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# WORK REPORT
# On a
# MAGNETOMETER SURVEY
# HWY 572 PROPERTY
# GUIBORD TOWNSHIP
# LARDER LAKE MINING DIVISION
# for
# STEVEN ANDERSON

Submitted by: Steve Anderson
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September, 2016

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## INTRODUCTION

The following report will deal with the results of a magnetometer survey carried out on the Hwy 572 Property. This property consists of one block mining claim (8 units) located in Guibord Township, Larder Lake Mining Division, Ontario (Figure #3).

This program was set up to provide detailed magnetic data over a portion of the property that hosts two previously outlined induced polarization anomalies. The magnetic data will aid in the geological interpretation of the area. Although overburden depths are likely shallow due to the fact that there is outcropping just north of the claim boundary, there appears is no outcropping within the subject claim. This work was carried out by Vision Exploration on July 15th, 2016 and September 1st, 2016.

This report will deal with the results of the magnetometer survey carried out on the above-mentioned property.


**HWY 572 PROJECT**
LOCATION MAP
Figure #1

## LOCATION AND ACCESS

The Hwy 572 Property consists of a single block-mining claims (8 units) located in the north-eastern portion of Guibord Township (Figure #3). The properties eastern boundary is marked by Hwy 572, which is also the boundary between Hislop and Guibord Townships. The property is situated approximately 75km east of the city of Timmins, or approximately 12km east of the town of Matheson. (Figure #2).

Access to the work area was gained by taking Hwy 101 east from the town of Matheson for approximately 12km to the junction of Hwy 572. The properties east boundary is located 3km south on Hwy 572.

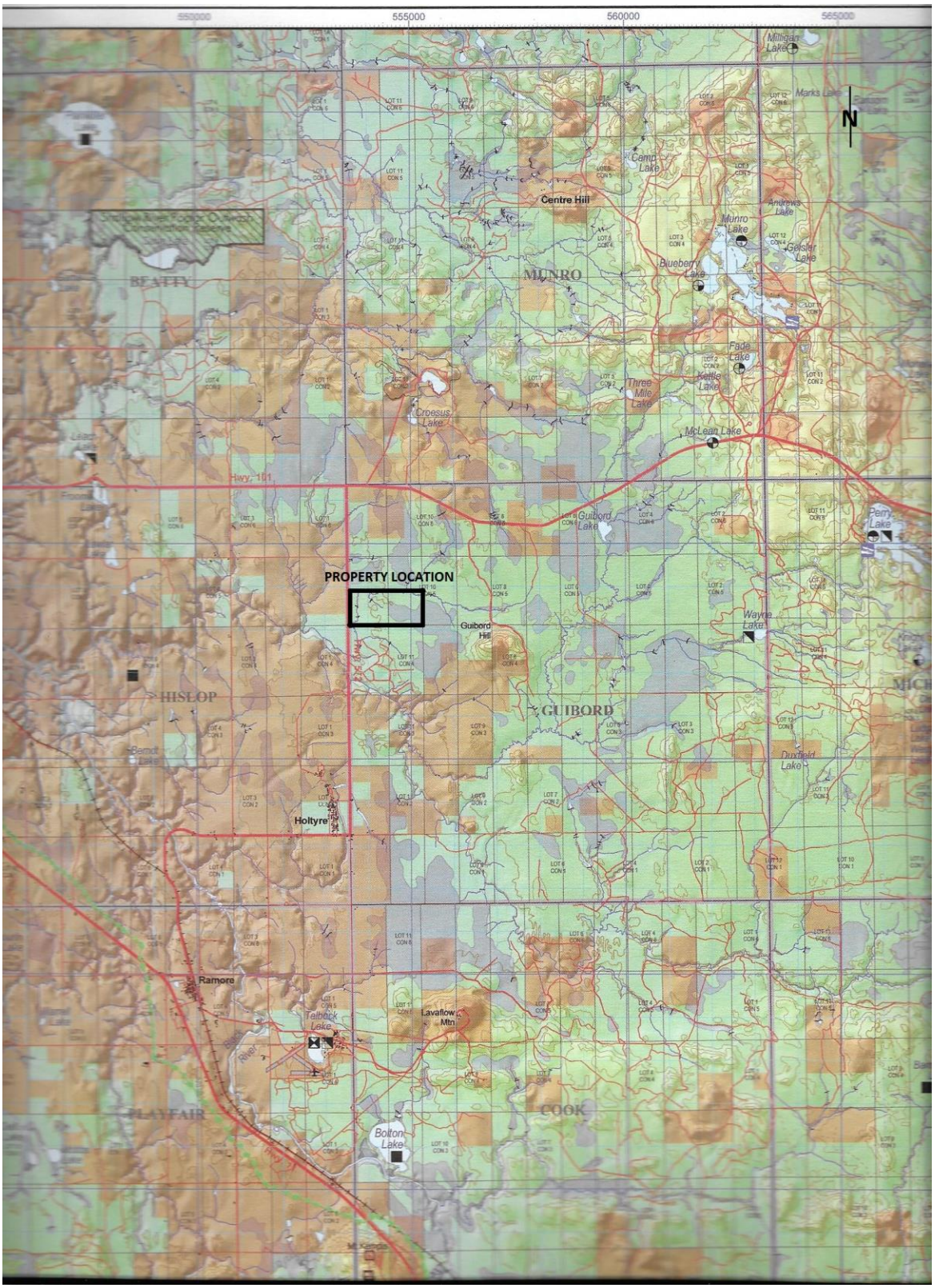
## PERSONNEL

The following people were directly involved in carrying out the soil sampling program.

| | | |
|---|---|---|
| Geological technologist | Steve Anderson | Crystal Falls. |
| Helper | Glenda Smith | Crystal Falls |

## PREVIOUS WORK

The current work program was set up to further test two induced polarization anomalies outline previously. In 2015 a soil sampling program was completed and returned no significant results.




HWY 572 PROJECT REGIONAL LOCATION MAP Figure #2

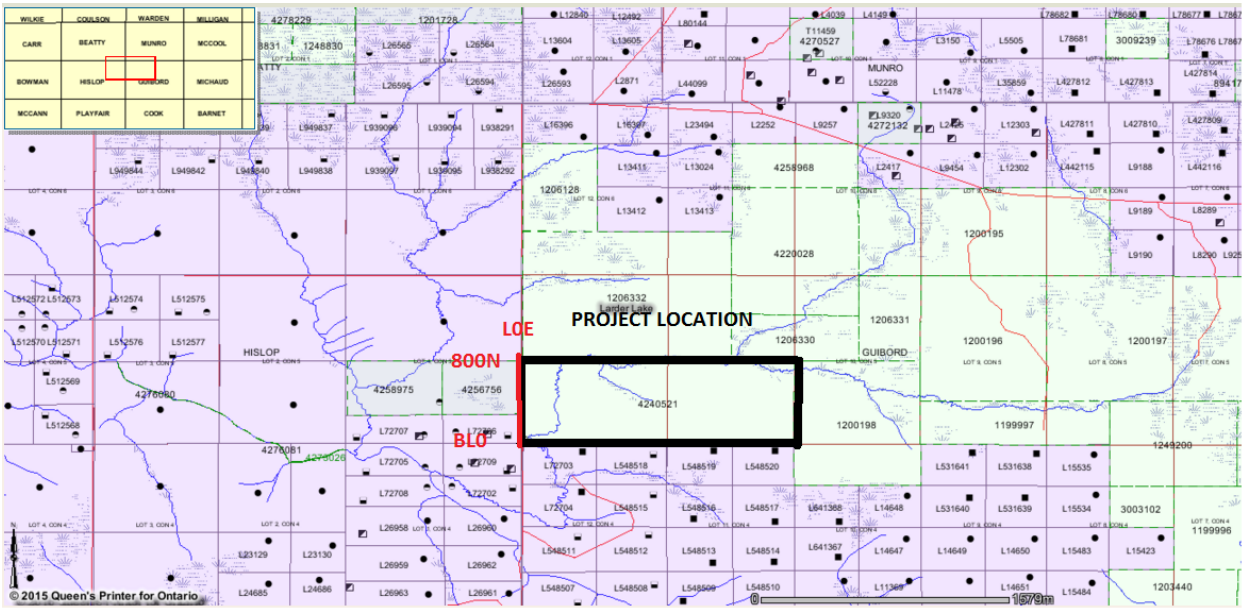
## GENERAL GEOLOGY

The Hwy 572 Property is shown by OGS Map # P3398 "Geological Compilation of the Lake Abitibi Area, Abitibi Greenstone Belt" to occur within Clastic Metasedimentary Rocks with the contact between these rocks and the Mafic Metavolcanic rocks occurring near the properties southern boundary. The properties southeast corner is located approximately 200m from the past producing Matachewan Mines gold mine.

## CLAIMS

The Hwy 572 property consist of a single, unpatented, block-mining claims (8 units) located in Guibord Township (Figure #3). It is recorded in the name of Steven Anderson and is within the Larder Lake Mining Division, District of Cochrane. The following is a legal description of the claim that makes up the Hwy 572 Property

| | | | |
|---|---|---|---|
| 4240521 | 8 units | S ½ Lots 11 & 12, Con 5 | Guibord Twp. |




**HWY 572 PROJECT**
**CLAIM SKETCH**
**Figure #3**

## WORK PROGRAM

The current work program involved conducting 4.7km of flagged line magnetometer survey. The lines were GPS controlled using an East-West base line with North-South cross lines. The line interval was set at 50m with a 12.5m reading interval.

## MAGNETOMETER THEORY

An GEM - GSM 19 Proton Precession magnetometer was used to carry out the magnetometer survey. The instrument is synchronised with an GEM -GSM 19 recording base station to help eliminate magnetic diurnal variation. This should ensure an accuracy of less than 10 Nt.

The Proton Precession method involves energising a wire coil immersed in a hydrocarbon fluid. This causes the protons in the proton rich fluid to spin or precess simulating spinning magnetic dipoles. When the current is removed the protons precess about the direction of the earth's magnetic field, generating a signal in the same coil which is proportional to the total magnetic field intensity. In this way, the horizontal gradient of the earth's magnetic field can be measured and plotted in plan form with values of equal intensity joined to form a contour map.

This presentation is useful in correlating with other data sets to aid in structural interpretation. Individual magnetic responses can be interpreted for dip, depth and width estimates after profiling the data.

The following parameters were employed for the survey:

Instrument - GEM GSM 19 Proton Precession Magnetometer
Station Interval - 12.5m
Line Interval - 50m
Diurnal Correction Method - GEM GSM-19 Recording Base Station
Data Presentation - Magnetic Contours Map
- 1:2500 scale
- Contour interval = 10 nano-teslas

## SURVEY RESULTS

The magnetometer conducted on the Hwy 572 Property was successful in outlining some areas of interest. The main feature observed is a magnetic low that run generally east west across the survey grid between the base line and 100N. The IP zones outlined by a previous work program would be coincident with this low, which could be marking a zone of silicification or alteration. A strong high is also situated along the southern flank of the previously described low, on L0E at 50N. Since L0E runs along the eastern edge of Hwy 572, this could be cultural noise. However, it is coincident with an IP anomaly and should not be dismissed as noise without further investigation.

## RECOMMENDATIONS AND CONCLUSIONS

As mentioned under results, a magnetic low was outlined, generally corisponding with the IP zones. A resistivity high with elevated chargeability situated over a magnetic low is often a geophysical signature that marks a mineralization within a silicified or alteration zone.

For this reason, the IP targets should be tested with diamond drilling. Also, if the drilling produces encouraging results, the remainder of the claim should be covered with Magnetometer and Induced Polarization.

# CERTIFICATION

I, Steve Anderson of Timmins, Ontario hereby certify that:

1. I hold a three-year Geological Technologist Diploma from Sir Sandford College, Lindsay, and Ontario, obtained in May 1981.

2. I have been practising my profession since 1979 in Ontario, Quebec, Nova Scotia, New Brunswick, Newfoundland, NWT, Manitoba, Saskatchewan and Greenland.

3. I have been employed directly with Asamera Oil Inc. Urangellschaft Canada Ltd. Nanisivik Mines Ltd., R.S. Middleton Exploration Services Ltd., Rayan Exploration Ltd and I am currently owner of Vision Exploration.

4. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience and on the results of the fieldwork conducted on the property during 2016

5. I am currently 100% owner of the subject claim.

Dated this 5th day of September, 2016
At Timmins, Ontario.

**APPENDIX "A"**
**GEM- GMM19T**

# GEM GSM-19

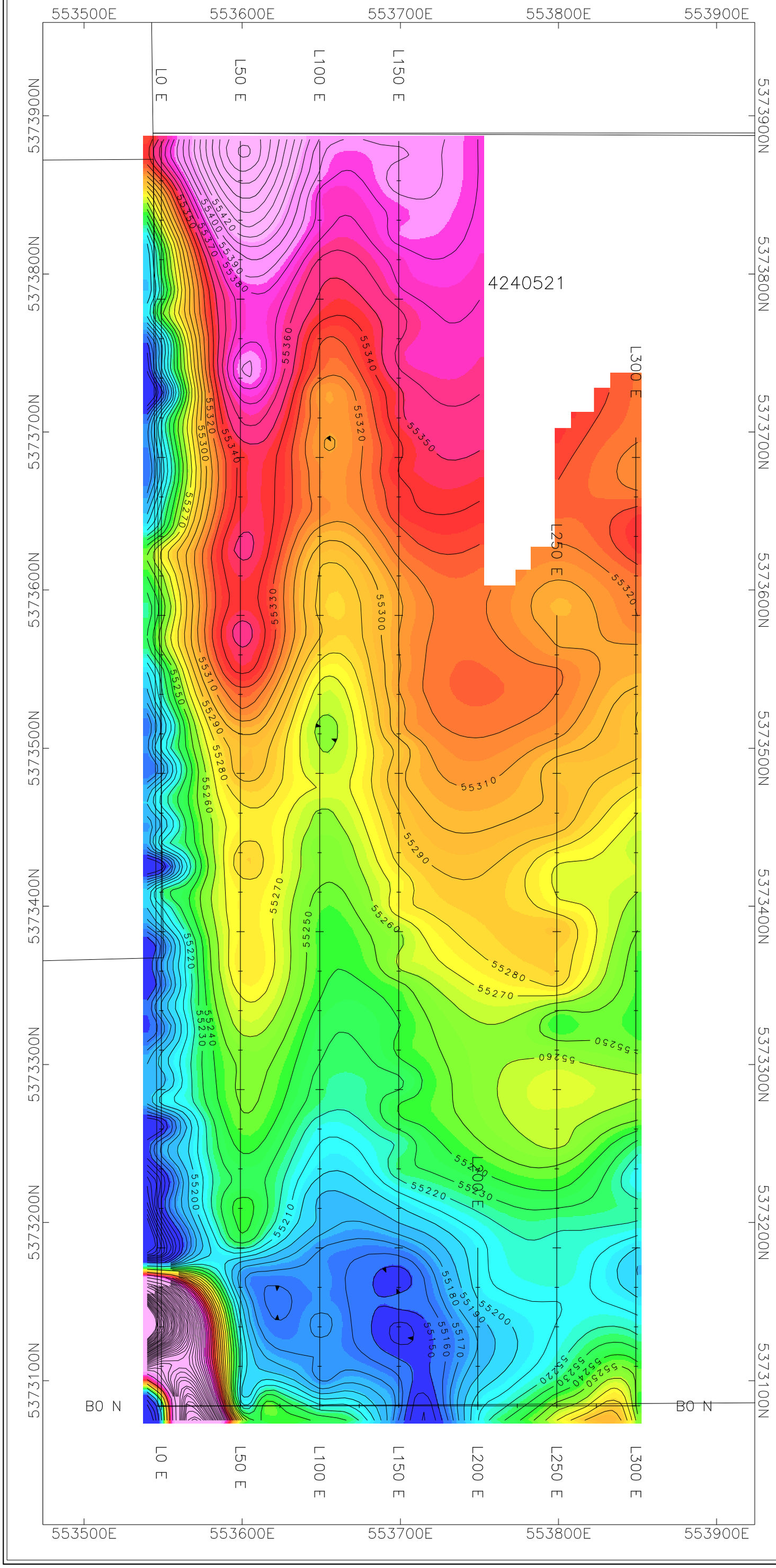
## INSTRUMENT SPECIFICATIONS

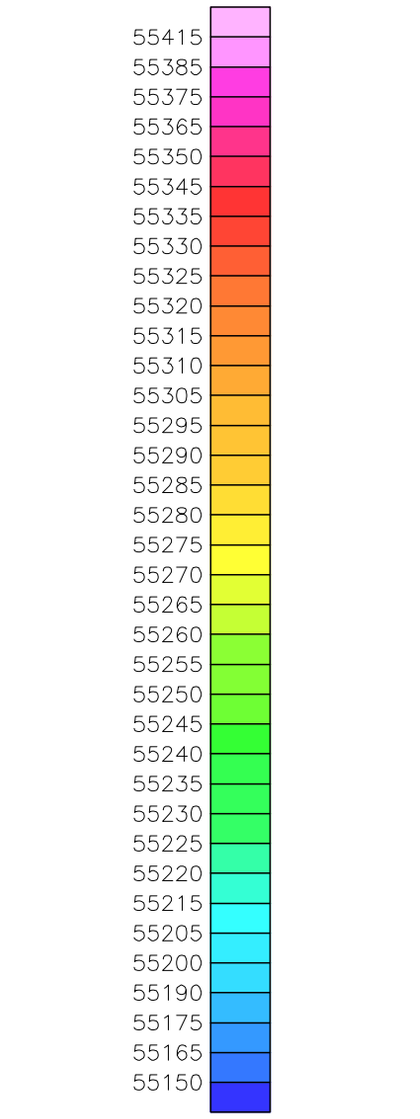
### MAGNETOMETER / GRADIOMETER

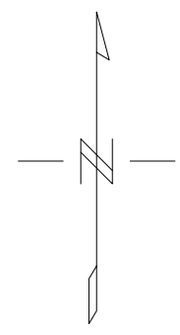
| | |
|---|---|
| Resolution: | 0.01 nT (gamma), magnetic field and gradient. |
| Accuracy: | 0.2 nT over operating range. |
| Range: | 20,000 to 120,000 nT. |
| Gradient Tolerance: | Over 10,000 nT/m |
| Operating interval: | 3 seconds minimum, faster optional. Readings initiated from keyboard, external trigger, or carriage return via RS-232-C. |
| Input/Output: | 6 pin weatherproof connector, RS-232C, and (optional) analog output. |
| Power Requirements: | 12 V, 200 mA peak (during polarization), 30 mA standby. 300mA peak in gradiometer mode. |
| Power Source: | Internal 12 V, 2.6 Ah sealed lead-acid battery standard, others optional. An External 12V power source can also be used. |
| Battery Charger: | Input: 110 VAC, 60 Hz. Optional 110/220 VAC, 50/60 Hz.<br>Output: dual level charging. |
| Operating Ranges: | Temperature: -40 °C to +60 °C.<br>Battery Voltage: 10.0 V minimum to 15V maximum.<br>Humidity: up to 90% relative, non condensing. |
| Storage Temperature: | -50°C to +65°C |
| Display: | LCD: 240 x 64 pixels, or 8 x 30 characters. Built in heater for operation below -20°C |
| Dimensions: | Console: 223 x 69 x 240mm.<br>Sensor staff: 4 x 450mm sections.<br>Sensor: 170 x 71mm dia. |
| | Weight: Console 2.1kg, Staff 0.9kg, Sensors 1.1kg each. |

### VLF

| | |
|---|---|
| Frequency Range: | 15 - 30.0 kHz. |
| Parameters Measured: | Vertical In-phase and Out-of-phase components as percentage of total field.<br>2 components of horizontal field.<br>Absolute amplitude of total field. |
| Resolution: | 0.1%. |
| Number of Stations: | Up to 3 at a time. |
| Storage: | Automatic with: time, coordinates, magnetic field/gradient, slope, EM field, frequency, in- and out-of-phase vertical, and both horizontal components for each selected station. |
| Terrain Slope Range: | 0° - 90° (entered manually). |
| Sensor Dimensions: | 14 x 15 x 9 cm. (5.5 x 6 x 3 inches). |
| Sensor Weight: | 1.0 kg (2.2 lb). |



Scale 1:2500

25 0 25 50 75 100 125

(meters)

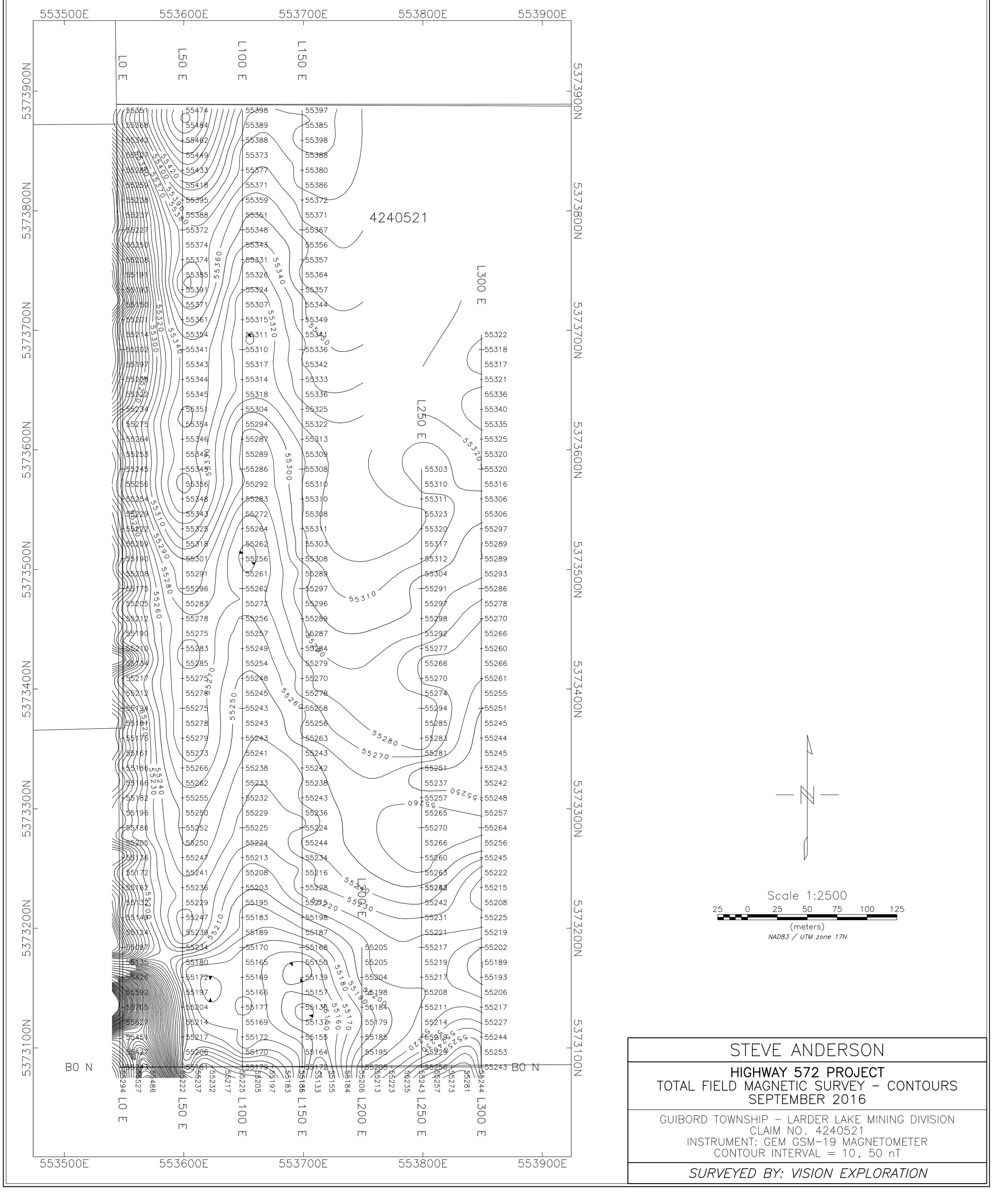
*NAD83 / UTM zone 17N*

# STEVE ANDERSON

## HIGHWAY 572 PROJECT
TOTAL FIELD MAGNETIC SURVEY - CONTOURS
SEPTEMBER 2016

GUIBORD TOWNSHIP - LARDER LAKE MINING DIVISION
CLAIM NO. 4240521
INSTRUMENT: GEM GSM-19 MAGNETOMETER
CONTOUR INTERVAL = 10, 50 nT

*SURVEYED BY: VISION EXPLORATION*

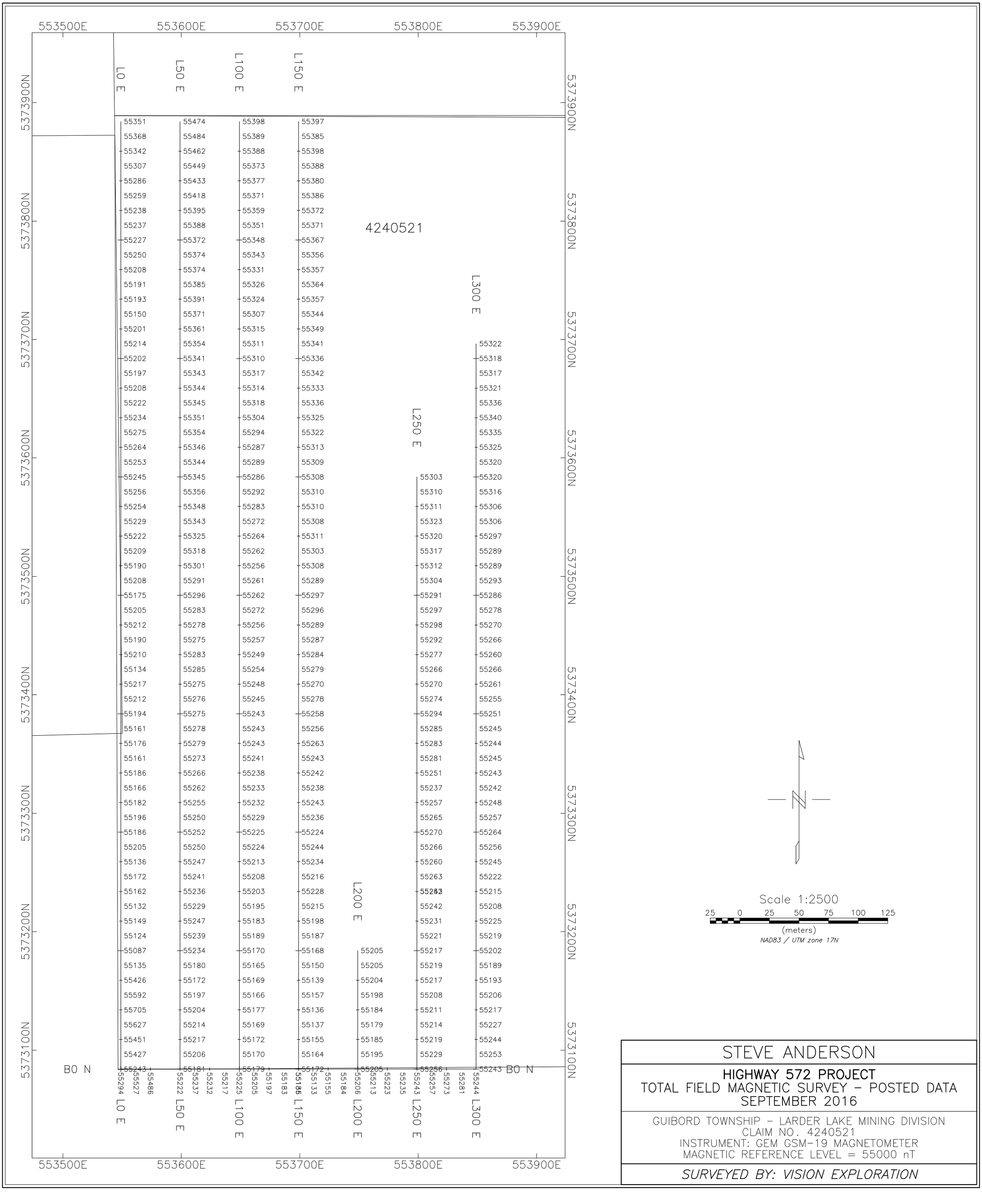



# STEVE ANDERSON

## HIGHWAY 572 PROJECT
## TOTAL FIELD MAGNETIC SURVEY - CONTOURS
## SEPTEMBER 2016

GUIBORD TOWNSHIP - LARDER LAKE MINING DIVISION
CLAIM NO. 4240521
INSTRUMENT: GEM GSM-19 MAGNETOMETER
CONTOUR INTERVAL = 10, 50 nT

*SURVEYED BY: VISION EXPLORATION*




# STEVE ANDERSON

## HIGHWAY 572 PROJECT
## TOTAL FIELD MAGNETIC SURVEY - POSTED DATA
## SEPTEMBER 2016

GUIBORD TOWNSHIP - LARDER LAKE MINING DIVISION
CLAIM NO. 4240521
INSTRUMENT: GEM GSM-19 MAGNETOMETER
MAGNETIC REFERENCE LEVEL = 55000 nT

*SURVEYED BY: VISION EXPLORATION*