

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: In Bloomingdale
 Owner: No. 1 Lowman
 Driller: Layne-Atlantic Company
 Drilled: 1954

Well No.: GGS 394

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Clay: dark-gray to tan to red (mottled), very sandy, limonitic.....	5	5
Sand: very coarse-grained (up to gravel size), subrounded, arkosic; interbedded clay, dark-brown, somewhat indurated and tough, silty, lignitic, micaceous (finely disseminated flakes)	55	60
In Miocene (Undifferentiated):		
Clay: dark-green, sandy, phosphatic, micaceous.....	35	95
Phosphatic fragments common at 75-85.		
Indurated sand (or sandstone): yellowish-green to dark-green, somewhat iron-stained, fine-grained, argillaceous, micaceous (finely disseminated flakes).....	31	126
Clay: dark-green, sandy, somewhat blocky, phosphatic.....	134	260
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic	18	278
Limestone: light-gray to white, dense, sandy, phosphatic, fossiliferous (fragments and casts of megafossils).....	7	285
Oligocene (Undifferentiated):		
Limestone: light-gray, rather dense (calcitized), nodular, fossiliferous (echinoid and bryozoan remains, Ostracods and Foraminifera),	5	290
Limestone: white, soft and chalky (weathered), fossiliferous (as above)	10	300
<i>Rotalia mexicana</i> var. at 280-290.		
<i>Asterocyclina</i> ¹ sp. at 290-300.		
Limestone: yellow, saccharoidal (much calcitized and recrystallized), fossiliferous (fragments and molds of Gastropods, echinoid and bryozoan remains, Ostracods, and Foraminifera)	10	310
<i>Quinqueloculina</i> sp., <i>Dictyoconus</i> ¹ sp., <i>Gypsina globula</i> ¹ sp., <i>Discorbis</i> ? sp. at 300-310.		

¹Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Summary:		
Pliocene to Recent (undifferentiated).....	60	60
In Miocene (undifferentiated).....	225	285
Oligocene (undifferentiated).....	25	310

Potential Water-Bearing Zones:

Limestone.....	25	310
----------------	----	-----

CHATHAM COUNTY

Location: Strachan Ave. near Vernon River, Savannah Well No.: GGS 395
 Owner: No. 1 Boy Scouts (Savannah)
 Driller: Layne-Atlantic Company
 Drilled: 1954

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine to medium-grained, angular, arkosic, finely disseminated phosphatic grains.....	25	25
Clay: dark-gray, silty, lignitic, micaceous, fossiliferous (macroshells at certain horizons).....	10	35
Sand: coarse-grained, subangular, phosphatic, arkosic.....	10	45
Miocene (Undifferentiated):		
Clay: dark-green, sandy, phosphatic at depth.....	180	225
Reddish-brown, phosphatic fragments common at 107-117.		
Limestone: light-gray, dense, somewhat dolomitized and saccharoidal, sandy, phosphatic, fossiliferous (fragments and casts and molds of megafossils, and some Foraminifera).....	25	250
<i>Elphidium</i> cf. <i>E. discoidale</i> , <i>Cibicides concentricus</i> at 225-230.		
Oligocene (Undifferentiated):		
Limestone: light gray to cream, nodular to granular (in texture); much calcitized, soft (somewhat weathered) and chalky, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera).....	79	329

Rotalia mexicana var., *Nonionella hantkeni* var. at 250-260.