

in thickness of good ore. The ore is a red hematite, sometimes compact and laminated, but more frequently of an oolitic character, occasioned by the arrangement of the peroxide of iron in minute concretions enveloping grains of sand. It crops out on several anticlinal lines traversing the property, and along these different lines of outcrop the bed has been traced for several miles, and, being of a hard and resisting character, it rises into some of the higher elevations of the country. Though not one of the richest ores of the district, its great quantity and accessibility render it highly important for practical purposes. The analyses made of it show a per-centage of metal varying from 43 to 54 per cent. The foreign matter is principally Silica, and the proportions of Phosphorus and Sulphur are small—one of the specimens analyzed affording none whatever, another .22 Phosphoric Acid and .29 Sulphur.

(See annexed reports and Tables of Analyses.)

3.—SPECULAR IRON.

This deposit is a vein of rich Specular Iron Ore associated with Magnetic Iron, and running through slates and quartz rock. It is of great extent and value, and will afford a quality of Ore adapted for making the best kinds of wrought iron and steel. The vein in some parts of its course attains to a thickness of 20 ft., and has now been proved for more than a mile. Average samples taken from the thickest part of the vein yielded on an analysis 64 to 68 per cent. of metallic iron.

(See annexed reports and Tables of Analyses.)

4.—BROWN HEMATITE, OR LIMONITE.

This is a thick vein of Crystalline Brown Hematite or Limonite occurring at the Junction of the Carboniferous and Silurian Rocks. The ore is capable of affording 59 per cent. of metallic iron, and is free from all injurious impurities. It extends through the areas covered by one of the mining rights for about three-quarters of a mile, and appears to extend over a second area on which it has not yet been opened. As is usually the case with veins of this mineral, its thickness is variable; but, in two places where it has been opened, it has shown a thickness ranging from fifteen to twenty-five feet.