

<i>Cretaceous</i> (Patuxent formation) :	FEET.
Very compact, light gray, micaceous, arkosic sand.....	15

Between this locality and Ruffins Bridge on the same quadrangle the Patuxent materials are revealed in low exposures not exceeding 6 or 7 feet, on the cove side of many of the bends. They are everywhere characterized by their compact, partially indurated condition, and consist of light gray, micaceous, arkosic sands, or drab micaceous clays. A log of lignite 8 inches in diameter was observed in the materials at one place. The beds are in most places overlain by 6 to 10 feet of loam and sand with a band of gravel at base, as a rule containing boulders of crystalline rocks and small pieces of silicified wood, which constitute Pleistocene terrace deposits.

One-half mile above Speights Bridge, Wilson quadrangle, the following observations were made:

SECTION $\frac{1}{2}$ MILE ABOVE SPEIGHTS BRIDGE, LEFT BANK.

Concealed by vegetation.....	FEET. 12
<i>Pleistocene</i> :	
Mostly concealed, but consisting partly of sand with a band of gravel at base.....	12-15
(Unconformity.)	
<i>Miocene</i> :	
Sand and clay.....	9
(Unconformity.)	
<i>Cretaceous</i> (Patuxent formation) :	
Very compact drab, sandy, micaceous clay.....	4
Very compact gray, micaceous, argillaceous, arkosic sand.....	6

A bluff at Speights Bridge exposes only Miocene strata, the Patuxent surface being below water-level.

In the next $1\frac{1}{2}$ miles Patuxent beds were seen at several places rising 4 or 5 feet.

About 2 miles below Speights Bridge, right bank, Wilson quadrangle, in a distance of several hundred yards the surface of the Patuxent beds rises and falls 4 or 5 feet above and below water-level, being overlain unconformably by dark drab to black laminated clays with partings of fine micaceous sand, containing much lignite in small pieces and comminuted vegetable remains. The laminated beds belong to the Black Creek ("Bladen") formation. For the next few miles, to within 1 mile of Fools Bridge (Contentnea P. O.), Falkland quadrangle, the Patuxent beds, consisting of the usual compact light drab