DETAIL MAGNETOMETER AND ELECTROMAGNETIC SURVEYS ON THE KARAT-14 (3) CLIFFORD TOWNSHIP LARDER LAKE MINING DIVISION DISTRICT OF TIMISKAMING, ONTARIO

FOR

TIGER GOLD EXPLORATION CORPORATION

MAY 26, 2006

MISS WENDY K. WELLER
GEOTECH

RECEIVED
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GEOSCIENCE ASSESSMENT OFFICE
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CLIFFORD-BEN NEVIS AREA
GROUND MAGNETOMETER SURVEY MAP NO. K14/2006/mag In back pocket
GROUND VLF-EM SURVEY – NAA PROFILED MAP NO.
K14/2006/vlf...... In back pocket
SUMMARY:

The report includes a Detail Magnetometer and Electromagnetic Surveys as required by The Ministry of Northern Development and Mines for assessment work purposes.

The report includes an introduction to the property, property history, general geology, field observations and conclusions based on the field surveys.

Technical data is provided at the back of this report. Field data is compiled on the accompanying plan maps K14/2006/mag and K14/2006/vlf, found in the back of this report.
INTRODUCTION

There is 1 block (fourteen units) in the group. Claim 4209407 is located in Clifford Township, Larder Lake Mining Division.

On February 4, 06 a new north/south baseline was turned off for a distance of 1400 meters. In this section 600 meters of baseline has been applied in the cost sheet. Picketlines were turned off every 50 meters going west and stations cut and measured every 25 meters.

Line cutting was performed by Alain Pariscoat.

The magnetometer survey was performed by Miss WK Weller.

The electromagnetic survey was performed by Miss Wendy K. Weller as well as all chaining of the picketlines and baseline.

All drafting and contouring and report writing was done by Miss Wendy K. Weller.
LOCATION AND ACCESS

The Karat Fourteen Group is found in the north central half of Clifford Township, west of Highway 672.

The Karat Fourteen Group is found in the Larder Lake Mining Division, and they are within the jurisdiction of the Kirkland Lake Resident Geologist. Access is from Kirkland Lake towards the east for 13 kilometers to the Harker-Holloway road (Highway 672) follow 672 north for 34.4 kilometers.

PROPERTY HISTORY

At present time, the Karat 14 Group is a new block of unpatented mining claims that is presently being worked on by Tiger Gold Exploration Limited.

REGIONAL GEOLOGY

The Clifford Township, is underlain by Archean Volcanic Suites belonging to the Abitibi Subprovince, Superior Province of the Canadian Shield. The volcanic rocks are intruded by a variety of related mafic to felsic stocks sills and dykes. Later Precambrian dykes of diabasic composition and texture trend in a north-westerly, northerly or northeasterly direction and have filled in along pre-existing structures (see Jansen, 1975 and 1978).

The general area can be defined as being hounded on the south by the Larder Lake Fault and on the north by the Destor-Porcupine Fault, both regional, east-west trending structures along which are major gold mining camps such as Timmins, Harker-Holloway,
Clifford and Ben Nevis Townships

Table 1

TABLE OF LITHOLOGIC UNITS FOR THE CLIFFORD-BEN NEVIS AREA.

CENOZOIC

QUATERNARY

Recent
Peat, alluvium.

Pleistocene
Gravel, sand, till and clay.

Unconformity

PRECAMBRIAN

MIDDLE TO LATE PRECAMBRIAN (PROTEROZOIC)

MAFIC INTRUSIVE ROCKS
Olivine diabase, quartz diabase.

Intrusive contact

EARLY PRECAMBRIAN (ARCHEAN)

FELSIC INTRUSIVE ROCKS
Granodiorite, quartz diorite, diorite, syenite, feldspar porphyry and quartz-feldspar porphyry.

Intrusive contact

MAFIC TO INTERMEDIATE INTRUSIVE ROCKS
Gabbro, quartz gabbro, hornblende gabbro and diorite.

Intrusive contact

VOLCANIC ROCKS

Felsic Volcanic Rocks
Rhyodacite and rhyolite: Massive, flow-brecia, tuff-brecia, tuff and lapilli-tuff.

Intermediate Volcanic Rocks
Andesite and dacite: Massive, pillowed, flow-brecia, tuff, argillite.

Maﬁc Volcanic Rocks
Basalt: Massive, pillowed, flow-brecia, tuff-brecia.
Kirkland Lake, Virginiatown and Val D'or. A major east-west trending synclinorium is present between the two faults. The younger Blake River Group is flanked on the north and the south by rocks of the Kinojevis Group. The southern contact between the two groups is much more structurally affected than is the northern contact.

Rocks of the Kinojevis Group are to a large extent composed of iron tholeites. Such iron-rich composition is reflected in bands of high magnetic susceptibility alternating with bands of lesser magnetism. The weaker zones of magnetism outline sequences of sediments and/or calc-alkaline volcanics. The contact with the overlying Blake River Group can be defined from air magnetic data, however a zone of vertical gradation up to a mile wide may or may not be present. Subtle magnetic variations which may represent economically significant features (Kimberlite pipes or alteration zones) can easily be masked within the Kinojevis Group.

Blake River Volcanic Rocks are composed of calc-alkaline minerals. Massive and pillow flows occur in sequence with pillow and pyroclastic breccia and lapilli and ash tuff. Chemically they represent rhyolite, dacite, andesite and basalt. Rocks of the Blake River Group underlie the base metal camp of Noranda, Quebec. Eastern Clifford and Ben Nevis Townships have several base metal showings as well as relatively more bed rock exposures then has the Elliott Groups.

**TOPOGRAPHY**

The claim unit covers fourteen mining claims. There is one small overburdened outcrop showing in the south/west corner. A large drainage creek crosses the entire south/west section of the grid, many small old and new beaver ponds are connected to this creek. The vegetation ranges from black spruce boggis to thick alder swamps surround the creek and beaver ponds to jack pine esker ridges to the north/west.
2006 K14 (FOURTEEN MINING CLAIMS)
MAGNETOMETER AND ELECTROMAGNETIC SURVEYS

McPhar GP81 Proton Magnetometer

This system uses a backward motion of spinning protons of a hydrogen atom within a fluid of hydrogen and carbon. These spinning magnetic protons are caused to have two opposite poles by applying a magnetic field using a current within a coil of wire. When the current is stopped, the protons process about the earth’s magnetic field and in turn generate a small current in the wire. The frequency is proportional to the earth’s total magnetic field.

The instrument used for this survey was a McPhar GP-81 Proton Magnetometer. More information about the survey and instrument can be found on the Technical Data found in the back of this report.

Geonics EM-16

The VLF-EM method uses as a source, one of the main submarine communication transmitters in the 15 to 25 kHz band found throughout the world.

VLF instruments are capable of picking up these structures that change the direction of the waves by using the tilt angle of the major axis of the polarization ellipse. The direction of tilt indicates the direction of the conductor.

The VLF easily illustrates the location of the upper limit of dipping structures which can be seen or plotted as VLF profiles as areas of greatest change in tilt angle per unit of distance. The station used was Cutler, Maine, 24.0 kHz. For information about the survey and instrument can be found on the Technical Data Form in the back of this report.
OBSERVATION AND CONCLUSIONS

Magnetic Survey 2006:

The magnetic relief varied between 57,402 gammas to 59,304 gammas (difference of 1902 gammas).

The datum was subtracted at 57,000 gammas.

The field Map No. K14/2006/mag can be found at the back of this report. The magnetic trend is north to north/east direction.

Through the center section of the grid a large magnetic low anomalie is interrupted by a large high magnetic anomalie. The interruption of the two magnetic anomalies may indicate the presence of a west fault or shear zone that crosses the property in the opposite direction of the magnetic trend.

Electromagnetic Survey:

The field data is presented on a map at a horizontal scale of 1:5000 meters, Map Number K14/2006/vlf. The station, Cutler, Maine was used in this survey.

In this survey 2 anomalies was detected.
C1 - Crosses PL700N 500W to PL950N 485W.
The topography of the area ranges from pine, spruce, alder bogg to a small north east glacial esker. The quadrature is negative. This contact may well be geological noise.

C2 – Crosses PL 700N 1090W to PL950N 1075W.
The topography of the area ranges from the east slope of a small glacial esker to a flat spruce bogg to the south. The quadrature is negative. This contact may well be geological noise.

The results of this part of the survey are poor due to the amount of overburden in the area.

CONCLUSIONS

Due to the results of both the magnetic and electromagnetic surveys, a vertical loop EM unit should be run to further clarify the interruption between the magnetic high and low systems.

At present time all information of the winter and spring programs are being assessed by Tiger Gold Exploration. At present time a geological survey is being done.

Respectfully Submitted By

MAY 26,2006

Miss Wendy K. Weller
REFERENCES


TECHNICAL DATA

Line (mi/km) 18.2 km
No. of samples/stations 422

ELECTROMAGNETIC SURVEY:
Instrument: GEONICS EM-16
Coil configuration: HORIZONTAL
Method: FIXED TRANSMITTER
Vertical scale: 1 INCH = +- 40%
Frequency: CUTLER = 24.0 kHz
Operational technique: CUTLER, MAINE.

ALL READINGS TAKEN FACING NORTH 90 TO THE STATION.

MAGNETIC SURVEY:
Instrument: MCPHAR GP-8 PROTON
Base station: BL650N
Base station time: EVERY 60 MINUTES
Contour interval: 50-100 GAMMAS
Contoured by: WENDY K. WELLER
Operational technique: SENSOR POLE MOUNT

INDUCED POLARIZATION SURVEY
Transmitter used: Receiver used:
Method: Frequency:
On time: Range:
Off time: Delay time:
Power source: Output:
Electrode array: Electrode spacing:
Readings taken: Other data:
Operational technique:
**ASSESSMENT DATA FORM**

**Type of Work:**
- Prospecting:
- Geological:
- Physical: LINE CUTTING AND CHAINING
- Geophysical: ELECTROMAGNETIC (1 STATION) AND MAGNETOMETER SURVEYS
- Geochemical:
- Assay/Analyses:

**Cost of Work:** $11,490.00  
**Dollars applied:** $11,490.00

**Recorded holder:**
Name: PERRON GOLD CORPORATION
TIGER GOLD EXPLORATION CORPORATION

**Survey Company:**
Name: TIGER GOLD EXPLORATION CORPORATION

**Survey/Report Information:**
- Start of work: MAY 3, 06  
- End of work: MAY 24, 06
- Draughting time: MAY 22 /06, MAY 25 /06  
- Report time: MAY 24, 25 /06
- Completion of report: MAY 26 /06
- Author: MISS WENDY K. WELLER
- Work performed on claims: L4209407


**Persons who performed work (supervisor first):**
- TIGER GOLD EXPLORATION CORPORATION
- WENDY K. WELLER (Supervisor)
- ALAIN PARISCOAT  Linecutter
CERTIFICATE

I, Wendy K. Weller, of Virginiatown, Ontario, do hereby certify:

1) That I am a Geotech and reside at:

17 Hilltop Crescent
Box 252
Virginiatown, Ontario
P0K 1X0

2) That I graduated from the Haileybury School of Mines as a certified Diamond Driller in 1982. I had a staking license for the past 19 years.

3) That I was employed as a Diamond Driller for Heath and Sherwood for 1 year.

4) That I have been practicing as a Geotech for a period of nineteen (19) years and I am qualified to write this report.

5) That I supervised and participated in this survey.

Date

Wendy K. Weller Geotech
INSTRUMENTATION

Instrument Used: McPhar GP8

Datum subtracted: 57000

TIGER GOLD EXPLORATION CORP.
GROUND MAGNETOMETER SURVEY
CLIFFORD TOWNSHIP

232307

Report by: W. K. Weller

Map No. K-14/2006/mag

Scale 1:5000 M