

**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>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	20	20
Miocene (undifferentiated) .....	360	380
Oligocene (undifferentiated) .....	80	460

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	20	105
Sand: fine to coarse-grained .....	40	310
Limestone .....	80	460

**BULLOCH COUNTY**

Location: In Brooklet  
 Owner: No. 1 City of Brooklet  
 Driller: M. M. Gray Drilling Company  
 Drilled: 1957

Well No.: GGS 553  
 Elev.: 159<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, mottled, sandy .....	50	50
<b>Miocene (Undifferentiated):</b>		
Clay: pale, yellowish-green, sandy, phosphatic and fossiliferous at depth; interbedded sand, fine to coarse-grained, phosphatic .....	250	300
Limestone, white, sandy, phosphatic, with macroshells at 50-60.		
Black phosphatic pebbles common at 50-60.		
Macroshells prominent at 150-160.		
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic .....	10	310
No samples .....	15	325

**In Oligocene (Undifferentiated):**

Limestone: cream, massive, somewhat granular and nodular, somewhat saccharoidal and whiter at depth, cherty, fossiliferous (casts and molds of Gastropods, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	140	465
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<sup>1</sup>Average elevation taken from State Highway map.

*Pyrgo* sp., *Cibicides americanus*, *Cibicides lobatulus*, *Gypsina globula*<sup>2</sup> at 325-335.

*Lepidocyclina* sp., *Dietyoconus*<sup>2</sup> sp., *Rotalia mexicana* var., *Asterigerina subacuta*, *Eponides byramensis*, *Quinqueloculina* sp. at 345-355.

#### Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: light-gray, somewhat calcitized, fossiliferous (abundant bryozoan remains and some Foraminifera) ..... 50 515

*Robulus arcuato-striatus* var. *carolinianus*, *Fronidularia* sp., *Gypsina globula*, *Nonion planatus*, *Alabamina obtusa*, *Eponides jacksonensis*, *Nodosaria fissicostata*, *Globorotalia cocoaensis*, *Planulina cocoaensis* at 465-475.

*Operculinoides floridensis* at 485-495.

*Planularia* sp. at 495-505.

#### Summary:

Pliocene to Recent (undifferentiated) .....	50	50
Miocene (undifferentiated) .....	260	310
No samples .....	15	325
In Oligocene (undifferentiated) .....	140	465
Upper Eocene (Ocala limestone) .....	50	515

#### Potential Water-Bearing Zones:

Limestone .....	190	515
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#### BULLOCH COUNTY

Location: In City of Portal  
 Owner: City of Portal  
 Driller: Layne-Atlantic Company  
 Drilled: 1959

Well No.: GGS 571  
 Elev.: 295<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: pale-yellowish-green with red streaks (mottled), very sandy, limonitic .....	36	36
Sand: medium to coarse-grained, subangular, arkosic .....	20	56
Clay: pale-yellowish-green to pale-brownish-gray, sandy .....	102	158

<sup>1</sup>Average elevation taken from State Highway map.

<sup>2</sup>Reworked (?) fossil of middle Eocene age.