

or two of the coals have also been, to a certain extent, successfully used in iron-smelting and founding. I am not at present able to furnish any exact data concerning the success with which they are used in rolling-mills etc., and no iron-smelting is at present carried on at any point near the Pictou district; but I am aware that in the Eastern United States, the coals are used in various forges and rolling, mills, with very good success, and I am assured by Mr. E. A. Jones, Manager of the Acadian Iron Works at Londonderry, Nova Scotia, that he has used Albion Mines coke in iron-smelting, and finds it better suited to this work than any other Provincial coal he has used.

For domestic purposes these coals are well and favourably known; they light easily in the grate and burn well and long with very little attention, except in the few cases where the content of ash is very large.

### III.

#### IRON ORES OF PICTOU COUNTY.

Localities of  
iron ore.

A number of localities are known in the vicinity of the Pictou coal-field, where ores of iron have been found. None of these have ever been developed to any extent; and the few trial-pits upon the deposits, afford very unsatisfactory evidence as to their size and value. The ores of iron which have been recognized in this vicinity are; specular iron, limonite or brown hematite, and spathose ores (crystalline carbonates of iron); besides the clay-ironstone, or argillaceous carbonate of iron of the coal measures.

In the following paragraphs, mention is made of those localities only which I have personally examined, though a large number of others exist, of greater or less value. My field-work in this district was confined to the productive coal-field, except in the few cases where examinations beyond its boundaries were made at special request. The samples analysed, where no statements to the contrary are made, were taken by myself from the deposits, and are believed to be the averages of the ores. The analyses have been made in the laboratory of this Survey, by Mr. Broome.

#### SPECULAR IRON.

Specular iron

Several deposits of specular iron were examined; these all occurred in a range of metamorphic rocks lying ten or twelve miles to the south of the coal field. The ore of the variety known as micaceous iron ore, was noted at Battery Hill, near Glengarry station, and proceeding east from this point at a number of localities near the line of the Provincial Railway, the range of rocks including it finally crossing this railway and the East River of Pictou, several miles above Springville. Of the age of this for-