

Plate V, accompanying this paper, represents the basaltic structure as seen at Israel Cove, near the southern end of Petite Passage.

Some fine basaltic scenery, of which a sketch is given in "Acadian Geology," is also to be seen on Briar Island, near Westport, but in general the land here is lower and the features less bold than about the Petite Passage.

That so prominent a ridge as that of Digby Neck should have been greatly affected by the conditions incidental to the glacial period, would naturally be expected. These are, however, shown rather in the evidences of enormous denudation than in the production of new deposits. Portions of the ridge are, it is true, somewhat deeply buried in boulder clay; and boulders (including in a few instances granitic and felsitic blocks which must have come from the other side of the Bay of Fundy) are scattered over all parts of its surface; but the occurrence in great profusion of the characteristic rocks of the peninsula along the southern side of St. Mary's Bay, and, though less abundantly, over Yarmouth and Shelburne Counties, even to the Atlantic seaboard, gives forcible illustration of the extent to which the substance of the peninsula has been removed.

The fact also that the transverse valleys of Sandy Cove, Petite Passage and Grand Passage, as well as others less conspicuous, are oblique to the peninsula and almost exactly parallel to each other, while their course corresponds with that of the glacial striation of the district, goes far to favor the view that they owe their origin, partly if not wholly, as has been suggested in the case of Digby Gut, to the excavating action of glacial streams. The occurrence of striations on the surface of the basaltic columns in Israel Cove, and within a few feet of the surface of the water, gives further probability to this view.

MINERALS.

The minerals of Digby Neck are the same as those found in other parts of the North Mountain Range, but are less abundant and less varied than in the section of the latter which lies east of Digby Gut.