

Stables; Powder House; and Blacksmith's Shop. Also a Derrick and other mining plant, tools, &c.; together with about 5,000 tons of raised ore, and 30 tramway cars.

6. *Proposed Furnace Treatment of the Ore*.—Although the Haycock ore might undoubtedly be shipped from the Gatineau, at remunerative prices, for furnace treatment in the United States, it is evident that a much larger profit would accrue from the reduction of the ore at home. In my earlier Report, it was shown that the cost of production of pig-metal per ton would be under \$20, according to the following general estimate:

Mining, hauling and breaking $1\frac{3}{4}$ tons of ore.....	\$3 00
Charcoal, 24 cwt., at 8c. the bushel of 18 lbs.....	12 00
Limestone, &c.....	0 15
Labor and furnace expenses.....	4 50

\$19 65

The cost, thus stated, has been confirmed by detailed estimates obtained more recently from furnace engineers of extensive practice in the States and elsewhere. In these estimates, the cost of production per ton, in reference to the Haycock ore, is placed at from \$19 to \$20; and there can be no reasonable doubt that, under proper management, it would fall within the latter sum. The value of the pig-metal, on the other hand, could not (in Canada,) as a general rule, be far short of \$50; and it could hardly fall below \$40 under any adverse circumstances that might arise. The metal would certainly rank with the best Lancashire or Bessemer brands if its furnace treatment were properly carried out. The storing place on the Gatineau is well situated for a furnace-site. The cost of putting up at this spot a 30-ton hot blast furnace, with all its necessary appointments, &c., in complete running order, according to trustworthy estimates, would be from \$128,000 to \$130,000. A cold-blast 10-ton furnace of the best modern construction would cost from \$45,000 to \$50,000 (£10,000), all complete.

General Summary and Conclusions.:—The statements given in this Report may be condensed, for convenient reference, into the following summary:

The Haycock Iron Property comprises, in one area, 300 acres of mineral and 100 acres of timber lands, connected, by a tramway of $6\frac{1}{4}$ miles in length, with a storage and furnace site of 10 acres on the River Gatineau.

The 300 acres of mineral lands are traversed in a general north-east and south-west direction by numerous bands of iron ore, favourably situated for mining, and for the greater part, if not entirely, of workable thickness—the beds at present opened widening rapidly on descending.

From surface to the moderate depth of 200 feet, these united beds, in the more central portion of the property alone, cannot carry less than from six to six-and-a-half millions of tons of ore, and they probably contain a much larger amount.