

PROSPECTORS AIRWAYS COMPANY LTD.WHITE RIVER GROUP - - YUKON TERRITORYMineral Occurrences on the ClaimsIntroduction :

The area covered by the geological map shows a large body of diorite, varying in texture from coarse to fine-grained, strongly weathered, fractured and faulted, with numerous greenstone and basaltic dykes, probably intruding a series of dark-green andesitic and brown siliceous tuffs, in places interbedded with shale and limestone, all dipping southwest. The tuff beds are intruded by a peridotite dyke, striking northwest and dipping southwest. Top of the ridge is formed by a thick amygdaloidal andesitic lava flow, in places containing limestone beds and fragments.

Mineralization:

(a) Copper:

Fractures in the diorite are frequently stained with malachite and azurite, derived from thin films of chalcopyrite, covering together with the pyrite, some of the fracture planes. In a few places, disseminated grains of chalcopyrite occur in 1" to 2" thick quartz veins. Stringers of chalcopyrite up to 1" thick have been found on Alex No.1 and Charlie No.8 claims, and a chalcopyrite vein, 4' long and 5" thick, on Jimmie No.2 claim. A 15' long zone of Cu stain, with narrow stringers of chalcopyrite, has been found in the lava on Andre No.3 claim, and thin wires and scattered specks of native copper in calcite derived from amygdules and stringers in the lavas, have been discovered in the gravels of Nickel Creek, draining the Star No.1 and No.2, and Andre No.5 to No.8 claims.

(b) Nickel:

Mineralization has been found in three separate spots along the lower contact of peridotite and tuff. The old showing, a maucherite vein, 2" to 3" thick, lies on the Andre No.6

claim. The green coating gave a weak Ni test, although no maucherite had been found near the surface. Specks of nickeliferous pyrrhotite up to $\frac{1}{2}$ " in diameter, similar to the type of mineralization found in the drill-cores from the Miles Creek property, have been observed in loose boulders of light grey rock derived probably from a porphyritic dyke in the peridotite on Eric # 1 M.C. A strong coating of annabergite (nickel bloom) has been found in a loose peridotite boulder on Jimmie No.8 claim. As the peridotite-tuff contact is mostly covered by a thick mantle of weathered rock and cannot be readily prospected, the possibility of other nickel showings along the contact cannot be excluded.

(c) Others:

Several stringers of chrysotile asbestos up to $\frac{1}{2}$ " have been found on Jimmie No.8 claim, a vein of barite 3" thick on Andre No.2 claim, and a gypsum pebble in float on Jimmie No.3.

Conclusions :

The nickel showings on Andre #6 and #8 and Eric #1 claims are the only interesting finds. Further trenching will be necessary to discover their extent and value. However, surface indications do not appear very encouraging. Economic possibilities of all the other showings are negligible.

White River,

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