

July 4, 1968

004803

Simmons Group
Quartz Mineral Claims
Yukon Territory
Whitehorse Mining District, Y.T.
Sheet 105-D-11

Submitted To
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By
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North Star
Pass 2K
McIntyre
Copper Ch. E.

The Simmons group of claims have had considerable assessment work applied and the claim anniversary dates are 1975 and 1976. All assessment work and recording fees have been paid for by New Imperial Mines Ltd. and the paper work of claim grouping and applications for certificates of work has been done by R.G. Hilker, company employee. All assessment and recording work has been done prior to any expiry of the claim group and done in good faith by New Imperial Mines Ltd.

1968 Exploration Work

During June of 1968 a 30 mile linecutting grid was slashed over the area where the Simmons group of claims were suppose to be located. Exploration work consisting of geological mapping at 1" = 200 feet, E.M. 16 electro-magnetic and magnetometer surveys were conducted on the claims over the linecutting grid. The location of the linegrid and exploration work were referred to the location of the Whitehorse Reference Traverse. This area is located adjacent to the Whitehorse Reference Traverse and approximately between B.L. 35 and B.L. 42 on the legal survey traverse line.

Geological and Geophysical Results

Three minor copper stained showings were located on the east side of the grid system and one small skarn zone with copper mineralization was located to the east side of the grid. The showings and claim locations are listed as follows:

1. North Star - Emidell 13 and Bob 6
2. Pass Lake - Emidell 6
3. McIntyre - Blackie 6 - Anne 6 Fraction
4. Copper Cliff - Anne 17

The location of the claims have indicated the claims to be overstaked and not located in the manner shown on sheet 105-D-11. Consequently the group is discontinuous through New Imperial Mines Ltd. claim holdings and 17 claims and fractions have been staked by the company to fill in the area of land not covered by the Simmons group. The subject of claim staking will be discussed further on in this report. The following is a brief appraisal of the geological worth of the showings. (See Pass Lake Geology Map 1" = 600 feet).

North Star

The North Star showing is located upon the Emidell 13, #91828 and Bob 6, #76097 quartz mineral claims contained within the Simmons group of claims. The showing contains minor magnetite and bornite mineralization within a very small skarn zone within the diorite. A small magnetic high of about 3000 gammas and a magnetic negative of 1500 gammas occur over the main skarn zone and is due to the magnetite contained in the host rock. The skarn zone is due to a small piece of limestone trapped within the igneous intrusive and metamorphosed. The main limestone-granite contact is about 1000 feet to the west. The main contact is where there is more likely to occur an economic size ore deposit. To be more specific, the North Star showing is a small isolated island of skarn that has a very minor possibility of being developed into an economic sized copper deposit.

Pass Lake

The Pass Lake showing is located on the Emidell 6, #91598 quartz mineral claim contained within the Simmons group of claims.

The showing is within a small limestone outcrop adjacent to the granite contact. The showing contains minor bornite, chalcopyrite and magnetite and is discontinuous in extent of mineralization. No magnetic high was noted on the magnetic map and suggests the magnetite to be only a surface patch. The 100 feet readings taken with the magnetometer were taken on either side of the showing and no response was recorded. The showing is at 10+50W on line 24+005 and magnetic readings were taken at station 10+00W and 11+00W. No E.M. 16 response to sulphide conductivity was measured. A +25% in phase reading was recorded at station 11+00W that indicates no anomaly over the Pass Lake showing. The showing is due to the contact of limestone with granite and is a non commercial contact feature.

McIntyre

The McIntyre showing is located on the Anne 6 Fraction and the Blackie 6, #75991 quartz mineral claims. There is a good possibility that this entire showing is on the Anne 6 Fraction and not on the west boundary of Simmons Blackie 6 claim. The McIntyre showing is a contact feature between limestone and granite. The showing contains minor chalcopyrite and bornite and is very localized. No magnetic or E.M. 16 response was recorded over the McIntyre showing. The McIntyre showing is non commercial and localized at the limestone-granite contact.

Copper Cliff

The Copper Cliff showing is located on the Anne 17 quartz mineral claim and is on New Imperial Mines Ltd. property due to the poor staking on the Simmons group of claims. The showing is located on the contact between limestone with quartzite beds and granite. A good magnetic anomaly of 600 gammas occurs over the surface showing

and a E.M. 16 response occurs 130 feet east of the surface showing. The anomaly is about 600 feet long and 100 feet wide. Mineralization consists of chalcopyrite, bornite and minor magnetite at surface. The showing is more encouraging than the three previous mentioned showings and further geophysical work is recommended.

Enclosed with this report is a 1" = 200 feet detail geology map outlining the four mineralized showing discussed. The 1" = 600 feet claim map with geology indicates the location of the mineralized showings, the rock types and quartz mineral claims.

Staking of Simmons Group

The 38 quartz mineral claims contained within the Simmons group is poorly staked and overstaked. The location of the claims are referred to the Whitehorse Reference Traverse and located on the 400 feet wide spacing on the linegrid. The locations of the posts found would be accurate to within 100 feet of all locations shown on the Pass Lake claim map, scale 1" = 600 feet. The Cameron 1 - 6 claims were not located in the field and are placed on the map in the position indicated on the staking sketch that was submitted to the mining recorders office by the original staker. The location of these claims are important as they have the lowest grant number in the Simmons claim group and take preference over the other claims. The Simmons group is badly overstaked (one claim thrown over another and in some cases three claims are overlapped). Due to the poor staking a large area of land is unstaked between the Simmons group and New Imperial Mines Ltd. Acme group of claims. Therefore, Anne 5 - 21 claims and fractions were staked for New Imperial Mines Ltd. to fill in the open land between the Simmons and Acme claim groups.