

the ore zones, and second, intense shattering of the greenstone mass, with the development of a vast aggregation of reticulating quartz veins and stringers.

The metallic sulphides are disseminated through the silicified greenstones, as well as through the quartz veins and stringers.

The high grade ore bodies on the Premier, Little Joker, E. Pluribus and Forty-Nine, which are undoubtedly of secondary origin, occur altogether within the greenstone.

The general structure of the mineral zones carrying the high grade ore is similar to that of the low grade. An important feature, and one which has a bearing on the high grade ore shoots, is shown in a series of fissures crossing the line of schistosity of the inneral-bearing schists. This cross-fissuring is most pronounced in the Premier Mine, and it is along these fissure zones that some of the exceedingly rich ore is found. The extent of these rich shoots has not been determined, but sufficient has been done to prove that the mine is one of great richness. A sample of one hundred sacks of ore taken from this mine shows the following values:

Zn., 3.3; Pb., 1.7; Cu., 0.56; Au., 6.18; Ag., 148.6; Insol., 75.1; SiO₂, 64.9; Fe., 7.6; CaO., 1.3; S., 8.6; Al₂O₃, 6.5; MgO., 1.7.

Although later shipments showed higher values, this gives some conception of the richness of the ore encountered in the mine. A depth of 200 feet below the surface has been attained in the secondary enriched zone, with no evidence of decreasing values.

The same general structure prevails on the other properties having rich secondary ores.

The minerals present in these enriched ore bodies are native silver, argentite, ruby silver, sphalerite, galena and pyrite, carrying high gold values, and occasional small amounts of chalcopyrite.

The occurrence of these surface enriched ores is not at present explained. These mineral zones doubtless were overlain by a series of volcanic breccias, and it may be that to these overlying and protecting rocks can be given the credit of preserving the secondary enriched ores from destruction during the period of glaciation.

Provided a substantial tonnage of ore is developed, the district offers no obstruction to successful mine equipment and development. The mineral area is from twelve to twenty miles from tidewater, and no great difficulties to railway construction exist. For an elevation up to 2,000 feet the hills are densely wooded with a good quality of spruce, hemlock and cedar. Many thousand horse-power, continuous throughout the year, could be developed in Cascade Creek, which flows across the mineral area.

This district should prove of great attraction to the engineer. The ore is complex and will require skill in its treatment. The rich ore can be smelted direct, but the low grade offers a broad field for the exercise of the greatest ingenuity that the engineering profession affords.

Announcement is made from Ottawa that the United States Government on December 14th, will take off the embargo against the importation of wheat and wheat products. This will enable Canadian grain and milling interests to ship their products to the United States. Hitherto all exportation of wheat has gone to the Atlantic sea-board.

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