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**Report**

**On**

**Mining Claims**

**SO 3018940 and 3018941**

**Butt Township**

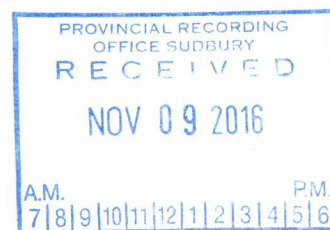
**District of Nipissing**

**Southern Ontario Mining District**

**Submitted By:**

**Richard Keevil , Geologist**

**November 11, 2016**



**Richard R. Keevil , P.Geo**

**1760 Ravenscliffe Road, Huntsville Ontario, P1H2J2, Tel. (705)7839499**

### **Introduction**

Mary-Ann, Michael, and Linda Gilchrist each own one third of two active mining claims 3018940 and 3018941 in Butt Township which is the area covered by this report.

Claim corner posts were located and photographed using a Garmin GPSmap 60CSx and a Canon Power Shot SD1300 IS (12.1 mega pixels).

This work is being submitted in compliance with the requirements for assessment work credits under the Mining Act of Ontario.

### **Location and Access**

The Mining Claims are located in the north-central part of Butt Twp in Ontario. Access is gained from Hwy 11 at Emsdale ; Hwy 518 through Kearney and Sand Lake to the Forestry Tower Road. Travel northeast for 15 km. towards the Tim Lake access point for Algonquin Provincial Park. Turn left before descending to the Tim River. The claims are located approximately 1 km. northwest intersected by recent logging roads and landings. These claims are about 3 km. up-strike from an inactive Open Pit Graphite Mine .

### **Previous Work**

GPS corner post locating was completed in 2014

#### **Geological**

Rick Keevil submitted geological reports as a result of field investigations with Vince Sheehan in November of 2012 and 2013

Anthony Menard submitted a Geological Report on the study area in October of 1993 in which he identified within a northeast/southwest trending metasedimentary rock exposures of graphite gneiss averaging approximately 2 to 3 % Graphitic Carbon in a Pelitic Metasedimentary Gneiss.

Further Investigations were undertaken by Don Baxter In November of 2004 and by Vince Sheehan in 2005 at which time a conductor was identified using an EM15

#### **Geophysical**

Richard Keevil and Robert Stead conducted a VLF electrical conductivity survey over the study area which identified several anomalies in 2011.

### **Geology**

The study area lies within the Parry Sound Domain of the Grenville Structural Province of the Precambrian Shield. Metasedimentary gneisses trend northeast/southwest and dip to the east at approximately 40 degrees. Within the pelitic metasediments are medium to coarse grained graphite flakes which were likely formed as a result of regional (high grade) metamorphism reaching upper amphibolite to granulite facies and transforming carbon into graphite. Further concentration may have occurred as a result of shearing and folding at depth which may have resulted in a stacking of graphitic layers.

Within this sequence are metapelites with metaquartzite, Amphibolite Gneiss, Quartzofeldspathic Gneiss and biotite gneiss. Most rocks have been crosscut and injected with Granitic Pegmatites to varying amounts. Some may be a result of local re-melting of silicate minerals.

**Fieldwork**

The author spent one day in the field sampling select outcrops to determine rock lithology of graphitic gneiss outcrops and quartz vein mineralogy.

**Rock Descriptions:****RK 16- 01**

Dark and rusty medium grained gneiss

Quartz clear glassy mainly in stringers 20%

Felspar (plagioclase) milky with rust stain 20%

Mica (biotite) 20%

Hornblende 20%

Garnet (almandine) 10-15%

Graphite 1-2%

Other Minerals 3-8%

Rock Name : Quartzo Feldspathic pelitic gneiss

**RK 16- 02**

Light grey and rusty medium grained gneiss with graphite flakes of medium size showing Slightly foliated

Quartz clear glassy throughout and as stringers. 20-25%

Feldspar plagioclase weathered milky on surface 40-45%

Garnet (almandine) fine grained disseminated 15%

Hornblende 15%

Mica (biotite) 10%

Graphite 1-1.5 % medium grained flakes.

Other minerals- 2-3%

Rock Name Quartzofeldspathic gneiss

RK 16- 03

Coarse grained with rusty stains

Quartz white glassy and milky large grains 70-80%

Mica (muscovite and biotite visible) 10%

Hornblende 5%

Feldspar 5%

Other minerals 1-2% (no gold visible)

Rock Name Pegmatite

RK 16- 04

White quartz with rusty sections

Quartz white milky massive with some rusty coating 90%

Garnet 2-3%

Mica 2-3 %

Hornblende 2-3%

Rock Name Quartz vein (no gold observed)

**Conclusions**

Similar rock types are the main graphite bearing host throughout Butt Township including the past producing mine. (presently Ontario Graphite)

-Graphitic layers exist within the study area. Claims (3018940 and 3018941) Butt Township.

-Gneissic layers within, above and below the graphitic layers contain similar lithologies to suggest that this is part of the graphite bearing pelitic metasedimentary sequence. Which extends towards the Ontario Graphite mine site to the east and towards Tim River to the west.

**Recommendations for further work.**

Stripping, trenching and sampling to further expose the graphitic zones would enable more detailed investigations. Samples should be tested for Graphitic Carbon.

Previous graphitic zone mapping 1993, 2012, 2013 by A. Menard should be sampled and assayed for graphitic carbon.

The EM 16 or similar Survey should be extended to include areas of claims not covered by recent reports using the same line orientation and VLF transmitting station used in 2008.

Targets for diamond drilling are indicated within these results. Inclined holes would help determine the true thickness of the graphitic layers.

Stripping, trenching and sampling to further expose the graphitic zones would enable more detailed investigations. Samples should be tested for Graphitic Carbon.

Petrographic studies should be undertaken on all rock types in the study area and compared with other studies in the area.

Quartz veins should be sampled and assayed for gold.

Aboriginal consultation should be initiated.

**Richard R. Keevil, Consulting Geologist**

**1760 Ravenscliffe Road, Huntsville Ontario, P1H2J2, Tel. (705) 783 9499.**

Received: 7057870554

Nov 9 2016 01:06pm

P010

11-09-16 14:00 FROM- near north business 7057870554

T-029 P0010

F-030

November 2, 2016

Mary-Ann Gilchrist  
304-118 Blair St  
North Bay ON P1A 4J1

Ministry of Northern Development and Mines  
Geoscience Assessment Office  
6<sup>th</sup> Floor, 993 Ramsey Lake Road  
Sudbury ON P3E 605

To Whom It May Concern:

Re: Claim Numbers SO 3018940 and SO 3018941

Please be advised that I authorize Richard Keevil to act as my Agent on the above-mentioned claims.

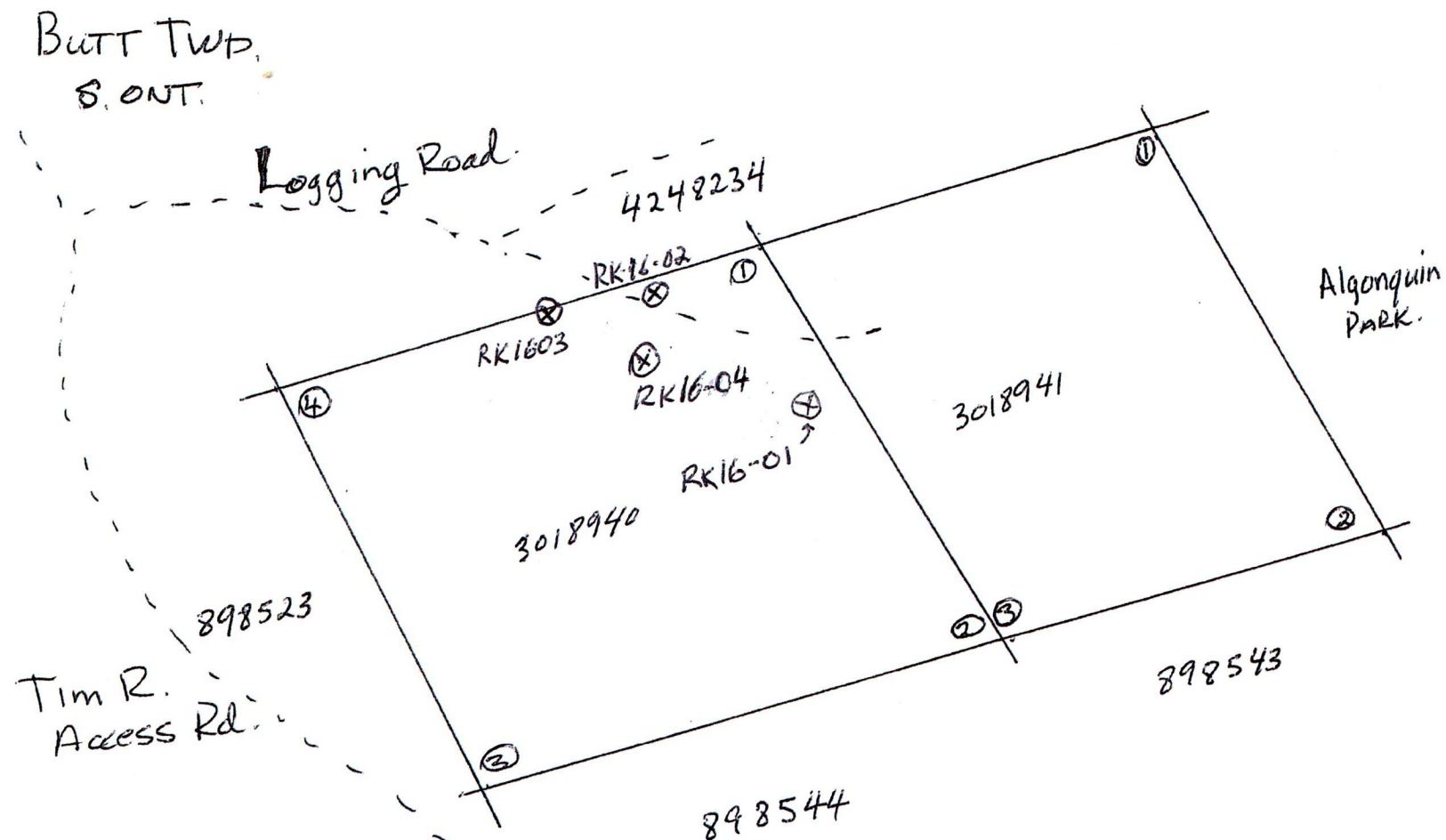
With thanks,

*Mary-Ann Gilchrist*

Mary-Ann Gilchrist



# SAMPLE LOCATIONS (2006)



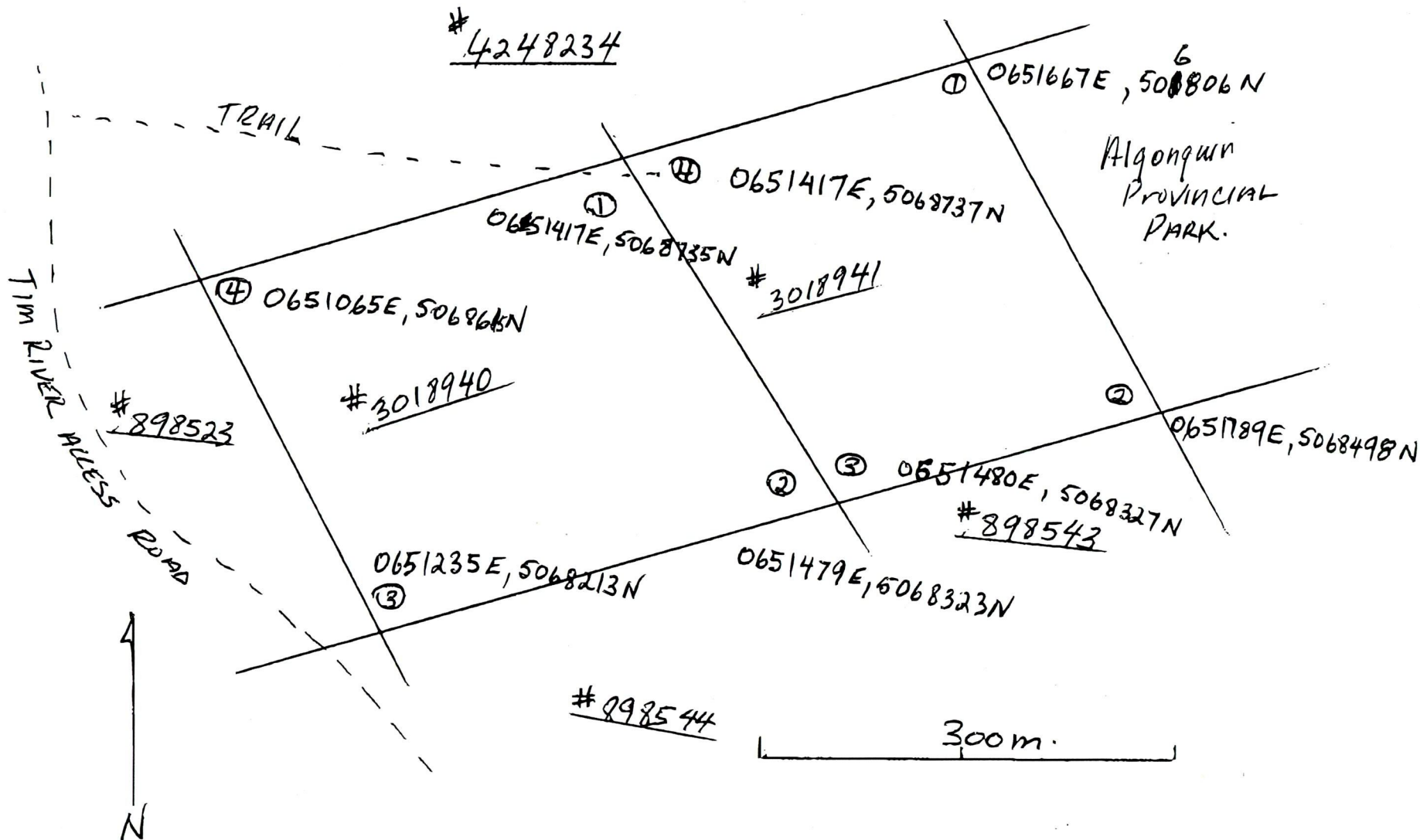
UTM, ZONE 17

- ⊗ RK16-01 - 651411, 5068652
- ⊗ RK16-02 - 651309, 5068689
- ⊗ RK16-03 - 651233, 5068676
- ⊗ RK16-04 - 651309, 5068681



GPS COORDINATES

Butt Township.  
S. ONTARIO



F-030

T-029 P0013

Nov 9 2016 01:06pm P013

7057870554

near north business

FROM-

11-09-'16 14:01

Received: 7057870554