

In the sandstones of the Coal formation, which occupy that part of the county of Pictou, lying to the northward of the great Fault above mentioned, there are two small beds of coal, one of them three feet in thickness, but of inferior quality. They appear at Fraser's Mountain, distant N. E. from New Glasgow, about 2 miles, and extend thence to Merigomish Harbour. One of them reappears on the North side of the trough near Carriboo and in Pictou Island.

The Coal measures of Salmon River, in the county of Colchester, are equivalent to those of the Albion Mines in geological position, and belonging to the southern side of the central trough. Only one bed of coal one foot thick, and of inferior quality, has been discovered at Salmon River; but others most likely exist there.

The Coal measures of the Joggins, Macan River, Cape Chignecto, and other parts of the County of Cumberland, belong to the third or Northern trough of carboniferous strata. (Vide Gesner's statement.)

Iron Ores.

Numerous beds of *Clay Ironstone*, from 2 inches to 6 feet in thickness, exist in the Coal measures of the Albion Mines. Some of them are above the average richness of the clay Ironstones of Great Britain, and of sufficient thickness to be worked.

Brown Hematite, containing nearly 50 per cent. of iron, is found in veins in the lower coal formation, near its junction with the Silurian rocks (see section). The number and thickness of these veins are unknown; but from the large quantity of ore found on the surface, must be considerable.

Veins, similar in character and geological position to those of the East River, occur at the mouth of the Shubenacadie River; but the ore which they contain is less pure.

In the veins of Hematite, both in Pictou and near the Shubenacadie, Peroxide of Manganese is abundant, and might be profitably separated from the ores of iron.

Ten miles south-eastward of the Albion Mines, is a bed of Peroxide of Iron eighteen feet in thickness. The ore which it contains would yield nearly forty per cent. of good iron. Some of it was melted at the Albion Mines, but probably from errors in the process employed, yielded iron which would not run.

Sulphate of Barytes.

A vein of this mineral, three feet in thickness, has been found at Rogers' Hill, eight miles westward of the