

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

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**THE GEOLOGICAL SURVEY**  
Bulletin Number 70

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

by

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United States Geological Survey



Prepared cooperatively by the U. S. Geological Survey

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**ATLANTA**  
**1961**

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, blocky, phosphatic, cherty at certain levels; interbedded sand, fine to coarse-grained, phosphatic.....	145	250
Sand: fine to coarse-grained, phosphatic; interbedded limestone, white, sandy, phosphatic, fossiliferous; dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic; clay, dark-green, silty.....	300	550
Dolomitic limestone common at 250-260.		

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

Limestone: light-gray, dense (calcitized), fossiliferous (macroshells, bryozoan remains, and Foraminifera).....	150	700
<i>Operculinoides floridensis</i> at 550-560.		

**Summary:**

Pliocene to Recent (undifferentiated).....	105	105
Miocene (undifferentiated).....	445	550
Upper Eocene (Ocala limestone).....	150	700

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	10	60
Sand: fine to coarse-grained.....	50	400
Limestone.....	150	700

**GLYNN COUNTY**

Location: Brunswick Well No.: GGS 530  
 Owner: Allied Chemical Company, Solvay Process Division Elev.: 15<sup>1</sup>  
 Driller: Layne-Atlantic Company  
 Drilled: 1955

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains; interbedded clay, dark-gray, fissile, lignitic, micaceous, fossiliferous at certain levels.....	65	65
Limestone: dark-gray, dense (much calcitized), sandy, phosphatic, fossiliferous.....	15	80
Clay: gray, somewhat indurated, sandy, containing coarse grains of quartz.....	15	95
Sand: medium to very coarse-grained, rounded, phosphatic.....	55	150

<sup>1</sup>Average elevation based on Georgia State Highway Maps.

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic, cherty; interbedded limestone, gray, dense (much calcitized), sandy, fossiliferous; sand, fine to coarse-grained, phosphatic.....	115	265
Dolomitic limestone: light-brown, fine-grained, saccharoidal; clay, pale-green, sandy; limestone, white, dense (calcitized); very sandy, coarsely phosphatic, fossiliferous.....	235	500
Limestone, white, sandy, fossiliferous (a coquina) at 265-280.		
Indurated sand (or dolomitic limestone), light-brown, fine-grained, saccharoidal, phosphatic, at 280-310.		
Clay, pale-green, sandy, with interbedded dolomitic limestone at 310-370.		
Limestone, white, dense (much calcitized), very sandy, coarsely phosphatic, fossiliferous at 390-500.		

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

Limestone: cream, massive, much calcitized, fossiliferous (macroshells, bryozoan remains, and Foraminifera).....	300	800
<i>Operculinoides</i> sp. at 500-510.		
<i>Asterocyclina</i> sp. at 520-530.		
<i>Asterocyclina nassauensis</i> , <i>Gypsina globula</i> at 530-540.		
<i>Pseudophragmina flintensis</i> at 590-600.		
<i>Operculina mariannensis</i> at 610-620.		

**Summary:**

Pliocene to Recent (undifferentiated).....	150	150
Miocene (undifferentiated).....	350	500
Upper Eocene (Ocala limestone).....	300	800

**Potential Water-Bearing Zones:**

Sand: coarse-grained.....	55	150
Limestone.....	300	800