

BRISTOL MINES.

Following up the Ottawa River from the Hull mines there are several occurrences of iron ore, but we find little development until we come to Bristol. In this township, on the farm of Charles Ade and the adjoining farm, there are several good outcrops of ore, and the magnetic attraction is very strong over a considerable area. The relationship between the outcrops is somewhat complicated, and more work is needed to establish it clearly. About ten years ago two openings were made from which perhaps 3000 tons of material were taken. The ore-body, which occurs in a fine-grained hornblendic gneiss, at times very coarsely crystalline, is made up of tough black hornblendic rock, with very pure ore scattered through it. The ore is fine-grained and granular, and rich in iron. Much of it has a fine blue tarnish from exposure; it contains numerous seams and bunches of cupriferous iron pyrite, making it quite high in both sulphur and copper. It also contains considerable disseminated light-colored hornblende, and an occasional seam of calcite. This mine is at present too far from transportation to be worked profitably; but a projected railway will run within a short distance of it. The ore is of the following composition:*

Fe ₂ O ₃,	. . . . .	65.44
FeO,	. . . . .	14.50
FeS ₂,	. . . . .	2.74
MnO,	. . . . .	0.11
Al ₂ O ₃,	. . . . .	0.60
CaO,	3.90
MgO,	0.45
SiO ₂ ,	11.45
CO ₂ ,	1.64
P ₂ O ₅ ,	traces
TiO ₂ ,	none
H ₂ O,	0.14
		100.97
Fe,	58.37
S,	1.46

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LOCALITIES SOUTH OF THE OTTAWA RIVER.

Of these localities a division can be made into two classes; the openings which were made about ten years ago, and upon which

* 22d Rep. of Prog. Can. Geol. Sur., 1873-74, p. 208.