A cut at Vass station, an exposure near the post-office at Lake View, and several cuts between Lake View and Niagara station reveal Lafayette materials occupying positions with reference to the underlying Patuxent beds similar to that shown in the figure to which reference has just been made. In places the contact is seen to be very irregular, as is true in the cut represented in the Fig. 9, p. 109 of this report. (See, also, Plate XV, opposite p. 264.)

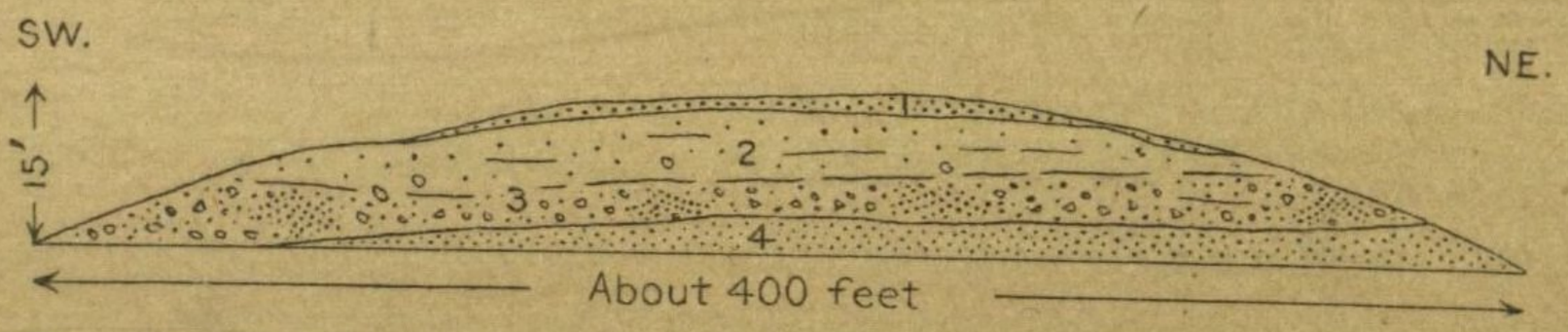

FIG. 16.—Sketch showing the relation of the Patuxent formation to the Lafayette formation; cut of Seaboard Air Line Railway, milepost 58, Moore County, N. C.

EXPLANATION OF FIGURE.

Lafayette formation:

1. Coarse, loose, gray sand.
2. Coarse mottled argillaceous sand with sandy clay lenses and scattered lenses of pebbles. Grades down into next layer.
3. Gravel layer 4 to 6 feet thick, consisting of moderately rounded to angular pebbles up to several inches in diameter with a coarse, yellow sand matrix cross-bedded in places.

Patuxent formation:

4. Stratified, gray, coarse, arkosic sand, streaked with yellow.

Gravel deposits, probably to be classed with the Lafayette formation, are present capping some of the hills in the vicinity of Pinehurst in Moore County, but these have not received careful study.

A long cut of the Seaboard Air Line Railway just north of Hamlet in Richmond County exhibits clearly the relations of the Lafayette beds to the underlying Patuxent formation. The following section describes with approximate accuracy the character of the materials revealed in any part of the cut, except that the two Lafayette layers vary considerably in thickness horizontally, and at certain places the Patuxent-Lafayette contact is somewhat obscured by weathering.

CUT OF SEABOARD AIR LINE RAILWAY JUST NORTH OF HAMLET, N. C.

	FEET.
Pliocene? (Lafayette formation):	
Coarse, loose, pebbly sand, gray at top, becoming a dull yellow towards base. Merges with the underlying red sand and gravel layer towards the north end.....	2-5
Red and mottled, coarse, argillaceous, more or less pebbly sand, with a partially discontinuous band of pebbles and cobbles along base. Iron crusts present along contact in places. The pebbles and cobbles are of all sizes up to 4 or 5 inches and vary in shape from angular to moderately well rounded.....	1-8

(Unconformity.)