

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

CHATHAM COUNTY

Location: West side of Atlantic Coast Line R.R., east side of Travis Air Force Base, Port Wentworth
 Well No.: GGS 62
 Owner: No. 1 Cherokee Hill
 Drilled: 1920
 Elev.: 22

Thickness
(feet)

Depth
(feet)

Pliocene to Recent (Undifferentiated):

Sand: fine-grained; inclusions of kaolin, white, sandy, mica-
 ceous 42 42

Miocene (Undifferentiated):

Clay: dark-green, sandy, phosphatic, gypsiferous at certain
 levels 118 160

Brown to black, polished, phosphatic pebbles abundant at
 120-130.

Dolomitic limestone: light-brown, saccharoidal, sandy; some
 clay, dark-green, sandy, phosphatic..... 40 200

Clay, as above..... 21 221

No samples 59 280

In Oligocene (Undifferentiated):

Limestone: light-gray, rather dense, nodular (calcitized),
 somewhat sandy, fossiliferous (echinoid and bryozoan re-
 mains, and some Foraminifera)..... 30 310

*Discocyclina*¹ sp., *Dictyoconus*¹ sp., *Textularia* sp., *Nonion-
 ella hantkeni* var., *Discorbis*, cf. *D. tentoria*, *Cibicides loba-
 tulus*, *Nonion advena*, *Reussella oligocenica* at 280-290.

Rotalia mexicana var. at 300-310.

Limestone: cream, massive, saccharoidal at depth, fossilifer-
 ous (fragments, casts and molds of Gastropods, echinoid and
 bryozoan remains, and Foraminifera)..... 50 360

*Gypsina globula*¹, *Asterocyclina*¹ sp., *Pyrgo* sp., *Rotalia
 mexicana* var., *Cibicides lobatulus* at 310-320.

Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: light-gray, dense, massive (much calcitized); fos-
 siliferous (macroshells, abundant bryozoan remains, and
 some Foraminifera) 30 390

Asterocyclina sp., *Operculinoides* sp., *Gypsina globula* at
 370-380.

¹Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone: white, crystalline (much calcitized), massive, fossiliferous (macroshells, abundant bryozoan remains, and Foraminifera)	50	440
<i>Asterocyclina nassauensis</i> at 390-400.		
Limestone: light-gray, saccharoidal, crystalline (highly calcitized), coarsely glauconitic, fossiliferous (abundant echinoid and bryozoan remains, and some Foraminifera)	55	495
No samples	5	500
Limestone: cream, granular, sandy at depth, fossiliferous (abundant echinoid and bryozoan remains and abundant "larger Foraminifera")	170	670
<i>Camerina</i> cf. <i>C. striatoreticulata</i> at 525.		
No samples	40	710
In Middle Eocene: Claiborne Group: Lisbon Formation:		
Limestone: light-gray, massive, somewhat saccharoidal, coarsely glauconitic, somewhat fossiliferous (echinoid and bryozoan remains, and some Foraminifera)	40	750
<i>Asterocyclina monticellensis</i> at 730.		
No samples	30	780
Limestone: white, massive (much calcitized), cherty, fossiliferous (macroshells, bryozoan remains, and some Foraminifera)	80	860
<i>Operculinoides</i> sp. at 780.		
No samples	30	890
Limestone: cream, granular, cherty	60	950
Brown chert abundant at 890.		
No samples	60	1,010
In Tallahatta Formation:		
Limestone: as above, but coarsely glauconitic and fossiliferous (abundant Foraminifera)	260	1,270
<i>Cibicides blanpiedi</i> , <i>Cibicides tallahattensis</i> at 1010.		
No samples	90	1,360

	Thickness (feet)	Depth (feet)
In Lower Eocene and Paleocene (Undifferentiated):		
Sand: fine to medium-grained, abundantly glauconitic.....	?	1,360
No samples	30	1,390
Marl: light-gray, somewhat indurated, glauconitic, fossiliferous (Ostracods and abundant Foraminifera).....	20	1,410
<i>Spiroplectamina wilcoxensis</i> , <i>Vaginula longiforma</i> , <i>Bolivina midwayensis</i> , <i>Bulimina quadrata</i> , <i>Siphonina wilcoxensis</i> , <i>Siphonina prima</i> , <i>Gyroidina aequilateralis</i> , <i>Chilostomeloides eocenica</i> , <i>Discorbis cf. D. midwayensis</i> , <i>Anomalina sp.</i> at 1390.		
No samples	20	1,430
Limestone: dark-gray, crystalline, very dense, somewhat argillaceous, coarsely glauconitic.....	?	1,430
No samples	110	1,540
Marl: light-gray to dark-brown at depth, somewhat indurated, glauconitic, pyritiferous, fossiliferous (Ostracods and Foraminifera)	50	1,590
<i>Polymorphina cushmani</i> at 1590.		
No samples	20	1,610

In Upper Cretaceous (Undifferentiated):

Marl: dark-bluish-gray, silty, pyritiferous, micaceous; interbedded sand, fine to medium-grained, micaceous, pyritiferous, fossiliferous (Ostracods and Foraminifera).....	520	2,130
<i>Dorothia bulletta</i> , <i>Bulimina pupoides</i> , <i>Anomalina sp.</i> at 1650.		
<i>Clavulinoides trilatera</i> at 1690.		
<i>Gaudryina rudita</i> , <i>Loxostoma plaitum</i> , <i>Bulimina pupoides</i> , <i>Globotruncana arca</i> , <i>Cibicides harperi</i> at 1710.		
<i>Gaudryina rudita</i> , <i>Anomalina henbesti</i> at 2070.		

Summary:

Pliocene to Recent (undifferentiated).....	42	42
Miocene (undifferentiated).....	179	221
No samples	59	280
In Oligocene (undifferentiated).....	80	360
Upper Eocene (Ocala limestone).....	310	670
No samples	40	710
In middle Eocene (Lisbon formation).....	240	950

	Thickness (feet)	Depth (feet)
No samples	60	1,010
In middle Eocene (Tallahatta formation)	260	1,270
No samples	90	1,360
In lower Eocene and Paleocene (undifferentiated)	230	1,590
No samples	20	1,610
In Upper Cretaceous (undifferentiated)	520	2,130

Potential Water-Bearing Zones:

Limestone	730	1,010
-----------------	-----	-------

CHATHAM COUNTY

Location: Abercorn and 59th Street, Savannah
 Owner: City of Savannah
 Driller: Layne-Atlantic Company
 Drilled: May 1941

Well No.: GGS 80
 Elev.: 18

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Pliocene to Recent (Undifferentiated):

Sand: fine-grained to coarser-grained at depth; interbedded clay, dark-gray to black, somewhat fissile, silty, lignitic, micaceous, fossiliferous (macroshells)	60	60
Clay: gray to dark-green, sandy, somewhat phosphatic	20	80
Sand: coarse-grained, rounded, arkosic; some clay, as above	2	82
Sand: as above; fragments of dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic	2	84
No samples	31	115

In Miocene (Undifferentiated):

Clay: dark-green, sandy, phosphatic	115	230
Dolomitic limestone: light-brown, saccharoidal, sandy, fossiliferous (casts and impressions of megafossils); interbedded limestone, light-gray, dense (much calcitized), somewhat nodular, sandy, phosphatic	20	250
No samples	20	270