

**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)
<b>Potential Water-Bearing Zones:</b>		
Limestone .....	130	300
Limestone .....	270	770

**Remarks:**

Because the dolomitic limestone above carries gypsum ( $\text{CaSO}_4$ ) crystals, it yields highly mineralized water and is, therefore, not a source of good ground water. Sand at depth 1612-1635 contained salt water with chlorides approaching that of sea water, hence is not a source of fresh ground water.

**THOMAS COUNTY**

Location: In Thomasville  
 Owner: City of Thomasville  
 Driller: M. M. Gray Drilling Company  
 Drilled: September 1954

Well No.: GGS 401  
 Elev.: 285<sup>1</sup>

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, argillaceous, mottled, limonitic .....	10	10
Sand: fine-grained, argillaceous, olive-green to tan; with inclusions of kaolin, white, sandy .....	25	35
<b>Miocene (Undifferentiated):</b>		
Clay: white to light-gray to pale-green, sandy, phosphatic .....	15	50
White to light-gray phosphatic pebbles prominent at 40-50.		
Limestone: white, dense, sandy, cherty; interbedded sand, fine to medium-grained, angular; beds of clay, white to light-gray to pale-green, sandy, phosphatic .....	50	100
Limestone: light-brown, somewhat dolomitized and saccharoidal, dense, crystalline, sandy, fossiliferous (casts and molds of megafossils); interbedded clay, as above .....	80	180
<b>Oligocene (Undifferentiated):</b>		
Limestone: light-gray to white, dense, nodular, much calcitized, fossiliferous (some Foraminifera at various horizons) .....	115	295
<i>Asterigerina subacuta</i> at 180-190.		
<i>Dictyoconus</i> <sup>2</sup> sp. at 280-290.		

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

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

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
a Dolomitic limestone: dark-brown, saccharoidal, massive .....	105	400

**Summary:**

Pliocene to Recent (undifferentiated) .....	35	35
Miocene (undifferentiated) .....	145	180
Oligocene (undifferentiated) .....	115	295
Upper Eocene (Ocala limestone) .....	105	400

**Potential Water-Bearing Zones:**

Limestone .....	115	295
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**THOMAS COUNTY**

Location: Approximately 7 mi. south of Meigs  
 Owner: No. 1 Waverly Petroleum Products Company  
 Driller: Layne-Atlantic Company  
 Drilled: 1955

Well No.: GGS 495  
 Elev.: 384

	Thickness (feet)	Depth (feet)
No samples .....	10	10
<b>In Miocene (Undifferentiated):</b>		
Clay: bluish-gray to purple (mottled), sandy, limonitic .....	5	15
Clay: yellowish-green, very sandy; some mottled clay, as above .....	13	28
No samples .....	9	37
Sand: fine to medium-grained, angular .....	23	60
Clay: yellowish to dark-green, somewhat indurated, tough, phosphatic at depth, sandy; interbedded thin beds of sand, fine to medium-grained, angular .....	107	167
Light-brown phosphatic pebbles common at 126-147.		
Limestone: white to gray to light-brown, dense, somewhat crystalline and saccharoidal, much calcitized, sandy .....	226	393
Limestone: as above but much sandier, phosphatic .....	41	434
Sand: fine to coarse-grained, angular; clay, gray to yellowish- green, somewhat fissile, carbonaceous; limestone, as above.....	82	516