

corresponds to what in Scotland is known as the "Crag and Tail." The rock, like that at Curries Mountain, is a dolerite or diabase, but is more coarsely amygdaloidal, containing not unfrequently considerable cavities lined with quartz crystals, or of calcite encrusted with quartz. This overflow may have been connected with that of Curries Mountain, but the connection, if existing, is now obscured by the overlying rocks of the Coal Measures which occupy all the intervening area. Other localities for these volcanic outbursts are: the Miramichi river, about six miles above Boiestown, where again they form conspicuous bluffs; the vicinity of Harvey Station where they include the eminence of Cranberry Hill, at the base of which passes the main line of the Canadian Pacific Railway, as well as Bald Mountain a few miles to the east; the west shore of the St. John river, near Long Island, in Queens County, where they spread over a large area and are associated with beds of limestone which by the heat accompanying their ejection have been converted into marbles; and yet again about the Emigrant Settlement north of Grand Lake in the same county;—in each of these instances exhibiting the same relations to the red and grey rocks, respectively, beneath and above them, as are seen near Fredericton, and hence showing they all belong to the same great period of volcanic activity. The red beds and associated limestones contain in many places corals and other forms of marine life, showing the presence of the sea at the time of their formation; the grey beds on the other hand hold only the trunks and roots of trees and ferns, indicating their origin about fresh water streams and lakes.

HISTORY.—From the above data it is easy to summarize the probable history of Curries Mountain.

In the Lower Carboniferous period, antedating our own by some millions of years, the sea covered a large part of New Brunswick, including not only the great central triangular basin now occupied by large portions of York, Queens, Sunbury, Northumberland and Gloucester counties, but also a considerable