

11½ gallons per minute. These wells are situated on the Wicomico terrace bordering Neuse River. A few other flows have been obtained in the vicinity of Goldsboro upon this lower level. In the town of Goldsboro there are many drilled wells 35 to 50 feet in depth which tap Patuxent horizons. In these the water rises to within 10 to 12 feet of the surface.

A number of wells have been drilled at Mount Olive and in the surrounding country to depths ranging from 30 to 150 feet, which probably obtain their supply from the Black Creek formation. Some of these, located in valleys a few feet below the general level, are flowing wells.

Assays and analyses of waters from this county are given elsewhere in this report, as follows: Table 1, pp. 192, 193, assays Nos. 179-185; Table 2, pp. 508, 509, analyses Nos. 51-57. These are discussed on page 491.

*Artesian Prospects.*—The ancient basement rocks which underlie the deposits of the Coastal Plain yield fair supplies of potable water at various depths down to 600 or 800 feet. The Patuxent beds which rest upon the slates offer a possible source of excellent water over the entire county. Over the northwestern two-thirds of the county these are reached at moderate depths, but towards the southeast they pass deeper beneath the Black Creek formation, and in the extreme southeast their upper surface probably lies at a depth of about 300 feet. In the south and southeast at depths of 50 to 300 feet the Black Creek formation which rests upon the Patuxent formation will yield from its contained sand beds fair supplies of potable water which in some localities is rather high in iron salts. The Eocene and Miocene beds are unimportant as water-bearers, except locally.