

are cut by and are, therefore, older than the Coast Range granitic batholith usually referred to late Jurassic or early Cretaceous. The argillites are often highly altered locally, in places, passing into mica schists, but this is attributed to the effects of the great granitic invasion and affords no proof of extreme age. It is probable that none of the sediments are older than the Carboniferous.

MINERAL DEPOSITS.

The mineral deposits of Observatory inlet consist of quartz veins carrying values in silver and lead and in one case in molybdenum, and of what can only be described as mineralized areas carrying low values in copper. The latter will be described first.

MINERALIZED AREAS CARRYING LOW VALUES IN COPPER.

Hidden Creek Copper Company.

The claims controlled by this Company were staked about ten years ago and a considerable amount of surface and underground work was done on them by the Hidden Creek Copper Company under the direction of Mr. M. K. Rogers. Recently the claims were bonded to the Granby Consolidated Mining, Smelting, and Power Company operating at Phoenix, B.C., and a diamond drill test of the property by this Company proved so satisfactory that the bond was taken up and preparations are now being made to work it on an extensive scale.

The thanks of the writer are due to Mr. O. B. Smith, General Mines Superintendent of the Granby Company, and Mr. MacDonald, local manager of the Hidden Creek mine, for permission to examine the workings, for information, and for other courtesies.

SITUATION.—The claims are staked on the summit and sides of a hill 920 feet high, enclosed between two branches of Hidden creek, and situated 8,500 feet north of Goose bay, near its outlet into Observatory inlet. A good wagon road, planked where necessary, about 2 miles in length, has been built from the portal of the main tunnel to a wharf at Anyox on Goose bay, the shipping port of the mine, and a tramway, partly gravity and partly traction, to the same point, was commenced some years ago but never completed.

Rocks.—The rocks in the vicinity of the mine consist of dark and dark grey argillites with occasional light coloured, coarse-grained feldspathic beds and rarely some limestone.