

The leads consist of crushed and silicified zones of various sizes up to 15 or 20 feet in width, which, like the dykes, follow closely the dip and strike of the argillites. The principal croppings occur on Gold Bluff No. 2 claim, at a height of 600 feet above the glacier, and about 3,700 feet above the sea. The lead at the point examined consists of about 15 feet of quartz and silicified argillites, holding considerable iron pyrite in places. A number of smaller showings occur at various other points in the vicinity, some of which are sparingly mineralized with chalcopyrite and galena in addition to the pyrite.

The pyrite in the main lead where examined is gold bearing, but the values are much too low to constitute it a commercial ore under present circumstances. It is, however, only accessible at one or two points, and it is possible that in other portions of its course better values may be present. Good looking float occurs in some abundance along the foot of the slopes, but the source of this has so far not been determined.

Old Chum Group.

These claims are situated about a mile up Hartley gulch, a steep mountain torrent which joins Bitter creek from the east, three-fourths of a mile above the termination of the Bromley glacier. The principal showings occur on Old Chum No. 2 claim, and consist of three fissured and mineralized zones in a space of 130 feet, traversing slates in a direction a few degrees south of east. The centre lead is about 4 feet wide, and is made up of quartz and decomposed and reddened slates. The slates bordering it are broken and pyritized for some distance. It contains galena in grains and bunches, and iron pyrite. The pure galena carries 80 ounces in silver and \$2 in gold per ton. The south lead is seamed with quartz stringers for a width of 15 feet, and mineralized with iron and a little chalcopyrite and blende. The north lead is about 6 feet wide, and mineralized chiefly with pyrite. The workings consist of some surface cuts and a short tunnel.

L. L. and H. Group.

The claims in this group are situated on the north side of Hartley gulch a short distance below the Old Chum group. The argillites here are intruded by greenstones, and are contorted and broken. The principal showings occur on the Union Jack and Famous claims, and consist of three nearly parallel lines of fissuring, one of which, the centre one, is traceable along the precipitous slopes which border the valley for a distance of about 1,000 feet. The width of the fissured and partially