

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)
Lower Eocene and Paleocene (Undifferentiated):		
Clay: brown to olive-green, fissile, greasy appearance, iron-stained, micaceous, sideritic; blocky clay, black, carbonaceous, micaceous (finely disseminated).....	51	146
Upper Cretaceous: Providence Sand:		
Sand: coarse-grained, angular, arkosic, limonitic; interbedded clay, dark-green to tan to red (mottled), iron-stained, greasy appearance, micaceous; inclusions of kaolin, white, micaceous	62	208
Summary:		
Middle Eocene (Claiborne group, undifferentiated).....	95	95
Lower Eocene and Paleocene (undifferentiated).....	51	146
Upper Cretaceous (Providence sand).....	62	208

Potential Water-Bearing Zones:

Sand: coarse-grained	9	156
Sand: coarse-grained	30	192

Remarks:

Samples of poor quality.

SCREVEN COUNTY

Location: Approximately 100 yd. west of Savannah-Atlanta R.R., east side of Municipal Baseball Park, in Sylvania

Well No.: GGS 295
Elev.: 202

Owner: No. 3 City of Sylvania

Driller: Stevens and Southern Well Drilling Company

Drilled: April 1952

	Thickness (feet)	Depth (feet)
Miocene (Undifferentiated):		
Sand: fine to coarse-grained, subangular, arkosic; with some clay, tan to red (mottled), sandy.....	10	10
Clay: bluish-gray to tan to red (mottled), sandy, micaceous; sand, fine-grained, with finely disseminated black pebbles of phosphate	10	20
Sand: fine to coarse-grained, subangular, arkosic; some clay, yellowish-green, sandy	105	125

	Thickness (feet)	Depth (feet)
Limestone: light-gray, dense, very sandy, phosphatic, fossiliferous (macroshells)	9	134

Oligocene (Undifferentiated):

Limestone: light-gray to cream at depth, somewhat nodular, massive, fossiliferous (fragments and molds of molluscan shells, echinoid and bryozoan remains, Ostracods and Foraminifera)	86	220
--	----	-----

Quinqueloculina sp., *Pyrgo* sp., *Gypsina globula*, *Asterocyclina*¹ sp. at 135-140.

Upper Eocene: Jackson Group: Cooper Marl:

Limestone: white, rather soft and chalky, fossiliferous (echinoid and bryozoan remains and Foraminifera)	38	258
--	----	-----

Textularia subhauerii, *Textularia hannai*, *Robulus arcuato-striatus* var., *Siphonina jacksonensis*, *Eponides jacksonensis*, *Nonion planatus*, *Gypsina globula* (common) at 225-230.

Textularia adalta, *Textularia dibollensis* var., *Planularia* cf. *P. truncana*, *Marginulina coccoensis*, *Dentalina jacksonensis*, *Nodosaria fissicostata*, *Alabama mississippiensis*, *Reussella sculptilis*, *Angulogerina ocalana*, *Cassidulina subglobosa*, *Cibicides coccoensis*, *Cibicides lobatulus*, *Planulina coccoensis*, and abundant bryozoan remains at 250-255.

Middle Eocene: Claiborne Group: Lisbon Formation:

Limestone: light-gray, dense, very sandy, sparsely phosphatic, fossiliferous (macroshells, echinoid and bryozoan remains)	10	268
Sand: fine to medium-grained	22	290
Indurated sand: fine to medium-grained; thin tongues of limestone, gray, dense, sandy, sparsely glauconitic	40	330
Sand: fine to medium-grained; thin stringers of marl, gray, somewhat sandy	86	416
Sand: fine to coarse-grained	18	434
Limestone: gray, dense, sandy, glauconitic	28	462
Sand: fine to coarse-grained	13	475
Limestone: gray, dense, sandy, glauconitic	15	490

¹Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Summary:		
Miocene (undifferentiated)	134	134
Oligocene (undifferentiated)	86	220
Upper Eocene (Cooper marl)	38	258
Middle Eocene (Lisbon formation)	232	490

Potential Water-Bearing Zones:

Limestone	88	258
Sand: fine to coarse-grained	18	434
Limestone	28	462

SCREVEN COUNTY

Location: At Sewage Treatment Plant in Sylvania
 Owner: City of Sylvania
 Driller: Layne-Atlantic Company
 Drilled: February 1955

Well No.: GGS 413
 Elev.: 210¹

	Thickness (feet)	Depth (feet)
Miocene (Undifferentiated):		
Sand: fine to medium-grained, arkosic, finely disseminated phosphate grains; clay, tan to red (mottled), sandy, limonitic	10	10
Clay: bluish-gray to tan to red (mottled), sandy, limonitic	10	20
Clay: yellowish-green, sandy	20	40
Clay: as above, but much sandier	38	78
Sand: fine to coarse-grained; interbedded limestone, light-gray to white, dense (much calcitized), sandy, phosphatic, fossiliferous (macroshells)	18	91

Oligocene (Undifferentiated):

Limestone: light-gray, very dense (much calcitized), massive, nodular, fossiliferous (some echinoid and bryozoan remains and Foraminifera)

	5	96
--	---	----

Pyrgo sp., *Rotalia mexicana* var., *Gypsina globula*², *Textularia* sp., *Cibicides pseudoungerianus* at 91-96.

Limestone: yellow to white at depth, saccharoidal (highly calcitized), crystalline, nodular, fossiliferous (as above)

	7	103
--	---	-----

*Dictyoconus*² sp. at 96-103.

¹Average elevation based on Georgia State Highway Maps.

²Reworked (?) fossil of middle Eocene age.