

**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>Summary:</b>		
Pliocene to Recent (undifferentiated) .....	44	44
In Miocene (Duplin marl) .....	27	71
Miocene (Hawthorn formation) .....	439	510
Oligocene (undifferentiated) .....	50	560

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	60	220
Limestone .....	50	560

**WAYNE COUNTY**

Location: 1500 ft. south of Altamaha River at Doctortown  
 Owner: No. 1 Rayonier Corporation  
 Driller: Layne-Atlantic Company  
 Drilled: January 1952

Well No.: GGS 262  
 Elev.: 100

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: medium-grained to coarse-grained at depth, subangular to subrounded, arkosic; interbedded clay (or kaolin?), white, sandy, micaceous .....	40	40
<b>Miocene (Undifferentiated):</b>		
Clay: pale-brownish-gray to dark-brown at depth, somewhat mottled (with red streaks), sandy, micaceous .....	15	55
Clay: dark to pale green, sandy, phosphatic; beds of sand .....	305	360
Sand: fine to coarse-grained, phosphatic; interbedded limestone, white, dense (much calcitized), sandy, phosphatic .....	140	500
Dolomitic limestone: brown, saccharoidal, sandy, phosphatic .....	25	525
No samples .....	5	530
<b>In Oligocene (Undifferentiated):</b>		
Limestone: gray, dense (much calcitized), nodular, fossiliferous (some Foraminifera) .....	15	545
<i>Operculinoides</i> sp. at 530-545.		

	Thickness (feet)	Depth (feet)
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, dense (much calcitized), fossiliferous (bryozoan remains, macroshells, and Foraminifera).....	305	850
<i>Gypsina globula</i> , <i>Asterocyclina nassauensis</i> at 545-555.		
<i>Camerina striatoreticulata</i> at 710-715.		
<i>Amphistegina pinarensis</i> var. at 720-725.		

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

Dolomitic limestone: brown, saccharoidal.....	50	900
---	----	-----

**Summary:**

Pliocene to Recent (undifferentiated).....	40	40
Miocene (undifferentiated).....	485	525
No samples.....	5	530
In Oligocene (undifferentiated).....	15	545
Upper Eocene (Ocala limestone).....	305	850
Middle Eocene (Claiborne group, undifferentiated).....	50	900

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained.....	52	187
Sand: fine to coarse-grained.....	41	310
Sand: fine to coarse-grained.....	140	500
Limestone.....	270	815

**WAYNE COUNTY**

Location: East side of U.S. Highway 25, south side of Altamaha River, at Rayonier Plant  
 Well No.: GGS 297  
 Elev.: 100  
 Owner: No. 1 Rayonier Inc.  
 Driller: Layne-Atlantic Company  
 Drilled: April 1952

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, finely disseminated phosphatic grains; interbedded kaolin, white, somewhat sandy.....	38	38
No samples.....	120	158
<b>In Miocene (Undifferentiated):</b>		
Sand: fine to coarse-grained, rounded, phosphatic.....	60	218
Clay: dark-green, sandy.....	42	260