

was made the conglomerate was observed down almost to the water's edge, and still farther down the stream, 100 yards or more, the Peedee beds again rise some 7 or 8 feet above the water. The Eocene thus appears to occupy a basin-like depression in the undulating surface of the Cretaceous.

The bluffs of Contentnea Creek expose Peedee beds at a number of places from a point about $6\frac{1}{2}$ miles below Snow Hill, Greene County, to Grifton in Pitt County. The occurrences are all low, the thickness of the beds exposed above water level nowhere amounting to more than 12 or 15 feet. Pleistocene terrace deposits form the overlying materials, except at two places, where Miocene sands were observed resting upon the Cretaceous beds. A detailed account of the Contentnea Creek exposures is given below. (See sketch map of Contentnea Creek, Fig. 4, p. 96.)

About $24\frac{1}{2}$ miles above the mouth of Contentnea Creek, right bank, Peedee greensand appears to a height of 10 feet above water level in a 25-foot bluff, the upper 15 feet of which is Pleistocene. A layer of lime concretions occurs near the base. A mile below this, $23\frac{1}{2}$ miles above the mouth of the stream, the following section was made:

SECTION AT $23\frac{1}{2}$ MILES ABOVE THE MOUTH OF CONTENTNEA CREEK,
RIGHT BANK.

Pleistocene:	FEET.
Sand with thin gravel band at base.....	12
(Unconformity.)	
Miocene (?) :	
Light gray, loose, stratified sand, stained yellow in places with iron, and in places slightly glauconitic.....	20
Cretaceous (Peedee sand) :	
Dark green, glauconitic sand.....	3

Between here and the bridge at Hookerton there are a number of low exposures of Peedee greensand. A short distance below this bridge the greensand is overlain by 12 feet of light colored, stratified sand, similar to the supposed Miocene sands described in the preceding section. At several points below this low exposures of greensand were observed, and at milepost 20, right bank, the greensand rises about 12 feet above the water. At the base of this latter section the following forms were collected:

U. S. G. S. LOCALITY No. 4148.

<i>Nucula</i> n. sp. (aff. <i>N. percrassa</i> Conrad).	<i>Trigonia</i> (probably a new species).
<i>Ostrea</i> sp.	<i>Anomia argentaria</i> Morton.
<i>Ostrea plumosa</i> Morton.	<i>Cardium</i> sp.
	Bone fragment.