

COUNTY.

Yield per minute.		How obtained at surface.	Use.	Geologic horizon and character of water-beds	Remarks.
Flow— gallons.	Pump— gallons.				
2½	-----	flows.	not used.	Peedee formation; sand.	Salty water obtained at 365 ft.; flow of salty water at 719 ft. Length and size of casing: 90'-12"; 250'-10"; 719'-8"; 800'-6".
-----	-----	-----	abandoned.	Eocene.	
-----	-----	-----	not used.	Cretaceous.	Basement rock struck at 1,540 ft.; strong flow at 1,442 ft. See section, p. 169. Length and size of casing: 75'-15"; 726'-12"; 1,440'-10"; 1,440'-8"; 1,452'-7"
-----	good supply.	force pump.	domestic.	Eocene? sand.	
-----	75	steam pump.	domestic.	Peedee formation; sand.	Length and size of casing: 400'-6"?; 400'-4½". See section, p. 168. See U. S. G. S., W. S. and I. P., No. 160, 1906, p. 97.
1	-----	flows.	domestic.	Peedee formation; gravel.	
½	-----	flows.	domestic.	Peedee formation; sand.	
-----	-----	hand pump.	domestic and wood distilling.	Peedee formation? gravel and sand.	

well reported in the county has a depth of 48 feet. Overflows have never been obtained. Driven wells, locally called "pumps," are rapidly taking the place of open dug wells throughout the county. It is reported that at Lilly water is taken from the Dismal Swamp Canal for drinking and for domestic purposes. At South Mills the canal water is used only for watering stock, cistern water being used for laundry purposes, and by one family for drinking. Several families use water taken from a stream issuing from a swamp about 2 miles from the town. This water is soft and is said to be very good, but it has the dark reddish-brown color so often seen in the swamp streams of the south. Wells are also used at both these places for household purposes.

Artesian Prospects.—The porous sand beds of the underlying Pliocene and Miocene deposits should furnish an abundance of potable water. Owing to the presence of shells in many of the strata the water is apt to dissolve enough calcium salts to make it hard. There are indications that at depths exceeding 300 feet briny waters would be encountered. The water will rise near the surface in all parts of the county, but except at very low levels no flows will be obtained.

CARTERET COUNTY.

Topography.—The entire surface of the county is made up of two Pleistocene terrace plains. The first, or Pamlico plain, covers all the area to the eastward of a north-south line a few miles west of the Nor-