

To: E. O. Chisholm

From: A. L. Sangster

Subject: Geological reconnaissance of the Rat Group

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Introduction

Geological reconnaissance of the Rat Group was carried out on May 20, 21, and 22/1966 to investigate the reported occurrence of lead float in a valley near the northwest end of the claim group. Those involved were B. Harvey, A. Sangster, T. Skonseng, and B. Watson. The author was present on May 20 and 21 and consequently this report covers only claims 25 to 50.

Location

The Rat Group is located immediately northeast of the Pintura fault, 10 miles northwest of Ross River. The south east of the group of 48 is bound by Danger Creek.

Geology

The northwest end of the claim group is underlain by a sequence of altered clastic sediments and volcanics which strike west north west and dip 20 degrees to the south.

Impure quartzitic sediments interbedded with purple hornfels are overlain by a purple hornfels containing abundant small (2 mm) spherical quartz grains. The layering of the quartz grains is pronounced. Outcrops of a green altered andesite cap the hill on claim 46 and appears to overly the sediments to the northwest. Northerly trending, irregular faults cutting these rocks are probably related to the Pintura fault.

Sulphide mineralization is restricted to minor disseminated pyrite and pyrrhotite in the purple hornfels. No mineralized float was found and no source for that reported was seen.

Geochemistry

Soil and stream sediment samples were collected as shown on the accompanying map. Stream sediment samples cover the area in which mineralized float was reported and rock samples were collected to give a geochemical picture of the ~~samples~~ stratigraphy.

Conclusion

No firm conclusion can be reached pending the geochemical results. However the geology seen by the author does not indicate the presence of mineralization of economic interest.

A. L. Sangster