

Patuxent beds essentially the same as those described in the section on Cape Fear River at the mouth of Little River (see p. 89) are exposed along the banks of Little River at Manchester and for 1 mile below the railroad bridge to the first wagon bridge. Observations were not carried down the river beyond this point. The best section observed, exposing about 30 feet of strata, was on the left bank about $\frac{1}{2}$ mile below the railroad bridge. The materials consist of compact, in places slightly indurated, arkosic, micaceous sands and sandy clays, more or less mottled with red or purple iron stain.

Exposures of the formation occur in cuts of the Seaboard Air Line Railway in southeastern Moore County, beginning near Crane Creek bridge, where they rest upon basement rocks and extending southwestward. They are here overlain with a marked unconformity by discontinuous patches of surficial Lafayette sands. The unconformable relations of the Patuxent and Lafayette formations are clearly exhibited in a cut $1\frac{1}{3}$ miles southwest of the station at Lakeview, N. C. These relations are represented graphically in the following sketch, Fig. 9 (see, also, Plate XV, B, opposite p. 264):

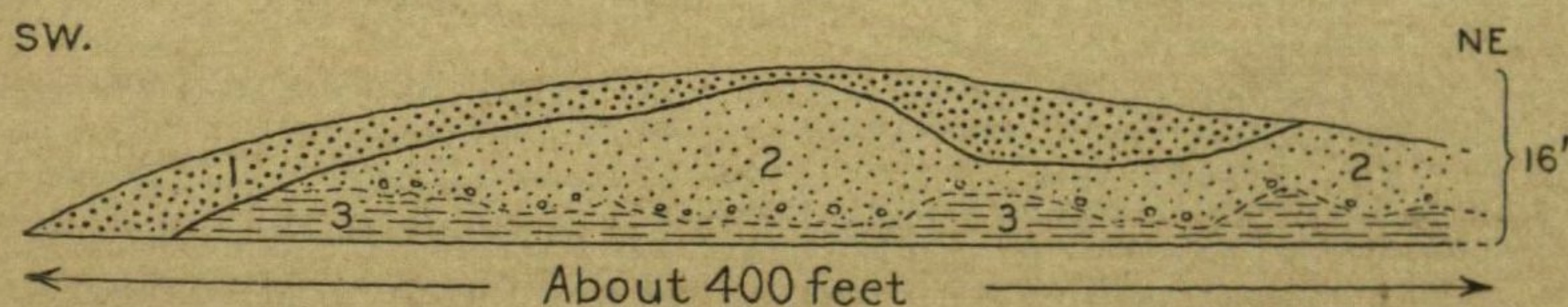


FIG. 9.—Sketch showing relation of the Patuxent formation to the Lafayette formation; cut of Seaboard Air Line Railway $1\frac{1}{3}$ miles southwest of Lakeview, N. C.

EXPLANATION OF SKETCH.

Lafayette formation:

1. Coarse, yellow, pebbly sand.

(Unconformity.)

Patuxent formation:

2. Partially indurated, medium to coarse, light gray, arkosic, micaceous sand, with a few small, angular pebbles along base.

(Local unconformity.)

3. Compact, coarsely arenaceous clay, dark drab to chocolate colored, with pink mottling, locally indurated to form a claystone.

In Richmond County, in the vicinity of Hamlet, good exposures occur in cuts of the S. A. L. Railway northwestward toward Rockingham for 2 miles, southeastward towards Old Hundred for 3 miles, south-southeastward at several places on the Gibson Branch, and southwestward on the main line at a number of places between Hamlet and Cheraw, S. C. The materials of the Patuxent formation in this