

so that ore can be brought down at any season to the works at the Sault. The Helen mine road itself is being pushed northeasterly to the new Josephine mine, and to a connection with the main line at the point where surveys show the junction. Work has commenced at this Josephine mine, and that property is expected to make some shipments next year. A careful sampling of the Helen is showing a better grade of ore than had been anticipated, and it looks as though careful mining, such as can be carried forward when the property is more fully opened, will furnish a Bessemer grade.

With the approaching completion of the American canal and the drain upon Lake Superior that will thereafter result, it was necessary to hasten the work upon the proposed dam across the Sault rapids. This dam has been under way now for a month, and the concrete piers are about completed for a fourth of the width of the river. The dam follows the line of the Canadian Pacific's international bridge. The concrete piers are closely spaced, and will be connected by steel shutters, etc., that will regulate the flow of the stream. This dam will be completed by the time the American canal is ready for water. Instantly the flow over the rapids will be greatly reduced. With the additional drain that will come with the second Canadian power canal, the flow over the old channels will be nearly dried up, and the historic Sault rapids will be a mere memory.

The company's railway projects east of

the Sault, in the Sudbury country are progressing, and there are now several pyro-tite miners there in preliminary operation for this concern.

These and other developments are progressing as fast as possible. It means a vast expenditure and an enormous machinery of organization. This organization reaches far beyond the limits of the Sault and the immediately surrounding region, and if it could be laid bare would present a magnificent example of heroic activity and foresight.

Mr. Clergue is not building for the immediate future, vast as that is, but for a very considerable period, and as time progresses and the foundations laid far down are built upon and come into view, the work now being carried forward will assume its true importance and its real connection with the scheme of Canada's advance and development.—Marine Record.

THE MINERALS OF ONTARIO.

Mr. Thomas W. Gibson, director of the Ontario Bureau of Mines, in his recently issued report covering the year 1900, gives an interesting table comparing the mineral output for the Province for the first three months of 1901 with that for the whole of 1900. The aggregate value of the output for the quarter was \$827,860, showing a large proportional increase as compared with the whole of the year 1900, for which time the yield of the same products was \$2,541,131.

	Three Mths. '01.	Twelve Mths. '00.
Gold—		
Ore treated, net tons	10,174	46,618
Gold product, oz.	3,150	18,767
Value of gold	\$54,520	\$297,861
Silver—		
Silver product, oz.	20,077	160,612
Value of silver	\$12,046	\$96,367
Nickel and Copper—		
Ore raised, net tons	72,036	218,693
Ore smelted, net tons	36,706	211,960
Matte product, net tons .	5,832	23,336
Nickel in matte, net tons	903	3,540
Copper in matte, net tons	840	3,364
Value of nickel	\$190,858	\$756,626
Value of copper	\$75,625	\$319,681
Iron ore, net tons	36,503	90,302
Value at mines	\$44,106	\$111,805
Pig Iron—		
Ontario ores, net tons ...	21,083	22,887
Foreign ores, net tons ...	27,580	77,804
Mill cinder, etc.	3,486	13,092
Pig iron, product	28,694	62,386
Value of pig iron	\$438,659	\$936,066
Arsenic, lbs.	236,054	606,000
Value	\$12,046	\$22,725

The largest increases are in iron ore and pig iron; nickel and copper remain at about the same level of production; arsenic shows a decided increase, while gold and silver have fallen off.

The quantity of iron ore smelted into pig iron during the quarter at the three furnaces in Ontario, all of which are in steady operation, was 48,663 net tons, of which 21,083 tons were from Ontario mines and 27,580 tons were imported ore. The proportion of native ore smelted during the quarter rose to forty-three per cent. of the whole, as against twenty-three per cent. in 1900. In addition to



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