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1987
 REPORT ON FIELD EXAMINATION OF THE MAST CLAIMS
 WHITEHORSE MINING DISTRICT, Y. T. 105D-3W

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During August 9 and 10, 1987 J. Paulter and F. Chant spent two days examining the possible source of high grade ($62.8\% \text{Au} / \text{t} + 45.9\% \text{Ag} / \text{t}$) float found on MAST 15 H.C. during the investigation of TARGET 110 in the 1986 field season. A second objective, 1-9" wide quartz stringers found on scattered occurrences within a thuyolite quartz-feldspar porphyry unit on MAST 6 H.C. was not examined due to lack of time.

The property is located just north of Mt. Mac Auley, along the western edge of the Bennett Lake Caldera Subsidence Complex.

The high grade float was found on the moraine, below the toe of the talus. A N-S fault zone on the steep, south-facing mountain side was chosen for the search of the source. Prospecting from the ridge top at 6700 feet where veins were previously located, a structure containing multiple quartz veins was followed downslope to the top of the talus slope at about the 5800' elevation, about 400 feet above the location of the H.C. float.

The quartz veins comprise of one 0.5" to 1" wide massive quartz vein plus more or less parallel, massive to 1" wide veinlets within 0.5" to 10" bands. These veins occur mainly within a 10"-30" wide grey-green andesite dyke in a quartz monzonite-gabbroite country rock, and a few veins are found in the granitic rocks near the contacts. In addition, cross veinlets at 40°-50° to the main zone appear intermittently, often forming a close network of quartz-filled fractures. Only one period of quartz deposition was noted. Andesite breccia is found within the quartz veinlets when fracturing is intense. Quartz-rimmed rounded feldspars are found in the more silicified parts of the andesite.

Purple fluorite occurs locally. No sulphides were noted. The rusty soil along the structure is probably caused by weathering of the andesite dyke, which in turn may be altered by faulting.

A similar quartz vein structure but with less massive quartz occurs on the northern slope about 250' NNW. This zone was examined for about 300' up slope. A deeply weathered cut suggest an associated fault.

Nine rock samples, chip and/or grab from the first qtz vein zone and four samples from the second zone contain only traces of gold and silver.

The structure and quartz veining are impressive but absence of precious metals and sulphides are negative factors. The results do not justify further work on the property. Although the source of the H. G. gold float has not been found there are no known showings on the property worthy of further investigation. Float tracing could be tried but the author noted a scarcity of quartz in the morning.

One years assessment work was filed on August 13, 1987 prior to the August 22 expiry date. In the future, a crew working in the vicinity could spend one day in trying to trace the float.

J. L. Spivey
Sept 14, 1987