

ridge and a line nearly coinciding with the Monocacy and Pipe Creek constitutes a second metalliferous range.

*e. Brown Hematite of Carroll County.*

This ore exists in extensive deposits along the south-eastern portion of this last named range, extending from the Pennsylvania line along the western side of Westminster for several miles beyond, but its southern limits have not yet been explored.

Extensive openings have been made into these deposits, especially near Westminster, and also on the estate of Mr. Vanbibber, a few miles distant, where are the remains of a furnace in which these ores were smelted more than a century since.

The completion of the Western Maryland Railroad to Westminster renders these vast deposits of ore available either for furnaces to be erected in their vicinity, or for exports to other points. In its further extension, which is in progress, (notwithstanding the "bad times") this road will pass several miles through this ore region.

*f. Specular Oxide of Iron in Carroll and Frederick Counties.*

When pure, this ore contains 70 per cent. of iron, but it is always more or less mixed up with earthy matters. The richest ore of this kind in Maryland is in the eastern part of Frederick county, where it constitutes one of the minerals of the metalliferous district between the Monocacy and Parr's ridge. I have noticed pieces of very rich ore lying upon the surface south of Liberty and near New London, but I believe no attempts have been made to ascertain whether it can be had in available quantities.

The same may be said of the several localities of this kind of ore in the same range to the Pennsylvania line.

It is a valuable ore, and would constitute an important addition to our industrial resources if further explorations should develop it in large quantity.

Specular iron occurs also in the Catoctin Mountain in numerous places, but, so far, it has not been found in sufficient abundance to encourage mining.

*g. Brown Hematite along the Eastern Slope of the Catoctin Mountain.*

The ores of this range have been worked nearly eighty years, principally for the use of the Catoctin furnaces, about twelve miles north-west of Frederick. These works are now efficiently carried on by the Messrs. Kunkle. The numerous openings in the