

**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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Prepared cooperatively by the U. S. Geological Survey

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**ATLANTA**  
**1961**

	Thickness (feet)	Depth (feet)
Limestone: cream, granular (in texture), much calcitized, fossiliferous (Foraminifera) .....	195	610

*Camerina striatoreticulata* at 430-460.

*Operculina mariannensis* at 490-520.

Glauconite-impregnated Foraminifera prominent at 580-610.

*Lepidocyclina (Polylepidina) antillea?* at 580-610.

#### Summary:

Pliocene to Recent (undifferentiated) .....	103	103
Miocene (undifferentiated) .....	77	180
Oligocene (undifferentiated) .....	40	220
Upper Eocene (Ocala limestone) .....	390	610

#### CHATHAM COUNTY

Location: 2.4 mi. east of City Hall, Savannah

Owner: No. 1 Southeastern Shipyards

Driller: Layne-Atlantic Company

Drilled: June 1941

Well No.: GGS 35

Elev.: 9

	Thickness (feet)	Depth (feet)
No samples .....	20	20
<b>In Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to medium-grained, angular, arkosic; clay, dark-gray, silty, lignitic, micaceous .....	10	10
Sand: fine to medium-grained, angular, arkosic .....	30	60
Sand: as above, but coarse-grained, subrounded .....	12	72
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic (at depth) .....	133	205
No samples .....	3	208
Limestone: light-gray, dense, sandy, phosphatic; dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic .....	?	208
No samples .....	20	228

	Thickness (feet)	Depth (feet)
<b>In Oligocene (Undifferentiated):</b>		
Limestone: light-gray, dense (much calcitized), nodular, fossiliferous (some echinoid and bryozoan remains and Foraminifera) (bryozoan remains and Foraminifera) .....	?	300
<i>Quinqueloculina</i> sp., <i>Elphidium</i> sp. at 228.		
<i>Textularia</i> sp., <i>Nonionella hantkeni</i> var. at 248.		
No samples .....	52	300
Limestone: cream, crystalline (much calcitized), nodular, fossiliferous (bryozoan remains and frequent Foraminifera) .....	?	300
<i>Quinqueloculina</i> sp., <i>Discorbis?</i> sp., <i>Rotalia</i> sp. at 300.		
No samples .....	20	320

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

Limestone: cream to light-gray, massive, saccharoidal (highly calcitized), nodular, fossiliferous (abundant bryozoan remains, echinoid spines, and some Foraminifera) .....	35	355
<i>Operculinoides</i> sp. at 320.		
<i>Robulus alato-limbatus</i> at 355.		
No samples .....	17	372
Limestone: white, crystalline (in texture), much calcitized, fossiliferous (abundant bryozoan remains and some Foraminifera) .....	30	402
<i>Asterocyclina nassauensis</i> at 372.		
No samples .....	123	525
Limestone: cream, granular, sparsely glauconitic, fossiliferous ("larger Foraminifera") .....	121	646
<i>Camerina striatoreticulata</i> common at 525.		

**Summary:**

No samples .....	20	20
In Pliocene to Recent (undifferentiated) .....	52	72
Miocene (undifferentiated) .....	156	228
No samples .....	12	240
In Oligocene (undifferentiated) .....	60	300
No samples .....	20	320
In upper Eocene (Ocala limestone) .....	326	646

	Thickness (feet)	Depth (feet)
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**Potential Water-Bearing Zones:**

Limestone .....	406	646
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**Remarks:**

Sample intervals too large to permit satisfactory picking of formational tops.

**CHATHAM COUNTY**

Location: 2 mi. east of City Hall, near south bank of Savannah River, in Savannah  
 Well No.: GGS 61  
 Elev.: 6  
 Owner: No. 1 Standard Oil Company  
 Driller: Layne-Atlantic Company  
 Drilled: August 1940

	Thickness (feet)	Depth (feet)
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**Pliocene to Recent (Undifferentiated):**

Sand: fine to coarse-grained, angular, arkosic, finely disseminated phosphatic grains; interbedded clay, dark-gray, silty, lignitic, micaceous, fossiliferous (macroshells at certain levels) .....	60	60
Sand: coarse-grained, arkosic, somewhat phosphatic .....	10	70

**Miocene (Undifferentiated):**

Clay: dark-green, somewhat granular (in texture), sandy, phosphatic (at depth) .....	30	100
Reddish-brown phosphatic fragments prominent at 100.		
Clay: as above; interbedded dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic; limestone, light-gray to white, dense, saccharoidal, very sandy, phosphatic, fossiliferous at depth (casts and impressions of megafossils) .....	145	245
Dolomitic limestone prominent at 140.		
No samples .....	32	277

**In Oligocene (Undifferentiated):**

Limestone: cream, nodular (much calcitized), cherty, fossil-