

SECTION OF WELL AT ST. HELENA, 2½ MILES SOUTH OF BURGAW,
PENDER COUNTY.*Pleistocene:*

	FEET.
Gray clay	0-10
Marl, consisting of chunks of dark gray, calcareous, sandy clay, coarse sand and gravel with pebbles up to ½ inch in diameter and fragments of fossils, <i>Ostrea</i> , <i>Echinoid</i> spines, etc.....	10-20

Miocene (Duplin) :

Yellow marl, consisting of coarse sand and gravel with pebbles up to ¼ inch in diameter, pieces of yellow limestone rock, phosphate pebbles up to ¼ inch in diameter, chunks of gray clay, and many fragments of fossils, <i>Venericardia</i> , other <i>Pelecypods</i> , <i>Gastropods</i> , <i>Echinoid</i> spines, etc.....	20-30
Fine, dark greenish-gray micaceous, calcareous, glauconitic sand with scattered fragments of fossils.....	30-40
Fine, gray glauconitic sand with phosphate pebbles up to ½ inch in diameter, and many shells and fragments of shells, <i>Arca</i> , <i>Venericardia</i> , <i>Spisula</i> (?), <i>Balanus</i> , <i>Ostrea</i> , <i>Bryozoa</i> , <i>Glycymeris</i> , etc.	40-60

Cretaceous (Peedee) :

Dark gray, finely micaceous, glauconitic sand and sandy clay.....	60-70
Total depth	220

At Bolton in a well section the Miocene, consisting of light gray, coarse-grained sand with shell fragments, is 10 feet thick and was encountered at 40 feet from the surface. It is overlain by Pleistocene and underlain by Peedee. Three-fourths of a mile southwest of Freeman, Tertiary (Pliocene (?) and Miocene) strata were encountered at depth of 15 feet and apparently extended to 146 feet.

In a well ½ mile east of Robeson, Miocene extends from 30 feet to 40 feet—coarse sand and gravel with shell fragments. It contains the following fossils:

GASTROPODA :

Tornatina canaliculata Say.*Corbula inaequalis* Say.*Crassatellites* sp.

PELECYPODA :

Arca sp.*Glycymeris subovata* Say.*Ostrea* sp.*Asaphis centenaria* Conrad.*Pecten eboreus* Conrad.*Astarte concentrica* Conrad.*Venericardia* sp.*Cardium sublineatum* Conrad.

Along the northern shore of Lake Waccamaw the Miocene is exposed continuously for about a mile, extending from the pumping station eastward. About ¼ mile east of the pumping station of the A. C. L. Railroad the following section is exposed:

Pleistocene:

	FEET.
Pink and yellow loamy sand or clay.....	10-15