

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)

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

	Thickness (feet)	Depth (feet)
In Miocene (Undifferentiated):		
Sand: coarse-grained, arkosic; and clay, dark-green, silty.....	100	250
Limestone: white, sandy, phosphatic; sand and clay, as above....	10	260
Clay: dark-green, silty, phosphatic	75	335
Sand: fine to coarse-grained, phosphatic	20	355
No samples	40	395
Clay: as above; dolomitic limestone, brown, saccharoidal, sandy, phosphatic	40	435
Dolomitic limestone: brown, saccharoidal, sandy, phosphatic; limestone, white, very sandy, phosphatic	10	445
No samples	26	471
Limestone: light-gray to white, dense (much calcitized), sandy, phosphatic, fossiliferous (casts and molds of mega- fossils)	?	471
No samples	20	491

In Oligocene (Undifferentiated):

Limestone: as above; fragments of cream limestone, nodular (much calcitized), fossiliferous (Foraminifera)	?	491
No samples	20	511

In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: light-gray, saccharoidal (much calcitized), crys- talline, fossiliferous (abundant bryozoan remains and Foraminifera)	305	816
<i>Operculinoides</i> sp., <i>Gypsina globula</i> , <i>Asterocyclina nas-</i> <i>sauensis</i> at 511.		
<i>Amphistegina pinarensis</i> var. at 730-750.		

Summary:

Pliocene to Recent (undifferentiated)	150	150
In Miocene (undifferentiated)	321	471
No samples	20	491
In Oligocene (undifferentiated)	?	491
No samples	20	511
In upper Eocene (Ocala limestone)	305	816

Potential Water-Bearing Zones:

Sand: coarse-grained	50	150
Sand: fine to coarse-grained	20	355
Limestone	315	816