

per square inch. A direct pressure of 110 pounds per square inch can be applied from the pumps. Thirty-five thousand gallons are used daily, about one-fifth of the people in Edenton using the city supply. Three public taps flow continuously. There are about 25 fire hydrants, 112 private taps, and approximately 5 miles of mains. The wells furnish an abundant supply of water for the needs of the town. The water is hard (see Analysis No. 24, Table 2) and has a strong sulphurous odor and taste when it first issues from the wells.

One assay and one analysis of waters from this county are given elsewhere in this report, as follows: Table 1, pp. 494, 495, assay No. 36; Table 2, pp. 504, 505, analysis No. 24. These are discussed on page 486.

Artesian Prospects.—With local exceptions, an abundant supply of rather hard water is obtainable in this county at depths of from 30 to 250 feet. In many cases flows may be obtained where the surface elevations are less than 10 feet above sea level. Locally, the water is apt to contain iron salts, and in many cases it will give off the odor of hydrogen sulphide when it first issues from the wells.

It is impossible to predict with any certainty the outcome of attempts to obtain potable water at depths exceeding 250 feet. At some depth, perhaps between 500 and 600 feet, the Miocene beds would be passed through and strata of Cretaceous age entered. Waters from the latter would probably be highly mineralized.

COUNTY.

Yield per minute.		How obtained at surface.	Use.	Geologic horizon and character of water-beds.	Remarks.
Flow—gallons.	Pump—gallons.				
15	-----	flows; also pumped.	city supply.	Miocene; shell-rock.	Other horizons at 20, 40 and 60 ft.
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3	-----	flows.	domestic.	Miocene; sand and gravel.	
-----	-----	pump.	manufacture of ice.	Miocene; sand.	Contains 386 parts per million of total solids.
4	-----	flows.	not used.	Miocene.	These wells were intended to supply water for fish ponds at the fish hatcheries, but as the sulphurous water killed the young fish, all but one of the wells was abandoned, this one being used for drinking purposes. Pumping tests gave a maximum yield of 8 gals. per minute for 8 hours. Pumping one well caused other wells to cease flowing.
2	-----	flows.	not used.	Miocene.	
3	-----	flows.	not used.	Miocene.	
4	-----	flows.	not used.	Miocene.	
5	-----	flows.	drinking.	Miocene.	