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## **INTRODUCTION**

The following report will deal with the results of a magnetometer survey carried out on the Shakespeare Twp. Project, located in Shakespeare and Baldwin Townships, Sudbury Mining Division. The property is made up of 17 block and single unit mining claims (95 units) located in the north east portion of Shakespeare and north western portion Baldwin Townships (Figure #3). This work program was carried out on 4 claims located in Shakespeare Township, focusing on the area around a past producing gold mine. The work was carried out on a contract basis by Vision Exploration on behalf of NY85 Capital Inc.

A total of 21 km of grid lines were established to cover an area in the immediate vicinity of the old workings (Figure #4). The entire grid was then covered with a magnetometer survey. The work program was designed to provide detailed magnetic data over the area to aid in the geological interpretation of the area. This work was carried out between July 15<sup>th</sup> and July 28<sup>th</sup>, 2012.

This report will deal with the results of the magnetometer survey carried out on the abovementioned property.



#### SHAKESPEARE TWP PROJECT

LOCATION MAP FIGURE #1

#### LOCATION AND ACCESS

The portion of the Shakespeare Twp. Property covered by this work program is located in the central part of Shakespeare Township. It covers 4 block and single unit mining claims made up of 10 units (Figure #4). A legal description of the property can be found under the claims section of this report. The work area is situated approximately 2km north of the village of Webwood (Figure #2).

Access to the work area was gained by taking Hwy 11 West of Sudbury to the Village of Webwood. From here, Agnew Lake Road heads north and at roughly the 2km point crosses the most westerly claim, providing excellent access.

#### PERSONNEL

The following people were directly involved in carrying out the Magnetometer survey. All were employed by Vision Exploration of Timmins, Ontario.

Project Manager Technician Steve Anderson Aurel Chaumont Timmins Timmins

#### **PREVIOUS WORK**

This was first phase of exploration to be carried out on this property by NY85 Capital Inc. A work history for previous operators of the property shows the property to host the past producing Shakespeare Gold Mine which ran from 1903 through 1907.



## **GENERAL GEOLOGY**

The geology underlying the Shakespeare Twp. Property is summarized in a 1976 geology report titled "Geology of Dunlop-Shakespeare Area" by K.D. Card and P.A. Palonen.

In summary, the Shakespeare area is located on the contact between the Achaean, Southern and Superior Provinces of the Canadian Shield.

The rocks are typically characterized as being Precambrian in age, and include felsic plutonic rocks of the Superior Province to the north and Protozoic rocks supracrustal sedimentary and volcanic rocks of the Huronian Supergroup to the south.

## **CLAIMS**

The claims covered by this work program are part of the Shakespeare Twp. Property and are as follows.

<u>Claim #</u>	# of Units	Lot & Con	Township
4217974	4 units	N 1/2 Lot 6, Con 1	Shakespeare Township
4255248	1 unit	NE 1/4, N 1/2 Lot 5, Con 1	Shakespeare Township
4255249	1 unit	SE ¼, N ½ Lot 5, Con 1	Shakespeare Township
4255247	4 units	S 1/2, Lot 4, Con 2	Shakespeare Township





# WORK PROGRAM SUMMARY

## **General Information:**

Project Dates:	July 15, 2012 – July 28, 2012
Survey Period:	13 days
Survey Days:	4 days
Weather:	0 days
Down days:	0 days
Survey Coverage:	21.0 km Line Cutting
	21.0 km Magnetometer Survey

## **Personnel:**

Project Supervision:	Steve Anderson	
Geophysical Technician:	Aurel Chaumont	

## **Survey Specifications:**

Reading Interval:	12.5 meters
Line interval:	100 meters

#### Instrument:

Magnetometer:

GEM GSM19T magnetometer

## Surveyed by:

# 2041663 ONTARIO LTD. VISION EXPLORATION

1361 Kraft Creek Road Timmins, Ontario P4N-7C3 Phone: 705-266-4703 E-Mail: visionexploration@persona.ca Website: www.duenorth.net/vision

#### WORK PROGRAM

The current work program involved establishing 21km of chainsaw cut grid lined over a portion of the subject property. The base line and tie line were set up in an east west direction with perpendicular cross lines ever 100 meters. (Figure #4). These lines were then picketed using a 25 meter station interval and surveyed with magnetometer using a 12.5 meter reading interval.

The following is a brief description of the magnetometer survey and the parameters used.

#### **MAGNETOMETER THEORY**

A GEM - GSM 19 Proton Precession magnetometer was used to carry out the magnetometer survey. The instrument is synchronised with a 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 - 100m Diurnal Correction Method - GEM GSM-19 Recording Base Station Data Presentation - Magnetic posting map - Magnetic contour map

- 1:5000 scale

## SURVEY RESULTS

The magnetometer survey conducted on the Shakespeare property was successful in outlining what are likely various geological units within the grid. The main difference in the magnetics is that the background over much of claim 4255247 is much higher that the remainder of the survey area. A number of one line highs and lows occur throughout the grid. These may be the result of cultural noise from power lines and buildings located within the survey area.

## **RECOMMENDATIONS AND CONCLUSIONS**

As mentioned under results the most notable magnetic response is a back ground high covering much of claim 4255247. This is likely marking a change in geological units. The erratic highs and lows may be in part or whole the result of cultural noise.

A day should be spent to tie-in in the power lines, buildings and any other man made features that may be causing cultural noise.

As the focus of this project is gold exploration, an Induced Polarization survey should be carried out. This will outline any zones of sulphides or disseminated sulphide which may be an indication of gold deposition.

#### **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 president 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 July, 2012.

Dated this 7th day of August, 2012 At Timmins, Ontario.

## APPENDIX "A" GEM GSM-19T MAGNETOMETER

# 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 op- tional. An External 12V power source can also be used.
Battery Charger:	Input: 110 VAC, 60 Hz. Optional 110/220 VAC, 50/60 Hz. Output: dual level charging.
Operating Ranges:	Temperature: -40 °C to +60 °C.
	Battery Voltage: 10.0 V minimum to 15V maximum.
	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 opera-
	tion below -20°C
Dimensions:	Console: 223 x 69 x 240mm.
	Sensor staff: 4 x 450mm sections.
3 8 2	Sensor: 170 x 71mm dia.
	Weight: Console 2.1kg, Staff 0.9kg, Sensors 1.1kg each.

## VLF

A T-1	
Frequency Range:	15 - 30.0 kHz.
Parameters Measured:	Vertical In-phase and Out-of-phase components as percentage of total field.
· ·	2 components of horizontal field.
	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:	$14 \times 15 \times 9$ cm, (5.5 x 6 x 3 inches).
Sensor Weight:	1.0 kg (2.2 lh).



