

**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)
Middle Eocene (Lisbon formation) .....	330	1,090
Middle Eocene (Tallahatta formation) .....	220	1,310
In lower Eocene (?) (Wilcox group, undifferentiated) .....	145	1,455
Paleocene (Clayton formation) .....	245	1,700
Upper Cretaceous (?) (undifferentiated) .....	151	1,851
Upper Cretaceous (post-Tuscaloosa, undifferentiated) .....	819	2,670
Upper Cretaceous (Tuscaloosa formation) .....	840	3,510
Lower Cretaceous (?) (undifferentiated) .....	153	3,663
Basement complex (undifferentiated) .....	17	3,680

**Potential Water-Bearing Zones:**

Limestone .....	310	760
Sand: fine to medium-grained .....	130	1,310
Sand: medium-grained .....	135	1,680

**TREUTLEN COUNTY**

Location: 6 mi. west of Soperton, Land Lot 221, Ga. Well No.: GGS 127  
 Military District 1386 Elev.: 291  
 Owner: No. 1 James Fowler  
 Driller: Rose and Ray  
 Drilled: 1940

	Thickness (feet)	Depth (feet)
No samples .....	765	765

**In Middle Eocene: Claiborne Group (Undifferentiated):**

Limestone: light-gray to white, dense, crystalline, sandy, phosphatic (finely disseminated), coarsely glauconitic, fossiliferous (fragments, casts and molds of megafossils, Ostracods and Foraminifera) .....

130 895

*Nonion advena*, *Gyroidina soldanii* var., *Eponides jacksonensis*, *Nonion inexcavatus*, *Cibicides pseudoungerianus*, *Cibicides americanus* var. at 765-815.

*Lepidocyclina* (*Polylepidina*) *antillea*, *Asterigerina* sp. at 815-825.

*Asterocyclina monticellensis* at 835-855.

Indurated sand: dark-gray, somewhat argillaceous, dense, phosphatic (finely disseminated), carbonaceous, micaceous, fossiliferous (some Foraminifera) .....

20 915

*Cibicides blaupiedi* at 895-915.

	Thickness (feet)	Depth (feet)
Limestone: gray, dense, crystalline, sandy, coarsely glauconitic; interbedded marl, light-gray, silty, micaceous, carbonaceous, glauconitic (finely disseminated), fossiliferous (some Foraminifera).....	30	945
<i>Reussella subrotundata</i> , <i>Cibicides mauricensis</i> at 915-935.		
Indurated sand: as above, but fossiliferous (a coquina).....	20	965
No samples.....	20	985
Limestone: gray, dense, coarsely glauconitic, sandy, fossiliferous (abundant macroshells and some Foraminifera).....	20	1,005
Sand: fine to coarse-grained, phosphatic.....	80	1,085
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, somewhat fissile, silty, lignitic, micaceous; interbedded sand, fine to medium grained.....	170	1,255
<i>Siphonina prima</i> at 1165-1185.		
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Limestone: gray to white at depth, dense, crystalline, sandy, coarsely glauconitic, fossiliferous (casts and molds of megafossils, bryozoan remains, and Foraminifera).....	40	1,295
<i>Robulus</i> sp., <i>Discorbis midwayensis</i> , <i>Discorbis midwayensis</i> var. <i>trinitatensis</i> , <i>Sigmomorphina semitecta</i> var., <i>Valvulineria scrobiculata</i> , <i>Eponides lotus</i> , <i>Siphonina wilcoxensis</i> , <i>Cibicides howelli</i> at 1275-1295.		
Sand: fine to coarse-grained.....	20	1,315
<b>In Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Sand: as above; some clay, chocolate-brown to dark-gray, micaceous, somewhat fissile.....	20	1,335
Sand: fine to coarse-grained, angular, arkosic, grains of "rose quartz".....	80	1,415
No samples.....	140	1,555
Clay: brown, carbonaceous, very micaceous, pyritiferous, fossiliferous (macroshells and Foraminifera at certain levels); interbedded sand, fine to coarse-grained, angular.....	320	1,875
<i>Planulina taylorensis</i> at 1695-1715.		
<i>Kyphopyxa christneri</i> at 1795-1815.		
Sand: fine to coarse-grained, angular, highly micaceous, abundantly phosphatic; interbedded shale, dark-gray, fissile, micaceous (finely disseminated, "speckled").....	180	2,005
No samples.....	30	2,035

	Thickness (feet)	Depth (feet)
<b>In Tuscaloosa Formation:</b>		

Sand: fine to coarse-grained, angular; interbedded clay, yellowish-green, fissile, micaceous, somewhat carbonaceous.....	90	2,125
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**Summary:**

No samples .....	765	765
In middle Eocene (Claiborne group, undifferentiated).....	320	1,085
Lower Eocene (Wilcox group, undifferentiated).....	170	1,255
Paleocene (Clayton formation).....	60	1,315
In Upper Cretaceous (post-Tuscaloosa, undifferentiated).....	690	2,005
No samples .....	30	2,035
In Upper Cretaceous (Tuscaloosa formation).....	90	2,125

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	80	1,085
Sand: fine to coarse-grained.....	80	1,415

**Remarks:**

The Ocala limestone lies somewhere in the interval 0-765 and constitutes an additional source of ground water besides being at a much shallower depth below land surface datum than the aquifers noted above.

**TURNER COUNTY**

Location: 0.7 mi. northwest of Coverdale  
 Owner: No. 1 C. W. Dearso  
 Driller: Winter Hardware Company  
 Drilled: October 1942

Well No.: GGS 2  
 Elev.: 413

	Thickness (feet)	Depth (feet)
No samples .....	10	10

**In Miocene (Undifferentiated):**

Clay: gray, sandy; interbedded sand, fine to coarse-grained, angular.....	70	80
Clay: yellowish-green, sandy; interbedded sand, as above.....	155	235

**Oligocene (Undifferentiated):**

Limestone: white, dense, nodular, calcitized, fossiliferous (bryozoan remains and some Foraminifera).....	25	260
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*Rotalia mexicana* var. at 240-260.