

its importance and for transportation of the ores to the beach are now being formulated. A smelter will probably be erected to treat the ores, but the site of this was not decided on at the time of my examination, or at least was not announced. The present equipment includes a power plant situated on Falls creek and operated by water furnished by that stream, and a compressor and diamond drill plant.

Bonanza Group.

This group is situated about three-fourths of a mile up Bonanza creek, a small stream emptying into Goose bay about 2 miles below its mouth. Bonanza creek is a rapid stream about 20 feet wide, confined in a deep, narrow valley terminating below in a rock canyon 20 to 30 feet deep, excavated since the glacial period.

The Bonanza group of claims, six in number, were the first claims staked in the district, and were explored to some extent by Mr. M. R. Rogers before the discovery of the Hidden Creek group. Very little work has been done on them in recent years.

The general character of the deposit on which the claims are staked is similar to that of the Hidden Creek group. The country rock is a dark, somewhat altered, argillite cut by pegmatite and dioritic dykes, before it was mineralized, and by a later set of basic dykes after it was mineralized. The argillites are altered over a wide area into biotite and chloritic schists, some of it quite coarse, holding variable quantities of pyrite, pyrrhotite, and in places chalcopyrite. The sulphides are accompanied by some quartz, but this mineral is much less abundant than in the Hidden Creek mine. The altered and mineralized area has a width of over 500 feet, and is opened up by short tunnels for a distance of 600 feet along its strike.

The workings consist of 3 tunnels, one over a hundred feet in length, north of Bonanza creek, near the creek level, and two tunnels and some surface work on the south side. The most westerly of the tunnels north of the creek cuts 10 feet of granular pyrite near its mouth, beyond which are micaceous schists holding only a small percentage of sulphides. Little copper is present. A sample of the granular pyrite gave on assay 0.48 per cent copper, 1.25 ounce silver to the ton, and traces of gold. Some pyrrhotite holding specks of copper occurs in the middle tunnel. The east tunnel passes through micaceous schists sparingly mineralized with pyrite.

The two tunnels south of the creek expose schists holding pyrite in scattered grains and bunches, and occasionally some chalcopyrite. Some good looking chalcopyrite ore is exposed