

Below the steamboat landing at Kinston, Peedee greensand rises several feet above the water on the left bank, and at the next bend below similar materials may be seen at low water for some distance along the right bank.

From the wagon bridge above milepost 48 to the Norfolk Southern Railroad bridge below milepost 47 there are almost continuous exposures of compact greensand along the right banks of the stream, rising in places 8 or 10 feet above the water, the undulating surface being everywhere overlain by a surficial covering of Pleistocene terrace deposits. At the latter bridge *Exogyra costata* Say and *Anomia* were collected. (U. S. G. S. Locality No. 4132.)

A low exposure of greensand was seen at $45\frac{1}{2}$ miles above New Bern. At $44\frac{3}{4}$ miles an exposed thickness of 7 or 8 feet of Peedee greensand is overlain by 2 feet of shaly clay with a pebble band at base probably of Eocene age.

The last exposure of marine Cretaceous observed in descending the river was at a ferry $34\frac{2}{3}$ miles above New Bern, or $3\frac{1}{3}$ miles above the mouth of Contentnea Creek. The strata are not well revealed, the examination being made in the ditch along the side of the road leading down to the ferry. The section obtained is as follows:

SECTION AT FERRY $34\frac{2}{3}$ MILES ABOVE NEW BERN, RIGHT BANK.	
<i>Pleistocene:</i>	FEET.
Sand and loam poorly exposed.....	15
<i>Eocene:</i>	
Thin-bedded shale with conglomerate band at base.....	7
(Unconformity.)	
<i>Cretaceous</i> (Peedee sand) :	
Dark green, very compact, arenaceous, glauconitic, micaceous clay, containing numerous shells and casts.....	11
Concealed to water's edge.....	3

The fossils listed below were collected from the greensand.

U. S. G. S. LOCALITY Nos. 4169 AND 4137.

<i>Hemiaster</i> sp.	<i>Exogyra costata</i> Say.
Bryozoa.	<i>Pecten simplicius</i> Conrad.
<i>Serpula</i> sp.	<i>Lima</i> sp.
<i>Nucula</i> sp.	<i>Anomia argentaria</i> Morton.
<i>Cucullaea</i> sp.	<i>Turritella vertebroides</i> Morton.
<i>Ostrea tecticosta</i> Gabb.	<i>Belemnitella americana</i> Morton.
<i>Ostrea plumosa</i> Morton.	Crab claws.

That a very marked unconformity exists between the Cretaceous and Eocene is shown by the fact that a few rods below where the section