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# Prospecting Report on the Currie Property Currie Township, Larder Lake Mining Division

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#### 1.0 Summary

Prospecting surveys were carried out on the Currie property by David Lefort, Jacques Robert, and Andrew McLellan. The prospecting surveys were completed two phases. The first phase was completed on August 9<sup>th</sup>, 2018 and the second phase was completed on November 2<sup>nd</sup> and November 3<sup>rd</sup>, 2019. A total of seven grab samples were taken during the two phases.

#### 2.0 Location and Access

The Currie property is located in the southwest corner of Currie township and southeast corner of Bond township. The property can be accessed by driving 65km east of Timmins taking Highway 101 and Bond Currie Boundary Road. The property is 8 kilometers south of Highway 101. There is a network of lumber road/trails throughout the property that can be travelled using an ATV.

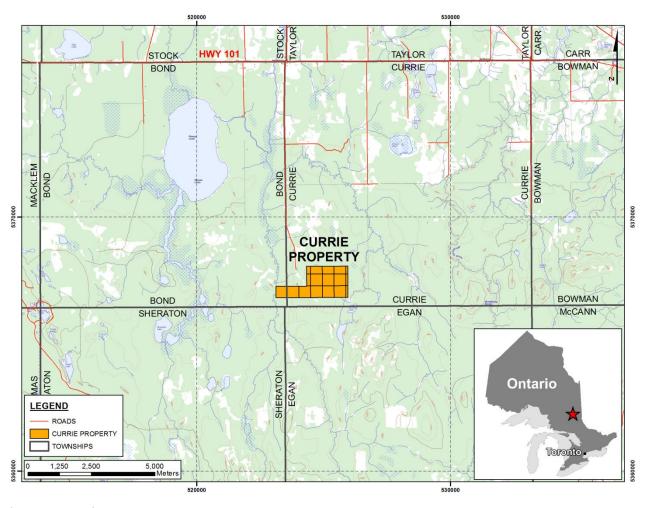


Figure 1: Location Map

#### **3.0 Property Description**

The prospecting area is comprised of 11 boundary and 6 single cell mining claims in Currie and Bond Township (see Figure 2 below). The property ownership is jointly held by Jacques Robert (75%) and Andrew McLellan (25%). Table 1 below provides a description of the mining claims.

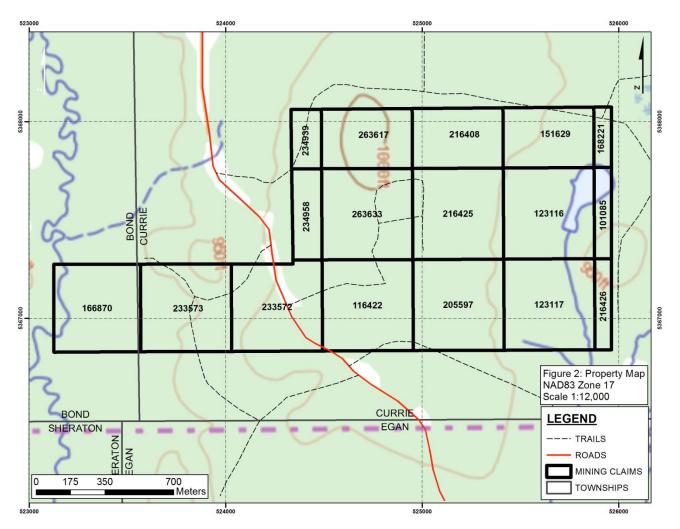


Figure 2: Property Map

**Table 1: Mining Claim Descriptions** 

Tenure Number	Title Type	Township	
101085	Boundary Cell Mining Claim	Currie	
116422	Single Cell Mining Claim	Currie	
123116	123116 Single Cell Mining Claim		
123117	Single Cell Mining Claim	Currie	
151629	Boundary Cell Mining Claim	Currie	
168221	Boundary Cell Mining Claim	Currie	
166870	Boundary Cell Mining Claim	Bond & Currie	
205597	Single Cell Mining Claim	Currie	
216408	Boundary Cell Mining Claim	Currie	
216425	Single Cell Mining Claim	Currie	
216426	Boundary Cell Mining Claim	Currie	
233572	Boundary Cell Mining Claim Currie		
233573	Boundary Cell Mining Claim	Currie	
234939	Boundary Cell Mining Claim	Currie	
234958	Boundary Cell Mining Claim	Currie	
263617	Boundary Cell Mining Claim	Currie	
263633	Single Cell Mining Claim	Currie	

#### 4.0 Historical Work

E.J. Leahy with the Ontario Department of Mines published a preliminary geology map of Currie township in 1963 (P.204). The OGS geological surveys covered the majority of the Currie property. (Leahy 1963)

An airborne gamma ray survey (total counts) was completed over the Currie property's area in 1976. The survey was for claim holder Daniel Rochon. The purpose of the survey was to locate possible granite outcrops (or high potassium rocks). (Gledhill 1977)

In 1997, Cross Lake Minerals intersected 6.71% Zn, 1.86% Pb, 0.16% Cu, and 122 g/ton Ag over 32.9 metres 6.6 km southwest of the Currie property (see Figure 3 next page). The Cross Lake Discovery mineralization is semi-massive sphalerite and galena hosted in a highly deformed sericite schist unit. (Maass 1998)

In response to the increased interest in the region, Moss Resources Inc. and Greenshield Resources Inc. formed a joint venture partnership and acquired the Curregan property. During the winter of 1998 the 50-50 joint venture completed a magnetometer, VLF-EM, max-min-EM, and IP surveys over the Currie property. Later in 1998 a 964 metre drill program was completed to explain the IP anomalies, VLF-EM conductors, and magnetic features delineated by the geophysical surveys. One of the seven drill holes

drilled was located on mining claim 263617 of the Currie property. This drill hole (C-98-6) encountered mafic volcanics, feldspar porphyry, lamprophyre dyke, and intermediate volcanic flows. The best intercept of this drill hole was 0.1 g/t Au over 4.2 metres in the lamprophyre dyke unit. The azimuth of C-98-6 was 180 degrees, dip was -55 degrees, and the length was 177 meters. (Maass 1998)

There has been no other work completed on the property since 1998.

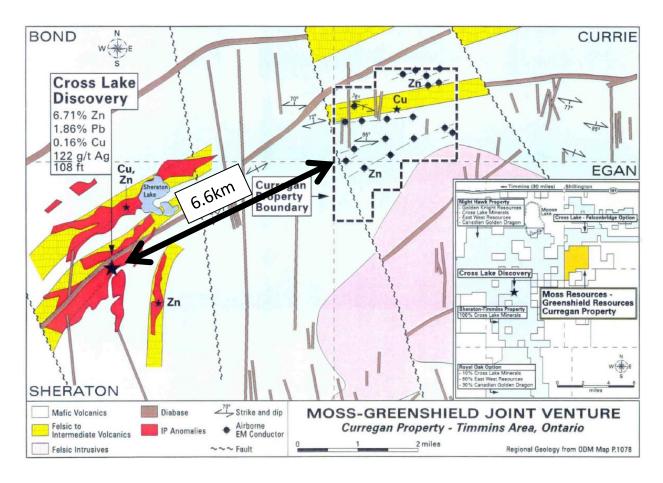


Figure 3: Cross Lake Discovery Map

#### 5.0 Regional Geology

The Currie Property is in the western Abitibi Greenstone Belt of the Superior Province. It is underlain by Archean greenstone deposited about 2.7 Ga. The belt is host to orogenic gold deposits, volcanogenic massive sulfide, and komatiite copper-nickel deposits. Mafic to felsic volcano-sedimentary strata predominate, but ultramafic volcanic and intrusive rocks are common as are syn- and post-volcanic gabbro and granitic rocks. Abitibi volcanic rocks are generally metamorphosed to greenschist faces and trend east-west. (Tempelman-Kluit 2017)

Two east-west trending, steeply dipping deformation corridors of branching high strain zones transect the western Abitibi (Figure 3). The northern deformation zone is called the Destor-Porcupine fault zone and the southern deformation zone is the Larder Lake-Cadillac fault zone. Many gold deposits in the Abitibi greenstone belts are spatially related to these two deformation zones. (Tempelman-Kluit 2017) The Currie property is 10 kilometres south of the Destor-Porcupine fault zone.

North trending Matachewan Diabase dykes intruded the Archean rocks. The age of the Matachewan Diabase dyke swarm is 2.5-2.45 Ga. (Tempelman-Kluit 2017)

#### **6.0 Property Geology**

The diamond drill program completed by the Moss-Greenshield joint venture on the Currie property intersected mafic to intermediate volcanics and intermediate to felsic lapilli tuffs intruded by numerous quartz/feldspar porphyry, lamprophyre, and diabase dykes. (Maass 1998)

#### 7.0 Prospecting Surveys

The prospecting surveys were carried out in two phases. The first phase was completed on August 9<sup>th</sup>, 2018 and the second phase was completed on November 2<sup>nd</sup> -3<sup>rd</sup>, 2019. During the first phase Jacques Robert, David Lefort and Andrew McLellan prospected mining claims 234939 and 263617. One grab sample was collected in mining claim 263617. During the second phase Jacques Robert, David Lefort and Andrew McLellan prospected mining claim 233573, 233572, 116422, 263633, 263617, and 216408. Three grab samples from mining claim 263617 and three grab samples from mining claim 233573 were collected during the two days of surveys. ATVs were used for prospecting the clear cuts and traveling around the property during both phases. The map below (Figure 4) illustrates our tracks for each day and the grab sample locations.

A total of seven grab samples were collected. Four out of the seven grab samples are mineralized with pyrite and one of the grab samples is mineralized with trace pyrrhotite. Grab samples 5945, 5948, and 5950 are the most mineralized samples out of the seven. The grab sample rock types are gabbro/norite, quartz feldspar porphyry, tuff, and basalt. Detailed grab sample descriptions and mineralization observations can be found in Appendix 3. Photos of the grab samples can be viewed in Appendix 4.

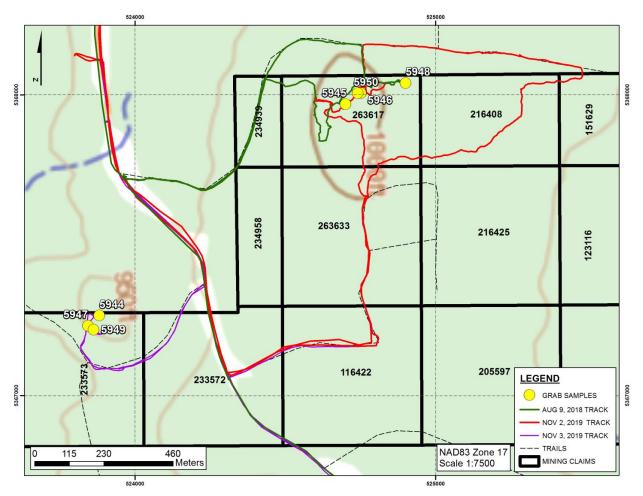


Figure 4: Prospecting Map

#### 8.0 Conclusion and Recommendations

Prospecting of the Currie property was completed over three field days. A total of seven garb samples were collected. Grab samples 5945, 5948, and 5950 were the most mineralized samples out of the seven. It is recommended that the three samples are sent to an accredited geochemical analysis lab for gold fire assay. If the gold assay results return favorable results further prospecting of the Currie property is recommended. The property being located in the western Abitibi Greenstone Belt, 6.6 kilometres northeast of Zn-Pb-Ag-Cu Cross Lake Discovery and 10 kilometres south of the Destor-Porcupine fault zone makes Currie property prospective for orogenic gold deposits, volcanogenic massive sulfide, and komatiite copper-nickel deposits.

Sincerely,

Andrew Douglas McKillop McLellan

November 14, 2019

## Appendix A: Daily Log

Date	Daily Activities				
August 8, 2018	- Mobilized to Timmins				
	(A. McLellan)				
August 9, 2018	- Mobilized to the Currie Property				
	- Prospecting surveys in mining claims 234939 and 263617				
	- Took one grab sample in claim 263617				
	- Demobilized from the Currie Property				
	(J. Robert, D. Lefort, A. McLellan)				
August 10, 2018	- Demobilized from Timmins				
	(A. McLellan)				
November 1, 2019	- Mobilized to Timmins				
	(A. McLellan)				
November 2, 2019	- Mobilized to the Currie Property				
	- Prospecting surveys in mining claims 233572, 116422, 263633, 263617, and 216408				
	- Took three grabs sample in claim 263617				
	- Demobilized from the Currie Property				
	(J. Robert, D. Lefort, A. McLellan)				
November 3, 2019	- Mobilized to the Currie Property				
	- Prospecting surveys in mining claims 233573 and 233572				
	- Took three grabs sample in claim 233573				
	- Demobilized from the Currie Property				
	(J. Robert, D. Lefort, A. McLellan)				
November 6, 2019	- Demobilized from Timmins				
	(A. McLellan)				

# Appendix B: Expense Summary

Phase I August 8, 9, 2019	km	Assessment Credit
Transporation - \$0.50 per km		
J. Robert - Porcupine to Currie Property	100	\$50.00
D. Lefort - Timmins to Currie Property	130	\$65.00
A. McLellan - Sudbury to Timmins	650	\$325.00
A. McLellan - Timmins to Currie Property	130	\$65.00
3 ATVs for one day x \$150 per ATV		\$450.00
Fieldwork - 1 day grassroots exploration x 3 people		
\$500 per day x 200% incentive		\$3,000.00
Mobilization to/from Timmins (\$500 per day) - AM		\$1,000.00
Phase II November 1, 2, 3, 2019	km	Assessment Credit
Transporation - \$0.50 per km		
D. Lefort - Timmins to Currie Property	260	\$130.00
A. McLellan - Sudbury to Timmins	650	\$325.00
A. McLellan - Timmins to Currie Property	260	\$130.00
3 ATVs for two days x \$150 per ATV		\$900.00
Fieldwork - 2 days grassroots exploration		
\$500 per day x 200% incentive x 3 people		\$6,000.00
Mobilization to/from Timmins (\$500 per day) - AM		\$1,000.00
Work Report Writing and Maps - 2 days x \$500 - AM		\$1,000.00
Assessment Credit Total		\$14,440.00

# **Appendix C: Grab Sample Descriptions**

Sample No.	Date	Easting NAD83 Zone 17	Northing NAD83 Zone 17	Rock Name	Description	Magnetic	Mineralization
5944	3-Nov-19	523881	5367267	Gabbro/Norite	melanocratic, aphanitic, massive, pyrite bearing (1%), gabbro/norite	medium	1% 1mm cubic pyrite
5945	2-Nov-19	524700	5367970	Quartz Feldspar Porphyry	mesocratic, fine-grained, massive, silicified, phenocrystic medium-grained feldspar, pyrite bearing (2%), quartz feldspar intrusive rock	no	2% disseminated and 2mm blebs of pyrite
5946	2-Nov-19	524751	5368006	Gabbro/Norite	melanocratic, fine-grained, massive, olivine gabbro/norite	medium	none
5947	3-Nov-19	523844	5367233	Gabbro/Norite	melanocratic, medium-grained, massive, phenocrystic medium-grained feldspar, phenocrystic medium-grained magnetite, pyrrhotite bearing (trace), pyroxene- hornblende gabbro/norite	high	trace pyrrhotite
5948	9-Aug-18	524900	5368040	Tuff	mesocratic, fine-grained, massive, phenocrystic fine-grained feldspar, pyrite bearing (3-4%), lapilli andesitic tuff	no	3-4% disseminated pyrite and pyrite 0.1cm x 1.5cm smears
5949	3-Nov-19	523862	5367220	Gabbro/Norite	melanocratic, medium-grained, massive, phenocrystic medium-grained feldspar, phenocrystic medium-grained magnetite, gabbro/norite	high	none
5950	2-Nov-19	524741	5368006	Basalt	melanocratic, aphanitic, foliated, pyrite bearing (2%), basalt with a rusty, pyrite and chlorite bearing quartz vein	slight	2% pyrite in quartz vein and chlorite blebs

**Appendix D: Grab Sample Photos** 







## **Appendix E: References**

Gledhill, T. Report on Airborne Gamma Ray Spectrometer Survey in Bond, Currie, Bowman, Hislop, and Sheraton Townships Ontario. (1977)

Leahy, E.J. Preliminary Geological Map No. P.204 – Currie Township. Ontario Department of Mine. (1963)

Maass, R.D. Report on Diamond Drilling, Curregan Property. Moss Resources Inc. and Greenshield Resources Inc. (1998)

Tempelman-Kluit, D. Report on 2016 Soil Sampling on the Ashley Project. Prosper Gold Corp. (2017)

### **Appendix F: Statement of Qualifications**

## **Statement of Qualifications**

I, Andrew Douglas McKillop McLellan of 22 Indian Road, Sudbury, Ontario, do hereby certify that I:

- am currently a Master of Science in Applied Mineral Exploration student at Laurentian University
- am a graduate of Laurentian University with a Bachelor of Science with a Concentration in Earth Science (2019).
- am a graduate of University of Western Ontario with a Bachelor of Science degree with an Honours Specialization in Geography (2008).
- have been involved and working in mineral exploration for more than 8 years in Ontario, Nova Scotia and Nunavut.
- have included in this report all relevant data derived from both private and public sources.
- have been physically on the property and have expressed personal opinions in this report.
- hold an interest in the property that is subject to this report.

Sincerely disclosed,

Andrew Douglas McKillop McLellan

July 4, 2019

- have 20 years of underground mining experience
- have been prospecting for the past 14 years
- have successfully completed the Ontario Prospectors Association (OPA) Introduction to Prospecting course in 2006

I, Jacques Robert of 321 Haileybury Crescent, Porcupine, Ontario, certify that I:

- have been prospecting for the past 36 years
- was awarded the Ontario Prospector of the Year in 2013 for the discovery of the Borden Lake Gold Deposit

