

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

THE GEOLOGICAL SURVEY
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WELL LOGS OF THE
COASTAL PLAIN OF GEORGIA

by

Stephen M. Herrick, Geologist
United States Geological Survey



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ATLANTA
1961

CHATHAM COUNTY

Location: On White Bluff Road, 700 ft. west and 0.3 mi.
north of Buckhalter Road, Savannah

Well No.: GGS 125
Elev.: 21

Owner: No. 1 J. M. Breckenridge

Driller: Layne-Atlantic Company

Drilled: January 1940

Thickness (feet)	Depth (feet)
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Pliocene to Recent (Undifferentiated):

Sand: fine to medium-grained, arkosic, finely disseminated phosphatic grains; interbedded clay, dark-gray, silty, lignitic, micaceous	60	60
No samples	20	80
Sand: coarse-grained, arkosic, subrounded	?	80
No samples	20	100

In Miocene (Undifferentiated):

Clay: dark-green, sandy, phosphatic	120	220
Brown to black, phosphatic pebbles abundant at 220.		
No samples	20	240
Clay: as above; some dolomitic limestone, light-brown, saccharoidal, sandy	13	253
No samples	22	275

In Oligocene (Undifferentiated):

Limestone: light-gray, dense, sandy, nodular, fossiliferous (echinoid and bryozoan remains and Foraminifera)	70	345
<i>Pyrgo</i> sp. at 270.		
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 295.		
<i>Operculinoides</i> sp., <i>Nonionella hantkeni</i> var. at 320.		
No samples	30	375

In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: light-gray to white at depth, much calcitized, crystalline, fossiliferous (abundant bryozoan remains, Ostracods, and some Foraminifera)	145	520
<i>Operculinoides floridensis</i> at 375.		
<i>Pseudophragmina flintensis</i> , <i>Gypsina globula</i> , <i>Asterocyclina</i> sp. at 400.		

	Thickness (feet)	Depth (feet)
No samples	20	540
Limestone: cream, granular (highly calcitized), sparsely glauconitic, fossiliferous (abundant bryozoan remains and "larger Foraminifera," many of which are impregnated with glauconite)	60	600
<i>Operculina mariannensis</i> , <i>Camerina striatoreticulata</i> at 540.		

Summary:

Pliocene to Recent (undifferentiated)	80	80
No samples	20	100
In Miocene (undifferentiated)	153	253
No samples	22	275
In Oligocene (undifferentiated)	70	345
No samples	30	375
In upper Eocene (Ocala limestone)	225	600

Potential Water-Bearing Zones:

Limestone	325	600
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Remarks:

Sample intervals too large to permit picking of satisfactory formational tops.

CHATHAM COUNTY

Location: South bank of Savannah River, in Savannah Well No.: GGS 377
 Owner: No. 1 American Cyanamid Company Elev.: 15
 Driller: M. M. Gray Drilling Company
 Drilled: May 1954

Pliocene to Recent (Undifferentiated):

Clay: light to dark-gray, silty, lignitic, finely disseminated phosphatic grains	40	40
Sand: fine to coarse-grained, arkosic, subangular	10	50

Miocene (Undifferentiated):

Clay: dark-green, sandy, phosphatic	84	134
Clay: as above; interbedded dolomitic limestone, light-brown, saccharoidal, sandy, phosphatic	32	166

Reddish-brown phosphatic pellets abundant at 134-140.