

## MINING RETURNS AND STATISTICS.

## ROSSLAND.

SHIPMENTS from this district for the two months ending Feb. 28 are as follows:—

|                   | Tons.  |
|-------------------|--------|
| Le Roi.....       | 32,739 |
| Centre Star.....  | 13,430 |
| War Eagle.....    | 9,035  |
| Giant.....        | 335    |
| Velvet.....       | 1,391  |
| Kootenay.....     | 225    |
| Le Roi No. 2..... | 2,709  |
| Homestake.....    | 90     |
| Total.....        | 60,044 |

## SLOCAN.

From January 1st to February 21st.

|                     | Tons  |
|---------------------|-------|
| American Boy.....   | 245   |
| Antoine.....        | 16    |
| Arlington.....      | 40    |
| Black Prince.....   | 35    |
| Bondholder.....     | 1     |
| Bosun.....          | 140   |
| Blue Bird.....      | 20    |
| Enterprise.....     | 160   |
| Dayton.....         | 2     |
| Fisher Maiden.....  | 290   |
| Idaho.....          | 21    |
| Ivanhoe.....        | 240   |
| Monitor (Jan.)..... | 144   |
| Ottawa.....         | 80    |
| Payne.....          | 566   |
| Queen Bess.....     | 20    |
| Rambler.....        | 120   |
| Reco.....           | 70    |
| Republic.....       | 20    |
| Ruth.....           | 21    |
| Slocan Star.....    | 146   |
|                     | 2,276 |

## THE LARDEAU.

In the last two months the Silver Cup and Nettie L. mines have shipped 597 tons of high-grade ore. The Lardeau *Eagle* publishes the following interesting returns of shipments from these mines:—

Silver Cup.—Total for 1902, 555,900 lbs., containing gold 192,496 oz., silver 54798.63 oz., lead 144,770 lbs. Value \$31,434.59.

Total for 1903 to date, 650,293 lbs., containing gold 212,615 oz., silver 59977.42 oz., lead 156,175 lbs. Value \$34,393.89.

Nettie L.—Total for 1901, 1,755,507 lbs. Value \$63,460.95.

Total for 1902, 1,057,120 lbs. Value \$43,236.83.

Total for 1903 to date, 927,033 lbs. Value \$36,237.71.

## COMPANY NOTES.

CARIBOO (CAMP MCKINNEY).—Work is proceeding satisfactorily, with a force of between 40 and 50 men employed. At the Waterloo a force of 17 men is at present employed.

BOSUN.—Cablegram from the manager reports 60 tons galena shipped during the month of January and 50 tons zinc produced.

THE YMIR.—The following are the returns for January: Battery—Number of tons crushed: 4,200 tons crushed—60 heads of stamps running 29 days, yielded 1,711 ounces of bullion. Gross estimated value, \$19,750 (£4,072)—have shipped 265 tons of concentrates—gross estimated value, \$8,750 (£1,804)—estimated net proceeds, \$5,750 (£1,186). Cyanide—Tons treated, 2,550 (20,000 pounds English)—gross estimated value, \$4,000 (£825). Total working expenses, \$16,250 (£3,350). Expenditure on capital account—Cost of development, \$2,500

(£515). Sundry receipts, \$800 (£165). Net profit, \$11,550 (£2,380).

MORRISON (BOUNDARY).—It is reported that arrangements are being made for the amalgamation of the Morrison Mines, Limited, owning the Morrison mine in Deadwood camp, and the Athelstan Gold and Copper Mining Co., owning the Athelstan mine, in Wellington camp. A joint meeting of the shareholders of both companies for the purpose of ratifying the terms will be held in Grand Forks on March 28th next. The Athelstan Company will go out of existence, its property passing into the possession of the Morrison company. The latter is incorporated for \$150,000, in shares of a par value of 10 cents each, and the Athelstan has a capital stock of \$50,000, or 1,000,000 shares of the par value of 5 cents each. According to the terms proposed the shareholders of the Athelstan will receive shares on a certain basis in the consolidated company. The capital stock will remain at \$150,000, or one and one half million shares of the par value of 10 cents each.

LE ROI.—Shipped to Northport during January 16,377 tons of ore, containing 5,673 ounces of gold, 10,695 ounces silver, 479,183 pounds copper. Estimated profit on this ore, \$15,000.

DOMINION POWER AND IRRIGATION CO.—A new company, the Dominion Power and Irrigation Company, Limited, is being formed, with a capital of \$250,000, to buy the water rights held by the Dominion Consolidated Mines Co., Limited, and to develop the water power. The necessary capital is subscribed partly in Montreal and partly locally. The company intend to develop the water power of Okanagan Falls to the extent of 1,000 or 1,500-h.p., and the company is asking for tenders for the supply of the necessary turbines, dynamos and motors. R. H. Parkinson, C.E., of Fairview, B.C., is in charge of the construction works.

VICTORY-TRIUMPH.—A new milling plant is being installed at the Victory-Triumph mine, Rossland, of the high-speed gravitation type, the first of its kind on the continent. The mill is a new design evolved after years of investigation and experimenting by a practical mechanical engineer. A description of the apparatus states that in ordinary practice the best results obtained from the usual cam stamp with a drop of 7-1-2 inches effective height is about 95 drops per minute, while the weight of each stamp rarely exceeds 1,250 pounds, in the high-speed mill, the mean velocity at which the stamp is raised by the cylinder so far exceeds the limit velocity imposed by the essential features of the cam mechanism that from 132 to 135 drops per minute each of 7-1-2 inches effective height, can be obtained. It is therefore, much more effective and economical.

## RECENT PUBLICATIONS.

PRODUCTION and Properties of Zinc, by Walter Renton Ingalls. The *Engineering and Mining Journal*, New York and London. 1902. First edition.

This is probably the most complete and comprehensive treatise yet published dealing exclusively with the mining and metallurgy and marketing of zinc. In British Columbia at the present time the subject is one of exceptional interest, and Mr. Ingalls' book should have a wide circulation in this field. The work, which is well illustrated, is divided into twelve chapters dealing with the following matters: The History of the Zinc Industry; Present Economic Conditions; Uses of Zinc and Zinc Products; Statistics of Production and Prices; Analysis of Zinc Ores and Products; Properties of Zinc and its Alloys; Chemistry of the Compounds of Zinc; the Ores of Zinc; Occurrences of Zinc Ore in North America; Occurrences of Zinc Ores in Europe, Africa and Australia; Mechanical Concentration of Zinc Ores; and Sampling and Valuation of Ores.

We notice that under the heading of the occurrence of Zinc ores in Canada, no reference is made to the British Columbia mines in which zinc in considerable percentages is found. The omission is, however, excusable enough in that it is only