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YUKON PROSPECTING PROJECT 1973

Geological and Geochemical
Reconnaissance For
Lead-Zinc Deposits In
Carbonate Rocks
Bonnet Plume River Region

PROGRESS TO JULY 20, 1973

For

BARRIER REEF RESOURCES LTD. (N.P.L.)

By

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BACKGROUND

(See Reference Map Attached)

In early May of this year, Cordilleran Engineering Limited made an office study of the geology and reported mineral occurrences in the Godlin Lake Area for Barrier Reef Resources Ltd. (N.P.L.). Godlin Lakes are located in the MacKenzie District on the old Canol Road between Norman Wells and Ross River, and are presently the centre of intense exploration activity directed toward lead and zinc deposits in carbonate rocks, geologically similar to those at Pine Point and Robb Lake.

Further geological study indicated that the favourable carbonate host rocks are also present in the area drained by the headwaters of the Bonnet Plume River about 120 miles NW of Godlin Lakes in the Yukon.

On June 20th C.M. Hamilton of Cordilleran Engineering Limited began a helicopter reconnaissance of the Bonnet Plume area from a base at Rackla Lake which is 100 miles NE of Mayo, Y.T. This work is still in progress and consists of helicopter supported stream sediment sampling, prospecting, geological observations and claim staking.

RESULTS TO DATE

Two significant new zinc prospects have been discovered and staked as follows:

HARRISON CREEK located North of the Bonnet Plume River at 64°25'N; 132°51'W (24 claims)

Two parallel beds of steeply inclined dolomite breccia 30' and 120' thick, 100' apart, are heavily mineralized with pyrite and lesser amounts of sphalerite and galena. These have been traced along strike for about 3,000'. The surface is deeply oxidized so that the zinc and lead content is difficult to estimate.

GOZ CREEK located near the junction of Goz Creek and the Bonnet Plume River at 64°27'N; 132°33'W (120 claims)

About 20 outcrops mineralized with low iron zinc sulphide have been found in an area of about 5 square miles. The host rocks are porous, silicified reefal dolomite beds. The mineralization appears to be crudely "strataform". The best exposed section is estimated to be 15' thick with a zinc content of 20%.

Geological reconnaissance work has indicated the presence of extensive exposures of the favourable carbonate formation in the Bonnet Plume Region and a number of geochemical anomalies outside of the two discovery areas have been outlined by stream sediment sampling.

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Map NTS 106C



