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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 8, 2017**



DUPLICATE

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

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

## **Introduction**

Mary-Ann and Michael Gilchrist each own 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). GPS coordinates for the claim boundaries were adjusted by MNDM in February of 2016 as below. See attached map

Mining Claim Number	Post Number	Easting coordinate	Northing coordinate	Mining Claim Number	Post Number	Easting coordinate	Northing coordinate
3018940	CP1	651417	5068735	3018941	CP1	651660	5068805
	CP2	651479	5068323		CP2	651785	5068498
	CP3	651235	5068213		CP3	651479	5068323
	CP4	651065	5068615		CP4	651417	5068735

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**

A Geological report was submitted by Richard Keevil on November 11, 2016.

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**

Field work was conducted by M.McBrien and R.Keevil on November 6, 2017 sampling select outcrops to determine rock lithology of graphitic gneiss outcrops and quartz vein mineralogy.

MNDM supplied GPS Coordinates for no.1 and 2 on claim 3018940 and nos.1-4 Post on claim 3018941 were flagged in the the field.

## **Rock Descriptions:**

S1 0651532 E 5068352N

Light to medium grained gneiss

Quartz clear glassy mainly in stringers 20%

Felspar (plagioclase) milky 25%

Mica (biotite) 20%

Horneblende 20%

Garnet (almandine) 5 %

Other Minerals 3-8%

Rock Name :Quartzo Feldspathic pelitic gneiss

S2 0651481E 5068331E

Dark fine grained gneiss

Horneblende 70-85%

Biotite Mica 10

Other minerals- 2-3%

Rock Name Amphibolite

S3 0651307 E 5068489 N

Coarse to medium grained grey with rusty stains

Plagioclase Feldspar 40%

Quartz 20%

Mica (muscovite and biotite ) 10%

Hornblende 20%

Graphite 2-3%

Other minerals 1-2% (no gold visible)

Rock Name Graphitic gneiss

S4 0651278E 5068461N

Medium grained dark grey gneiss

Hornblende 50%

Feldspar 25%

Biotite mica !5%

Quartz 10%

Garnet 2 -5%

Rock Name Amphibolite gneiss

S5 0651259E 5068434 N

Light and dark mottled gneiss

Hornblende 40%

Feldspar 40%

Biotite 10%

Garnet 5%

Rock Name Honblende Feldspathic gneiss  
S6 0651221E 5068409 N

Grey rusty medium grained gneiss

Hornblende 30%

Feldspar 30%

Quartz 15-20%

Mica 10-15%

Garnet 2-5%

Graphite 1-2%

Rock Name Graphitic gneiss

### **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. This report confirms findings by A.Menard 1993.

-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.

The EM 16 or similar Survey should be extended to include areas of claims not covered by recent reports using the same line orientaton 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.

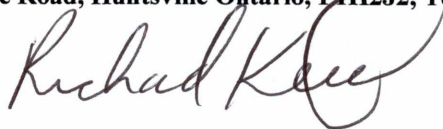
Petrographic studies should be undertaken on all rock types in the study area and compared with other studies in the area.

Quartz veins should be sampled and assayed for gold.

Aboriginal consultation should be initiated

**Richard R. Keevil , Consulting Geologist**

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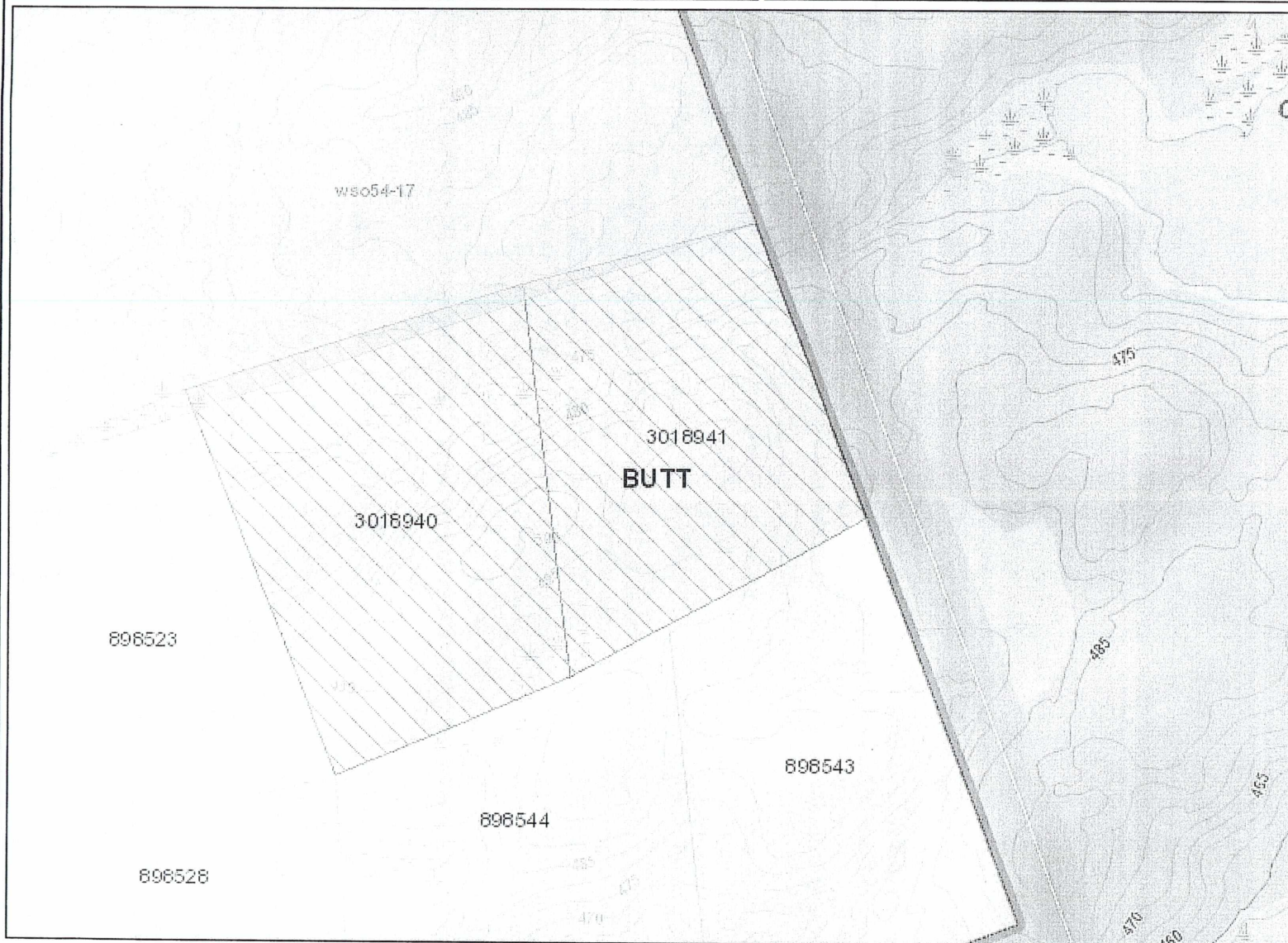
A handwritten signature in dark ink, appearing to read "Richard Keevil". The signature is fluid and cursive, with the first name "Richard" and last name "Keevil" clearly distinguishable.





## Gilchrist Claims

Notes:  
Enter map notes



### Legend

#### Administration Boundaries

- Mining Divisions
- Resident Geologist District
- Townships and Areas
- UTM Grid
- Geographic Lot Fabric
- Other Federal Land

#### Mineral Tenure Grid

- OMTG Tenure Grid

#### Alienations

- Withdrawal
- Notice

#### Unpatented Claim

- Active
- Reconciled
- Pending

#### Disposition

- Disposition

#### Disposition Symbols

- Camp
- Disposition Unknown/Pending
- Freehold Patent Mining Rights Only
- Freehold Patent Surface Rights Only
- Freehold Patent Surface and Mining Rights
- Land Use Permit
- Leasehold Patent Mining Rights Only
- Leasehold Patent Surface Rights Only
- Leasehold Patent Surface and Mining Rights
- License of Occupation Mining Use Only
- License of Occupation Surface Use Only
- License of Occupation Surface and Mining Rights
- License of Occupation Uses Not Specified
- Order in Council
- Tower
- WPLA

#### Geology Layers

- AMIS Sites
- AMIS Features
- Drill Holes
- Mineral Occurrences

0 0.32 km

Projection: Web Mercator

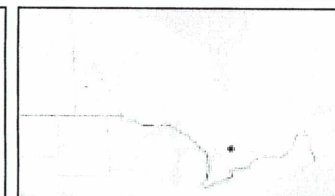


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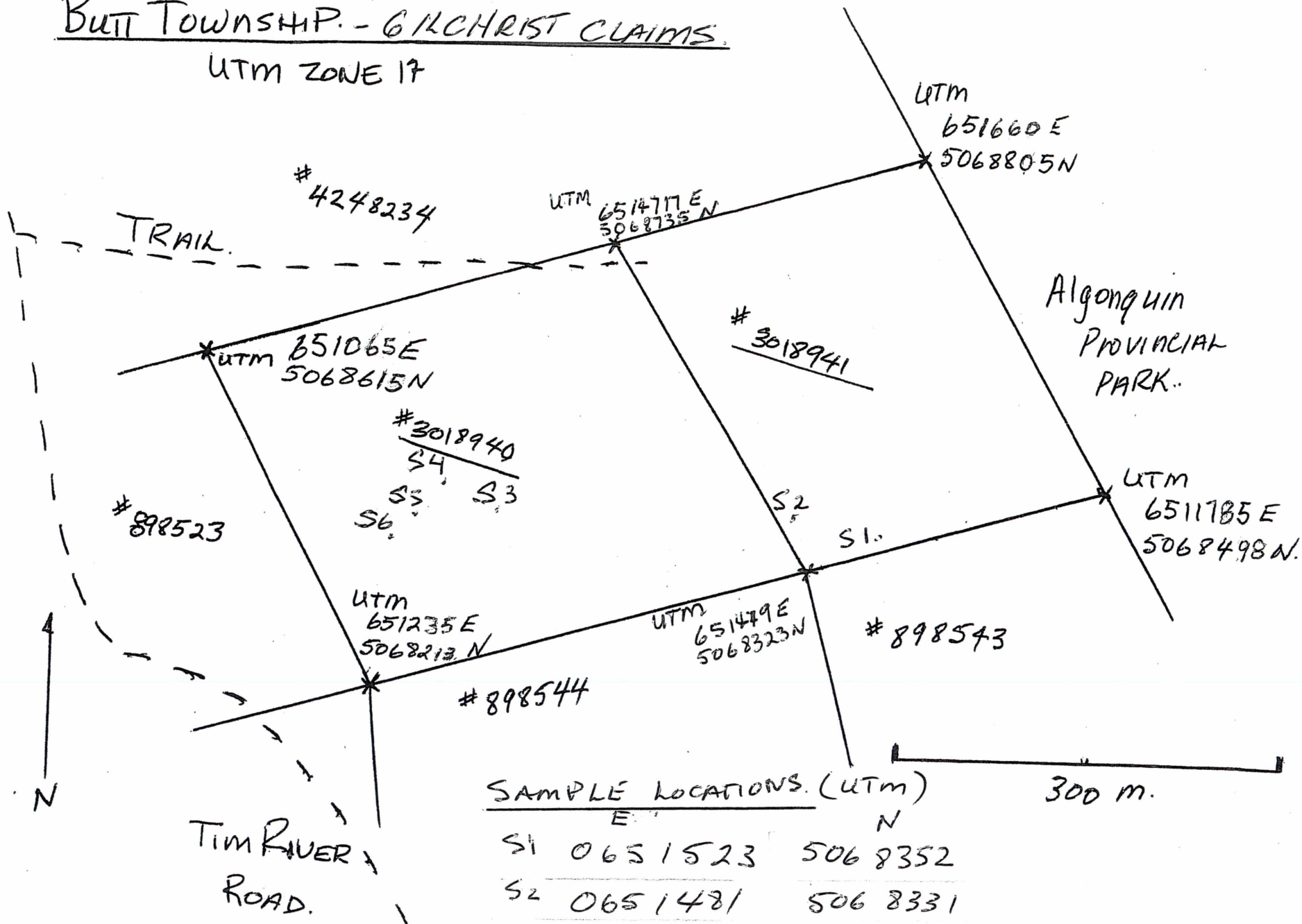
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# BUTT TOWNSHIP. - GILCHRIST CLAIMS.

UTM ZONE 17



## SAMPLE LOCATIONS. (UTM)

	E	N
S1	0651523	5068352
S2	0651481	5068331
S3	0651307	5068429
S4	0651278	5068461
S5	0651259	5068434
S6	0651221	5068409