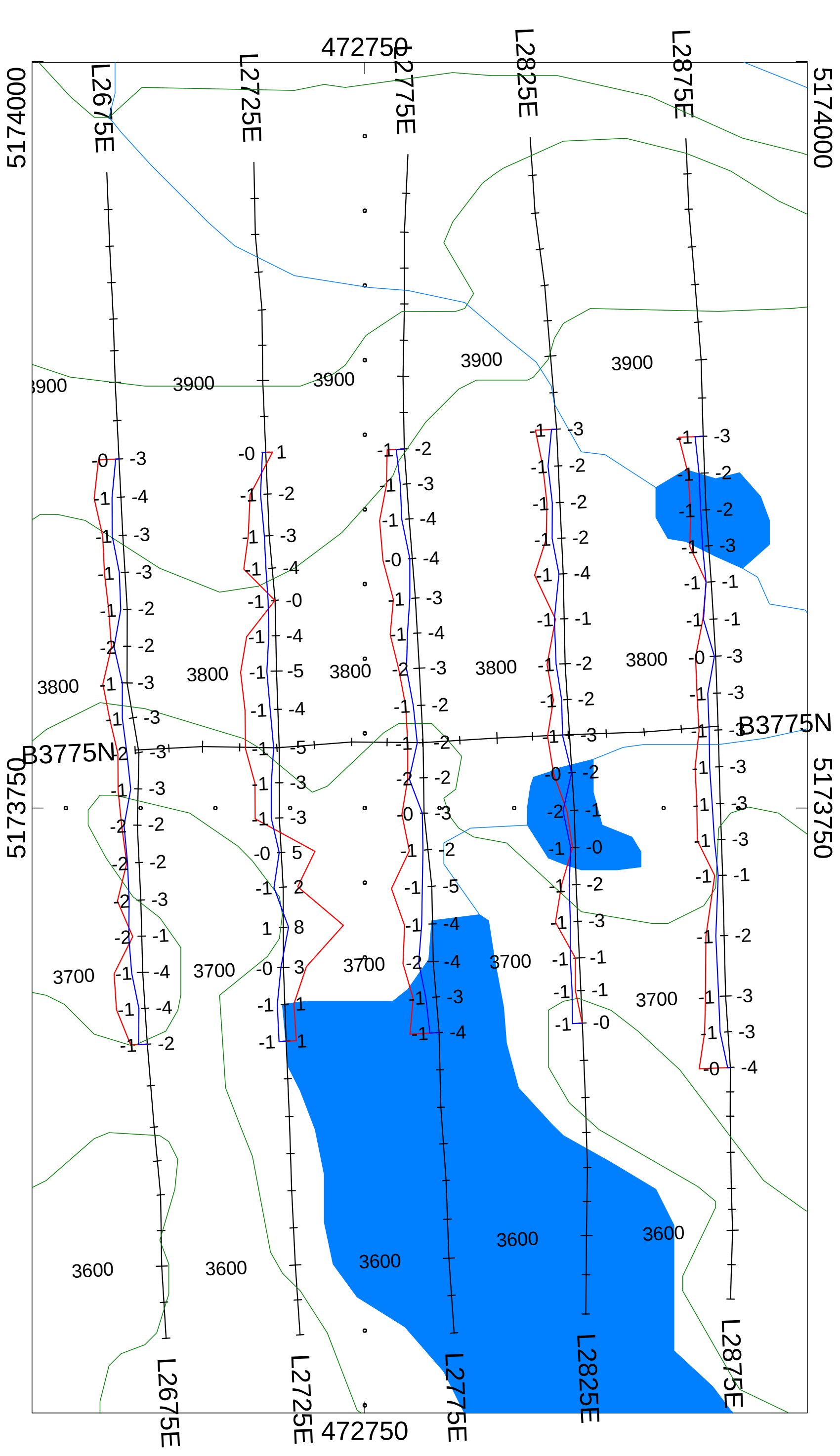


Scale 1:2500

25 0 25 50 75 100

(meters)

*NAD27 / UTM zone 17N*

WALLBRIDGE
MINING COMPANY LIMITED

**PELE PROPERTY**
**Harty Township, Ontario**

MAX-MIN PROFILED PLAN MAP
222 Hz - 200m Cable Seperation

In Phase: Posted Right/Bottom (Red)
Quadrature: Posted Left/Top (Blue)

Vertical Profile Scales: 1%/mm
Vertical Quadrature Profile Scales: 1%/mm

Station Seperation: 12.5 meters
Posting Level: 0

APEX PARAMETRICS MAXMIN II

Reciever Operated By: Bruce Lavalley
Transmitter Operated By: Bill Bonney
Processed by: C Jason Ploeger, P.Geo, B.Sc.
Map Drawn By: C Jason Ploeger, P.Geo, B.Sc.
March 2014

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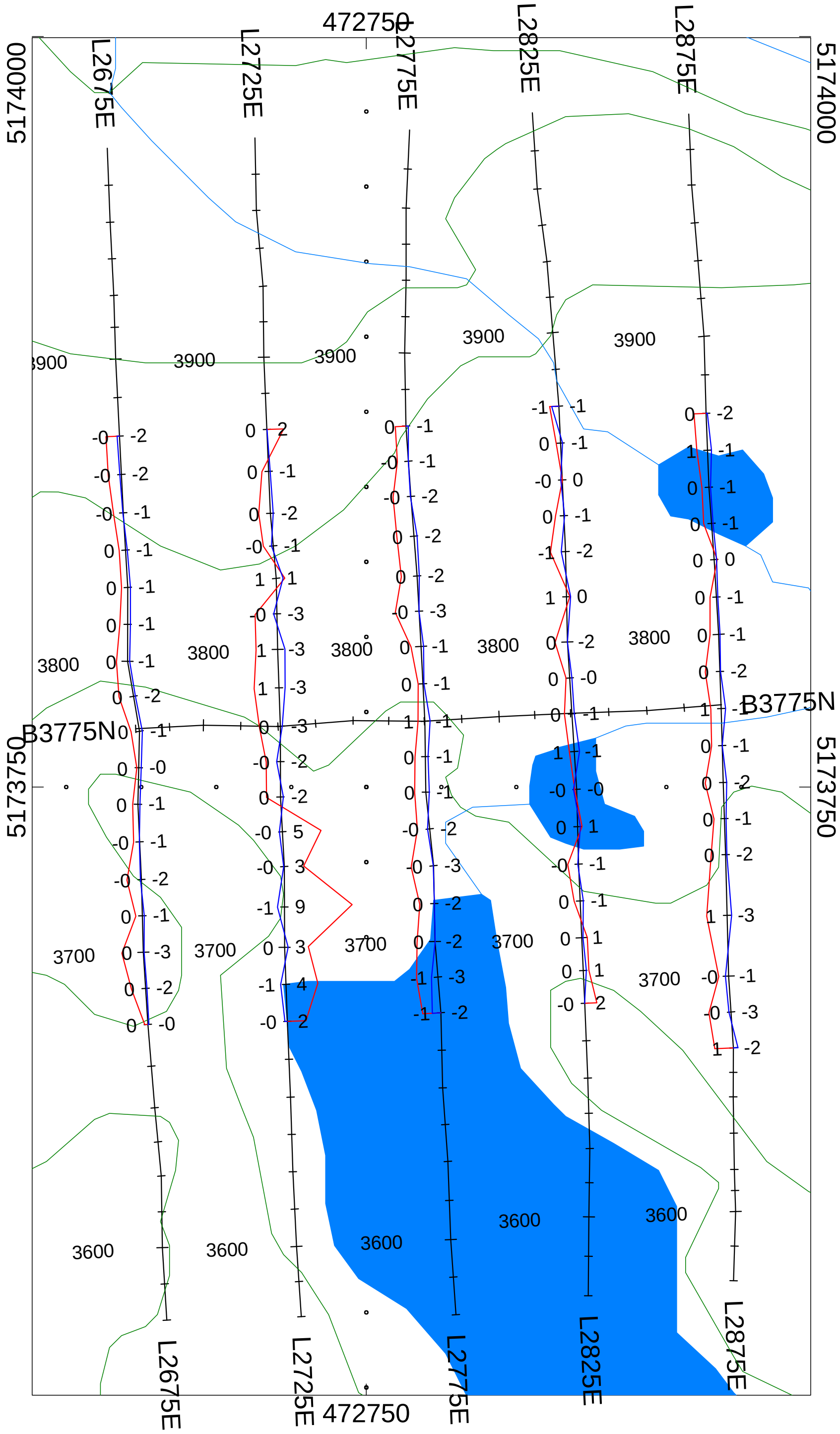
*Drawing: WALLBRIDGE-PELE-MAXMIN-222*




Scale 1:2500

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(meters)

*NAD27 / UTM zone 17N*

# PELE PROPERTY
## Harty Township, Ontario

MAX-MIN PROFILED PLAN MAP
444 Hz - 200m Cable Seperation

In Phase: Posted Right/Bottom (Red)
Quadrature: Posted Left/Top (Blue)

Vertical Profile Scales: 1%/mm
Vertical Quadrature Profile Scales: 1%/mm

Station Seperation: 12.5 meters
Posting Level: 0

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Reciever Operated By: Bruce Lavalley
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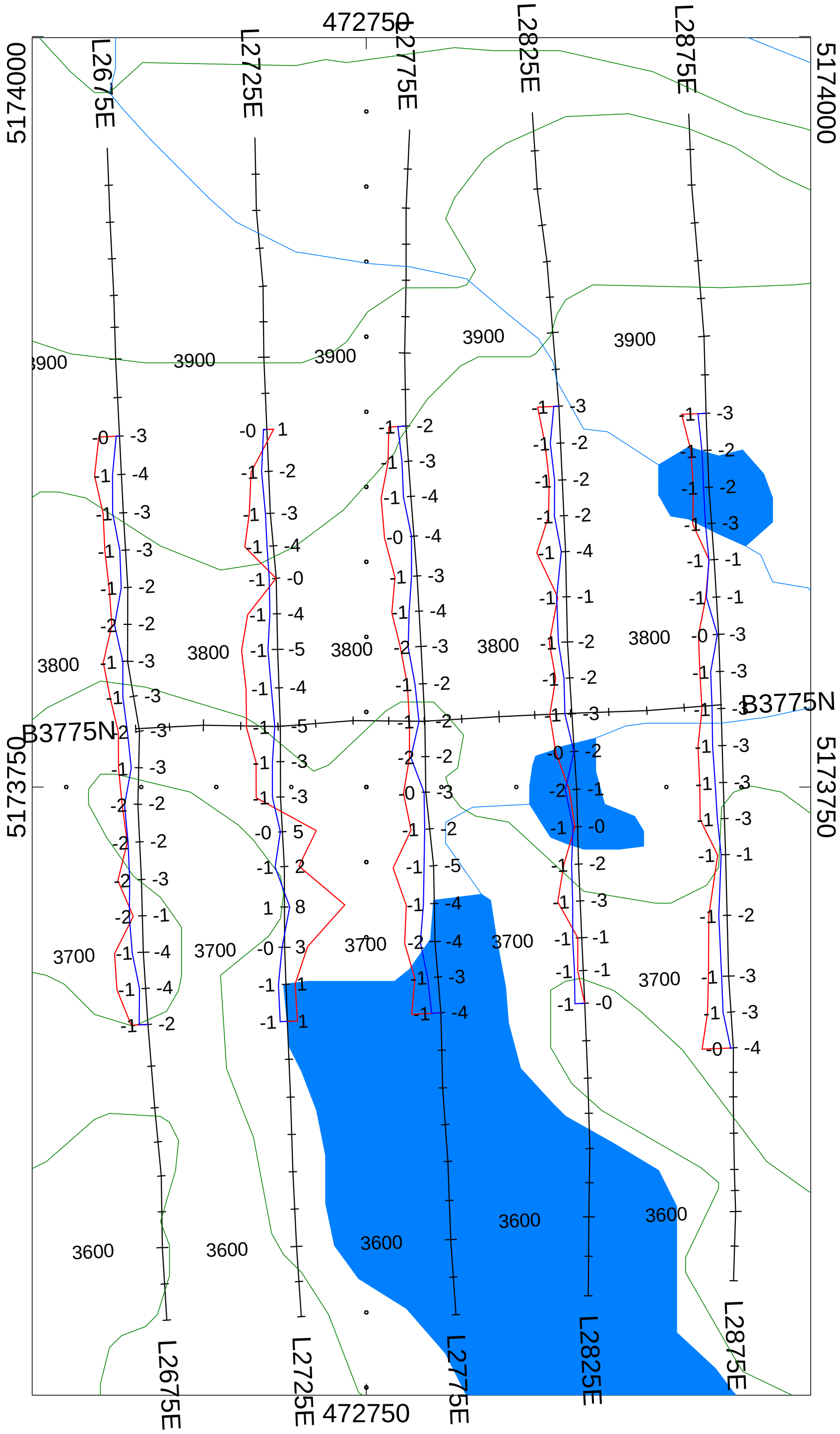
Map Drawn By: C Jason Ploeger, P.Geo, B.Sc.
March 2014

*Drawing: WALLBRIDGE-PELE-MAXMIN-444*




Scale 1:2500

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(meters)

*NAD27 / UTM zone 17N*

WALLBRIDGE
MINING COMPANY LIMITED

**PELE PROPERTY**
**Harty Township, Ontario**

MAX-MIN PROFILED PLAN MAP
222 Hz - 200m Cable Seperation

In Phase: Posted Right/Bottom (Red)
Quadrature: Posted Left/Top (Blue)

Vertical Profile Scales: 1%/mm
Vertical Quadrature Profile Scales: 1%/mm

Station Seperation: 12.5 meters
Posting Level: 0

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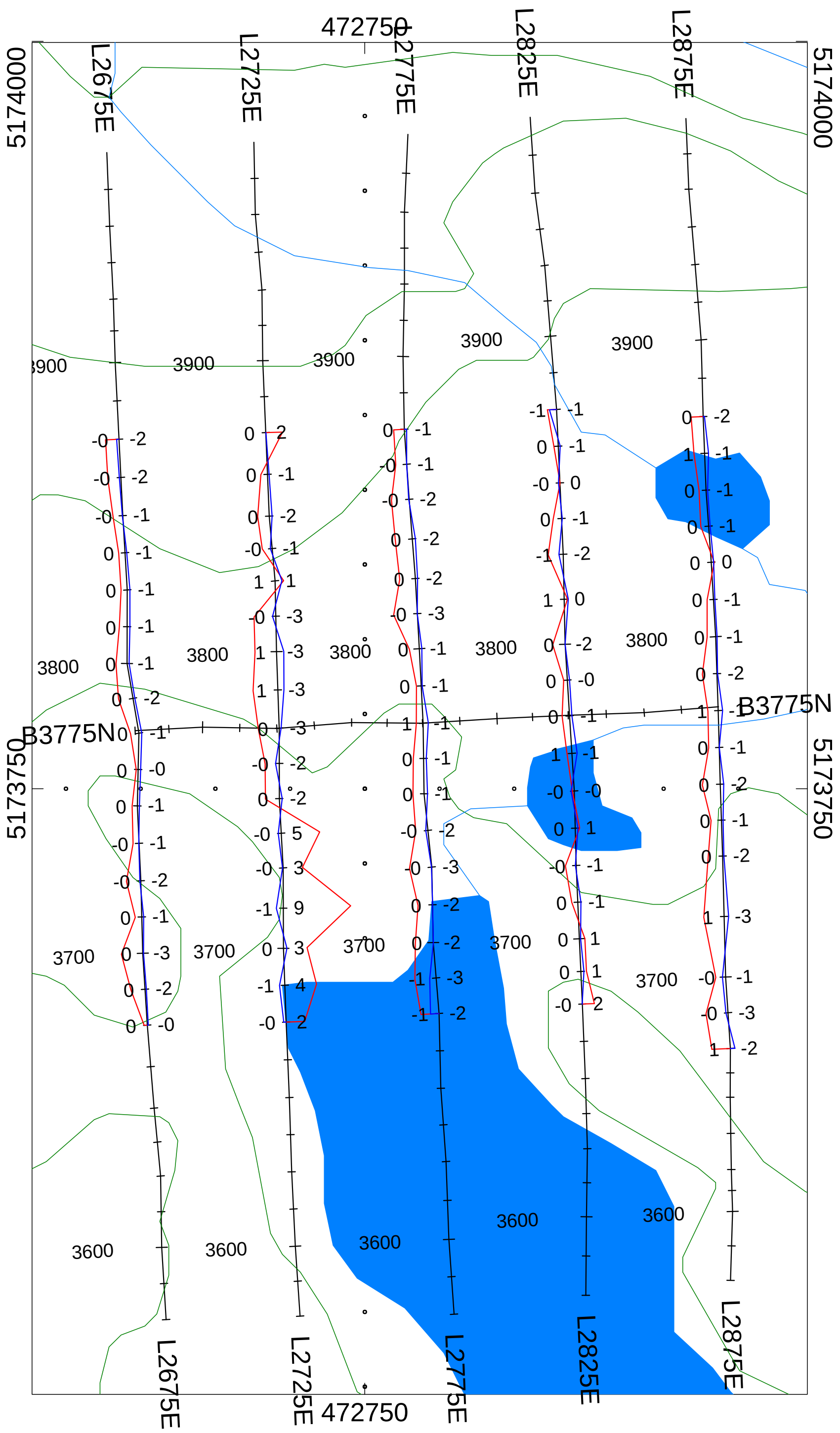
*Drawing: WALLBRIDGE-PELE-MAXMIN-222*




Scale 1:2500

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(meters)

*NAD27 / UTM zone 17N*

WALLBRIDGE
MINING COMPANY LIMITED

**PELE PROPERTY**
**Harty Township, Ontario**

MAX-MIN PROFILED PLAN MAP
444 Hz - 200m Cable Seperation

In Phase: Posted Right/Bottom (Red)
Quadrature: Posted Left/Top (Blue)

Vertical Profile Scales: 1%/mm
Vertical Quadrature Profile Scales: 1%/mm

Station Seperation: 12.5 meters
Posting Level: 0

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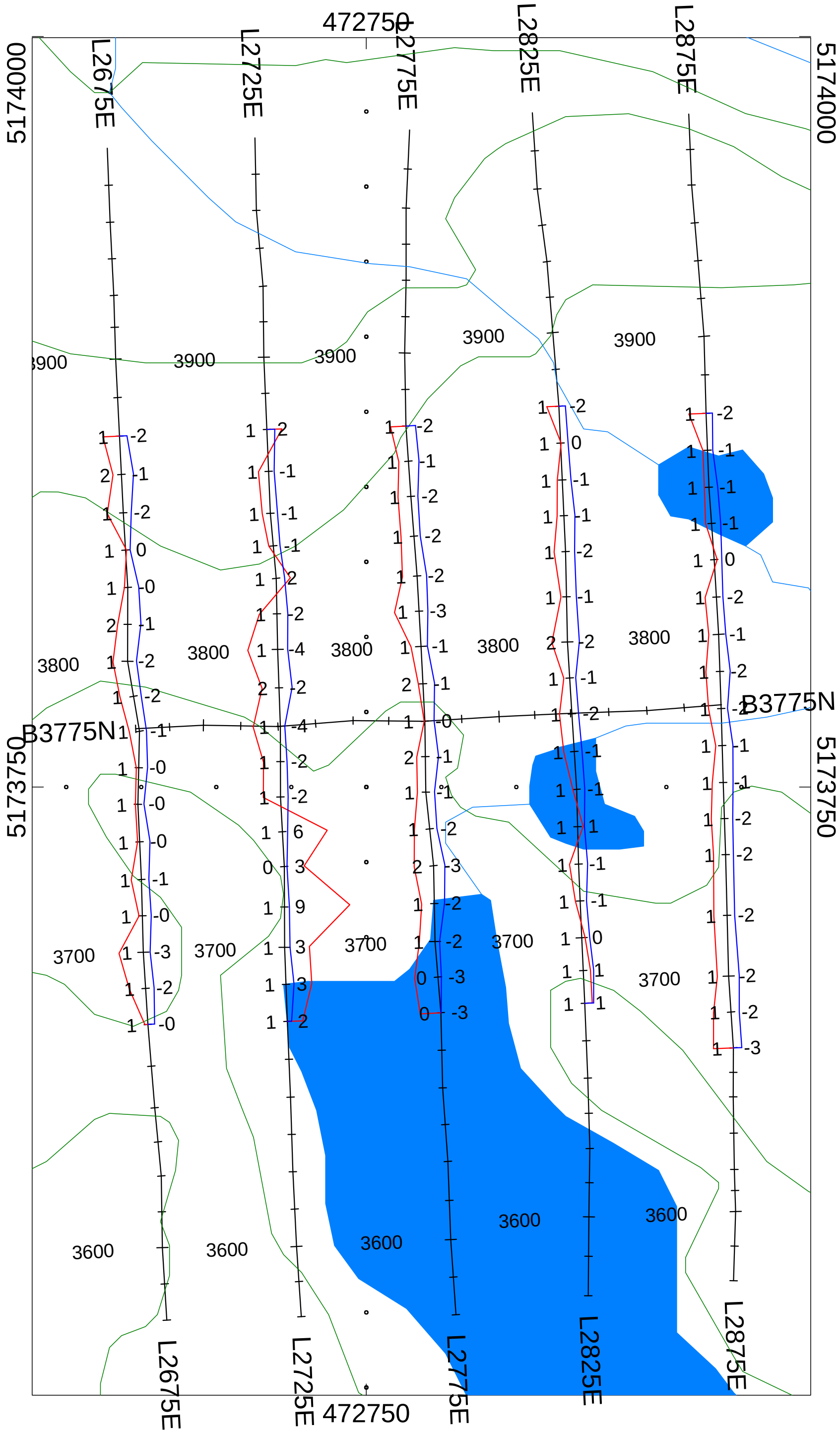
*Drawing: WALLBRIDGE-PELE-MAXMIN-444*




Scale 1:2500

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(meters)

*NAD27 / UTM zone 17N*

WALLBRIDGE MINING COMPANY LIMITED

**PELE PROPERTY**
**Harty Township, Ontario**

MAX-MIN PROFILED PLAN MAP
888 Hz - 200m Cable Seperation

In Phase: Posted Right/Bottom (Red)
Quadrature: Posted Left/Top (Blue)

Vertical Profile Scales: 1%/mm
Vertical Quadrature Profile Scales: 1%/mm

Station Seperation: 12.5 meters
Posting Level: 0

APEX PARAMETRICS MAXMIN II

Reciever Operated By: Bruce Lavalley
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Processed by: C Jason Ploeger, P.Geo, B.Sc.
Map Drawn By: C Jason Ploeger, P.Geo, B.Sc.
March 2014

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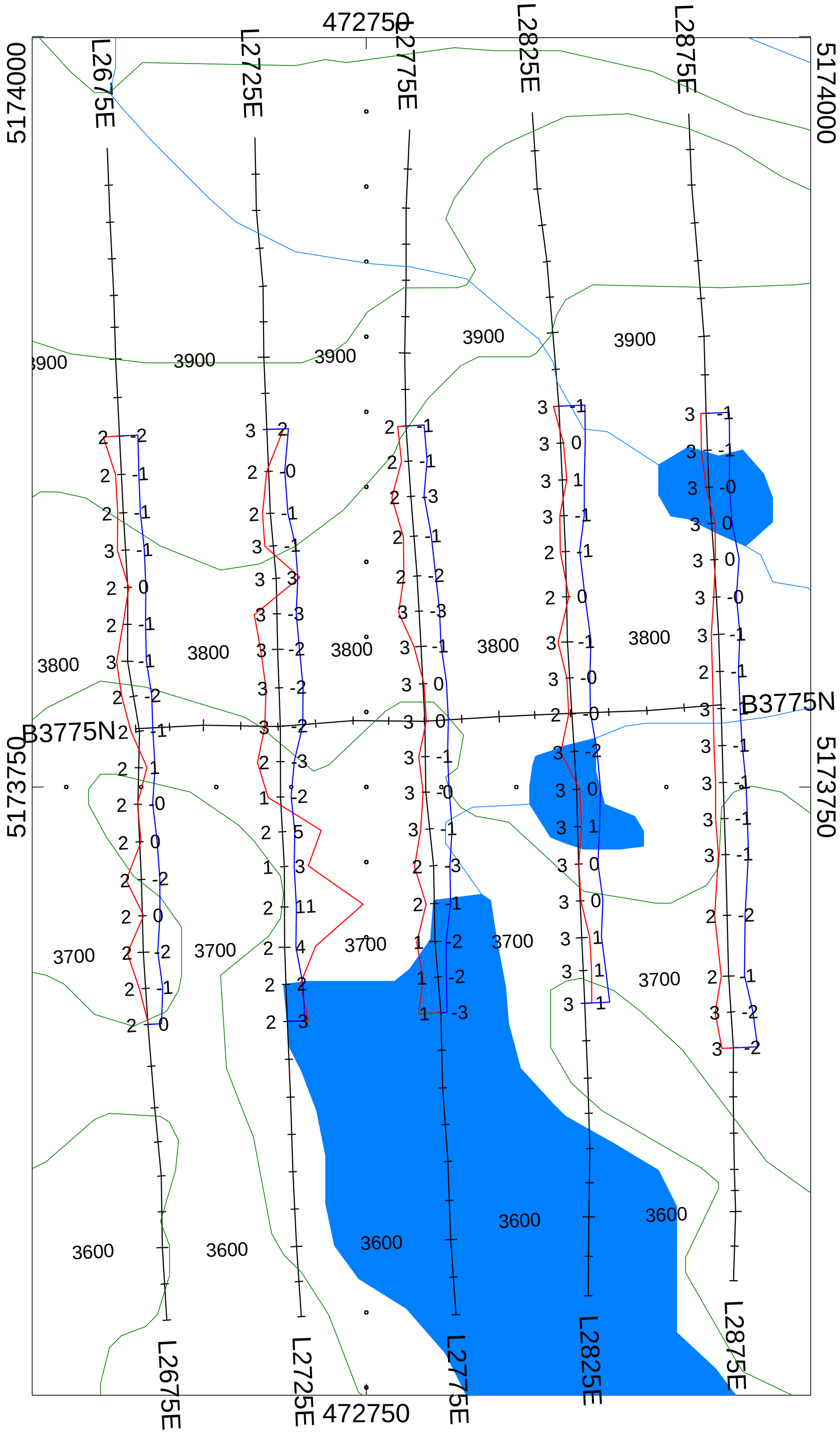
*Drawing: WALLBRIDGE-PELE-MAXMIN-888*

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(meters)

*NAD27 / UTM zone 17N*

**WALLBRIDGE**
MINING COMPANY LIMITED

**PELE PROPERTY**
**Harty Township, Ontario**

MAX-MIN PROFILED PLAN MAP
1777 Hz - 200m Cable Seperation

In Phase: Posted Right/Bottom (Red)
Quadrature: Posted Left/Top (Blue)

Vertical Profile Scales: 1%/mm
Vertical Quadrature Profile Scales: 1%/mm

Station Seperation: 12.5 meters
Posting Level: 0

APEX PARAMETRICS MAXMIN II

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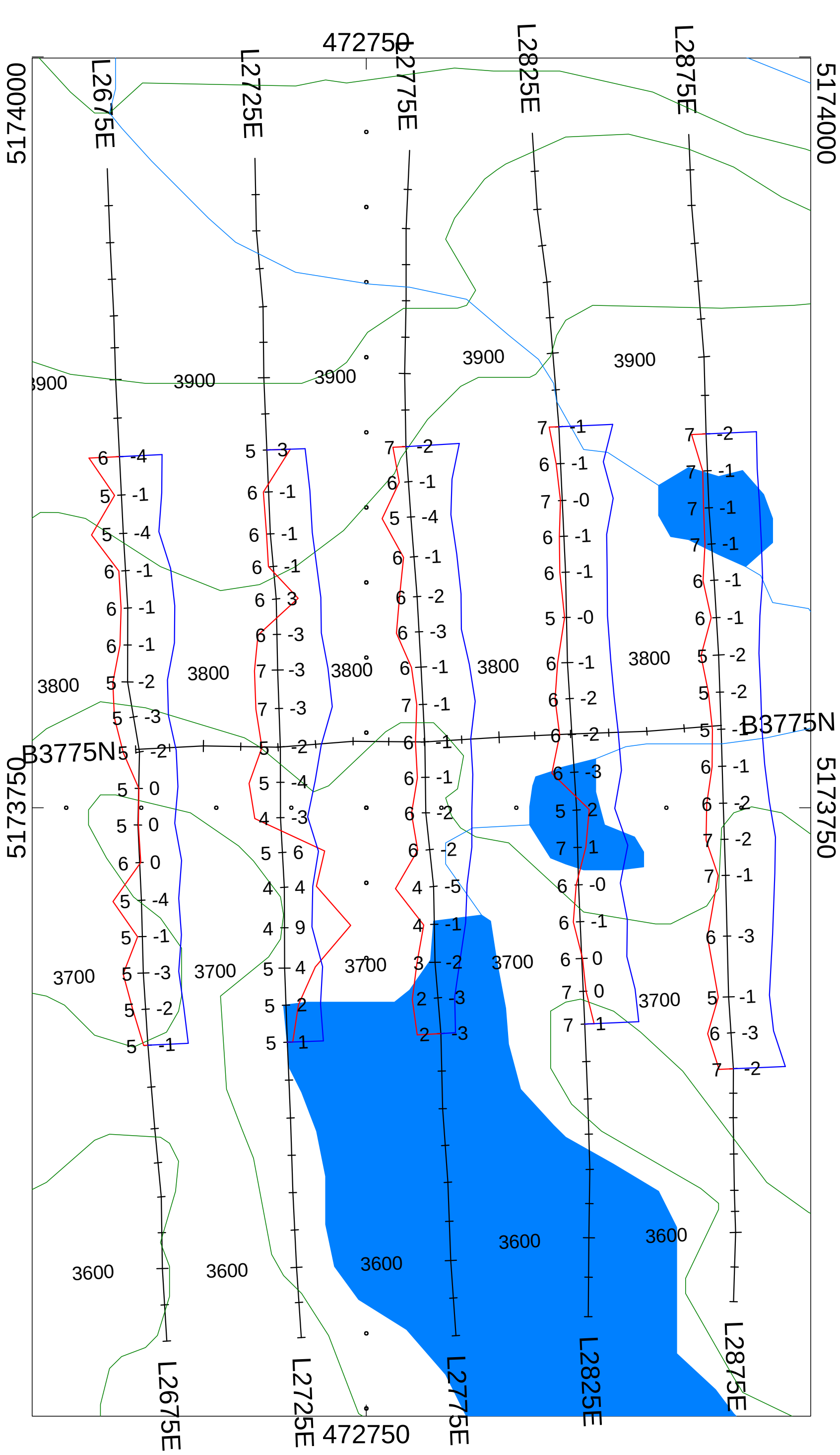
*Drawing: WALLBRIDGE-PELE-MAXMIN-1777*

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(meters)

*NAD27 / UTM zone 17N*

WALLBRIDGE
MINING COMPANY LIMITED

**PELE PROPERTY**
**Harty Township, Ontario**

MAX-MIN PROFILED PLAN MAP
3555 Hz - 200m Cable Seperation

In Phase: Posted Right/Bottom (Red)
Quadrature: Posted Left/Top (Blue)

Vertical Profile Scales: 1%/mm
Vertical Quadrature Profile Scales: 1%/mm

Station Seperation: 12.5 meters
Posting Level: 0

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March 2014

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*Drawing: WALLBRIDGE-PELE-MAXMIN-3555*