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West Lake – Louie Lake Area

Prospecting Report

Prepared by Chris Mancuso

November 27th, 2018

PREAMBLE

This is a report of my expedition into what I have coined the West Lake Louie Lake (WLLL) mineral claims owned by Mr. Ben Haavisto. This report will give a review of my notes taken that day along with a brief geologic history of the area and maps produced from the GPS unit that was brought along.

LOCATION AND ACCESS

The mineral prospect is located approximately 20 kilometers west of Sudbury, between the Southern Province along the Grenville front to the South and Sudbury basin to the North. The claims are locally situated between Louie Lake and West Lake. Access was gained by driving down a gravel road named 'Tower Road' to a parking location, then further on foot along a logging trail.

EXPLORATION HISTORY

The Louie Lake property report prepared by Ralph Huggins reviewed and annotated. Includes aerial magnetic mapping and diamond drill core logging. A prominent 145 striking magnetic high is noted over the prospect region. Nearest DDH is company hole ID # LQ-99-07 by GOLDEN BLADE RESC INC undertaken in 1999.

The nearest mine, the "fire tower" mine (now abandoned), produced Gold and is located 5 km to the west of the prospect.

REGIONAL GEOLOGY

Nissiping Magmatic Province outcrops in the proterozoic Huronian supracrustal belt. Magmatism is thought to have occurred at 2206 to 2223 mya. Subsequent rifting and intra plate volcanism is associated with mineralization. Nissiping Diabase outcrops in this area as poorly differentiated tholeiitic, gabbroic rocks. This assemblage is noted for significant Ni-Cu-PGE mineralization.

Copper-Nickel mineralization in structurally constrained bands of pyrrhotite, pentlandite and chalcopyrite as well as associated trace levels of PGE and Cobalt.

EQUIPMENT

- Suunto Compass with Dipmeter
- Magellan eXplorist 310 GPS
- Flagging tape
- Eastwing rockhammer
- 5 lbs east wing rock hammer
- All Weather Geological Notebook and Pencil
- Cell Phone
- Hand Lens
- Pen Magnet
- Scribe

LOG

- Arrived at mineral claim October 9th, 2018 with Ben and Aaron Haavisto at 9:10 am. Traversed on foot from gravel road up logging trail to first mineral showing at the sample pit (B1). The sample pit appears to have been previously blasted with dynamite as portions of the outcrop are buried in rock fragments. The surface of the exposed rocks are heavily weathered with profuse sulfide staining. Acid rock drainage was evident in nearby ponded water indicative of significant sulfide mineralization.
- Collected two rock samples and made one structural measurement (B2) and a sketch at this location. Ate lunch.
- Continued on towards “Kevins Knob” (KK) an outcrop with sulfide showing in a neighboring mineral claim. Discovered one corner post (B3) along the way (see Appendix).
- Scaled KK (B4) and collected two rock samples and made one sketch of rock texture. Traversed across exposure to B5.
- Began return hike to parking spot, stopping at a sulfide rich exposure of mafic intrusive rock (B6).

OBSERVATIONS

Sample Pit (B1)

Two rock units evident. Appear to share a structural contact along a 145 striking reverse fault dipping 65 degrees South (B2).

Petrological descriptions of rock units:

1. Mafic Intrusive
 - Coarse grained, porphyritic igneous rock. Meso-melanocratic with equant angular bronzy calcic-plagioclase phenocrysts in a matrix of pyroxene. No overt quartz in hand sample. No hydrothermal alteration evident.
2. Sulfide Rich Rock
 - Very coarse grained, porphyritic with >30% sulfide mineralization in interconnected threads resembling net texture (pyrhotite, pyrite, magnetite, bornite). Weakly magnetic (tested with pen magnet). Iron oxide cast on weathered surface.

“Kevins Knob” (B4)

Present on an area of maximal relief, steeply dropping off to the southwest.

Petrological descriptions of rock units:

1. Mafic Intrusive

- Coarse grained, meso-melanocratic igneous rock with 30 to 40 modal percent sodic plagioclase phenocrysts and 40 to 50 percent mafic minerals (pyroxene). Minor amounts of very dark green, tabular phenocrysts with weak glomeroloporphyritic texture. <1 % quartz.
- Outcrop has possible localized spinifex texture. No hydrothermal alteration noticed. Displays regular jointing and faulting along extent.

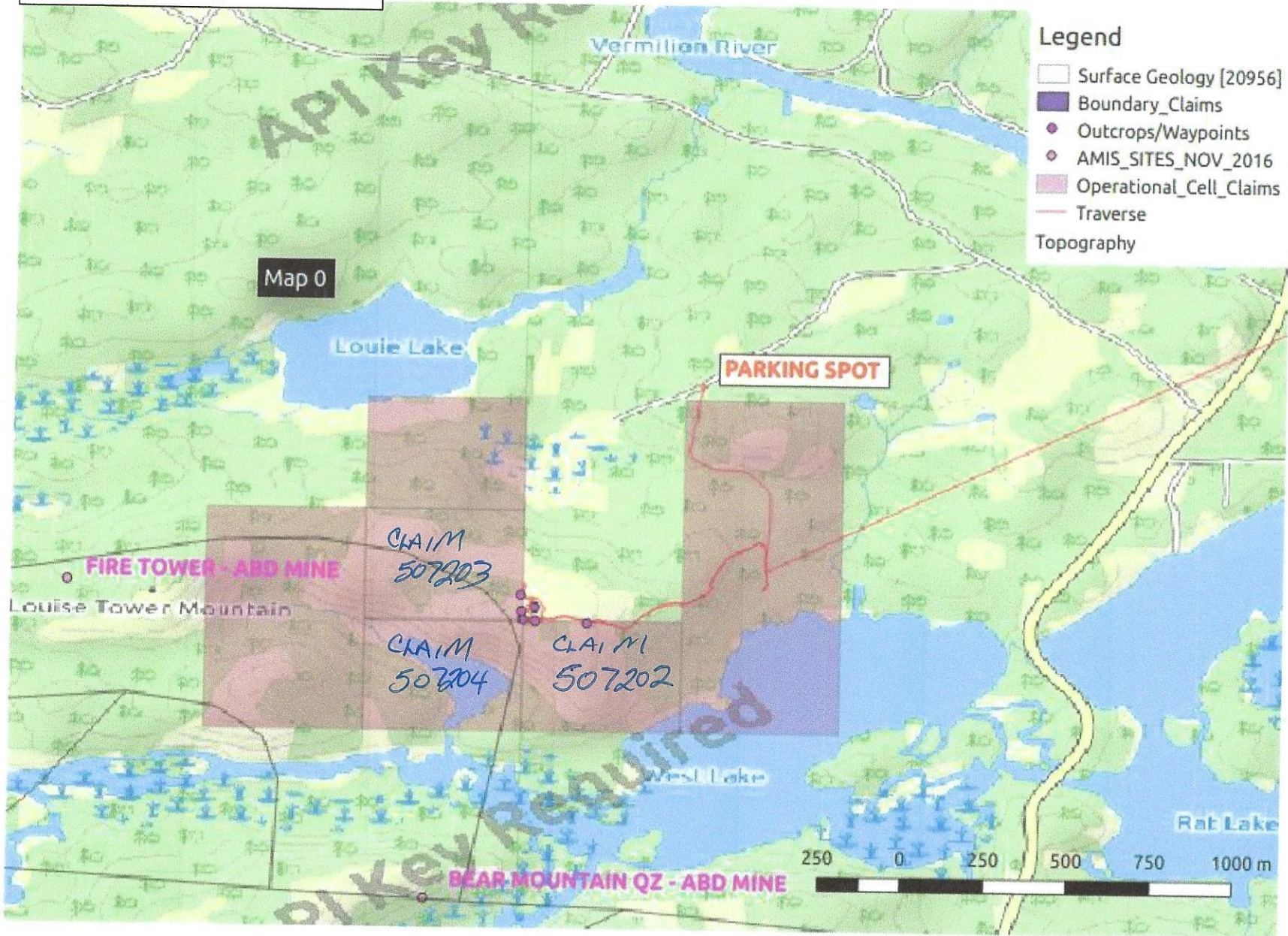
Exposed Sulfide (B6)

Single small (10 – 20 meter squared) exposure of sulfide stained rock. Purple, yellow, brown casting. Coarse grained texture with > 30 percent sulfide minerals (pyrrhotite, pyrite)

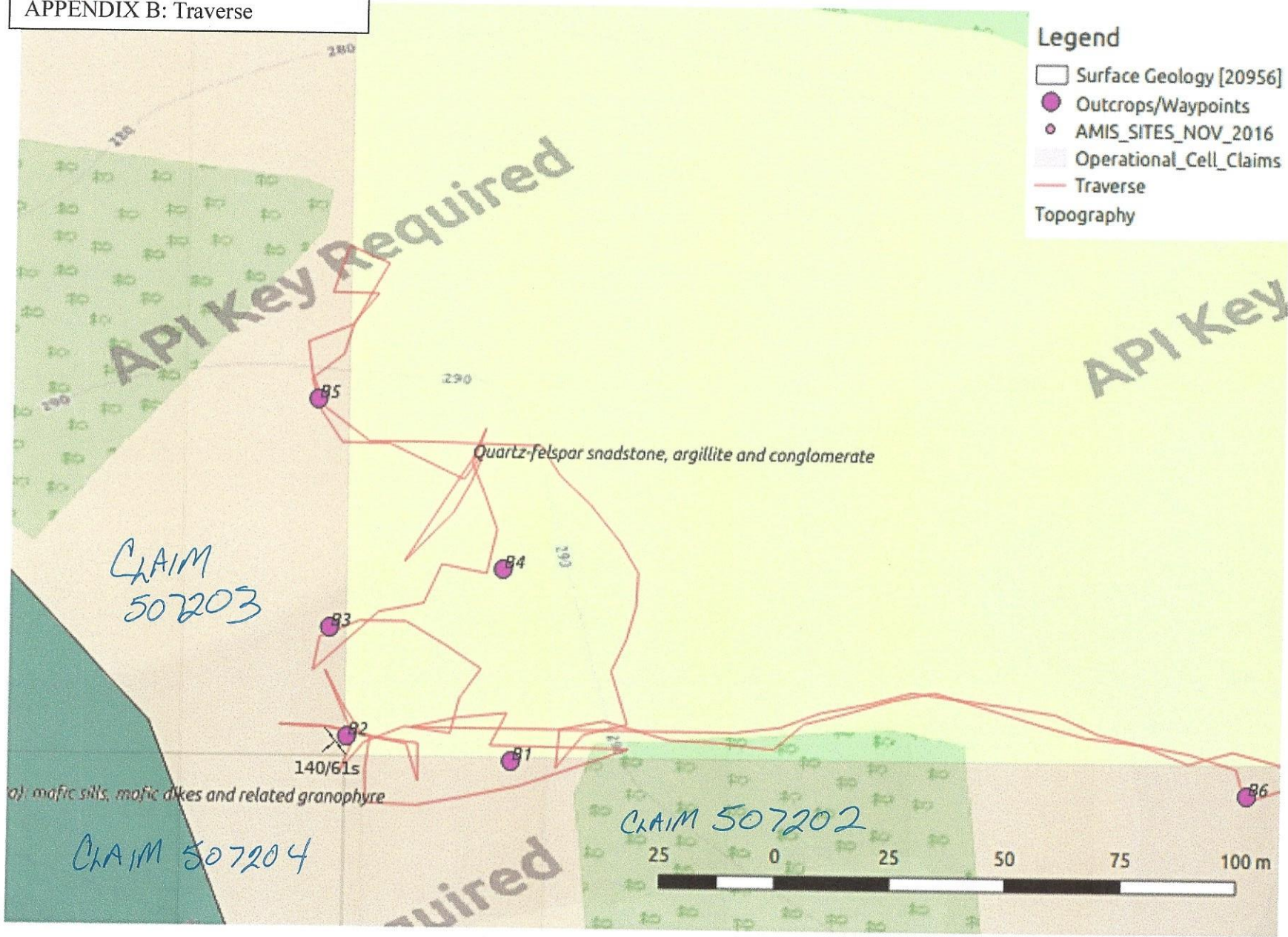
CONTACT

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APPENDIX A: Region



APPENDIX B: Traverse



Log of Activities Oct 9, 2018

- Left home at 7:45 am with Aaron Haavisto
- Picked up Chris Mancuso (Geologist)
- Met J Morgan (guide - knowledge of property from prior work done on site) at his house
- Met K Holly- neighbouring land owner and received permission to use access road
- At parking site shortly after 9 am
- Cleared old trail by hand of windfalls to access claims locations
- Accessed Cells 41I06C081 (Tenure 507202), 41I06D080 (Tenure 507203), 41I06D100 (Tenure 507204) (see map in Geologist's report)
- In addition to Chris' report, additional grab samples were taken to review and catalog for further analysis as determined later
- On site until about 2:40 pm. Dropped Chris off at 3:30 pm
- Bought \$70 worth of gas

Distance travelled - Start odometer 30689, End odometer 30865 Total trip 175.3 km

$\$70/175.3 \text{ km} = \0.39 per km

