

this week, and two additional carloads, with other machinery, are expected before Saturday. The power house is being enlarged and the extended foundations have been completed. The power plant will be increased by a 250 horse power horizontal turbine water wheel and a 250 horse power electric generator directly connected with the water wheel, making a total of 850 horse power developed for the use of the smelter. This is exclusive of the 250 horse power developed for the city of Grand Forks, the total power thus developed on the Kettle river being 1090 horse power. There will also be added an additional triplex power pump, which will supply an additional 750,000 gallons of water daily for granulating the slag and for the water jackets. The enlargement of the smelter building is also in progress. It will contain two furnaces, making the total capacity 1,300 tons daily. The new No. 5 gyrator crusher in the sampling works will increase the crushing capacity 1,000 tons daily. The converter building now being erected will be a steel fireproof structure 160 x 68 feet, its height in the main portion being 35 feet. The contract for its construction was awarded to the Hamilton Bridge Company of Hamilton, Ont. This building will contain two stands of converters of the horizontal barrel type. The shells will be 72 inches in diameter by 100 inches in length. Each stand will have three extra shells. This building will contain a 40-ton electric travelling crane for handling the shells and matte; in another portion of the building will be a 20-ton reverberatory tilting furnace. In the same building there will also be the quartz crushing plant and grinding pan for mixing the converter linings. Under each converter stand will be three mould-carriers, and these will be operated back and forth by a hydraulic ram. The converters as well as the tilting furnace will also be operated by hydraulic power. Near by the converter building will be the engine room, in which will be located the blowing engine for blowing the converters; also the hydraulic pump which will furnish the pressure to operate the various machines in the converter building. The blowing engine will be run by a belt from a 20 horse power alternating motor. It is of the power type, has an air cylinder 36 x 36 inches and has a special unloading device attached, so that when the pressure reaches a maximum of 12 pounds the valves are so arranged that they remain open and no power is consumed when the converter is not using air. This unloading device was especially built for the Granby company, and has never been used on any low pressure blowing engine employed for converter purposes.

**St. Eugene Consolidated.**—Charles Biesel, superintendent of the St. Eugene states that a crew of 90 men is employed in the mine on development exclusively. The work in hand consists of sinking on the Lake Shore and the extension of the horizontal workings on the other claims comprising the St. Eugene. The big concentrator is shut down, and it is probelmatical when it will resume. The London market for lead shows no signs of improvement; in fact there is a decline rather than otherwise.

**The Ymir Gold Mines.**—The directors have declared a further interim dividend of 1s. per share, free of income tax, payable on the 24th instant. The secretary adds:—I am also pleased to say that a mail to hand yesterday confirms in the most satisfactory manner the information cabled and published on the 25th ultimo with regard to the rich developments in No. 4 level. Careful tests of samples taken from the cars as they came from No. 4 level (600 feet below the surface) showed a value of over £8 to the ton of ore for a width of 15 feet. The importance of these developments will at once be apparent when it is recalled that the average value of the ore from which past profits have been derived was only about £2 10s. per ton.

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**British Columbia Copper Co.**—This company owning the Mother Lode mine, has ordered another furnace for its smelter at Greenwood. The new furnace will be similar in construction to the one now in operation and which has had an uninterrupted and very successful run ever since it was first blown in, on February 18th of the current year. It is a stack furnace, the down take going from 12 feet above the feed floor up some 15 feet and then down into the big main dust flue. The size of the furnace is 42 inches wide by 150 inches long, inside dimensions at tuyeres, of which there are 10 at each side, of 3 inches diameter. The Allis Chalmers company (successors to the E. P. Allis Co., who manufactured the first furnace), of Milwaukee, Wis., are building the new furnace, the construction of which will take about 60 days. Allowing for time that will be occupied in delivery at Greenwood, and in construction, it will be between three and four months before the new furnace will be ready for operation. There is very little preliminary work to be done at the smelter, provision having been made at the first for two more furnaces. The steel furnace house will have to be enlarged, but the floor and the dust flue are ready for the putting in of the additional smelting facilities the new furnace will afford. The engines and boilers are sufficiently large to run three or four furnaces, but another blower will have to be added to provide for the increasing treatment capacity of the works. The nominal capacity of the furnace in use has frequently been stated in print as 225 tons. Its actual tonnage of ore treated since its blowing in is as follows: February, (10 days) 3,016 tons; March, 10,519 tons (daily average); April, 11,322 tons (daily average), 377½ tons; May, 11,830 tons (daily average, 381½ tons); June, 11,206 tons (daily average, 373½ tons). Total tonnage to June 30th, 44,877 tons; daily average for four months ended June 30th, nearly 398 tons.

**AGENT**—The United Asbestos Co. Ltd., of Dock House, Billiter Street, London, England, (the oldest Asbestos Mine Owners and Manufacturers in Europe) are prepared to appoint a first class firm as Sole Selling Agents for Canada. Terms and particulars on application.

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For further information apply to President Loudon, c/o High Commissioner for Canada, 17 Victoria St. S.W.

(Sg'd) RICHARD HARCOURT,

Minister of Education.

TORONTO, Ontario, Canada, June 1901.

## Mining Engineer Wanted.

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