

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

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Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

	Thickness (feet)	Depth (feet)
Oligocene (Undifferentiated):		
Limestone: light-gray to cream at depth, rather massive, somewhat nodular, fossiliferous (bryozoan remains and some Foraminifera)	62	475
<i>Quinqueloculina</i> sp., <i>Rotalia mexicana</i> var. at 413-423.		
<i>Dictyoconus</i> ¹ sp., <i>Quinqueloculina</i> sp. at 423-434.		
<i>Gypsina globula</i> ¹ at 465-475.		
No samples	9	484
In Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: cream, relatively soft and porous, calcitized, granular, fossiliferous (bryozoan remains and some Foraminifera)	114	598
<i>Operculinoides</i> sp. at 484-495.		
<i>Asterocyclina</i> sp., <i>Operculinoides</i> sp. at 505-516.		

Summary:

Pliocene to Recent (undifferentiated)	85	85
Miocene (undifferentiated)	328	413
Oligocene (undifferentiated)	62	475
No samples	9	484
In upper Eocene (Ocala limestone)	114	598

Potential Water-Bearing Zones:

Limestone	114	598
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WASHINGTON COUNTY

Location: 1.4 mi. southwest of junction of Highways 15 and 24 in Sandersville, near east side of Highway 15 near concrete reservoir
 Well No.: GGS 94
 Elev.: 465
 Owner: City of Sandersville well no. 5
 Driller: Layne-Atlantic Company
 Drilled: June 1944

	Thickness (feet)	Depth (feet)
Miocene: Hawthorn Formation:		
Clay: bluish-green to red (mottled), light-gray at depth, blocky, sandy, limonitic	50	50
Upper Eocene: Jackson Group: Barnwell Formation:		
Sand: fine to medium-grained, angular, somewhat indurated.....	5	55

¹Reworked fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone ¹ : white, dense, somewhat saccharoidal (calcitized), sandy, much sandier at depth, cherty, coarsely but sparsely glauconitic, fossiliferous (echinoid and bryozoan remains and Ostracods)	62	117
Sand: fine to coarse-grained, subangular.....	13	130
Marl: light-gray, silty, blocky, fossiliferous (echinoid and bryozoan remains, macroshells, Ostracods, and Foraminifera)	23	153
<i>Elphidium</i> sp., <i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Valvulineria jacksonensis</i> at 132-134.		
Limestone (or coquina): gray, dense, somewhat saccharoidal, very sandy, fossiliferous (fragments and casts and molds of megafossils)	13	166
Marl: light-gray, somewhat indurated, fissile, silty, progressively sandier at depth, carbonaceous, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera).....	16	182
Limestone (or coquina): gray to cream, crystalline to saccharoidal, very sandy, fossiliferous (fragments and molds of megafossils)	5	187
Marl: light-brown, somewhat indurated, fissile, carbonaceous, sandy	10	197
Sand: fine to coarse-grained, angular.....	5	202
Marl: gray, somewhat indurated, fissile, carbonaceous, sandy.....	5	207
Limestone (or coquina): greenish-gray, dense, very sandy, phosphatic (finely disseminated), fossiliferous (casts and molds of megafossils and bryozoan remains).....	53	260
Upper Cretaceous: Tuscaloosa Formation:		
Sand: fine to coarse-grained, angular, limonitic; some clay (or kaolin), gray to red (mottled), micaceous; limestone, "cave" from above.....	6	266
Kaolin: gray, blocky, micaceous, somewhat sandy.....	5	271
Kaolin: white, micaceous, somewhat sandy.....	71	342
Clay: gray to dark-brown, lignitic.....	20	362
Sand: fine to coarse-grained; interbedded thin stringers of clay, as above.....	81	443

¹Probable Sandersville limestone.

	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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