

**GEORGIA**  
**STATE DIVISION OF CONSERVATION**  
DEPARTMENT OF MINES, MINING AND GEOLOGY  
GARLAND PEYTON, Director

---

**THE GEOLOGICAL SURVEY**  
Bulletin Number 70

---

**WELL LOGS OF THE**  
**COASTAL PLAIN OF GEORGIA**

by

**Stephen M. Herrick, Geologist**  
United States Geological Survey



Prepared cooperatively by the U. S. Geological Survey

---

**ATLANTA**  
**1961**

	Thickness (feet)	Depth (feet)
<b>Potential Water-Bearing Zones:</b>		
Sand: fine to coarse-grained .....	30	404
Sand: fine to coarse-grained .....	24	444
Sand: fine to coarse-grained .....	102	570
Sand: fine to coarse-grained .....	23	626
Sand: fine to coarse-grained .....	16	672
Sand: fine to coarse-grained .....	30	720

**LEE COUNTY**

Location: 0.45 mi. west of Main Park Entrance, few hundred yards north of caretaker's residence in Chehaw State Park  
 Well No.: GGS 74  
 Elev.: 216  
 Owner: No. 1 Chehaw State Park  
 Drilled: January 1937

	Thickness (feet)	Depth (feet)
<b>In Residuum:</b>		
Sand: coarse-grained, angular .....	37	37
No samples .....	13	50

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

Limestone: cream, nodular, much calcitized, glauconitic at depth, fossiliferous (macroshells, bryozoan remains and Foraminifera) .....	130	180
<i>Operculinoides</i> sp. at 60-70.		
<i>Gypsina globula</i> at 90-100.		
<i>Amphistegina pinarensis</i> var., <i>Operculina mariannensis</i> at 150-160.		

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

Limestone: light-gray, dense, crystalline, sandy, coarsely glauconitic at depth, fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, and Foraminifera) .....	95	275
<i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> at 210-220.		
<i>Asterocyclina monticellensis</i> , <i>Asterigerina</i> sp. at 220-230.		
Glauconite prominent at 250-260.		

	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, angular, phosphatic, fossiliferous (common to abundant macroshells); interbedded marl, gray, silty, micaceous.....	105	380
<i>Cibicides tallahattensis</i> at 360-370.		
Limestone: gray, dense, sandy; marl, gray, silty, micaceous, glauconitic (finely disseminated), fossiliferous (Foraminifera) .....	30	410
<i>Valvulineria jacksonensis</i> var. at 380-390.		
<i>Cibicides blaniptedi</i> at 390-400.		
Sand: fine to medium-grained, subangular, phosphatic; interbedded marl, gray, silty, micaceous, fossiliferous (Foraminifera) .....	40	450
Black phosphatic pebbles prominent at 410-420.		
Fish teeth prominent at 430-440.		
Limestone (or buhrstone): dark-gray to brown, very dense, crystalline, sandy, cherty; some marl, as above.....	20	470
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Indurated sand: fine to coarse-grained, coarsely and abundantly glauconitic, fossiliferous (Foraminifera).....	50	520
<i>Valvulineria wilcoxensis</i> , <i>Cibicides howelli</i> , <i>Eponides dorfi</i> at 480-490.		
Marl: dark-gray, silty, micaceous, carbonaceous.....	40	560
Sand: fine to coarse-grained, angular, green quartz grains.....	10	570
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Indurated sand: fine to medium-grained, glauconitic, fossiliferous (macroshells and Foraminifera); interbedded clay, black, fissile, carbonaceous, micaceous (finely disseminated) .....	50	620
<i>Operculinoides catenula</i> at 570-580.		
<i>Discorbis midwayensis</i> var. <i>trinitatensis</i> at 590-600.		
Limestone: light-gray, dense, crystalline, coarsely but sparsely glauconitic, fossiliferous (carrying fragments, casts and molds of megafossils and bryozoan remains) .....	100	720
Limestone: as above, but very sandy.....	10	730
Sand: medium-grained, angular.....	30	760

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Providence Sand:</b>		
Indurated sand: medium-grained, angular.....	30	790
Marl: gray, silty, chalky, fossiliferous (Foraminifera).....	10	800

*Anomalina pseudopapillosa* at 790-800.

**Summary:**

Residuum .....	37	37
No samples .....	13	50
In upper Eocene (Ocala limestone).....	130	180
Middle Eocene (Lisbon formation).....	95	275
Middle Eocene (Tallahatta formation).....	195	470
Lower Eocene (Wilcox group, undifferentiated).....	100	570
Paleocene (Clayton formation).....	190	760
Upper Cretaceous (Providence sand).....	40	800

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	105	380
Sand: fine to medium-grained.....	40	450
Sand: fine to coarse-grained.....	10	570
Limestone.....	100	729
Sand: fine to medium-grained.....	30	760

**LEE COUNTY**

Location: Approximately 3.5 mi. northeast of center of Well No.: GGS 270  
 Leesburg, 0.5 mi. south of Muckalee Creek bridge, east Elev.: 265  
 side of State Highway 195, about 20 ft. east of dwelling

Owner: No. 1 Will Gillam

Driller: F. P. Jones

Drilled: February 1952

	Thickness (feet)	Depth (feet)
<b>Residuum:</b>		
Sand: fine to coarse-grained, angular, limonitic.....	25	25

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

Limestone: cream, dense, crystalline, much calcitized, somewhat saccharoidal, porous at certain levels, fossiliferous (remains of macroshells, echinoids and bryozoa and some Foraminifera) .....

45 70

*Operculina* sp., *Lepidocyclina* sp. at 60-70.