

galena embedded in "carbonates," or iron oxides, from which some astonishingly high assays have been reported, not infrequently running as high as 800 ounces in silver, with \$20 in gold, to the ton.

Above this is the quartz proper, from 12 to 30 inches thick, mineralised sometimes more and sometimes less, with iron pyrites and silver and antimony sulphides, from which the management report assays higher in gold but lower in silver, the whole, however, averaging well. The manager estimated the entire vein to run over \$25 to the ton, which estimate seemed reasonable. Shipments of sorted ore were being made down the hill by the pack-train which brought up supplies, and these shipments were reported as running over \$100 to the ton in gold and silver.

The Provincial Mineralogist took samples from the upper and lower portions of the vein, representing the two classes of ore rather than the average. These he brought to Victoria, where they were assayed by the Government Assayer. The results obtained were as follows:—

No. 1.—Galena from the lower portions of the vein—Gold \$13.60; silver, 442 ounces to the ton.

No. 2.—The vein quartz well mineralised—Gold, \$7.60; silver, 113 ounces to the ton.

No. 3.—The "fines" broken in sorting the ore from both portions of vein—Gold, \$17.60; silver, 163 ounces to the ton.

On the strike of the vein as indicated by the *Montana* workings, a tunnel was driven in on the *Mountain Hero*, the adjoining claim, through wash for 80 feet, when the solid formation was struck, in which a 50-foot raise was made, when the vein was found containing similar quartz ore, seemingly proving the vein and ore body for 1,800 feet along its strike. The management reports the vein as distinctly traced through at least seven claims by float and occasional croppings, upon which some work has been done.

The Company has a Riblet aerial tramway,  $3\frac{1}{2}$  miles long, almost completed from the *Montana Group* to the shore of Windy Arm at Conrad City, and has constructed at the mine a stone bunk and cook-house for the workmen, and will, consequently, be able to continue development work all winter with a small force of men.

An allied syndicate, the J. F. Conrad Bonanza, has done considerable development in the way of open cuts on the *Venus* vein, which lies about half a mile south of the *Montana*. The country here is cut by the deep canyon of Pooley creek, apparently a fault line, which has enabled the vein to be prospected at a depth of over 1,000 feet. The strike of this vein appears to be about south-west, with a dip to the west. In the same vicinity this syndicate is also developing a parallel vein on the *Uranus* claims, on which it is reported some 600 feet of work has been done, developing good ore.

From both of these properties tram lines have been surveyed and the right of way cleared down to Windy Arm, at a point some  $2\frac{1}{2}$  miles to the south of Conrad City.

There are probably 100 more claims located on this slope, on which, as yet, only slight surface development has been done, but in many instances most encouraging results are reported.

From the plans seen of the various properties, it would appear that there are at least two main series of veins, an east and west series and a north and south series, which latter series, to the north of Pooley Canyon, bears to the north-west, and south of the canyon to the south-west. It could not be learned that as yet any development had been done on any claims on the west side of Windy Arm south of the 60th parallel. On the east side of the Arm, on Conrad mountain, which is cut by the 60th parallel, a large number of claims were staked late this past summer, but these have not yet received much development, being difficult of access and at an elevation high above the lake.