

assays run as follows: Manganese, 42.00 per cent.; iron, 1 per cent.; moisture, 13.12 per cent.; silica, 4 per cent.; phosphorus, 0.01 per cent.

The limited exploratory work done would indicate that the ore occurs as a blanket deposit lying on or near the surface and having a thickness of from 1 to 3.5 feet. This property has possibilities and further work should be done to determine the extent and character of the deposit.

Geo.—The work on this property has principally been confined to driving a long crosscut to tap the ore-body at a greater depth. Eight men have been employed. Shipment to Trail, 396 tons.

Helen.—This property, which has been lying idle for some years, is now being developed on a small scale by W. English, of Kaslo. It is a silver-lead ore carrying high silver values.

Bell.—This property is being operated by the Jackson Basin Zinc Company. Shipment to Trail, 569 tons.

Whitewater.—Ten men have been working at this property during the year under lease. Shipment made, 600 tons.

Charleston.—This property is situated above the *Whitewater*. A. J. Harris is doing some development-work.

Eureka.—This property is being developed by J. C. Ryan.

Slocan Mining Division.

SANDON CAMP.

The Surprise Mining Company, which has been an active shipper during the year, has recently acquired the *Boson* mine, near New Denver. The old workings are being cleaned out and the property is being systematically developed, with the result that a considerable quantity of zinc ore is now available for extraction. This ore runs high in silver values.

It is estimated that there is 15,000 tons of ore on the old dumps; the average values of numerous samples taken run as follows: Silver, 10 oz.; lead, 2 per cent.; zinc, 7 per cent. The ore from this property will be treated at the Roseberry mill, which has recently been leased by the company. Improvements are now being made at the mill and a flotation plant is being installed. The flotation units will consist of a K. & K. and a Hyues machine.

The ore from the *Surprise* mine is being milled at Sandon.

Noble Five Group.—Development-work in the lower tunnel has proved the existence of ore in commercial quantities at a depth of 3,000 feet below the apex of the veins. This, being the deepest exploratory work done, is of great importance to the whole camp, as it throws a new light on the character of the ore-shoots and proves their continuity with depth.

A four-compartment vertical raise is now being started from the lower tunnel to connect with the upper workings. The length of this raise will be 1,300 feet, and it will consist of two chutes, a manway, and a skipway. At every 200 feet hopper-bottom pockets will be built to break the fall of the ore.

Clarence Cunningham, who has been actively engaged during the year, has done a lot to resuscitate mining in the Sandon and Silverton camps, and reports that satisfactory progress is being made at the various properties which he controls. He is now operating the following properties: The *Queen Bess*, *Idaho-Alamo*, *Sovereign*, *Wonderful*, *Van-Roi*, and *Hewitt*.

An aerial tramway is now nearing completion to transport the ore from the *Idaho-Alamo* and *Queen Bess* to the railway at Alamo. An important strike was made at the *Queen Bess*, when a little crosscutting from the old workings disclosed a large high-grade ore-shoot. Mr. Cunningham has about 250 men on his pay-roll.

Carnation Group.—This group is being reopened and systematically exploited by George Clarke, of Sandon. Good trails have been constructed to the property, and a camp with accommodation for twenty men has been built near the mine. Five men are at present employed.

Ruth.—Development-work has been confined to the driving of a long crosscut to tap the vein at a greater depth.

Payne.—W. H. Burgess, of Kaslo, is working this property under a lease, and has had six men steadily employed during the season; 21 tons of silver-lead ore has been shipped, and there is now 30 tons of zinc ore ready for shipment at Sandon.

Sunset.—The Jackson Basin Zinc Company has a lease and bond on this property, and reports that there is a car-load of silver-lead ore at Sandon ready for shipment.

Soho.—J. C. Ryan is carrying on development-work at this property.