

tract in Mexico for the exclusive license to manufacture, sell and use the process in Mexico at good royalty and large guarantee. The contract is undertaken by representatives of the large iron and steel works at Burango, Mexico. The company has recently shipped nine machines to the Eagle Fluor Spar Company in Kentucky, who have been using three machines for some time. Shipments have also been made to Colorado, Pennsylvania, Indiana, and a considerable order is being finished for a copper company. The company maintains a large-testing works in New York City, and is receiving ores from all parts of the world. Their process seems indispensable in countries where water is scarce, but, they claim it is a superior one to use without the question of water.

An order was placed with the Edward P. Allis Co., of Milwaukee, through their Spokane office, by the Mountain Copper Co., Ltd., of Keswick, Cal., for machinery for a copper converting plant, consisting of three stands of converters, blowing engine, electric crane and all the necessary appurtenances belonging to a converting plant. It is expected that the plant will be in operation in about six months. The total shipping weight of the machinery sold is approximately 500,000 pounds.

The Vancouver Engineering Co., the new concern which is about to take over the works of Armstrong & Morrison, expects to fully complete the transfer of the business by the end of this month. The new company has placed large contracts for new machine tools and a complete iron and brass foundry, with all necessary equipment. The foundry, which will be a new iron building, will shortly be erected. New draughting offices have already been built, with every accommodation. It is the intention of the Vancouver Engineering Co., with an efficient staff of consulting engineers and draughtsmen, to undertake all sorts of design work. In addition to the general lines of manufacture that have been carried on at the works, the company will undertake all kinds of marine work, with every facility for the successful handling of this important industry. It is gratifying to learn that Messrs. Armstrong & Morrison will still retain an interest in the business, and their influence and ability as well known engineers and contractors will go a long way to ensure the prosperity of the new concern.

The Gates Iron Works, of Chicago, have recently sold a complete copper smelting and converting plant to the Granby Mining & Smelting Co., of Grand Forks, this being a second order from the same concern. This will complete one of the largest copper smelting and refining plants built in the United States or Canada. The success obtained by the Granby company with its initial plant has been unequalled. It consisted of two rectangular water-jacketed furnaces, 44x160 inches, with all the necessary appurtenances incident to a modern copper smelting plant, and was installed at Grand Forks, British Columbia, to handle the low-grade copper ores in the Boundary district, and was designed to handle 500 tons per day. Under the direction of Mr. A. B. W. Hodges it has actually averaged 600 tons per day, and has reached as high as 763 tons. The Granby company has, within the last month, completed smelting its first 100,000 tons, attaining a cost of mining and smelting that has made a new record. To complete their plant, the Granby people have just placed this second order with the Gates Iron Works, consisting in part of two more water-jacketed furnaces, 44x160 inches; a complete ore crushing and sampling works, with No. 5 style "D" crusher; one 9x15 in. Blake crusher, one "P" Gates crusher, one sample grinder, three sets of rolls, elevators, etc.; a complete silica crushing mill, including a Dodge crusher, dry pans, elevators, etc., and the following converting machinery: One tilting reverberatory furnace complete, one converter stand complete, cars, a complete hydraulic system, blowing engine, one 10-ton electric crane, one 40-ton electric crane, with everything to make a perfect plant.

MINING RETURNS AND STATISTICS.

THE COAST.

UP to the third week in March 111,867 tons of ore, averaging \$20.70 per ton were shipped.

LILLOOET.

The completed returns from the Ben d'Or mine of operations since August, 1899, are as follows: Mill has run 247 days, 19 hours, 5 minutes; crushing, 5,020 tons; saved by amalgamation, 2,671.34 oz.; realizing, \$60,878.19; value of tailings saved for treatment at \$1.49 per ton, \$22,539.80; total value of ore crushed, \$83,417.99; value per ton, \$16.61; cost of mining and milling, \$5.15. Since the commencement of the year over 300 tons of ore have been crushed, but no clean-up has as yet been made.

BOUNDARY CREEK.

The British Columbia Copper Company's smelter at Greenwood turned out 13 cars, or about 360 tons, of 50 per cent. copper matte during the first month's run to the 22nd inst. The Granby smelter at Grand Forks continues to be operated at its full capacity.

ROSSLAND.

Our Rossland correspondent telegraphs that the production from this district for March is approximately 39,000 tons. The following is a comparative table of production to date:

	1901.	1900.	Tons.
Shipments for January	28,000	24,933	3,067
Shipments for February	27,695	6,960	20,735
Shipments for March	39,000	270	38,721

Shipments for 1st Quarter 94,695 32,172 62,523

An interesting report was lately received from the manager of the Le Roi mine for the month ended 31st December, 1900. This states amongst other details that the shipments then made to the Northport smelting works from the mine totalled 11,431.00 dry tons of 2,000 lbs. each.

200 foot level	371.18
300 foot level	696.78
350 foot level	8.11
500 foot level	2,489.72
600 foot level	3,639.14
700 foot level	5,529.70
800 foot level	1,696.37

Total 14,431.00

The details of these shipments are recorded as follows: 7,743.19 ozs. gold at \$20.00, \$154,863.80 or \$10.73 per ton; 15,530.14 ozs. silver at .60, \$9,330.08 or .65 per ton; 488,804 lbs. copper at .1635, \$80,652.66 or \$5.59 per ton. Making the total gross value \$244,846.54 and the average value per ton \$16.97.

An appended summary shows as follows the total aggregate tonnage and the average value per ton for the ore shipped during the six months ended 31st December, 1900:

Month.	Tons.	Gross value.	per ton.
July	17,301	\$243,576.44	\$14.03
August	19,302	238,427.06	12.34
September	15,831	184,563.00	11.65
October	16,115	222,752.20	13.82
November	14,958	218,644.79	14.61
December	14,431	244,846.79	16.97

Totals 97,938 \$1,352,810.27
Average value per ton, \$38.81

THE SLOCAN.

The ore shipments from Three Forks during January and February was 622½ tons; from McGuigan 354½ tons; from Sandon, 2,682 tons.

From Slocan Lake points the shipments from January 1st to March 21st have been as follows:

From	Tons.
New Denver	120
Hartney	120
Bosun Landing	180
Bosun	180
Silverton	520
Hewett	520
Enterprise Landing	120
Arlington	120
Slocan City	840
Arlington	840
Two Friends	40
Black Prince	60
Bondholder	50
Chapleau	15
Speculator	20

Total 1,965

EAST KOOTENAY.

At Moyie the St. Eugene is working a full force and the usual tonnage of ore is being shipped regularly. At Kimberley the North Star is maintaining an output of from 60 to 70 tons daily.

COAL EXPORTATIONS.

THE foreign coal shipments from the Vancouver Island collieries to March 1st aggregated 179,454 tons.

The output for foreign market of the New Vancouver Coal Co. for the three weeks ending March 20th was as follows:

Date.	Vessel.	Destination.	Tons.
5	SS. "Milton"	San Diego	4,801
7	SS. "Minicola"	Port Los Angeles	3,293
9	SS. "Titania"	San Francisco	5,716
11	SS. "New England"	Alaska	85
13	SS. "San Mateo"	Port Los Angeles	4,292
15	SS. "San Jose"	Acapulco, Mexico	1,768

Total 19,925