

THE CANADIAN MINING JOURNAL

VOL. XXXV.

TORONTO, November 1, 1914.

No. 21

The Canadian Mining Journal

With which is incorporated the
"CANADIAN MINING REVIEW"

Devoted to Mining, Metallurgy and Allied Industries in Canada.

Published fortnightly by the

MINES PUBLISHING CO., LIMITED

Head Office - - - 2nd Floor, 44 and 46 Lombard St., Toronto
Branch Office - - - - - 600 Read Bldg., Montreal
London Office - - - Walter R. Skinner, 11-12 Clement's Lane
London, E.C.

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SUBSCRIPTIONS—Payable in advance, \$2.00 a year of 24 numbers, including postage in Canada. In all other countries, including postage, \$3.00 a year.

Advertising copy should reach the Toronto Office by the 8th, for issues of the 15th of each month, and by the 23rd for the issues of the first of the following month. If proof is required, the copy should be sent so that the accepted proof will reach the Toronto Office by the above dates.

CIRCULATION.

"Entered as second-class matter April 23rd, 1908, at the post office at Buffalo, N.Y., under the Act of Congress of March 3rd 1879."

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GRANBY'S SMELTERS

The Granby Consolidated Mining Smelting and Power Co. is and has been for years one of the largest producers of copper. From its mines at Phoenix, B.C., the company has shipped over 10,000,000 tons of ore. The ore is treated in the company's smelter at Grand Forks, B.C., the largest copper smelter in Canada.

The Phoenix ore is low grade. In the year ending June 30th, 1913, there was treated 1,264,690 tons, yielding an average of 17.68 lb. copper, 0.208 oz. silver and 0.0326 oz. gold. The average smelting cost was \$1.214 per ton. For the year ending June 30, 1914, the records show a recovery of 16.89 lb. copper per ton of ore smelted.

That such ore can be mined and smelted profitably is very creditable to those who have been in charge of operations. The method of treatment is of great interest, and the careful description of plant and methods prepared by Mr. A. W. G. Wilson, of the Mines Branch, Ottawa, and reproduced in the Journal, will doubtless prove interesting to many readers.

While operations are carried on satisfactorily at Phoenix and Grand Forks, the company does not regard its ore reserves as inexhaustible by any means, and has in the past few years examined many mining properties in British Columbia with a view to taking up promising ones and providing a field for operations that will perpetuate the life of the company. Of the properties examined a few have been taken up. Of these the most important is the Hidden Creek mine on Observatory inlet, north of Prince Rupert. Here a large body of ore, much richer than the Phoenix ore, has been developed. To treat this ore a smelter has been built at Anyox, and is now in successful operation. This also is a smelter of large capacity, and our readers will be interested in the brief description of it written some time ago by Mr. Wilson; but only recently published by the Mines Branch. While the description has lost part of its interest owing to a long delay in publication, it is nevertheless an important contribution.

Supplementing Dr. Wilson's description, it may be stated that the plant at Anyox is now in successful operation. The first furnace was "blown in" in March. Mechanical troubles were encountered, as is usual with new plants. The process proved also not wholly satisfactory, and the output during the summer has not been as high as expected. Problems of an unexpected nature arose and added to the cost of treatment. It is stated, however, that there has been considerable improvement in the last few months, and that for October the output will be about 1,800,000 lb. cop-