

**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>Middle Eocene: Claiborne Group: Lisbon Formation</b>		
Limestone: cream, granular, much calcitized, fossiliferous (macroshells, echinoid and bryozoan remains and Foraminifera)	100	800
<i>Robulus alato-limbatus</i> , <i>Lenticulina fragaria</i> var., <i>Nodosaria latejugata</i> var., <i>Eponides jacksonensis</i> at 700-720.		
<i>Asterocyclina</i> sp. at 760-775.		

**Summary:**

Pliocene to Recent (undifferentiated)	10	10
Miocene (undifferentiated)	485	495
Oligocene (undifferentiated)	50	545
Upper Eocene (Ocala limestone)	155	700
Middle Eocene (Lisbon formation)	100	800

**Potential Water-Bearing Zones:**

Limestone	100	800
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**Remarks:**

Dolomitic limestone yields hard water. The strata of Oligocene age in the above well are composed largely of dolomitic limestone. The underlying limestones of Ocala age constitute the principal source of ground water in this well.

**COLQUITT COUNTY**

Location: 760 ft. west of east line, 210 ft. north of south line, Land Lot 270, 8th Land District  
 Well No.: GGS 170  
 Elev.: 270  
 Owner: No. 1 D. G. Arrington (derrick floor)  
 Driller: R. T. Adams Drilling Company  
 Drilled: August 1948

	Thickness (feet)	Depth (feet)
No samples	120	120

**In Miocene (Undifferentiated):**

Clay: pale-green, sandy; interbedded limestone, white, dense, phosphatic, somewhat dolomitized at certain levels, sandy, fossiliferous at depth (casts and molds of megafossils)	270	390
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Casts and molds of megafossils prominent at 330-340.

	Thickness (feet)	Depth (feet)
<b>Oligocene (Undifferentiated):</b>		
Limestone .....	70	460
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Dolomitic limestone: dark-brown, saccharoidal .....	230	690
<b>Middle Eocene: Claiborne Group (Undifferentiated):</b>		
Limestone: cream, calcitized and granular, somewhat loosely consolidated, cherty at certain levels .....	380	1,070
Limestone: as above but coarsely glauconitic .....	130	1,200
<i>Operculinoides</i> sp. at 1070-1080.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: light-gray, silty, micaceous, glauconitic with finely disseminated grains .....	35	1,235
Marl: as above but somewhat indurated, sandy, carbonaceous, micaceous .....	55	1,290
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: light-gray to white, dense, crystalline much calcitized, coarsely glauconitic, fossiliferous (macroshells and some Foraminifera) .....	30	1,320
<i>Pseudophragmina stephensoni</i> at 1290-1300.		
<i>Operculinoides catenula</i> at 1320-1330.		
Indurated sand: gray, dense, crystalline, somewhat argillaceous, glauconitic (finely disseminated), fossiliferous at certain levels (macroshells and Foraminifera) .....	130	1,450
Limestone: gray, dense, crystalline, coarsely glauconitic, fossiliferous (megafossils and some Foraminifera) .....	160	1,610
Limestone: as above, but cherty .....	70	1,680
<b>Cretaceous (Undifferentiated):</b>		
Marl: gray, silty, micaceous, chalky, pyritiferous, fossiliferous at certain levels (megafossils, Ostracods, and Foraminifera) .....	1,120	2,800
<i>Globotruncana</i> sp., <i>Gaudryina</i> sp., <i>Guembelina</i> sp. at 1680-1690.		
<i>Kyphopyxa christneri</i> at 2360-2370.		
<i>Vaginulina texana</i> at 2580-2590.		

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, somewhat indurated at certain horizons, glauconitic, phosphatic, fossiliferous (macroshells); interbedded clay or shale, greenish-gray, somewhat fissile, micaceous .....	220	3,020
Sand: coarse-grained, angular, arkosic; interbedded clay, dark-gray, laminated, micaceous .....	280	3,300
Shale: dark-gray, fissile, micaceous, carbonaceous .....	135	3,435
Shale: as above; interbedded sand, medium-grained, glauconitic, fossiliferous (macroshells) .....	110	2,545
Clay: greenish-gray to purple, sandy, micaceous; interbedded sand, coarse-grained, angular, arkosic; and limestone, gray, crystalline, glauconitic .....	1,364	4,909

## Summary:

No samples .....	120	120
In Miocene (undifferentiated) .....	270	390
Oligocene (undifferentiated) .....	70	460
Upper Eocene (Ocala limestone) .....	230	690
Middle Eocene (Claiborne group, undifferentiated) .....	510	1,200
Lower Eocene (Wilcox group, undifferentiated) .....	90	1,290
Paleocene (Clayton formation) .....	390	1,680
Cretaceous (undifferentiated) .....	3,229	4,909

## Potential Water-Bearing Zones:

Limestone .....	70	460
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## Remarks:

Except for Oligocene limestones, no good aquifers were observed in above well. All sands in the deeply buried Cretaceous strata doubtless contain salt water and are not suitable as sources of potable ground water.