

**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**

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: yellow, much calcitized, dense, crystalline, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera) .....	46	131
--	----	-----

*Operculina* cf. *O. mariannensis*, *Lepidocyclina* sp., *Amphistegina pinarensis* var. at 120-131.

**Summary:**

Residuum .....	85	85
Upper Eocene (Ocala limestone) .....	46	131

**Potential Water-Bearing Zones:**

Limestone .....	21	131
-----------------	----	-----

**Remarks:**

Additional aquifers occur below total depth of this well.

**EARLY COUNTY**

Location: 7 mi. southeast of Blakely, west side of Highway 27, at dwelling

Well No.: GGS 437

Owner: No. 1 Farmers Gin and Warehouse Company

Elev.: 178

Driller: Layne-Atlantic Company

Drilled: June 1955

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

**Residuum:**

Sand: tan, argillaceous, fine to coarse-grained, subangular, limonitic .....	4	4
--	---	---

Clay: gray to pink (mottled), very sandy, limonitic .....	19	23
---	----	----

Clay: gray to tan to dark-brown, with red streaks (somewhat mottled), very sandy, abundantly limonitic, and fragments of residual limestone .....	21	44
---	----	----

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: yellow, somewhat nodular, increasingly calcitized and crystalline with depth, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	48	92
<i>Operculina mariannensis, Asterocyclina sp., Gypsina globula</i> at 44-59.		
<i>Camerina striatoreticulata</i> at 70-92.		
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: dark-gray, dense and crystalline, very sandy, coarsely glauconitic, fossiliferous (macroshells, bryozoan remains, and Foraminifera); dolomitic limestone, light-brown, saccharoidal, carbonaceous; marl, gray, silty, fossiliferous (Foraminifera) .....	16	108
<i>Siphonina claibornensis, Cibicides westi</i> at 92-104.		
Sand: somewhat indurated and dense, fine to coarse-grained, subangular, phosphatic .....	32	140
Clay: dark-green, sandy, fossiliferous (macroshells, bryozoan, and Foraminifera) .....	22	162
<b>Tallahatta Formation:</b>		
Sand: fine to medium-grained, subangular, phosphatic .....	24	186
Limestone: gray to light-brown, massive, very sandy, glauconitic, phosphatic, fossiliferous (a coquina and some bryozoan remains) .....	21	207
Sand: fine to coarse-grained, subangular, phosphatic .....	95	302
Clay: yellowish-green, progressively more indurated with depth (a claystone at depth), very sandy, phosphatic, fossiliferous (fragments, casts and molds of Gastropods) .....	23	325
Sand: fine to medium-grained, subangular, somewhat indurated at certain levels, abundantly glauconitic, fossiliferous (macroshells) .....	19	344
Limestone: gray, coarsely glauconitic, sandy, fossiliferous (macroshells) .....	12	356
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: dark-gray, sandy, carbonaceous, micaceous, pyritiferous, fossiliferous (Foraminifera at certain levels) .....	192	548
<i>Robulus sp., Marginulina sp., Eponides dorfi, Discorbis sp., Valvulineria scrobiculata, Cibicides howelli, Anomalina sp.</i> at 350-371.		

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, subangular, glauconitic .....	24	572
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to medium-grained, somewhat indurated at certain levels, fossiliferous at depth (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	46	618
<i>Nodosaria affinis</i> , <i>Robulus midwayensis</i> , <i>Eponides lotus</i> , <i>Guttulina</i> sp. at 596-617.		
Indurated sand: as above; interbedded clay, gray, silty, carbonaceous, micaceous .....	45	663
<i>Pseudophragmina stephensoni</i> at 617-627.		
<i>Operculinooides catenula</i> common at 638-663.		
Limestone: light-gray, rather dense, progressively sandier with increased depth, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	21	684
Indurated sand: gray, fine-grained, subangular, glauconitic (finely disseminated grains) .....	30	714
Sand: fine to coarse-grained, subangular; interbedded clay, light-gray, silty, somewhat indurated, fissile; some indurated sands, as above .....	158	872
Sand: fine to coarse-grained, subangular; interbedded clay, gray, chalky, micaceous .....	102	974
Indurated sand: fine to coarse-grained, subangular, fossiliferous (a coquina) .....	42	1,016
Sand: fine to coarse-grained, subangular; interbedded clay, as above .....	13	1,029
<b>Upper Cretaceous: Providence and Ripley Formations (Undifferentiated):</b>		
Sand: fine to coarse-grained, subangular; interbedded marl, gray, chalky, micaceous, fossiliferous (some Foraminifera) .....	91	1,120
<i>Guembelina</i> sp., <i>Globotruncana cretacea</i> at 1029-1049.		

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Residuum .....	44	44
Upper Eocene (Ocala limestone) .....	48	92
Middle Eocene (Lisbon formation) .....	70	162
Middle Eocene (Tallahatta formation) .....	194	356
Lower Eocene (Wilcox group, undifferentiated) .....	216	572
Paleocene (Clayton formation) .....	457	1,029
Upper Cretaceous (Providence and Ripley, undifferentiated) .....	91	1,120

#### Potential Water-Bearing Zones:

Sand: fine to coarse-grained .....	95	302
Sand: fine to coarse-grained .....	24	572
Limestone .....	21	684
Sand: fine to coarse-grained .....	42	1,016

#### EARLY COUNTY

Location: 1,738 ft. south and 11 ft. west of northeast corner of Land Lot 341, 26th Land District. Well No.: GGS 483  
 Owner: No. 1 R. V. Ellis Elev.: 163  
 Driller: Sun Oil Company (derrick floor)

	Thickness (feet)	Depth (feet)
No samples .....	80	80

#### In Middle Eocene: Claiborne Group: Lisbon Formation:

Sand: fine to coarse-grained, angular; some marl, gray, silty, micaceous, fossiliferous (Radiolaria and some Foraminifera); limestone, yellow to light-gray at depth, crystalline, much calcitized, coarsely glauconitic, sandy, fossiliferous (megafossils and some Foraminifera) .....

	120	200
--	-----	-----

*Sigmoidina* sp., *Nonion* sp., *Radiolaria* at 80-120.

*Cibicides pseudoungerianus* var. *lisbonensis*, *Operculinoides* sp. at 120-160.

*Asterocyclina* sp. at 160-200.

#### Tallahatta Formation:

Marl: light-gray, silty, micaceous, fossiliferous (some Foraminifera); limestone, as above .....

	80	280
--	----	-----

*Valvulineria jacksonensis* var., *Cibicides tallahattensis* at 200-240.