

Considerable work has been done by the Government in the way of opening up of trails to facilitate the development of a number of promising mineral-bearing areas. A sleigh road has been run from Hazelton into the Cronin property, a distance of about thirty miles, and improvements to the road leading to the Santa Maria properties on the Telkwa were made. As a result of this work a quantity of milling machinery will be taken into the Cronin properties this winter. Development work on a number of important properties has made progress. On what is known as the Sweeney properties, in the Sibola district, south of the G. T. P., some remarkable showings have been made in silver lead ores. The property has been bonded by Mr. Cronin and next year we will see great development there. The Standard mine is erecting a mill on its property four miles from Hazelton, with a fifty-ton concentrator. The Rocher de Boule is continuing development, some of its recent shipments to the Tacoma smelter running twelve per cent. copper, two ounces of silver and \$5 in gold per ton. The company is putting in a 950-foot rise from the lower level to the upper workings and is making ore shipments of from fifty to one hundred tons per diem.

In the old Cariboo district, which falls under the supervision of Mr. Galloway, the output of placer gold this year will be about the same as last year in the Cariboo and Barkerville sections, where half a dozen hydraulic concerns perform ninety-five per cent of the work. Production, in Mr. Galloway's opinion, could be materially increased in those districts, as there are properties that would produce results, but with the increasing cost of labor and supplies, in the face of a permanent value for the gold product, there is no incentive for the miners to produce gold, which, unlike other metals, does not increase in value with an increase in demand.

Zinc ore shipments from the Lucky Jim mine are being resumed at once. A carload of crude ore is being loaded and will be sent out shortly. Shipments of concentrates from the mill at Kaslo are also to be made immediately.

Resumption of operations at the Kalso mill will take place after some changes have been made at the plant with a view to securing a greater saving.

Two shifts of three men each are at work at the Providence mine, near Greenwood. This mine is under lease by Morrison & Larsen, formerly of the Mother Lode. M. F. Madden of Chicago is the principal owner.

Work was commenced several weeks ago in an old shaft. The lessees sunk this shaft 15 feet from where they drilled on a vein in a southerly direction, and up to the first of last week were in 25 feet. The vein is 10 inches wide, and is of high grade ore, carrying silver, gold, lead, zinc and copper. The copper is expected to run close to 2 per cent. Native silver and gold are visible in the lead. On an estimate this ore may average \$200 to the ton.

A shipment was made last week to the Canada Copper corporation's smelter.

Ore reserves at the Cork-Provence mine were doubled by operations carried on between June 10 and the beginning of December, according to a report on the property, which has been issued by the directors. Production of 414 tons at the mill during July, August, September and October yielded \$24,623, or about \$60 a ton.

Accompanying the report is a financial statement, as of Nov. 30, 1917, and covering the period from July 1 to that date. It shows that receipts have been \$46,088.72 and expenditures \$41,299.20, leaving a balance of \$4,789.52, represented by cash on hand. Cash to the amount of \$9,836.95 was carried forward from last statement; \$24,623.49 received from sale of 414 tons of ore; \$11,247.38 received from sale of treasury stock and about \$480 from miscellaneous sources. Ore production cost \$7,105.95; general mine expense, \$3,550.80; ore transportation \$1,231.36; operation of mill, \$2,768.84; boarding house \$1,001.22; general expense, \$2,113.56. Extraordinary expenses were as follows: General mill repairs and renewals, \$3,143.84; ad-

ditions to plant and mill, \$14,326.28; mine repairs, \$397.50; sundry plant repairs, \$125.98; and development, \$6,110.08.

The following is extracted from the report which is signed by W. E. Zwickey, president; H. Giegerich, vice-president; W. H. Burgess, secretary-treasurer, and R. E. M. Strickland and J. D. Sherwood, directors:

"As stated in our report of July 10 last, we commenced hauling lead concentrates early in that month, running the mill on and off during a general repair. In August we ran the equivalent of 30 eight-hour shifts; in September 48 shifts of eight hours, and in October 22 shifts of eight hours up to the 12th, when we ceased running the mill, as herein-after mentioned. In all, we got in a little over a full month's run of 24 hours daily, during which time we made and shipped 414 tons of lead concentrates, as per statement.

"After a trial run of our new ball mill, it having been established that we did not have sufficient table capacity in the mill to take care of the increased amount of fine material, in August we ordered three new Wilfley tables and classifiers. The tables have only now arrived and word has just come that the classifiers have been shipped from Denver, Col. The tables took two months to make the journey.

"After experiments in the mill had proved that we could not make a marketable zinc concentrate on our jiggs or tables, we ordered a Dorr thickening tank and installed a tank to take care of our tailings pending installation of flotation process. The Dorr tank has arrived and is at the mine.

"Our repair work and preparation for winter were nearly completed in October, when we were informed by the smelter that it would not take further lead concentrates containing over 4 per cent zinc after October 15. As but a small part of our product was under 4 per cent zinc, we ceased milling pending an adjustment of this ruling, which came about shortly afterwards, when we were notified we could ship a limited tonnage until the smelter worked off an accumulated stock.

"Just about this time we had an accident to the casting on our turbine wheel, which supplies winter power to our mill. We immediately had the Union Iron Works of Spokane, Wash., make us a steel casing, but upon its arrival at the boundary line it was held up pending an export license from the United States war trade board, which has only now arrived, and the casing has been released.

"It is now intended to accumulate this machinery, and get the flotation unit installed, so that we can also save our zinc values when we operate. A flotation test on our tails, made by the Southwestern Engineering company of Los Angeles, shows that we can make a 45 per cent zinc, 18 ounce silver concentrate. This loss, as we have been running with our present equipment, figured at 8-cent spelter, would more than pay all our expenses and leave the lead-silver as a net profit. We have obtained from the Minerals Separation company a very favorable license to use the flotation process, and are awaiting their report, also on a test of the material to be treated.

"The mine is looking very well, and the ore reserves have been at least doubled since last report..

"We have thought it well to give this lengthy statement so that the shareholders will be fully informed of the actual conditions."

## Ladysmith Smelting Corporation, Ltd.

Buyers and Smelters of Copper, Gold and Silver Ores

WORKS:  
On Tidewater  
Vancouver Island

OFFICES:  
504-507 Belmont Building  
Victoria, B. C.