

per ton, in gold and copper. Then there is four feet, running about \$92 gold, copper and silver. The gangue is quartz, and the gold is largely free.

Irene Group.—This group is on East river, a tributary of the Duncan, and some 28 miles north of Howser lake. It is owned in the Coeur d'Alenes, and has had a deal of development work done on it.

Bannockburn Group.—This group is on Hall creek. A company has been incorporated, and it is intended to do much development next summer. A big ledge traverses the property and this has been traced along a distance of 2,000 ft. Its width ranges from 2 to 5 ft., and the vein yields an average of nearly 2 ft. of clean ore. The values are in lead, silver and gold, in a quartz gangue. There are two other veins on the property, one of similar character and value of ore to that occurring in the above mentioned lead. The third vein shows a big body of concentrating ore, but this has not yet been developed to show its extent. Mr. A. C. Jardine, of Kaslo, is the local representative of the company.

KEREMEOS DISTRICT.

THERE are promising mining camps in the Keremeos section of the Similkameen. The following notes briefly describe the more important of the mining properties in this part of the district.

On the Bullion group of 9 claims, situated at Olalla, development includes 900 ft. of tunnelling, 50 ft. of sinking and 150 ft. of open cut work. The ore consists of pyrrhotite, chalcopryite and sulphides, in a garnetite and lime gangue. Assay values run from 1 to 30 per cent copper, a trace to \$40 per ton gold, and a little silver. Owing to the lack of railway transportation no shipments have been made.

The Dividend group consists of 7 claims, situated on Dividend mountain, 10 miles north-west of Olalla. Development consists of several hundred feet of open cuts and sinking. A tunnel now in 50 ft. is being extended 150 ft. The ore runs in value up to \$26 per ton in gold and copper. The gangue consists of a mixed garnetite and lime carrying pyrrhotite and copper pyrites. Small quantities of arsenical iron occur also throughout this property. No shipments have been made.

The Riordan Mountain group comprises two claims situated on the divide at the headwaters of Keremeos creek, about 15 miles north-west of Olalla. This property possesses an immense capping of mixed garnetite, lime and quartz. A large amount of open cut work and shallow shaft sinking has been done. A tunnel is now in about 30 ft. Valuable bodies of copper ore, also containing gold and silver values up to \$10 per ton, have been opened up. Lack of transportation facilities prevents the active operation of this property.

The Flastaff group of 7 claims is situated at Olalla. Development consists of upwards of 200 ft. of tunnels and extensive open cuts. The ore exposed is mainly copper pyrites in a lime gangue. The principal capping throughout the property is magnetite

which occurs in large deposits and usually carrying gold values as well as copper. In addition there are several veins of quartz which traverse the property and contain values in gold and copper.

The Opulence is situated about a mile and a half south-east of Olalla. The ore on this claim is native copper occurring in an altered metamorphic rock. Values run from 1 to 30 per cent copper, with an average of about 5 per cent. Several open cuts and two shafts embrace the development done. The deepest shaft is 50 ft., with a 30-ft. cross-cut at the bottom, which discloses quantities of self-fluxing copper ore of good grade. The cross-cut is to be driven 75 ft. further to intersect the hanging wall of the ore body. It is expected that this cross-cut will show up an important body of high-grade native copper ore.

If railway transportation be provided the above mentioned properties, together with many others in the district, will rapidly swell British Columbia's yearly output of precious and other metals. Their natural situation is favourable for economical mining. This also applies to the entire Keremeos valley and Similkameen regions from the Similkameen and Tulameen rivers. Railway connection, both east and west, from the coast to the Kootenays, with Similkameen, is urgently required, and that too, at the earliest date possible.

A PROMISING MINERAL SECTION

(By a Correspondent.)

IN the Grand Forks mining division, but more than 70 miles from the recording office at Grand Forks, there is a section of country, containing some promising mineral properties, which has apparently as yet received but little attention from mining men or the general public. This section is at and around the extreme head of the west branch of the north fork of Kettle river, and at present is reached by road and trail from Fire valley landing on the west side of the lower Arrow lake.

The principal properties are the Lightning Peak, Rampolla and Waterloo groups, but there are as well a number of likely undeveloped properties in the district.

The Lightning Peak group consists of seven claims four of which are being crown-granted. This property is owned by capitalists of St. Paul, represented by their agent and manager, W. Thomlinson of New Denver. During the past past season the following preliminary work was done. About four of the claims were surveyed for crown grants, considerable surface work and about 80 lin. ft. of underground development was done on the group.

A five-ton sample of ore was sacked and taken out to the smelter at Nelson, as a test of values, and gave satisfactory results, the smelter returns showing 164 oz. silver and 26 per cent lead per ton.

The present route to the property from Fire valley landing is about 26 miles in length, about four miles being wagon road and the remainder fairly good pack