

<i>Miocene:</i>	FEET.
Greenish gravelly sand.....	1-3
(<i>Unconformity.</i>)	

Cretaceous (Patuxent formation) :

Light gray, coarse, compact, argillaceous, very arkosic sand....	1-3
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For the next few miles to within $\frac{1}{2}$ mile of Hemmed Island there are numerous low exposures in places showing only the compact arkosic sands or drab clays of the Patuxent formation overlain by 10 or 12 feet of Pleistocene, at other places showing only the Miocene in a similar relation to the Pleistocene, and at still other places showing a few feet of the Miocene resting on the undulating surface of the Patuxent and overlain by the Pleistocene.

The next place at which Patuxent strata were observed was at a point about 2 miles below the A. C. L. (Norfolk branch) Railroad bridge, where 4 feet of very compact, laminated, drab clay and gray sand is exposed above medium low-water level.

At Shiloh Mills, left bank, Parmele quadrangle, $2\frac{1}{2}$ miles above Tarboro, Miocene shell marl rests directly upon the undulating surface of the Patuxent, the latter varying in height within the limits of the exposure from $3\frac{1}{2}$ to 5 feet above medium low-water stage. The Patuxent materials consist of greenish gray, sandy, very micaceous, very compact clay.

Between Shiloh Mills and Tarboro, Tarboro quadrangle, the Patuxent beds appear in a number of low exposures not exceeding 8 feet in height, consisting of characteristic arkosic, micaceous sands and drab clays. In places the sand is cross-bedded, though everywhere compact, and at one place a large flattened log and other small pieces and particles of lignite were observed.

Similar occurrences continue at occasional intervals below Tarboro. In a few places shell marl or a pebbly conglomerate with a matrix of greenish sand belonging to the Miocene were seen occupying shallow basin-like depressions in the surface of the Patuxent beds, and overlain by 8 to 10 feet of Pleistocene terrace deposit. In some of the better sections the Patuxent beds assume a banded appearance due to the alternating strata of sand and clay, in this respect resembling sections of the same formation exposed along Cape Fear River. The best and highest section of this kind on the Tar River occurs a short distance below Penny Hill, Tarboro quadrangle, as follows: