

**GEORGIA**  
**STATE DIVISION OF CONSERVATION**  
DEPARTMENT OF MINES, MINING AND GEOLOGY  
GARLAND PEYTON, Director

---

**THE GEOLOGICAL SURVEY**  
Bulletin Number 70

---

**WELL LOGS OF THE**  
**COASTAL PLAIN OF GEORGIA**

by

**Stephen M. Herrick, Geologist**  
United States Geological Survey



Prepared cooperatively by the U. S. Geological Survey

---

**ATLANTA**  
**1961**

## BULLOCH COUNTY

Location: Southwestern part of city, 0.5 mi. west of Central of Georgia R.R. in Statesboro  
 Owner: City of Statesboro No. 3  
 Driller: Layne-Atlantic Company  
 Drilled: March 1954

Well No.: GGS 378  
 Elev.: 219

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, coarser-grained at depth, arkosic, finely disseminated phosphatic grains .....	20	20
<b>Miocene (Undifferentiated):</b>		
Clay: yellowish-green, sandy, phosphatic at depth; interbedded sand, fine to coarse-grained, arkosic .....	185	205
First observed phosphatic pebbles at 175-185.		
Sand: fine to coarse-grained, phosphatic .....	80	285
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic, fossiliferous (macroshells) .....	40	325
Sand: fine to coarse-grained, phosphatic; interbedded dolomitic limestone, as above; limestone, gray, dense, sandy, phosphatic .....	40	365
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, massive (much calcitized) nodular, somewhat oolitic, cherty, fossiliferous (casts and molds of Gastropods and Foraminifera) .....	60	425
<i>Rotalia mexicana</i> var. at 365-375.		
<i>Rotalia mexicana</i> var., <i>Gypsina globula</i> <sup>1</sup> at 375-385.		
Limestone: as above, but whiter in color .....	40	465
<b>In Upper Eocene(?): Jackson Group: Ocala Limestone:</b>		
Limestone: white to cream, rather massive, fossiliferous (some Foraminifera) .....	75	540
<i>Gypsina globula</i> common, <i>Lepidocyclina</i> sp. at 465-475.		
<i>Lepidocyclina</i> sp. common to abundant at 485-495.		

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: gray, extremely dense (highly calcitized), sandy, finely disseminated phosphatic grains, fossiliferous (casts and molds of megafossils and rare Foraminifera); interbedded clay, olive-green, sandy .....	85	625
Limestone: white, dense (much calcitized), sandy, sparsely glauconitic, fossiliferous (fragments and molds of megafossils); interbedded dolomitic limestone, dark-brown, saccharoidal, sandy .....	200	825
Dolomitic limestone: dark-brown, saccharoidal, coarsely but abundantly glauconitic .....	60	885
Marl: gray, somewhat sandy, glauconitic, fossiliferous (Foraminifera) .....	36	921
<i>Gyroidina soldanii</i> var., <i>Asterocyclina monticellensis</i> , <i>Lepidocyclina (Polylepidina) antillea</i> , <i>Cibicides mississippiensis</i> , <i>Cibicides westi</i> at 885-895.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	20	20
Miocene (undifferentiated) .....	345	365
Oligocene (undifferentiated) .....	100	465
In upper Eocene (?) (Ocala limestone) .....	75	540
Middle Eocene (Claiborne group, undifferentiated) .....	381	921

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	80	285
Limestone .....	175	540
Limestone <sup>1</sup> .....	285	825

**BULLOCH COUNTY**

Location:  
 Owner: No. 1 Willow Hill Elementary School  
 Driller: Layne-Atlantic Company  
 Drilled: September 1954

Well No.: GGS 430

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, arkosic; and some clay, bluish-gray to red (mottled), sandy .....	40	40

<sup>1</sup>Not a porous limestone, but should furnish some water.