

Lanark.—Situatd near Illecillewaet, on the main line of the Canadian Pacific Railway. This mine has been working steadily during the year under the management of W. B. Dornberg, of Revelstoke. A little over 200 tons of concentrates has been shipped to Trail. It is reported that there is a good showing of ore in a 130-foot winze sunk from the bottom of the old workings, and that the ore runs: Lead, 10 per cent.; silver, 9 oz.; zinc, 7 to 8 per cent.

Mr. Dornberg is planning to add to the mill, thereby increasing the capacity to 150 tons. The additions will include a ball-mill, three tables, and a Zeigler flotation plant. The installation of a water-power plant is also being contemplated. Twenty-five men have been employed during the season, but very little work will be attempted during the winter months.

Key of Wealth Group.—Situatd near the headwaters of Cariboo creek, which flows into the Illecillewaet river at Flint Creek Station, on the main line of the Canadian Pacific Railway. W. A. Thomason, of Revelstoke, has been doing some work on this property.

D. Woolsey is developing some claims up Silver creek not far from Albert canyon. A trail has been built to the property, which is approximately seven miles from the Canadian Pacific Railway.

WESTERN MINERAL SURVEY DISTRICT, No. 6.

PRELIMINARY REPORT BY W. M. BREWER, RESIDENT ENGINEER.

(Headquarters, Nanaimo.)

Under an Act passed by the Provincial Legislature during the 1917 session, that section of the Province which had heretofore been included in the Minister of Mines' Reports under the "Coast District" is now known as the "Western Mineral Survey District," and consists of the following Mining Divisions: Vancouver, New Westminster, Victoria, Nanaimo, Alberni, Clayoquot, and Quatsino, with the headquarters of the Resident Engineer at the city of Nanaimo.

Vancouver Mining Division.

The operations carried on by the Britannia Mining and Smelting Company, Limited, on Howe sound, about twenty-eight miles from the city of Vancouver, during 1917 reached a record both with regard to the amount of development-work performed in the mines and the quantity of ore treated in the mill at Britannia Beach. The tonnage of ore sent to the mill is estimated to be greater than in any previous year, and would have exceeded 500,000 tons but for the fact that during the early fall there was only a limited supply of water for power purposes, and the further fact that on the night of November 10th a freshet damaged the incline tramway to such an extent as to compel the company to close down the plant for several days for repairs, using only the aerial tramway in the meantime for transporting ore from the mine to the mill. This reduced the tonnage transported from 2,100 tons a day to about 700 tons.

In addition to the extensions of the development-work in the mines, the company had diamond-drilling plants boring on adjacent mineral claims near the headwaters of Seymour creek. As a result of this prospecting-work the Britannia Company during 1917 acquired by purchase several mineral claims in that locality.

Some idea of the great extent of the underground workings can be formed when it is considered that such aggregate approximately twenty miles, and are connected up by a system of main and transfer raises between the levels from the 2,200-foot level, at an elevation of 2,100 feet above sea-level, to the surface glory-holes at an elevation of 4,350 feet above sea-level.

The new adits, one on the 2,700-foot level or 500 feet lower elevation than the 2,200-foot level, and the other, known as the 4,100-foot level, or at an elevation of about 250 feet above sea-level, and on the same level as the top of the concentrating-mill, have been advanced, until each is now about 3,000 feet in length.

Eventually the lower adit, which is 9 x 13 feet in dimension, will be the main haulage-adit for transporting ore from the mine to the mill, and would have been advanced still farther during the past year but for the shortage of water in the fall, which curtailed the power.

The hydro-electrical plant has been very much increased during the past year, and a great deal of concrete-work has been done on the tunnel that carried the water from Furry creek, on the South Valley side of the Britannia Company's property.

The "glory-hole" system of mining was very considerably extended during 1917, until the total length of the main glory-hole is about 400 feet and the maximum width about 175 feet. The depth is 250 feet, or from the surface to the 250-foot level, from which the broken ore