

**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>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Sand: fine to coarse-grained, somewhat indurated, glauconitic at depth, fossiliferous (macroshells).....	40	70
<b>Middle Eocene: Claiborne Group: Lisbon Formation:</b>		
Marl: gray, glauconitic, fossiliferous (macroshells, bryozoan remains, and Foraminifera); some sand, as above.....	20	90
<i>Asterigerina</i> sp., <i>Cibicides westi</i> at 80-90.		
Limestone: gray, coarsely glauconitic, sandy; some marl, as above.....	20	110
<b>Tallahatta Formation:</b>		
Sand: fine to medium-grained, fossiliferous (macroshells).....	30	140
<b>Summary:</b>		
Residuum.....	30	30
Upper Eocene (Ocala limestone).....	40	70
Middle Eocene (Lisbon formation).....	40	110
Middle Eocene (Tallahatta formation).....	30	140
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained.....	30	140

## SUMTER COUNTY

Location: Near intersection of Virginia and Harold Sts.,  
opposite City High School, east side of Harold St., in  
Americus Well No.: GGS 333  
Elev.: 380

Owner: City of Americus  
Driller: Layne-Atlantic Company  
Drilled: January 1953

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: mottled, sandy, limonitic.....	30	30
Sand: fine to coarse-grained, subangular, limonitic.....	32	62
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Clay: dark-gray, silty, carbonaceous, micaceous.....	34	96

	Thickness (feet)	Depth (feet)
Clay: dark-gray, silty, micaceous, abundantly glauconitic, fossiliferous (some Foraminifera).....	12	108
<i>Robulus</i> sp., <i>Valvulineria scrobiculata</i> , <i>Eponides dorfi</i> at 96-108.		
Sand: fine to coarse-grained, subangular, arkosic; relatively thin stringers of clay (or fuller's earth), light-gray, silty, blocky, carbonaceous, micaceous.....	62	170
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay (or fuller's earth): as above; some fissile clay, black, carbonaceous, micaceous, fossiliferous (some Foraminifera).....	26	196
<i>Ammobaculites</i> sp., <i>Nodosaria affinis</i> , <i>Robulus</i> sp., <i>Eponides lotus</i> , <i>Discorbis midwayensis</i> , <i>Cibicides newmanae</i> , <i>Cibicides howelli</i> at 190-198.		
Limestone: light-gray, dense, crystalline, sandy, glauconitic at depth, fossiliferous (casts and molds of megafossils, bryozoan remains, and Foraminifera).....	18	214
<b>Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):</b>		
Clay or kaolin: light-gray, somewhat waxy, blocky.....	4	218
Sand: fine to coarse-grained, angular, grains of "rose quartz".....	14	232
Marl: dark bluish-gray, chalky, silty, micaceous, fossiliferous (some macro- and microfossils at certain levels); interbedded sand, fine to medium-grained.....	58	290
<i>Epistomina caracolla</i> at 238-280.		
Limestone: gray, dense, crystalline, sandy.....	14	304
Marl: as above, sandier with depth.....	18	322
Sand: fine to coarse-grained, angular; interbedded marl, as above.....	27	349
Marl: as above.....	33	382
Sand: fine to coarse-grained, angular; interbedded marl, as above.....	44	426
Marl: as above; interbedded sand, fine to medium-grained, angular.....	36	462
Sand: fine to coarse-grained, angular.....	8	470
Sand: fine to medium-grained, angular; interbedded marl, as above.....	70	540
Sand: fine to coarse-grained, angular.....	20	560

	Thickness (feet)	Depth (feet)
Marl or shale: dark-brown, somewhat fissile, silty, carbonaceous, highly micaceous.....	19	579
Sand: fine to coarse-grained, angular; interbedded marl, dark-brown, fissile, carbonaceous, silty, highly micaceous.....	405	984

**Summary:**

Middle Eocene (Tallahatta formation).....	62	62
Lower Eocene (Wilcox group, undifferentiated).....	108	170
Paleocene (Clayton formation).....	44	214
Upper Cretaceous (post-Tuscaloosa, undifferentiated).....	770	984

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	8	170
Sand: fine to coarse-grained.....	14	232
Sand: fine to coarse-grained.....	10	332
Sand: fine to coarse-grained.....	9	349
Sand: fine to coarse-grained.....	12	394
Sand: fine to coarse-grained.....	10	408
Sand: fine to coarse-grained.....	8	470
Sand: fine to coarse-grained.....	15	604
Sand: fine to coarse-grained.....	6	630
Sand: fine to coarse-grained.....	8	692
Sand: fine to coarse-grained.....	26	754
Sand: fine to coarse-grained.....	42	800
Sand: fine to coarse-grained.....	24	914

**Remarks:**

Owing to local rugged topography, all relatively shallow-lying aquifers are probably dry through ground-water leakage (i.e. spring discharge) and are doubtful sources of ground water.

**SUMTER COUNTY**

Location: In Andersonville  
 Owner: No. 1 City of Andersonville  
 Driller: Layne-Atlantic Company  
 Drilled: April 1953

Well No.: GGS 342  
 Elev.: 412

	Thickness (feet)	Depth (feet)
<b>Middle Eocene: Claiborne Group: Tallahatta Formation:</b>		
Clay: mottled, sandy, limonitic.....	23	23
Sand: fine to medium-grained, angular.....	60	83
Sand: coarse-grained, angular.....	5	88