

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

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Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

	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)	13	91

Oligocene (Undifferentiated):

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

	5	96
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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
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*Dictyoconus*² sp. at 96-103.

¹Average elevation based on Georgia State Highway Maps.

²Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone: cream, nodular (much calcitized), fossiliferous (as above)	65	168

Canceris vicksburgensis, *Pullenia alazanensis* at 118-128.

Upper Eocene: Jackson Group: Cooper Marl:

Limestone: whiter than above, soft, chalky, weathered (?), fossiliferous (abundant bryozoan remains and Foraminifera)	46	214
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Siphonina jacksonensis, *Gypsina globula*, *Eponides jacksonensis*, *Lepidocyclina* sp. at 168-178.

Discorbis assulata, *Planulina cocoaensis*, *Cibicides cocoaensis*, *Robulus alato-limbatus*, *Robulus arcuato-striatus* var., *Rotalia mexicana* var., *Pyrgo* sp., *Quinqueloculina* sp., *Cibicides lobatulus*, *Cibicides mississippiensis*, *Gypsina globula* at 198-214.

Middle Eocene(?): Claiborne Group: Lisbon Formation:

Sand: fine to coarse-grained, angular, fossiliferous (casts and molds of megafossils)	2	216
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Summary:

Miocene (undifferentiated)	91	91
Oligocene (undifferentiated)	77	168
Upper Eocene (Cooper marl)	46	214
Middle Eocene(?) (Lisbon formation)	2	216

Potential Water-Bearing Zones:

Sand: fine to coarse-grained	13	91
Limestone	123	214
Sand: fine to coarse-grained	2	216

SCREVEN COUNTY

Location:
Owner: No. 1 Arnett Elementary School
Driller: Speedy McQuaig Plumbing Company
Drilled: 1955

Well No.: GGS 462
Elev.: 216

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

Sand: fine to medium-grained, arkosic; clay, bluish-gray to tan to red (mottled), very sandy	10	10
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