

Miocene (Duplin) :

	FEET.
White to yellowish shell marl consisting of entire and broken shells in a matrix of sandy clay.....	2-6
Compact fossiliferous limestone, containing many casts of Molluscan fossils. Casts of <i>Crepidula</i> are especially abundant in the upper part, while in the lower portion of the limestone <i>Pecten mortoni</i> occurs. Other forms are also present.....	1-6
Yellowish-brown calcareous sand, containing many irregular nodules of calcium phosphate, some of which are several inches in diameter. Some of the phosphatic pebbles seem to be worn casts of Cretaceous <i>Mollusca</i> . This layer seems to form a basal conglomerate in the Miocene.....	½-1
Dark gray micaceous sand extending to water's edge.....	2

The loose shell marl and the underlying fossiliferous limestone seem to be almost identical, in general character, with deposits which form the upper part of the Miocene in South Carolina and well exposed along the Peedee River in the vicinity of Bostick. There is no doubt but that they represent the same horizon.

At Elizabethtown on the Cape Fear River the Pleistocene rests directly upon the Cretaceous, but a short distance to the south of town the Miocene marls appear between the two. One poor exposure occurs along the main road, 1½ miles south of Elizabethtown on the south slope of the valley of Brown's Creek. A better exposure occurs 4 miles south of Elizabethtown at Hammonds Creek. Here there is an outcrop of Miocene marls about 20 feet in thickness. The section exposed is as follows:

Miocene (Duplin) :

	FEET.
Shell bed composed almost entirely of shells in a matrix of fragmentary material, <i>Mulinia congesta</i> being especially abundant..	5
Bluish drab clay containing many pockets of fine white sand.....	1
Sandy clay and sands poorly exposed.....	6-10
Shell bed in which a narrow species of <i>Ostrea</i> is present in large numbers, poorly exposed.....	1-5

In the same vicinity the marl bed is covered with Pleistocene.

Four Miles South of Clarkton, on Brick Yard Branch.—Marl has been reported to occur in this region extending as far as Whiteville in a number of different places. The marl has been dug extensively, though not within the past few years.

Four Miles North of Lumberton, on the Lumberton and Fayetteville Road.—Marl has been dug at this place in the past, though none of it is exposed at the present time.