

been sorted before being milled, and the grade raised to an average of between \$12 and \$13 a ton. The last mill run, of 100 tons, gave an average of \$12.10 a ton.

Mr. J. L. Bruce, of Butte, Montana, general manager of the Butte & Superior and Hudson Bay Zinc Companies, when in Spokane on July 12, on his way home from the Hudson Bay mine, near Salmo, B.C., said: "While we have been shipping zinc ore from the Hudson Bay mine at the rate of about 45 tons daily, and may increase our output somewhat now that the roads are in good condition, we are concentrating our energies principally on getting the cross-cut tunnel to the ledge. It has already been driven 900 ft., with approximately 800 ft. yet to go to reach the vein, which it will cut at a depth of 850 ft. below the outcrop, or more than 500 ft. below our present level. We shall try working three shifts of men, and if it does not prove too expensive we shall keep them on until the vein shall be reached, for we are anxious to complete the driving of this tunnel within three months." The Hudson Bay mine, which latterly has shipped little if any other than an oxidized zinc ore, is situated on Deer Creek, a tributary of Sheep creek, in the southern part of Nelson mining division. In 1914 there was shipped to Trail from this mine 2,094 tons of lead ore and in 1915 429 tons. This year only 116 tons of ore reached Trail from this mine. Its zinc-ore output last year was estimated at approximately 4,000 tons, stated to have averaged about 30 per cent. zinc, shipped to the United States. Much zinc ore has also been shipped this year.

Rossland.—The Premier of British Columbia (Hon. W. J. Bowser) and others of his party who have been making a tour of the Okanagan, Boundary and West Kootenay districts, on July 23 visited the Consolidated Mining and Smelting Co.'s Centre Star, War Eagle and Le Roi mines, in Rossland camp. They were lowered in a cage down the Centre Star incline shaft to a depth of 2,300 ft. The Nelson Daily News correspondent, in his account of the visit, stated that "750 men are employed in these three mines. Members of the visiting party declared that the mines with their modern equipment of electric train and lighting and the miles of tunnels made one of the most impressive evidences of the natural resources of the country they had seen throughout their tour."

The Josie mine report for the month of May has been made public by the London office of the Le Roi No. 2, Ltd., as follows: "Shipped to Trail, 1,515 tons of ore. The receipts from the smeltery were \$22,201, being payment for 1,967 tons of ore shipped; umpires, etc., \$1,443; sundries, \$431; total receipts, \$24,075. Estimated working costs for the corresponding period were: Ore production, \$7,800; capital expenditure, \$636; development (including diamond drilling), \$3,600; total, \$12,036." Adding figures published earlier, it is seen that the total receipts for five months of 1916 to the end of May have been \$92,297, and expenditures \$76,790, leaving a credit balance of \$15,507.

GENERAL NOTES.

On July 5 the "Spokesman-Review," of Spokane, Washington, published the following: "The clean-up at the Union Hydraulic mine, near Vernon, B.C., was a great disappointment," said Russell H. Hanauer on his return yesterday from a visit to that property. "Though we moved six times the volume of gravel that was handled last season, the yield of gold was only \$4,500, or not quite twice what was gained last season. We lost about \$4,000 on the season's operations."

Last month the Railway Commissioners heard arguments in favor of the contention of those interested in the Lardeau district of West Kooteney that the Canadian Pacific Railway Co. should be required to maintain a regular train service on its branch line from the head of Kootenay lake to Gerrard at the foot of Trout lake, and a steamer service on Trout lake between Gerrard and Trout Lake City, as it had done for many years until recently. One of the advocates in the interest of mining in Trout Lake mining division said that without assurance of a railway service it would be impossible to obtain capital for the development of the many mining properties in the Lardeau district. He mentioned the Triune, Great Northern, Silver Cup, Lucky Boy as mines that would ship ore if suitable transportation facilities were provided. The Triune, he stated, has from 1,200 to 1,500 tons of ore available for shipment, which ore could be marketed while the prices of metals were high, as at the present. He did not contend that there was sufficient business in sight to make the operation of the branch railway and steamer service profitable, but such service should be discontinued the Lardeau country could not be developed. Another speaker pointed out that if the railway service were not continued the operation of the Marblehead quarry, situated about ten miles along the line from Lardo, on Kootenay lake, would not be practicable. About \$300,000 had been spent in the acquirement and development of this property, which would have an output of a car and a half of marble a day when conditions should again become such that orders would be received. There was now about 50,000 tons of marble on the bank ready for shipment. If operated at full capacity, the quarry would give employment to 100 men. The C.P.R. official representing the company at the hearing showed that no marble was shipped in 1914, and only six or eight cars in 1915, but the manager of the quarry replied that only development work had attention in the former year. The C. P. R. representative submitted figures for three years, as follows: Total cost of railway and train services, \$100,387; total receipts, \$47,407; loss to the company, \$52,980. The Board reserved its decision.

Mr. Jules Labarthe, of San Francisco, California, engineer in charge of construction of the Bunker Hill & Sullivan Co.'s smeltery at Kellogg, Coeur d'Alene district of Idaho, when in Spokane, Washington, last month after a visit to the Consolidated M. & So. Co.'s smelting works at Trail, of which he was superintendent for several years prior to his removal to the United States three or four years ago, stated that he found the reduction works at Trail a great deal larger than when he was in charge, and still being enlarged. "They are making a success of their electrolytic zinc refining operations and are enlarging the capacity of the works by making a big addition. It is the first plant of the kind I have ever seen in operation, except an experimental plant of similar character at Anaconda, Montana," he said.

Metalliferous mining companies operating in British Columbia that have declared dividends payable in August are: Granby Consolidated M. S. and P. Co. \$2 a share, total \$299,970, August 1; Standard Silver-Lead Mining Co., 2½c. a share, total \$50,000, August 10; Rambler-Cariboo Mines, 1c. a share, total \$17,500, August 15.