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Racicot Geological Consulting

# 2017 ASSESSMENT REPORT - Claim 4278265

2017 Filing

F. Racicot and M. Gaudreau  
4-25-2017

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## 1.0 LOCATION

The property is located about 7 km south of Wawa, Ontario (Figure 1). Wawa is located about 180 km north of Sault Ste. Marie Ontario.

Access to Wawa is easily attained by driving north from Sault Ste Marie along the northeastern shore of Lake Superior via Trans-Canada Highway 17.

The Wawa area can also be reached by driving west along Highway 101 from Timmins.

The claim can be reached by driving south from Wawa for approximately 7 km and then turning west on the road known as "Old Tote Road". One can park right beside the highway, as Highway 17 cuts through the claim. The coordinates where a vehicle can be parked next to the highway are approximately 663866E and 5312968N. Figure 1 shows the claim location

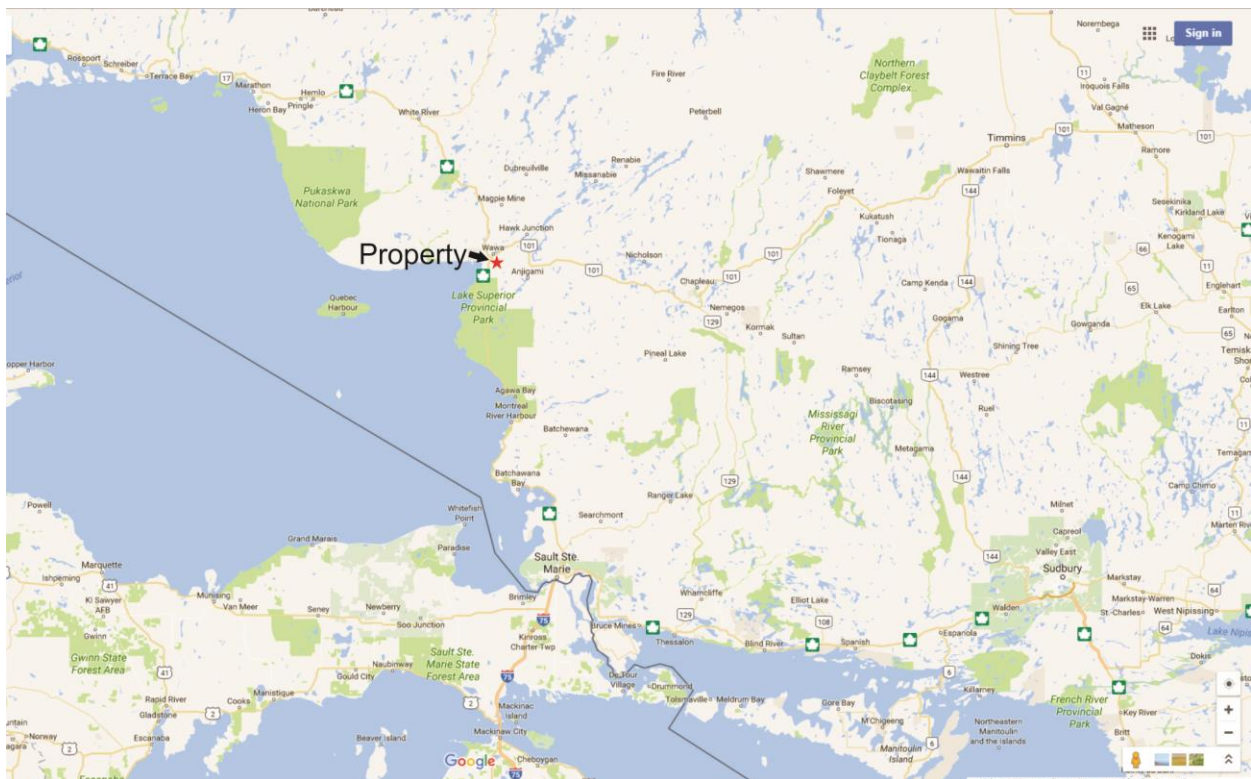
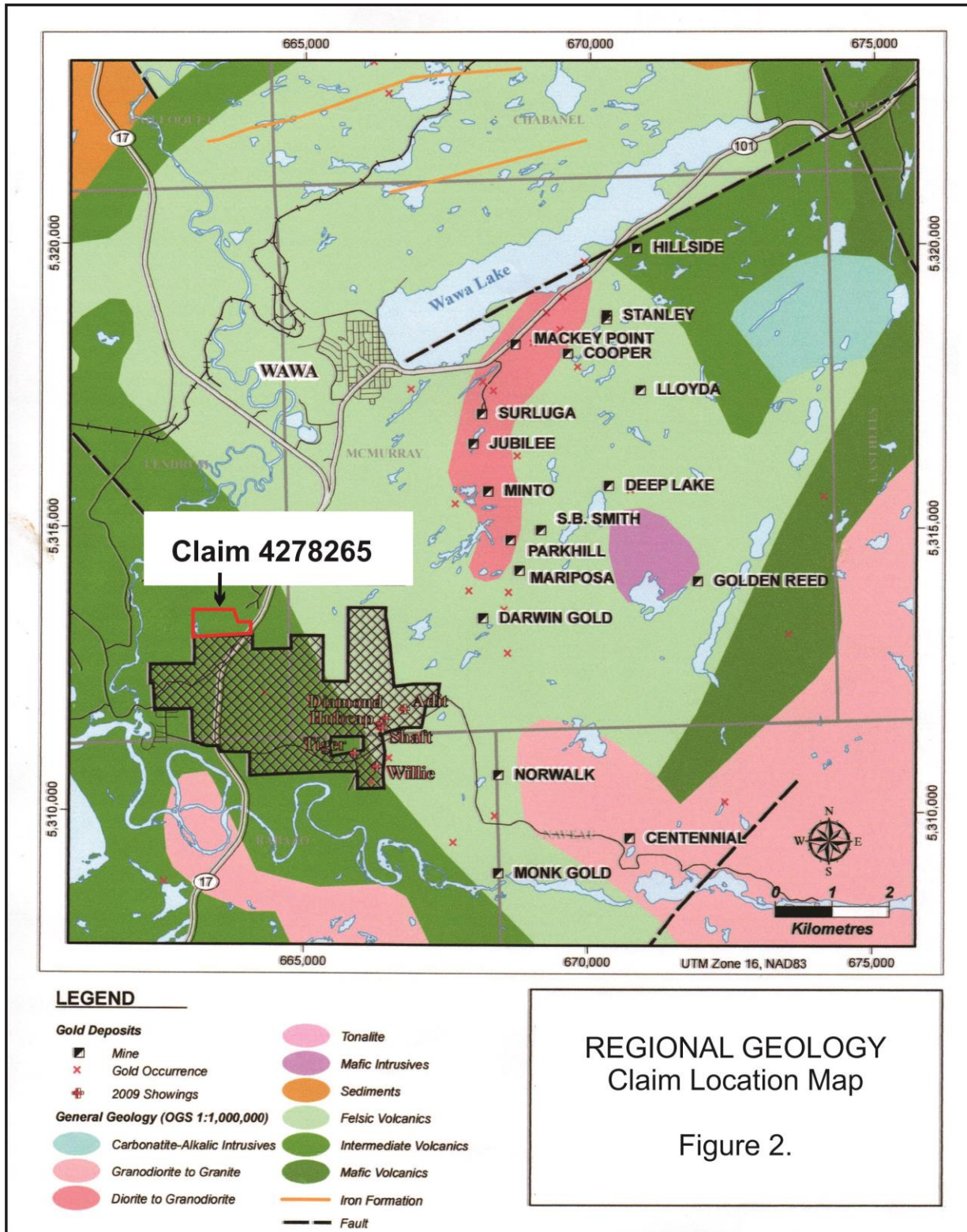


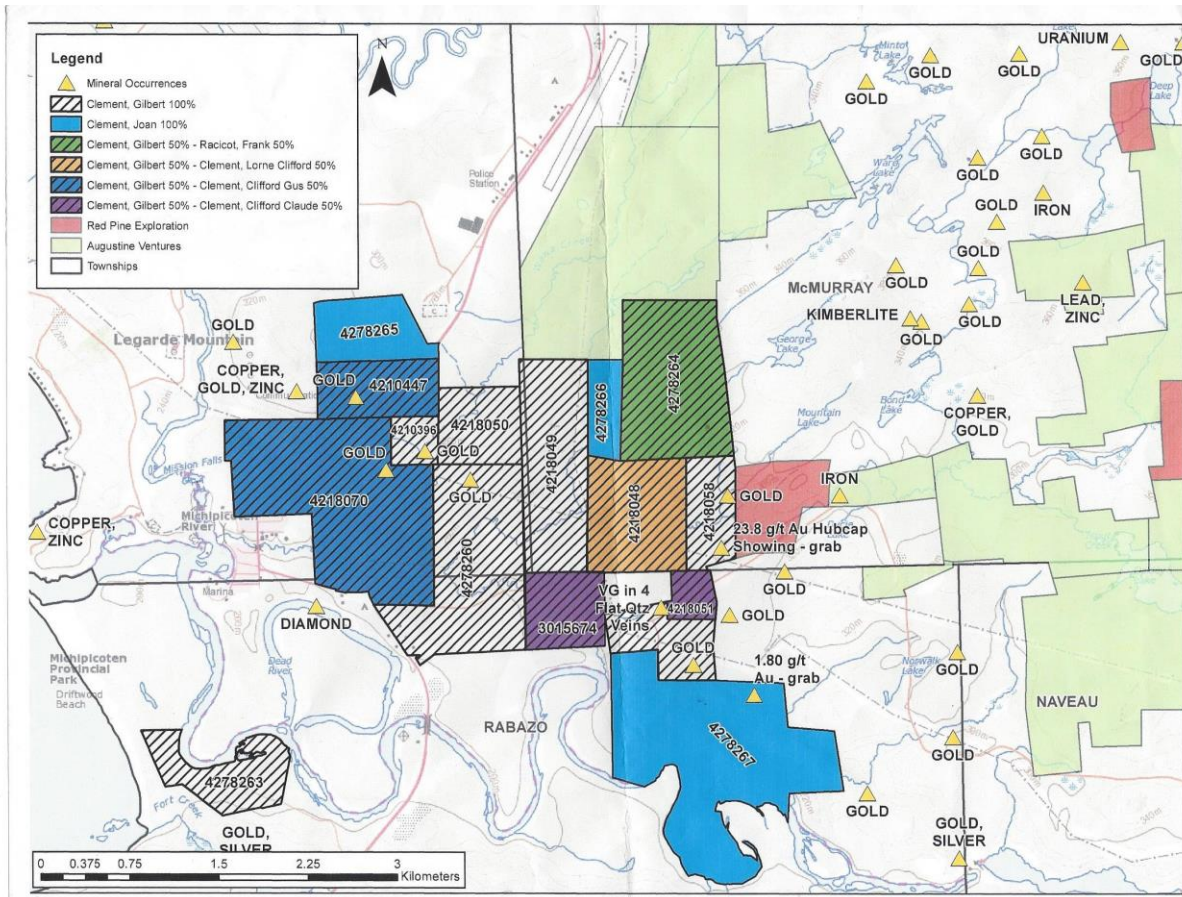
Figure 1

## 2.0 CLAIM STATUS

This report covers only one claim, 4278265 located in Lendrum Township. It is a 3 unit

claim and is located in the Sault Ste Marie Mining Division. It is currently owned by Joan Clement of Wawa, Ontario. It requires \$1200 worth of assessment work per year. Figure 2 shows the location of claim 4278265.





Map showing contiguous claim block with vested interested.

### 3.0 TOPOGRAPHY AND CLIMATE

The area around Wawa can be quite rugged with streams, rivers and lakes cut into hills that are up to 335 m above Lake Superior. The underbrush is very thick in some areas with maple, white and yellow birch, spruce and pine abundant in the area.

The Wawa area is in a "shadow zone" east of Lake Superior with up to 35" - 40" of precipitation annually.

### 4.0 REGIONAL GEOLOGY

The area is in the Abitibi- Michipicoten "greentsone belt" and is part of the Archean Superior Province. it is located about 48 km west of the "Kapuskasung Structure", which is a zone of crustal rifting that appears to end near Lake Superior, about 48 km south of Wawa. The Kapuskasing Structure is associated with the Borden Lake Mine, a relatively recent gold discovery by Probe Mines Limited and currently owned by Goldcorp Inc.

The oldest rocks in the area are an interfingering pile of mafic and felsic rocks with associated metasedimentary rocks. The entire sequence is intruded by various mafic and felsic intrusive rocks of different ages.

The Early Precambrian rocks are intruded by mafic or ultramafic dikes and plutons that vary in age from possible Archean to Middle Precambrian. A group of small, irregularly shaped, medium-to coarse-grained, mafic to ultramafic plutons describe the oldest of these mafic units. They weather recessively and generally outcrop around lakes and other depressions. It is said that they are sometimes difficult to distinguish between northwest trending diabase dikes.

There are two (2) sets of diabase dikes in the area; one trends north-northwest and the other trends northeast. Some of the northwest-trending dikes are lamprophyres which occupy faults with significant displacement.

The youngest deconsolidated rocks in this area are part of the Firesand Carbonatite. This unit is a concentrically zoned magmatic intrusion of calcite and dolomite with steep inward dips. There are numerous lamprophyre dikes which occur as ring dikes around the Firesand Carbonatites and as recessively weathered, northeast trending linear depressions.

## 5.0 LOCAL GEOLOGY

The main geologic feature in McMurray Township, which is the township located east of Lendrum township is the Jubilee Stock. It is an epizonal intrusive, composed of diorite, quartz diorite and granodiorite. It contains abundant xenoliths and blocks of supracrustal rock. This is the most significant rock unit as that is where much of the current gold exploration is currently underway. Figure 3 shows the geology of Lendrum and neighbouring McMurray Township.

East, south and southwest of the Jubilee stock (towards claim 4278265), tuffs, feldspar crystal tuffs and lapilli-tuffs of andesitic to dacitic composition are quite extensive. Bedding in these rocks is rarely found and when it is found, it generally dips away from the Jubilee stock at angles from 20 to 50 degrees.

Isolated patches of quartz feldspar rocks form a slightly discontinuous arc around the Jubilee stock. It has been speculated that this crude ring-like feature represents a series of caldera-like fractures surrounding the Jubilee stock.

The Jubilee stock and the aforementioned tuffs are intruded by massive, mafic, dike-like rocks. These dike-like bodies generally trend east-west or northwest and are usually fine-to medium grained.

There are two interesting rock units east of the Jubilee stock. One is a polymictic, clastic unit which is a possible lahar or debris flow. A thick unit of flow-banded, quartz porphyry occurs just to the south of the polymictic unit mentioned above. Both of these units have a northeast trend; yet rare bedding in the clastic unit and flow banding in the quartz porphyry unit, indicates that they strike north to northwest.

According to the government geology map(s), mafic volcanic rocks cover the entire area over claim 4278265. As well, felsic volcanic rocks are located just east of the claim and on into McMurray Township. The metamorphic grade of the mafic volcanic rocks is lower greenschist facies characterized by chloritoid and epidote.

In the northeast part McMurray Township, vertically dipping pillowed, mafic to intermediate volcanics flows are present. This most likely describes the mafic rocks in claim 4278265, as well as the nearby more felsic rocks situated to the east.

An interesting observation occurs in some of the basalt in neighbouring McMurray Township that may have some relevance to the basalt in Lendrum Township. In some places, there are crude sill-like intrusions of meta-gabbro which intrude the rhyolite, iron formation and lowermost units of the basalt. The wall rocks near the contact of the metagabbro and the metagabbro bodies themselves are often highly carbonatized.

A composite mafic intrusion at Reed Lake composed of gabbro, quartz gabbro, quartz diorite and pyroxenite occurs next to the Jubilee stock. However, it is unsure what the relationship between these two rock units is.

The Judith iron range, a 10-15 km wide iron formation and various associated rocks, occur south of Highway 101. Some disseminated sulphides and local pods of pyrite up to 1 meter wide are situated between the iron formation and felsic volcanics.

As elsewhere in the region, northwest trending diabase dikes and narrow (1 meter wide), northeast trending biotite-rich and olivine-rich lamprophyre dikes occur on the property.

The Firesand River Carbonatite Complex, previously described, straddles McMurray Township and Lastheels Township

## 6.0 FIELD WORK AND RESULTS

Frank Racicot was assisted on April 6<sup>th</sup>, 2017 for a half day by prospector, Gilbert Clement of Wawa. On April 7<sup>th</sup>, 2017, a half day of prospecting was completed by Gilbert Clement and assistant Brad Lamothe of Espanola. During their half day 'sojourn', while Frank Racicot was working on the detailed map area, the two (2) assistants discovered a 2 foot wide quartz vein and a lamprophyre dike 700 meters to the west.



Sample Brad #1, was taken from the edge of the quartz vein outcrop (refer to photo 3).

F. Racicot did a simple field sketch based on his observations that showed some of the geology and structures in vicinity of the samples (see Figure 4). While the sketch is relatively simple and geographically limited, it gives an idea of the general nature of the main foliation trend and the main rock unit. A total of 6 samples were taken and sent to the local Wesdome lab in Wawa.

The best results (1.36 g/t Au), were from sample Brad #1. This sample was a 2 feet wide quartz vein located about 700 m west of the map area (refer to photo 3). The quartz vein had a strike of about 120 degrees.

Refer to the table below that summarizes the description and location of all 6 field samples in Table 1. Field sample locations are shown on Figure 4.

**Table 1**

Sample Number	Easting	Northing	Description	Au (g/t)
JC-1	663800	5313198	Slightly rusty, sugary quartz in an 8-10" quartz pod; strike 030/dip 60N	0.002
JC-2	663800	5313195	Similar to above but only 3m away; strike 040/ dip 30 W	0.002
JC-3	663765	5313222	Slightly rusty, fine grained, dark mafic rock	0.52
JC-4	663760	5313150	1" to 1.5" quartz vein with some fragments of mafic country rock. Some rusty fractures in the quartz vein	0.72
JC-5	663760	5313150	Rusty, irregular, dirty white quartz with rusty spots and dark edges: vein is 8-12" wide and strikes at 040 degrees: dip 80W	0.64
Brad #1	663093	5313209	2 ft. sugary quartz with slightly dark edges; strike 120 degrees/dip 45 S (See Photo): Located 700m west of sketch area	1.36
Brad #2	663159	5313108	Medium grained, dark, magnetic lamprophyre (not sent in for assay)	-

## 7.0 SUMMARY

The area around a small northeast draw near the southeast part of claim 4278265 was prospected and mapped. Five samples were taken from this area and a detailed sketch at a scale of 1:500 was drawn. The area seems to have a variety of fracturing, foliation and varying amounts of shearing (see photo 1). Scattered patches of medium to coarse grained basalt, referred to as "gabbro patches", seem to indicate that there is a varying degree in shearing intensity in a very confined area. (see photo 2).

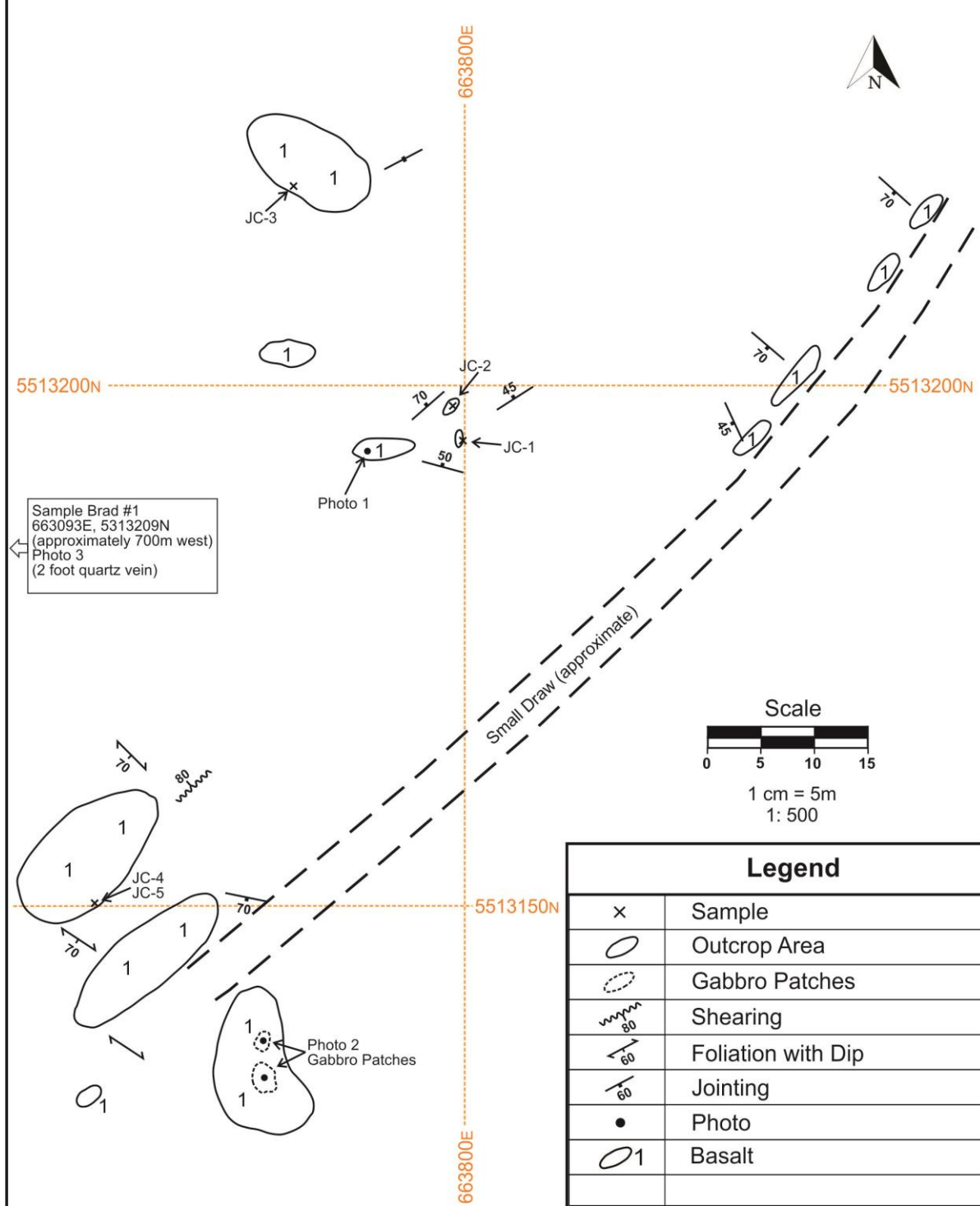
The best sample was sample 'Brad#1'. It came from a 2 feet wide quartz vein, located about 700 meters west of the map area. It had an assay value of 1.36 g/t Au.

## 8.0 CONCLUSIONS AND RECOMMENDATIONS

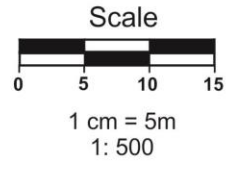
Based on the favourable results, the area should be prospected and sampled in more detail. Specifically, attention should be paid to the orientation and intensity of shearing and jointing. Perhaps a code could be used that would allow one to quantify the intensity of shearing.

Additionally, the area where the 2 foot quartz vein that had 1.36 g/t Au was located should be prospected. Especially with so few samples taken. It should be determined if this is just one isolated vein, or part of a series of veins.

# Geology and Sampling Location Sketch, Claim 4278265 Lendrum Township



Sample Brad #1  
663093E, 5313209N  
(approximately 700m west)  
Photo 3  
(2 foot quartz vein)



<b>Legend</b>	
x	Sample
○	Outcrop Area
○	Gabbro Patches
~	Shearing
// 60	Foliation with Dip
// 60	Jointing
•	Photo
○1	Basalt

Figure: 4 F. Racicot April 2017



Photo 1.



Photo 3.



Photo 2.

## 9.0 STATEMENT OF QUALIFICATIONS

### STATEMENT OF QUALIFICATIONS for: FRANK RACICOT

This is to certify that I, Frank Racicot:

- I reside in 734 Whittaker St., Sudbury, Ontario, P3E 4B2
- I am an independent geological consultant with over 35 years varied experience in mineral exploration in Canada.
- I graduated in 1974 from Laurentian University, in Sudbury Ontario with a BSc in geology.
- I am a member in good standing of the Association of Professional Geologists of Ontario (APGO)

Dated this 25th day of April, 2017, at Sudbury, Ontario



Frank Racicot P. Geo (#0958)

## 10.0 REFERENCES

Sage, R.P., Sawitsky E., Turner, J., Leeselleur, P. and Sagle, E  
1982: Precambrian Geology of McMurray Township, Wawa Area, Algoma District;  
Ontario Geological Survey Preliminary Map P 2441. Geological Series, Scale 1:15,840  
or 1 inch to 1/4 mile. Geology, 1979.

Rupert, R. J.  
1975: McMurray Township and parts of surrounding townships, District of Algoma;  
Ontario Div. Mines, Prelim Map P.828, Geol. Ser., scale 1 inch to 1/2 mile. Compilation  
1970 to 1972. OFR5283

1990 Assessment Report, by Seamour M. Sears  
41N15NE0015

# 11.0 ASSAY CERTIFICATE

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PAGE 02/02

Tray No: (Fusion) 16

Daily Tray: 13

Tray No: (Cup) \_\_\_\_\_

Tray No: (Parting) \_\_\_\_\_

## CUSTOM

### Daily Work Sheet

Sample Type: JOAN CLEMENT

Date April 12/17

No.	Sample number	Au g/tonne	Au mg	Residue Weights	Target Weights
18					
19	SC #1	0.02	—		
20	SC #2	0.02	—		
21	SC #4	0.52	0.13		
22	SC #5	0.72	0.18		
23	SC #6	0.64	0.16		
24	BRAO #1	1.36	0.34		
25					
26					
27					
28					
Cu- 13/8	BBABBB Preparation	SOB Weighing	KK Mixing	Furnace Operator	JP Microbalance

**DAILY ASSAY REPORT  
EAGLE MINE**

Sample Type: Custom Assay

Reported By: James Pahpeguish

Date: 12-Apr-17

Sample Number		Au g/t	Chk
1	JC #1	0.002	
2	JC #2	0.002	
3	JC #4	0.52	
4	JC #5	0.72	
5	JC #6	0.64	
6	Brad #1	1.36	

Verified By: James Pahpeguish

CALL JOANIE @

705-856-1704