

**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>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.

Thickness  
(feet)      Depth  
(feet)

**Miocene (Undifferentiated):**

Clay: yellowish-green, sandy; interbedded sand, fine to coarse-grained .....	78	118
Sand: fine to coarse-grained; interbedded clay, green, sandy, phosphatic (at depth); thin tongues of limestone, white, sandy, phosphatic .....	230	348
Sand, fine to coarse-grained at 118-130.		
Sand, fine to coarse-grained at 135-150.		
Sand, fine to coarse-grained at 203-216.		
Sand, fine to coarse-grained at 223-250.		
Sand, fine to coarse-grained at 268-276.		
Sand, fine to coarse-grained at 282-340.		

**Oligocene (Undifferentiated):**

Limestone: dark-gray to pinkish to cream, massive, nodular (much calcitized), somewhat oolitic, cherty, fossiliferous (casts and molds of Gastropods and Foraminifera) .....	108	456
<i>Rotalia mexicana</i> var., <i>Asterigerina subacuta</i> at 350-360.		
<i>Operculinoides</i> sp. at 360-370.		
<i>Lepidocyclina</i> sp., <i>Asterocyclina</i> <sup>1</sup> sp. at 386-396.		
<i>Eponides byramensis</i> at 396-406.		

**Summary:**

Pliocene to Recent (undifferentiated) .....	40	40
Miocene (undifferentiated) .....	308	348
Oligocene (undifferentiated) .....	108	456

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	12	130
Sand: fine to coarse-grained .....	15	150
Sand: fine to coarse-grained .....	13	216
Sand: fine to coarse-grained .....	27	250
Sand: fine to coarse-grained .....	8	276
Sand: fine to coarse-grained .....	58	340
Limestone .....	108	456

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