

**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)
Indurated sand: light-gray to pale-yellowish-green, fine to medium-grained, somewhat argillaceous, glauconitic (finely disseminated grains), fossiliferous (macroshells).....	17	407
Marl: pale-yellowish-green, sandy, glauconitic, somewhat indurated, fossiliferous (Ostracods and Foraminifera).....	10	417

*Cibicides westi* at 407.

**Summary:**

No samples .....	190	190
In upper Eocene (Ocala limestone).....	105	295
No samples .....	18	313
In middle Eocene (Lisbon formation).....	104	417

**Potential Water-Bearing Zones:**

Limestone .....	105	295
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**DECATUR COUNTY**

Location: 6 mi. northwest of Bainbridge, at U.S. Basic Flying Field      Well No.: GGS 57  
 Elev.: 135,  
 Owner: No. 1 (Test Hole) Basic Flying Field  
 Driller: Layne-Atlantic Company

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Clay: bluish-gray to pink to purple (mottled), sandy, limonitic.....	20	20
Sand: fine to coarse-grained, subangular; some limestone, white, much calcitized and crystalline.....	35	55
No samples .....	60	115

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

Limestone: white to cream to light-brown (latter at depth), much calcitized and crystalline, fossiliferous at certain levels (bryozoan remains and Foraminifera).....	155	270
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*Gypsina globula* at 115.  
*Amphistegina pinarensis* var. at 169.  
*Lepidocyclina* sp. common at 195.

No samples .....	20	290
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	Thickness (feet)	Depth (feet)
<b>In Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Limestone: white to light-gray, somewhat nodular, dense, massive, coarsely glauconitic, fossiliferous (macroshells and bryozoan remains) .....	16	306
Dolomitic limestone: light-gray, saccharoidal, glauconitic .....	21	327
Limestone: light-gray to white, massive, coarsely glauconitic, sandy, fossiliferous (bryozoan remains and some Foraminifera) .....	26	353
Limestone: gray, dense, crystalline, cherty, glauconitic (finely disseminated grains) .....	47	400
Marl: pale-yellowish-green, somewhat indurated and tough, softer at depth, somewhat granular, glauconitic (finely disseminated grains), micaceous, fossiliferous (some Foraminifera at certain levels) .....	30	430
<i>Cibicides westi</i> at 400.		
Limestone: cream, calcitized and granular, loosely consolidated, fossiliferous (a coquina and some Foraminifera) .....	5	435
Limestone: yellowish-green, argillaceous, dense, sandy, coarsely glauconitic, fossiliferous (fragments, casts and molds of megafossils); interbedded marl, yellowish-green, silty, fossiliferous (Foraminifera at certain levels) .....	33	468
<i>Asterigerina lisbonensis</i> at 458.		
Sand: somewhat indurated at certain levels, fine to coarse-grained, subangular, coarsely glauconitic, fossiliferous (macroshells, bryozoan remains, Ostracods, and Foraminifera at certain levels) .....	18	486
<i>Eponides mexicanus</i> , <i>Gyroidina soldanii</i> var., <i>Alabamina atlantisae</i> , <i>Discorbis yeguaensis</i> , <i>Cibicides americanus</i> var., <i>Cibicides danvillensis</i> , <i>Cibicides pseudoungerianus</i> var., <i>Cibicides lobatulus</i> , <i>Asterigerina lisbonensis</i> at 476.		
Limestone: gray to cream, rather massive, sandy, coarsely glauconitic, fossiliferous (a coquina) .....	9	495
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, subangular; interbedded clay, dark-green to mottled, sandy, micaceous .....	540	1,035
Glauconite very abundant at 495.		

	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-