

* *Artesian Prospects.*—The Eocene beds and the underlying Peedee beds are the only artesian water horizons which have thus far been explored by deep drilling. In neither is the head sufficient to produce flowing wells, except possibly in the very lowest places along the streams. The water, however, always rises within reach of suction pumps. In the southeastern part of the county wells drilled through the Eocene beds into the underlying Peedee beds, which in this region must be several hundred feet beneath the surface, would, it is believed, encounter salty water.

In the central and western parts of the county deeper drilling to depths of 400 or 500 feet or more would probably reach horizons in the Black Creek formation which would yield abundant supplies of potable water, although the water might prove to be brackish.

COUNTY.

Yield per minute.		How obtained at surface.	Use.	Geologic horizon and character of water-beds.	Remarks.
Flow— gallons.	Pump— gallons.				
-----	-----	hand pump.	domestic.	Trent formation; rock.	Other horizons at 40 and 60 ft.
-----	-----	pitcher pump. flows.	domestic.	Trent formation; sand.	
-----	-----			Peedee formation?	
-----	-----	force pump.	domestic.	Trent formation.	
-----	-----	hand pump.	domestic.	Trent formation.	
-----	-----	hand pump.	domestic.	Trent formation.	Entered Eocene rock at 18 ft.
-----	-----			Trent formation.	
-----	-----	hand pump.	domestic.	Trent formation.	Entered Eocene rock at 30 ft.
-----	-----	hand pump.	domestic.	Trent formation; sand.	Other horizons at 25 and 32 ft.
-----	-----	hand pump.	domestic.	Trent formation; sand.	Other horizons at 22 and 30 ft.
-----	-----	hand pump.	domestic.	Trent formation; sand.	Entered Eocene rock at 23½ ft.
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Geology.—With the exception of a small area in the northwest, the entire county is underlain by the Peedee formation, which here consists of dark greenish or grayish, glauconitic sands and clays, with occasional indurated layers. The Peedee formation is underlain conformably by the Black Creek formation, which appears above water level in a small area in the northwestern part of the county. Miocene sands and clays are probably present in the northeast, resting unconformably upon the Peedee beds. A thin covering of Pleistocene sandy clays, sands, and gravels belonging to the Sunderland, Wicomico, and Chowan formations overlies all earlier formations.

Water Resources.—An abundant supply of water is obtainable by means of shallow open and driven wells in the lower sandy water-