

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)
Clay: brick-red, micaceous, sandy.....	21	464
Sand: fine to coarse-grained; interbedded clay, gray to dark- brown to black to mottled, micaceous, somewhat sandy, lig- nitic	163	627
Sand: fine to coarse-grained, very coarse-grained and gravelly at depth; interbedded clay, gray to green to red, somewhat fissile, micaceous, sandy.....	244	871

Basement Complex (Undifferentiated):

Crystalline rock	1.5	872.5
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Summary:

Miocene (Hawthorn formation)	50	50
Oligocene(?) (undifferentiated)	80	130
Upper Eocene (Barnwell formation).....	130	260
Upper Cretaceous (Tuscaloosa formation).....	611	871
Basement complex (undifferentiated).....	1.5	872.5

Potential Water-Bearing Zones:

Sand: fine to coarse-grained.....	13	130
Sand: fine to coarse-grained.....	5	202
Sand: fine to coarse-grained.....	6	403
Sand: fine to coarse-grained.....	10	443
Sand: fine to coarse-grained.....	76	500
Sand: fine to coarse-grained.....	39	571
Sand: fine to coarse-grained.....	12	593
Sand: fine to coarse-grained.....	29	669
Sand: fine to coarse-grained.....	17	714
Sand: fine to coarse-grained.....	44	786
Sand: fine to coarse-grained.....	14	869

WASHINGTON COUNTY

Location: 2.8 mi. north of Highway 24 at Davisboro and 0.7 mi. west of north-south dirt road, near storage shed

Well No.: GGS 152
Elev.: 392

Owner: Georgia Forest Service
Driller: Layne-Atlantic Company
Drilled: May 1948

Thickness (feet)	Depth (feet)
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Upper Eocene: Jackson Group: Barnwell Formation:

Clay: brick-red, very sandy, limonitic; fragments of residual limestone	33	33
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	Thickness (feet)	Depth (feet)
No samples	17	50
Sand: fine to medium-grained, much coarser-grained at depth, angular; some clay, gray to cream to pink, and scattered fragments of residual limestone	47	97
Sand: fine to coarse-grained; marl, yellowish-green, somewhat fissile, sandy, fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera)	6	103
<i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Valvulineria jacksonensis</i> , <i>Cibicides lobatulus</i> at 97-103.		
Limestone: gray to yellow, dense, somewhat saccharoidal and crystalline (in texture), very sandy, fossiliferous (macroshells, echinoid and bryozoan remains)	2	105
Sand: fine to coarse-grained, angular; some marl, cream to yellowish-green to red (mottled), fossiliferous (macroshells and some microfossils)	48	153
Clay: yellowish-green, noncalcareous, fissile, somewhat bentonitic	28	181
Sand: fine to coarse-grained; some clay, yellowish-green to red (mottled), sandy	24	205
Limestone: gray, dense, saccharoidal, very sandy, sparsely phosphatic, fossiliferous (fragments, casts and molds of megafossils)	14	219
Upper Cretaceous: Tuscaloosa Formation:		
Kaolin: white to gray to pink (mottled), micaceous	47	266
Sand: coarse-grained, angular, limonitic	260	526
Summary:		
Upper Eocene (Barnwell formation)	219	219
Upper Cretaceous (Tuscaloosa formation)	307	526
Potential Water-Bearing Zones:		
Limestone	14	219
Sand: coarse-grained	260	526

Remarks:

Overall quality of samples for this well is poor. Delineation of water-bearing sands below depth of 266 feet is not feasible.