

of ground water beyond the reach of suction pumps. No analyses of the well waters at this place were obtainable, but it is reported that the quality varies considerably. A canal feeding from higher up the Roanoke River furnishes power to some of the mills at Weldon.

The table given below furnishes detailed information of a number of the deep wells of the county.

Assays and analyses of waters from this county are given in this report, as follows: Table 1, pp. 496; 497, assays Nos. 92-95; Table 2, pp. 506, 507, analyses Nos. 28-30. These are discussed on page 488.

Artesian Prospects.—Flowing wells are not possible in Halifax County, unless it be on the lower lands bordering the Roanoke River and Fishing Creek and their tributaries in the extreme southeastern corner of the county. Over the eastern half of the county good supplies of artesian water are obtainable from the Miocene and Patuxent beds at from 60 feet near Enfield to 200 feet in the southeastern corner.

COUNTY.

Yield per minute.		How obtained at surface.	Use.	Geologic horizon and character of water-beds.	Remarks.
Flow—gallons.	Pump—gallons.				
-----	8½	windmill and gasoline engine.	domestic and stock.	Patuxent formation; small pebbles and black sand.	Other horizons at 0-60 ft.
-----	2	force pump.	drinking.	basement rock.	Basement rock struck at 349 ft. Another horizon at 120 ft.
-----	-----	force pump.	drinking.	basement rock.	Basement rock struck at 109 ft. See water assay.
-----	-----	force pump.	drinking.	basement rock.	Basement rock struck at 90 ft. See water assay.
-----	-----	force pump.	drinking.	basement rock.	Basement rock struck at 40 ± ft.
-----	15	pump.	-----	Patuxent formation; gravel.	

basement rock surface, and along the extreme southern border perhaps exceed 100 feet in thickness. In a limited area a few miles to the northeast of Spout Springs there exists a remnant of siliceous Eocene limestone resting upon the Patuxent beds at an elevation of perhaps 300 feet. In the sandhill region, and to greater or lesser extent in the area of crystalline outcrop, the surface is blanketed with sandy clays, sands, and gravels of the Lafayette formation. In the southeastern part of the county loams, sands, and gravels of the Coharie and Sunderland formations of the Pleistocene form the surface materials.

Water Resources.—But three deep wells have been drilled in Harnett County, and each of these has entered the underlying rocks at less than 150 feet below the surface. The water obtained in each case is slightly hard. Assay 96, Table 1, pp. 496, 497, is a test of the deep well at Dunn.