

and if I could prove at the same time their connexion with seams of coal, it would go farther than any facts yet recorded to confirm the theory that coal in general is derived from vegetables produced on the spots where the carbonaceous matter is now stored up in the earth.

At Wolfville I hired a schooner, which soon carried us across the Basin of Mines to Parrsborough. We had a side wind, and the deck was inclined at about an angle of  $45^{\circ}$ , in spite of which we admired a splendid view of the coast, and the range of basaltic rocks which extend from Cape Blomidon to Cape Split. At Parrsborough I was joined by Dr. Gesner, who had come expressly from New Brunswick to meet me; and we went together to Minudie, a thriving village, where we were hospitably received by the chief proprietor and owner of the land, and of many of those fertile flats of red mud before described, which he has redeemed from the sea.

From Minudie, a range of perpendicular cliffs extends in a south-westerly direction along the southern shore of what is commonly called the Chignecto Channel. The general dip of the beds is southerly, and the lowest strata near Minudie consist of beds of red sandstone, with some limestone and gypsum, *a, b, fig. 18*. The section is then very obscure for about three miles, or from *b* to *c*, the rocks consisting chiefly of red sandstone and red marl, after which, at *c*, blue grits are seen, inclined to the S.S.W. at an angle of  $27^{\circ}$ , affording an excellent grindstone, and attaining a thickness of forty-four feet. These beds are succeeded to the south by a vast series of newer and conformable strata, all dipping the same way,