

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

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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

	Thickness (feet)	Depth (feet)
Middle Eocene: Claiborne Group (Undifferentiated):		
Limestone: white to gray, argillaceous, sandy, micaceous, carbonaceous, fossiliferous (macroshells and bryozoan remains); clay, brown, micaceous, lignitic.....	5	122
Marl: dark-green, somewhat indurated, sandy, phosphatic (finely disseminated), carbonaceous, fossiliferous (Foraminifera); interbedded sand, fine to coarse-grained, angular, phosphatic	58	180
<i>Buliminella robertsi</i> , <i>Cibicides westi</i> at 155.		
Sand: fine to medium-grained, angular, abundantly glauconitic; interbedded marl, dark gray, silty, coarsely glauconitic, fossiliferous (Foraminifera at certain horizons).....	67	247
<i>Valvulineria jacksonensis</i> var. at 195.		
<i>Anomalina</i> sp. at 225.		
Clay: dark-green to brown, fissile, lignitic; inclusions of kaolin, light-gray, somewhat indurated, sandy, micaceous, lignitic	4	251
Lignite abundant at 250.		

Summary:

No samples	25	25
In upper Eocene (Barnwell formation).....	92	117
Middle Eocene (Claiborne group, undifferentiated).....	134	251

Potential Water-Bearing Zones:

Sand: fine to coarse-grained.....	10	117
Sand: fine to coarse-grained.....	5	127
Sand: fine to medium-grained.....	30	210

JEFFERSON COUNTY

Location: Few miles north of Louisville on U.S. Highway 1, 8th Military District
 Well No.: GGS 480
 Owner: No. 1 Enola Kelly
 Driller: Owen Hembree
 Drilled: October 1955

	Thickness (feet)	Depth (feet)
Miocene (Undifferentiated):		
Clay: brick-red, sandy, limonitic.....	20	20
Sand: fine to medium-grained, phosphatic (finely disseminated)	10	30

	Thickness (feet)	Depth (feet)
Upper Eocene: Jackson Group: Barnwell Formation:		
Marl: gray to yellowish-green, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera); interbedded sand, fine to coarse-grained	80	110
<i>Valvulineria jacksonensis</i> at 30-40.		
Limestone: light-gray, massive, saccharoidal, sandy, sparsely phosphatic, fossiliferous (casts and molds of megafossils)	10	120
Sand: fine to medium-grained, angular, sparsely phosphatic	10	130
Middle Eocene: Claiborne Group (Undifferentiated):		
Indurated marl: dark-green, sandy, coarsely glauconitic, phosphatic, fossiliferous (fragments and molds of megafossils, echinoid and bryozoan remains, Ostracods, and Foraminifera)	20	150
<i>Nonion advena</i> , <i>Cibicides americanus</i> var. <i>antiquus</i> at 140-150.		
Limestone: gray to yellowish-green, massive, saccharoidal, sandy, sparsely phosphatic, fossiliferous (fragments and molds of megafossils)	20	170
No samples	10	180
Sand: fine to medium-grained, angular, phosphatic	20	200
Marl: dark-green, somewhat indurated and fissile, glauconitic; interbedded sand, fine to medium-grained, angular	70	270
Glauconite and siderite nodules prominent at 230-240.		
Sand: fine to coarse-grained, phosphatic; interbedded clay, dark-brown, fissile, carbonaceous, micaceous	50	320
Upper Cretaceous: Tuscaloosa Formation:		
Sand: fine to coarse-grained; and clay, green to red (mottled), fissile	10	330
Sand: fine to coarse-grained, limonitic	70	400
Sand: coarse-grained, angular, arkosic, limonitic, sideritic, pyritiferous; interbedded kaolin, white to gray to red (mottled), micaceous	350	750
Kaolin (mottled) and siderite nodules prominent at 400-410.		
Summary:		
Miocene (undifferentiated)	30	30
Upper Eocene (Barnwell formation)	100	130
Middle Eocene (Claiborne group, undifferentiated)	190	320
Upper Cretaceous (Tuscaloosa formation)	430	750

	Thickness (feet)	Depth (feet)
Potential Water-Bearing Zones:		
Sand: fine to medium-grained.....	10	130
Sand: fine to medium-grained.....	20	200
Sand ¹ : fine to coarse-grained.....	80	400

Remarks:

Samples of very poor quality.

JEFFERSON COUNTY

Location: Northeast of Wadley at Smith's Fish Pond
 Owner: No. 1 W. P. Smith
 Driller: M. M. Gray Drilling Company
 Drilled: June 1957

Well No.: GGS 532
 Elev.: 180²

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

Sand: fine to coarse-grained, angular, arkosic; clay, brick-red, sandy, limonitic.....	30	30
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Oligocene(?) (Undifferentiated):

Limestone: white, crystalline, saccharoidal, very sandy, coarsely glauconitic, fossiliferous (fragments and molds of megafossils, and echinoid and bryozoan remains); interbedded sand, fine to medium-grained.....	35	65
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Upper Eocene: Jackson Group: Barnwell Formation:

Marl: gray to light-brown, silty, indurated at certain levels, carbonaceous, fossiliferous (Foraminifera); interbedded sand, fine to coarse-grained; limestone, light-gray, somewhat saccharoidal, sandy, sparsely phosphatic, glauconitic, fossiliferous (fragments and molds of megafossils).....	185	250
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Limestone prominent at 70-80.

Valvulineria jacksonensis at 80-90.

Nonion advena at 100-110.

Discorbis assulata at 140-150.

Sand at 220-250.

¹Additional sand aquifers occur below 400', but owing to poor samples cannot be delineated.
²Average elevation based on Georgia State Highway Maps.