

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

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Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

	Thickness (feet)	Depth (feet)
Upper Eocene: Jackson Group: Ocala Limestone		
Limestone: white to cream, calcitized, rather dense and crystalline, fossiliferous (macroshells, echinoid spines and frequent bryozoan remains, and Foraminifera).....	100	140
<i>Operculina mariannensis</i> at 40-50.		
Sand: medium to coarse-grained, angular.....	20	160

Summary:

Residuum	40	40
Upper Eocene (Ocala limestone).....	120	160

Potential Water-Bearing Zones:

Limestone	100	140
Sand: medium to coarse-grained.....	20	160

LEE COUNTY

Location: 10.2 mi. northwest of Leesburg, 0.55 mi. west of Highway 19
 Well No.: GGS 424
 Elev.: 303
 Owner: No. 1 Dixie Pines Company
 Driller: Southeastern Drilling Company
 Drilled: March 1955

	Thickness (feet)	Depth (feet)
Residuum:		
Clay: bluish-gray to tan to red (mottled), very sandy, limonitic	20	20
Sand: fine to medium-grained, angular.....	10	30

Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: yellow, iron-stained, much leached, very sandy, fossiliferous (megafossils, echinoid and bryozoan remains and Foraminifera)	10	40
Sand: fine to coarse-grained, angular.....	16	56
<i>Gypsina globula</i> , <i>Eponides jacksonensis</i> at 50-60.		

Middle Eocene: Claiborne Group: Lisbon Formation:

Limestone: cream, sandy, glauconitic (finely disseminated), fossiliferous (macroshells and bryozoan remains); interbedded marl, gray, silty, glauconitic (finely disseminated), fossiliferous (Foraminifera)	18	74
<i>Siphonina claibornensis</i> , <i>Gyroidina soldanii</i> var., <i>Cibicides americanus</i> , <i>Cibicides westi</i> at 60-70.		

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, angular; interbedded marl and limestone, as above.....	64	138
Tallahatta Formation:		
Marl: gray, silty, glauconitic (finely disseminated), fossiliferous (Foraminifera)	4	142
<i>Planularia</i> sp., <i>Cibicides americanus</i> var., <i>Cibicides westi</i> , <i>Cibicides tallahattensis</i> at 130-140.		
Sand: fine to coarse-grained, angular, phosphatic, fossiliferous (macroshells at certain levels); interbedded marl, gray, silty, glauconitic (finely disseminated), fossiliferous (Foraminifera); and limestone, gray, dense, sandy, cherty, fossiliferous (macroshells)	78	220
Macroshells prominent at 170-180.		
<i>Valvulineria jacksonensis</i> var., <i>Siphonina claibornensis</i> , <i>Nonion advena</i> , <i>Cibicides tallahattensis</i> , <i>Cibicides blampiedi</i> at 170-180.		
Lower Eocene: Wilcox Group (Undifferentiated):		
Clay: tan to olive-green to red (mottled), dark-gray at depth, glauconitic, carbonaceous, micaceous, pyritiferous at depth.....	80	300
Sand: fine to coarse-grained, angular, abundantly glauconitic, contains grains of pale-green quartz.....	25	325
Paleocene(?):		
Sand: as above; interbedded clay, light-gray, blocky, somewhat indurated, micaceous, carbonaceous.....	25	350
Paleocene: Midway Group: Clayton Formation:		
Clay: dark-gray, carbonaceous, micaceous; interbedded sand, fine to coarse-grained, angular, somewhat indurated; and limestone, light-gray, dense, crystalline, coarsely but sparsely glauconitic, sandy, fossiliferous (fragments, casts and molds of megafossils, bryozoan remains and Foraminifera)....	34	384
<i>Discorbis midwayensis</i> , <i>Valvulineria scrobiculata</i> , <i>Siphonina prima</i> , <i>Eponides lotus</i> , <i>Cibicides newmanae</i> at 370-380.		
Limestone: light-gray to white, crystalline, coarsely but sparsely glauconitic, sandy, fossiliferous (as above)	46	430
<i>Robulus midwayensis</i> , <i>Eponides lotus</i> , <i>Anomalina midwayensis</i> , <i>Cibicides howelli</i> at 380-390.		
No samples	50	480

Thickness
(feet) / Depth
(feet)

In Upper Cretaceous: Providence and Ripley (Undifferentiated):

Marl: dark-bluish-gray, sandy, somewhat chalky, micaceous, pyritiferous, fossiliferous at certain levels (macroshells, Ostracods and Foraminifera); interbedded sand, fine to coarse-grained, angular, indurated, fossiliferous (a coquina at certain levels) 210 690

Anomalina pseudopapillosa at 480-490.

Gaudryina rudita at 620-630.

Vaginulina webbervillensis at 680-690.

Summary:

Residuum	30	30
Upper Eocene (Ocala limestone)	26	56
Middle Eocene (Lisbon formation)	82	138
Middle Eocene (Tallahatta formation)	82	220
Lower Eocene (Wilcox group, undifferentiated)	105	325
Paleocene (?)	25	350
Paleocene (Clayton formation)	80	430
No samples	50	480
In Upper Cretaceous (Providence and Ripley, undifferentiated)	210	690

Potential Water-Bearing Zones:

Sand: fine to coarse-grained	18	160
Sand: fine to coarse-grained	25	325
Sand: fine to coarse-grained	10	350
Limestone	46	430
Sand: fine to coarse-grained	46	602

Remarks:

On the basis of the electric log, top of the Upper Cretaceous is probably at 460.

LIBERTY COUNTY

Location: 1.6 mi. northwest of County Courthouse at Well No.: GGS 6
Hinesville, and about 200 yd. southwest of Taylors Creek Rd. at Camp Stewart Elev.: 91

Owner: U. S. Government (War Department)

Driller: Layne-Atlantic Company

Drilled: November 1940

Thickness
(feet) / Depth
(feet)

Pliocene to Recent (Undifferentiated):

Sand: fine to medium-grained, finely disseminated phosphatic grains	100	100
Sand: coarse-grained, arkosic	50	150