

either side. The ore yields an average from \$17 to \$20 per ton.

The ore of the Gillen Mine yielded to assay \$133.28 per ton. But little work has as yet been done.

The Gatling Mine is, perhaps, the most important. Three shafts have been sunk, two being about seventy feet deep, houses for workmen built, and crushers and roasting furnace erected. The ore yields about \$30 per ton.

In the Severn, Hawk Eye and Neill Mines little has been done. In the Powell Mine a stamp mill has been erected and a shaft sent to a depth of fifty feet.

SILVER.

The quantity of ore produced at Silver Islet during 1872, up to the close of navigation, was 350 tons, yielding silver to the value of \$469,038.20, or \$1,340 per ton; making the total product of the mine from its opening \$1,232,438.79. The depth of the Silver Islet shaft was 256 feet in August, 1873.

I have received no intelligence from any of the other silver mines in the neighborhood of Thunder Bay.

COPPER.

The Wellington and Associated Mines worked by the West Canada Mining Company, produced, during 1872, 1214 tons of 19 per cent. ore, besides copper precipitate of 64 per cent. to the amount of 243 tons. Part of the precipitate was smelted, giving ingot copper of very excellent quality.

At the Harvey Hill Mines, the drifts and stopes having been carried to a great distance from the main shaft, the new superintendent directed the sinking of new shafts on the run of the beds and lodes, not only for the cheaper working of the mine, but for its better ventilation also. Work on the old drifts was, therefore, almost suspended during the past year, but the future results of the new plan of operations must be a product much greater than that of former times.

The Huntington mine has two veins about 42 feet apart, on one of which the engine shaft is sunk to a depth of sixty fathoms, the main shaft on the other vein being thirty fathoms, besides which there are three other shafts, as well as cross-cuts from vein to vein at the 10, 20, 30, 40 and 50 fathom levels. The extent of levels on the veins is 348 fathoms, and cross-cuts 76 fathoms. During the past twelve months the mine has produced 3,072 tons of ore estimated at 84 per cent., and a large quantity of lower quality. The present monthly out-put is 300 tons of 84 per cent. and 150 lower grade. The extracting works (Henderson process) are almost complete, and will utilize all other ingredients of the ore as well as the copper. The mine is in full work, employing 110 hands.

IRON.

The Marmora Mines produced during the past year 27,000 tons of ore. The Hull Mines have shipped some 15,000 tons, worth, at the mine, \$67,500. The other iron mines at work are the Chaffey, Yankee, Dalhousie, Bygrove, Fournier and Foley Mines. The Chaffey Mine produced in 1871 about 3,500 tons of ore, the Yankee 4,000, the Dalhousie 10,000.

PETROLEUM.

The exports of Petroleum in 1872 were 7,897,054 gallons, worth \$1,341,099, against 5,753,678 gallons in 1871, worth \$1,052,579.

APATITE.

The deposits of Apatite, or Phosphate of Lime, occurring in the Township of North Burgess, Bedford, and South Crosby, are of great importance. From his location in North Burgess Mr. Schultze has mined over nine hundred tons, worth \$10.50 per ton, most of which he shipped to Germany. In the same township are the locations of Messrs. Ritchie & Jackson, of Belfast, Ireland, and of Roderick Matheson, Esq., of Perth, besides those of Messrs. Watt, Cowan, Baker & Clark. The mineral occurs in veins of from three to nine feet in width, is easily worked, and many of the deposits lie very conveniently for shipment. The Apatite is frequently associated with mica in large crystals, which will, no doubt, be of value. The location of Alex. Cowan, Esq., is worked by the Brockville Chemical & Superphosphate Company, and produced up to April, 1871, over 800 tons. The product of this mine is sent to the Brockville Superphosphate Works, and thence exported, as superphosphate, to the United States and Europe.

At Mr. Cowan's location in Bedford there had been raised, up to autumn, 1871, about five hundred and fifty tons of Apatite. The deposits here occur in beds of two, four, and in one case twenty feet in thickness.

PLUMBAGO.

The Buckingham Plumbago Mines have been inactive lately, but such will not probably continue to be the case. The deposits so far discovered consist of fourteen lodes, from which, with present appliances, a hundred tons a month can be easily raised, and this product can with little further outlay be increased to two or three hundred tons monthly. In addition to these lodes there is a quarry of disseminated ore, an eighth of a mile in length and about seventy feet in depth, yielding from 10 to 60 per cent. of Plumbago, from which 10,000 tons of ore can be raised annually. The estimated profits on the working of these deposits is £18,000 sterling per annum, or thirty per cent. on the entire capital of the company. This is supposing the output from the lodes and quarry to be only 1,000 tons of lump Plumbago and 10,000 tons of ore, whereas this quantity can be increased indefinitely, and will correspond with the amount of labour employed.

NOVA SCOTIA.

GOLD.

Though the return for the year 1872 show a decrease in the aggregate amount of gold, the number of men employed and of mines worked, owing to the scarcity of labor and other causes, the yield per ton of quartz and the average yield per man have increased, which should indicate improvement in the mode of treating the ore. The Local Legislation is such as seriously to interfere with the prosecution of mining enterprise, and to prevent the employment of foreign capital in the development of the mines of Nova Scotia.