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# PRELIMINARY REPORT OF COPPER CENTER PROSPECT, KASAAN PENINSULA, PRINCE OF WALES ISLAND, ALASKA Kx 119-7 June 17. 1938

#### Location and Accessibility:

The Copper Center group of three claims is located 4 miles east of the Goodro mine and 3,000 fest inland from the north shore of Kasaan Bay. The property is reached via trail beginning at Lindeman's cabin on the beach to an elevation of 380 fest. Kasaan Bay is navigable to ocean-going vessels, making this prospect accessible to salt water transportation.

#### Owner:

The claim group is held by A. Moquist of Ketchikan, Alaska.

## History:

The prospect, which still retains its original name, was located in April, 1907 and bonded in July of the same year.\* Development work was started this same year and consisted of several shafts, reported to have been sunk to depths of 10 to 30 feet within an area of 300 by 120 feet. This prospect was reported to have been found by the use of a dip needle and the above area was blocked out and the shafts sunk, since the area is covered with considerable brush, timber and unconsolidated glacial material. Apparently, considerable ore of a low grade was found as most shaft dumps contain various amounts of a magnetite-chalcopyrite ore. Since the sinking of these shafts, there has been practically no further development.

#### Geology:

The formations noted in the immediate vicinity of the workings consist of greenstone tuffs, and conglomerate. These formations are underlain with granite diorite, and the tuff bands which contain the ore are highly metamorphosed. Numerous contact minerals are common both in the tuffs and associated with the ore. The most common are epidote and garnet. The latter is apparently the result of preexisting limestone which has been found as existing remnants. The tuff bands strike N. 80° E. and dip 65 to 70° S. The ore occurs as bunches and small lepticular masses more or less banded within the tuff bands.

\*Ketchikan and Wrangell Mining Districts, Alaska, by F. E. and C. W. Wright, p. 120.

## Showings:

Numerous old cuts and shafts are confined to a small area in the vicinity of a small knoll. Two cuts were cleaned out on the south side of the knoll and a band 3 feet wide of flat lying ore consisting mainly of magnetite with some chalcopyrite and pyrite is exposed. At a point 20 feet north of these cuts an attempt was made to clean out an old shaft. This shaft was cleaned to a depth of 6 feet. On the wells another 3-foot band of similar ore is exposed, and contained in the band was 18 inches of massive chalcopyrite. The depth to which the chalcopyrite extends in the shaft could not be determined. Its exposed length was 15 feet. From the dump approximately two tons of this ore has been sorted. Associated with the ore both calcite and garnets are found.

# Samples and Assays:

A sample, No. 425, consisting of several small pieces, taken from the ore in the opencuts, was assayed and the following results were obtained: Gold 0.02 oz. per ton, silver nil, platinum nil, and manganese nil.

Sample 426 was taken 4 feet down in the shaft across 18 inches of nearly massive chalcopyrite. This gave returns of 0.24 oz. gold, 0.30 oz. silver, end 11.07 per cent copper.

Sample 427 was taken across a 10-inch calcite vein in the cut on the east side of the shaft. This gave returns of 0.01 cz. gold, 0.30 oz. silver and a trace of copper.