

southern Duplin and northern Pender counties. This swamp is believed to form a part of the Wicomico plain.

Geology.—The northwestern part of the county includes a portion of the belt in which surface outcrops of the laminated sands and clays of the Black Creek formation may be expected to occur. These dip to the southeastward, passing beneath the Peedee formation. The latter underlies all the remainder of the county. The Peedee materials consist of fossiliferous, dark green or gray, glauconitic, often calcareous sands, and dark marine clays. Over parts of the county there are basins or sheets of Eocene limestone or calcareous clay occupying depressions in the undulating Peedee surface, the extent and number of which cannot be determined on account of the blanket of surficial deposits. They are believed, however, not to form continuous sheets of great extent, but to exist as disconnected patches. Over at least parts of the county thin sheets of Miocene shell marl, sand, or clay, rest upon the Eocene or Cretaceous surface. Very little is known, however, concerning the extent of these. Over all older formations is spread a blanket of surficial sands and loams of Pleistocene age.

Water Resources.—Shallow open and driven wells, not exceeding 20 or 25 feet in depth and deriving their supply from Pleistocene sands and gravels, furnish a large proportion of the inhabitants with water for domestic purposes. In recent years deeper driven or drilled wells have been coming into more general use. Some of the latter derive

DUPLIN

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. $\pm$
1	Branch's Store.....	Watson Jernigan.....				37	1 $\frac{1}{4}$		
2	Bowdens.....	Roland Lumber Co.....	1899	160 $\pm$	sea level.	213	3 $\frac{1}{2}$		—25?
3	Magnolia.....	H. E. Newbury.....	1896	139	sea level.	230	1 $\frac{1}{4}$	230	—22
4	do.....	J. A. Mathis.....	1899	139	sea level.	204	1 $\frac{1}{4}$	204	—28?
5	do.....	do.....	1900	139	sea level.	300	1 $\frac{1}{4}$	295	— 7
6	do.....	H. M. Swinson.....	1900	144	sea level.	180	1 $\frac{1}{4}$		
7	Wallace, $\frac{1}{2}$ mile S. of.....	Wallace Manufacturing Co..	1905	about 40.	sea level.	90	1 $\frac{1}{4}$		+ 0
8	Wallace, $\frac{1}{2}$ mile S. W. of.....		1902	about 45.	sea level.	63	1 $\frac{1}{4}$	63	+ 2
9	Wallace, 1 $\frac{1}{4}$ miles S. of.....		1898	about 40.	sea level.	74	2	74	+ 1 $\frac{1}{4}$
10	Hallsville.....	S. O. Middleton.....	1900	65 $\pm$	sea level.	106	2	100	+ 6
11	Chinquapin.....	G. B. D. Parker.....				186	3	186	— 6
12	Chinquapin, 1 mile W. of..	W. H. Sloan.....	1900	12	level of NE. Cape Fear R.	93	2		— 3