are of Pleistocene age. Specimens of *Exogyra costata* Say were obtained at Goff Landing, and, near Sparkleberry Landing, 39¾ miles above Wilmington, specimens of *Exogyra costata* Say and *Exogyra costata* var. *cancellata* Stephenson were obtained.

The banks of Northeast Cape Fear River exhibit the Peedee formation from Deep Bottom Bridge, 75 miles above Wilmington, where it is overlain unconformably by supposed Eocene beds, at numerous places to a point about 44 miles above Wilmington, and at Hilton Park, Wilmington. After the first exposure seen in descending the river where only a few feet of Peedee strata appear at the base of a 40-foot section made up principally of Eocene (?) beds, the occurrences are all low, not exceeding 10 or 15 feet, the overlying materials constituting Pleistocene terrace deposits. Between the last point mentioned and Wilmington the Peedee beds were not observed above water level, being transgressed for a part if not all the distance by Eocene deposits. At Hilton Park, Wilmington, however, the Cretaceous again appears, overlain at this particular place by Pleistocene terrace deposits. Beyond this point the formation passes finally beneath the Eocene, having been detected only in well borings at points nearer the coast. (See sketch map of Northeast Cape Fear River, Fig. 14, p. 152.)

With one or two exceptions the observations on Northeast Cape Fear River were made at a time when the water was 6 or 8 feet higher than the normal stage. Peedee beds were first observed in descending the stream near Deep Bottom Bridge, about 75 miles above Wilmington. The river here swings against a bluff 25 to 40 feet in height, along whose base it continues for about ⅜ of a mile to a point ⅛ mile below Deep Bottom Bridge. The face of the bluff is partially free from vegetation at several places, but the best section is at the lower end of the bluff, where it is exposed from top to bottom. The section in detail is as follows:

SECTION BELOW DEEP BOTTOM BRIDGE, LEFT BANK.

	Feet.
Pleistocene:	
Yellowish loam, grading down into light drab, sandy clay, mottled with pink and red	10
Eocene?	
Alternating sand and clay layers with a pebble band at base	29
(Unconformity.)	
Cretaceous (Peedee sand):	
Dark green, coarse, glauconitic, micaceous sand with many small white pebbles as large as peas, containing *Pecten* (?), a few small sharks' teeth and numerous individuals of *Ostrea subspatulata* Forbes in a thin layer (U. S. G. S. Loc. No. 4134). This layer first appears above the water's edge a few rods above where the section was taken and gradually rises to a height of 4 or 5 feet a few rods below	1½