

**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>Summary:</b>		
Residuum .....	55	55
No samples .....	60	115
In upper Eocene (Ocala limestone) .....	155	270
No samples .....	20	290
In middle Eocene (Lisbon formation) .....	205	495
In middle Eocene (Tallahatta formation) .....	540	1,035

**Potential Water-Bearing Zones:**

Limestone .....	155	270
Sand: fine to coarse-grained .....	540	1,035

**Remarks:**

It is thought that by careful drilling plus the aid of an electric log, adequate water-bearing sands can be found within the Tallahatta formation (see log above).

**DECATUR COUNTY**

Location: Center of northeast quarter of Land Lot 260, Well No.: GGS 168  
 21st Land District Elev.: 104  
 Owner: No. 1 Metcalf (derrick floor)  
 Driller: Hunt Oil Company  
 Drilled: August 1944

	Thickness (feet)	Depth (feet)
No samples .....	138	138

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

Dolomitic limestone: light-brown, saccharoidal, fossiliferous  
 (some Foraminifera) .....
 207 | 345 |

*Operculinoides* sp., *Gypsina globula*, *Amphistegina pinaren-*  
*sis* var. at 265-275.

**In Middle Eocene: Claiborne Group: Lisbon Formation:**

Limestone: cream to light-brown, rather massive and crystal-  
 line, somewhat nodular, fossiliferous (bryozoan and mollus-  
 can remains and some Foraminifera) .....
 10 | 355 |

Limestone: cream, calcitized and granular, somewhat loosely  
 consolidated, coarsely but sparsely glauconitic, fossiliferous  
 at certain levels (macroshells, echinoid and bryozoan re-

	Thickness (feet)	Depth (feet)
mains, and Foraminifera); interbedded dolomitic limestone, gray to brown, saccharoidal, glauconitic; indurated sand, fine to medium-grained, subangular.....	455	810

**Tallahatta Formation:**

Indurated sand: fine to medium-grained, subangular, abundantly glauconitic at depth; interbedded clay, brown, somewhat fissile .....	310	1,120
Sand: coarse-grained, subangular.....	80	1,200

**Lower Eocene: Wilcox Group (Undifferentiated):**

Clay: dark-gray, silty, micaceous, fossiliferous at depth (some Foraminifera); interbedded sand, light-gray, fine-grained, subangular, glauconitic (finely disseminated grains), micaceous .....	320	1,520
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*Robulus* sp., *Alabama* sp., *Globigerina* sp. at 1290-1300.  
*Marginulina* sp. at 1330-1340.

**Paleocene: Midway Group: Clayton Formation:**

Limestone: somewhat yellow, dense, crystalline, coarsely glauconitic, fossiliferous (some "larger Foraminifera").....	25	1,545
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*Pseudophragmina stephensoni* at 1540-1550.

Indurated sand: fine-grained, glauconitic (finely disseminated); interbedded limestone, gray, crystalline, sandy, fossiliferous (Foraminifera at certain levels).....	195	1,740
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*Robulus pseudo-mamilligerus* at 1600-1610.

Marl: gray, somewhat indurated, silty, micaceous, glauconitic, fossiliferous (Foraminifera <sup>1</sup> ) .....	295	2,035
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**Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):**

Marl: gray, chalky, micaceous, glauconitic, sandy at certain levels, fossiliferous (fossils at certain horizons).....	770	2,805
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*Globotruncana cretacea* at 2050-2060.

*Planulina taylorensis* at 2210-2220.

*Kyphopyxa christneri* at 2620-2630.

*Vaginulina texana* at 2650-2660.

<sup>1</sup>Tamesi fauna.

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, somewhat indurated, glauconitic (finely disseminated), phosphatic, fossiliferous (a coquina) .....	115	2,920

#### Tuscaloosa Formation:

Sand: medium-grained, angular, somewhat indurated, glauconitic, fossiliferous (macroshells); interbedded shale, gray, fissile, carbonaceous, micaceous.....	295	3,215
Shale: dark-gray, fissile, carbonaceous, micaceous.....	265	3,480
Sand: medium-grained, angular, glauconitic, fossiliferous (macroshells); interbedded shale, as above.....	90	3,570
Sand: coarse-grained, angular, arkosic; interbedded clay, red, micaceous, sandy .....	40	3,610 <sup>1</sup>

#### Summary:

No samples .....	138	138
In upper Eocene (Ocala limestone) .....	207	345
In middle Eocene (Lisbon formation).....	465	810
Middle Eocene (Tallahatta formation).....	390	1,200
Lower Eocene (Wilcox group, undifferentiated).....	320	1,520
Paleocene (Clayton formation).....	515	2,035
Upper Cretaceous (post-Tuscaloosa, undifferentiated).....	885	2,920
Upper Cretaceous (Tuscaloosa formation).....	690	3,610

#### Potential Water-Bearing Zones:

Limestone .....	200	545
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#### Remarks:

This is a difficult area in which to find suitable aquifers. In general, most aquifers available below a depth of 545 contained mineralized ground water.

<sup>1</sup>Not examined below 3,610.