

150 feet, covers the greater part of the northwestern two-thirds of the county; the next lower, the Wicomico plain, with probable elevations of 60 to 90 feet, covers the southeastern one-third of the county and extends up Cape Fear River as a bordering belt of undetermined width to the county line on the north and beyond into Cumberland County; the Chowan plain, with elevations of 30 to perhaps 50 feet, has a limited development along Cape Fear and Black rivers in the southeastern part of the county. The lowest, or Pamlico plain, is not known to extend this far up the valleys. The several plains described have been more or less dissected by stream erosion.

Geology.—The Black Creek ("Bladen") formation, consisting of laminated, lignitic sands and clays, underlies the northwestern half of the county and, dipping to the southeast, passes conformably beneath the overlying Peedee ("Burches Ferry") formation. The latter consists of marine sands and clays, which are in most places more or less glauconitic and calcareous. Over parts of the county thin sheets of Miocene and Pliocene sands and shell marls rest upon the surface of the Peedee and Black Creek formations. Pleistocene terrace deposits of the Sunderland formation, the Wicomico formation, and the Chowan formation, consisting of sandy clays, sands, and gravels, are spread over the surface of all older formations.

Water Resources.—The greater part of the domestic water supply of this county is furnished by shallow, open, dug wells, and by driven wells ranging in depth from 10 to 30 or 40 feet. The sources of the supply in these wells are for the most part the sand and gravel beds forming the base of the surficial Pleistocene formations. Some, however, pass

BLADEN

Number.	Location.	Owner.	Date completed.	Elevation of surface above datum—feet.	Datum.	Depth—feet.	Diameter—inches.	Depth to principal water supply—feet.	Height of water, ± surface—feet.
1	Point Caswell, 3 miles W. of	Frank Sessoms	1896	12	level of Black River.	98	1½	95	+ 0
2	Bolton, 4 miles N. of	North Carolina Trucking Development Co.				70?	1½		+ 0
3	Kelly, ¼ mile W. of	E. H. Anders				84	1½	70-84	- 2
4	Emerson					175	2		
5	Clarkton	O. L. Clark	1900	50?	sea level.	150?	1½		+ 2
6	do.	N. A. Currie & Bro.	1906	104		190±	2	165-185	- 5
7	do.	S. Mears		75?		100±			- 3
8	do.	T. L. Hutchinson				100			