BC Geological Survey Assessment Report 33712

# AN ASSESSMENT REPORT

 $\underline{\mathbf{ON}}$ 

### **GROUND MAGNETIC SURVEYING**

COLUMBIA Property Logan Lake Area, Kamloops M.D., B.C. 50° 24'N, 120° 58'W

**CLAIMS SURVEYED** 

216683,216684,554803,996703,996742

**EVENT NUMBER 5363272** 

For

**ROBAK INDUSTRIES LTD.** 

Coquitlam, B.C.

 $\mathbf{BY}$ 

PETER E. WALCOTT & ASSOCIATES LIMITED

Coquitlam, B.C.

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Cost of Survey Personnel Employed on Survey Certification

ACCOMPANYING MAPS	 MAP POCKET
Claim and Grid Location Map	1:20,000
Contours of Total Magnetic Intensity	1:10,000

#### **INTRODUCTION.**

Between June 14th and June 19th, 2012 Peter E. Walcott & Associates Limited undertook magnetic surveying over the Columbia property for Robak Industries Ltd.

The survey was carried out over nineteen east-west orientated lines – for a total of some 72 line kilometres. Readings of the earth's total magnetic field were recorded using a GSM 19W proton magnetometer at a 1 second interval on the magnetic survey

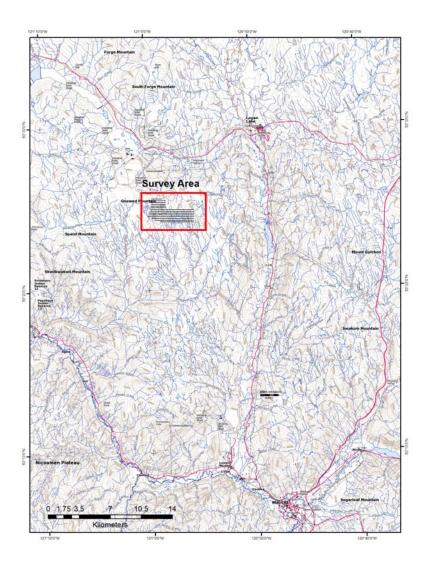
Lines were established using a series of predefined waypoints uploaded to the GPS enabled magnetometers.

The magnetic data is presented in contour form on a plan map of the grid at a scale of 1:10,000.

#### PROPERTY, LOCATION AND ACCESS.

The Columbia property is located in southwestern British Columbia, some 14 kilometres southwest of Logan Lake, Columbia and some 35 kilometres northwest of the community of Merritt, British Columbia where the crew was housed.

Access to the survey area was gained via a network of secondary paved and gravel roads emanating from the communities of Logan Lake, and Merritt, British Columbia.



Survey Area

## **PURPOSE.**

The purpose of the survey was to attempt to define structural and discrete magnetic information over the Columbia claim group, potentially associated with mineralization—while historic magnetic coverage does exist over the property, the acquisition of modern digital data allows for processing techniques to be applied to the dataset it an attempt to locate subtle features.

## **HISTORICAL WORK.**

A number of exploration campaigns have been conducted within the property and surrounding area – consisting of geological mapping, geochemistry, ground and airborne geophysics, and diamond drilling. The author would refer to the respective Aris files within the area.

#### **SURVEY SPECIFICATIONS.**

#### Magnetic Survey.

The magnetic survey was carried out using a GSM 19 proton precession magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario. This instrument measures variations in the total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla. Corrections for daily variations in the earth's field – the diurnal – were made by comparison with a similar instrument set up at a fixed location – the base – where recordings were made at 10 second intervals. The rover recording were made at a one second interval.

#### Horizontal & Vertical control.

Line locations were established using the onboard GPS within the magnetometer. The WAAS corrected position data was subsequently downloaded from the magnetometers to recover actual line locations.

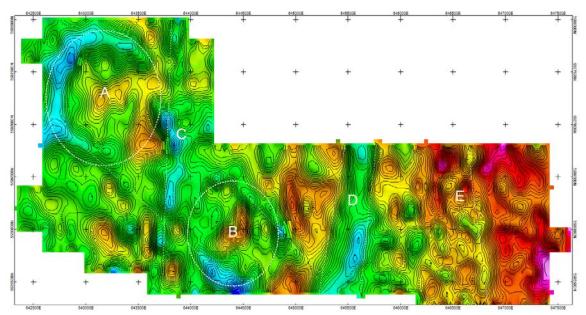
#### Data Processing & Presentation.

The raw rover data was subsequently base station corrected, and filtered using Geosoft Oasis Montaj. The total field magnetic intensity is shown in contour form on a plan map of the grid at a scale of 1:10,000.

#### **DISCUSSION OF RESULTS.**

The 2012 magnetic survey defined a number of areas of interest with the most notable being a weak magnetic arcuate feature (A) proximal to the "Gnawed orebody" over Gnawed Mountain some 1 kilometre in diameter.

Immediately to the southeast of the aforementioned feature a second weak plug type feature (B) can also be observed, and may be of potential interest. Separating A & B, is a weak north south trending feature (C) is readily apparent on the magnetic plot.



A broad magnetic north-south trending low (D) potentially associates with a N-S trending fault zone associated with Roscoe Lake and Creek.

On the eastern side of the survey area, an area of increased magnetic intensity can be observed. Within this region, a distinct N-S magnetic feature (E) is apparent. This feature may be of significant interest as it is on trend with mineralization immediately to the south of the property boundary.

A weak north westerly trending fabric is also readily apparent through the survey area.

#### **SUMMARY, CONCLUSIONS & RECOMMENDATIONS.**

Between June 14th and June 19<sup>th</sup>, 2012, Peter E. Walcott & Associates Limited undertook magnetic traversing over parts of the Columbia property for Robak Industries Ltd.

The property is located some 14 kilometres southwest of Logan Lake, British Columbia and some 35 kilometres northwest of the community of Merrit, British Columbia.

The survey was carried out over nineteen east-west orientated lines, for a total of some 72 line kilometres.

The magnetic survey identified a number of features of interest, most notable a large plug like anomaly proximal to the gnawed breccia orebody. A number of north-south trending features were also readily discernible, along with a weaker northwesterly fabric.

Prior to further work on the property, a detailed compilation of all historic data should be undertaken, along with a more regional study of the areas to the immediate south of the property, where recent drilling has identified a number of areas of interest in similar type magnetic trends.

Respectfully submitted,

#### PETER E. WALCOTT & ASSOCIATES LIMITED

Peter E. Walcott, P.Eng. Geophysicist

P. Alexander Walcott Geophysicist

Vancouver, B.C. September 2012

# **APPENDIX**

## **COST OF SURVEY.**

Peter E. Walcott & Associates Limited undertook the survey on a per kilometer basis. Mobilization, inversion, modeling and reporting were extra so that the total cost of services provided was \$12,350.00.

# PERSONNEL EMPLOYED ON SURVEY.

Name	Occupation	Address	Dates
Peter E. Walcott	Geophysicist	Peter E. Walcott & Associates Limited 111-17 Fawcett Rd. Coquitlam, B.C.	Sept 22 <sup>nd</sup> ,2012
Alexander Walcott	"	"	Jun 23, Sept 21-22, 2012
T. Kocan	Geophysical Operator	n n	Jun 14- Jun19th, 2012
A. Harris	"	11	"

## **CERTIFICATION.**

I, Peter E. Walcott of 605 Rutland Court, Coquitlam, British Columbia, hereby certify that:

- 1. I am graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.
- 2. I have been practicing my profession for the last fifty nine years.
- 3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.
- 4. I hold no interest, direct or indirect in Robak Industries Ltd., nor do I expect to receive any.

Peter E. Walcott, P.Eng.

Coquitlam, B.C. September 2012

