

Prospecting Trip to Polygon Lake

Claim 1174222

Kenora District

A one day trip was made to my Polygon Lake claim on October 11, 2014. Two prospectors were involved.

Personnel

Rick Angove

James Kulp

Equipment used consisted of two GPS units, a Sony digital camera, grubhoes and machete. Only prospecting was carried out.

In 2012 we excavated a small pit on a strong magnetic anomaly. The anomaly was located because of a compass pull while checking an outcrop. I thought it would be worthwhile trying to locate additional magnetic anomalies.

Topography

In general the area is relatively flat. The steepest incline is probably at the start of the trail to the claim. The area was logged many years ago. Roads that are still marked on Claimaps have long since grown over. Vegetation is mainly poplar with the odd spruce and pine. The area was not replanted after logging.

History

A low grade copper discovery was made near Polygon Lake in the 1950s. The claim was taken to lease almost immediately and thus very little assessment work has been filed. There are two geological reports I have used. They are Geology of Bennett Tanner (Young 1960) and OFR 5879 Precambrian Geology of Wild Potato Lake (Shanks 1994).

Location and Access

Road access is the simplest means to access the claim. The Manion Lake Road exits highway 11 about 10 kilometres east of Mine Centre. Follow the Manion Lake Road for about 2 kilometres and then turn east onto the Little Turtle River Road. Follow this for about 7 kilometres. From this point it is about a one hour walk south to the claim. We have a relatively easy trail to follow to get there.

Prospecting Target

The Atikokan-Mine Centre Airborne Survey (Map 80506) shows a highly magnetic zone as well as several 6 channel anomalies in the area. Noranda has a report filed from May 1966. The attached map shows a drill hole north of Polygon Lake that intersected massive sulphides. No assay values are given. As well the J.E.M survey outlines a zone through the area that is worth investigating. There are no positive indicators of where the drill hole was collared and there was no GPS use back then. It is a little difficult to determine exactly where the hole was collared and where the zone actually is. My original goal was locating a surface exposure of the zone. We have located a stripped area near the outlet of Polygon lake and in 2012 we hand dug a small pit on a strong magnetic anomaly. The rock was weathered to the point where identification was not possible. The rock was strongly magnetic. I decided to explore for additional magnetic areas. This year the target was the north western area.

Prospecting Results

Outcrop was plentiful in the western area of the zone we prospected this year. Attached to this report are a number of pictures and a separate document describing the pictures.

546368E, 5403514N The rock is a medium grained mafic volcanic. There were minor sulphides, far less than 1% and the rock was non magnetic.

546504E, 5403463N This is a fine grained mafic volcanic. It is highly magnetic. No sulphides were seen. There were some very narrow quartz stringers. Strike is N90E and the dip is vertical.

546461E, 5403434N This is a large outcrop and some time was spent checking most of it. No sulphides were seen in any sample. It was non magnetic. The strike is about N90E and the dip near vertical.

546440E, 5403410N The location is another large outcrop. A company called Mustang Minerals did a reconnaissance survey in this area in the 90's and at this point we found one of their sample tags. Tag number 54767. Their description is a fine to very fine grained basalt.

546443E, 5403410N This is a fine grained mafic volcanic. There were very minor sulphides, less than 1%. It is non magnetic. The strike is N90E and the dip near vertical.

546358E, 5403423N This is a fine grained mafic volcanic. No sulphides were noted. The rock is strongly magnetic. The strike is N90E and the dip near vertical. I did see a brown mineral which I cannot identify for sure. It could also be weathering of sulphides on the fracture planes.

546275N, 5403433N This is off my claim by a few metres. It is a mafic volcanic. No sulphides but it is highly magnetic.

546854N, 5403235N This the location of the Polygon Lake Occurrence.

546581E, 5403511N This the location of the trench we dug in 2012.

The heavily rusted area at Polygon Lake seems to break off in layers rather than a vertical direction. The rock at the 2012 trench was somewhat similar. However every rock exposure we encountered had a dip that was vertical.

I used a compass to determine strike but there are areas where the compass is completely unreliable. I have seen the compass needle change 180 degrees in less than 20 metres. Wherever I have mentioned the strike it was always in the same direction so I suspect these are close.

Results and Recommendations

We located three additional highly magnetic zones. So we accomplished our goal. Later this year or next year we will do follow up work in those areas. My longer term goal is the exposure of additional mineralized zones on strike with the Polygon Lake zone. I have attached one picture of the massive sulphides at Polygon Lake. I believe the same would be found if we could get deep enough at the trench we dug in 2012. At a depth of two feet the rock was still weathered to the point it would crumble in your hand. More work is required. A quadrunner trail would be very beneficial. Right now about 2 hours of each day is spent just walking in and out of the area. It would also assist in getting more hand tools in work the area.

Rick Angove E30099