

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)
Potential Water-Bearing Zones:		
Sand: fine to medium-grained.....	10	94
Limestone.....	127	350

LAURENS COUNTY

Location: Dublin
 Owner: City of Dublin
 Driller: Layne-Atlantic Company
 Drilled: May 1955

Well No.: GGS 438
 Elev.: 198

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

Sand: coarse-grained, angular, arkosic; clay, light-gray to red (mottled), sandy, limonitic; residual limestone, white to yellow, iron-stained, dense, crystalline, cherty, sandy, fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, and some Foraminifera).....

	5	5
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Oligocene (Undifferentiated):

Limestone: white to yellow, dense, crystalline, cherty, sandy (sandier at depth), fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, and Foraminifera); interbedded clay, olive-green to tan, sandy.....

	40	45
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Quinqueloculina sp., *Pyrgo* sp., *Asterigerina* cf. *A. subacuta* at 5-28.

*Gypsina globula*¹ at 28-35.

Indurated sand: fine-grained.....

	7	52
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Upper Eocene: Jackson Group: Barnwell Formation:

Marl: gray, silty, fossiliferous (Foraminifera).....

	18	70
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Discorbis cocoaensis, *Nonion advena*, *Nonion inexcavatus*, *Cibicides lobatulus* at 52-56.

Nonion advena common, *Valvulineria jacksonensis* abundant at 56-65.

Limestone: cream, dense, crystalline, very sandy.....

	20	90
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Marl: gray, silty, fossiliferous (Foraminifera).....

	78	168
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Limestone: light-gray to white, somewhat saccharoidal, coarsely glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains and Foraminifera).....

	32	200
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Gypsina globula, *Operculinoides floridensis*, *Lepidocyclina* sp., *Asterocyclina* sp. at 176-200.

¹Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
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Middle Eocene: Claiborne Group (Undifferentiated):

Limestone: gray, dense, saccharoidal, sandy, micaceous, phosphatic (finely disseminated), fossiliferous (fragments, casts and molds of megafossils, and Foraminifera).....	20	220
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Gyroidina soldanii var., *Nonion advena*, *Cibicides americanus* var., *Cibicides* cf. *C. refulgens* at 206-216.

Marl: dark-green, silty, fossiliferous (Ostracods and Foraminifera).....	60	280
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Nonion micrus, *Cibicides americanus* var., *Cibicides westi* at 235-245.

Sericitic clay: yellowish-green to pink, prominent at 245-267.

Limestone: gray to dark-green, argillaceous, dense, carbonaceous, micaceous, coarsely glauconitic, sandy, fossiliferous (fragments, casts and molds of megafossils); interbedded sand, fine to medium-grained, lignitic, phosphatic; and clay, dark-green to brown, somewhat indurated.....	94	374
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Macroshells prominent at 318-328.

Sand: medium to coarse-grained, angular, phosphatic.....	30	404
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Upper Cretaceous: Tuscaloosa Formation:

Sand: coarse-grained, angular; limonitic; interbedded kaolin, gray to red (mottled), micaceous, sandy.....	16	420
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Sand: fine to coarse-grained, angular.....	24	444
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Kaolin: gray to red (mottled), micaceous.....	24	468
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Sand: coarse-grained, angular, sideritic.....	102	570
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Siderite nodules prominent at 478-490.

Sand: fine to coarse-grained, angular, sideritic; interbedded clay (or kaolin), gray to red, micaceous, sandy.....	165	735
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Summary:

Pliocene to Recent (undifferentiated).....	5	5
Oligocene (undifferentiated).....	47	52
Upper Eocene (Barnwell formation).....	148	200
Middle Eocene (Claiborne group, undifferentiated).....	204	404
Upper Cretaceous (Tuscaloosa formation).....	331	735

	Thickness (feet)	Depth (feet)
Potential Water-Bearing Zones:		
Sand: fine to coarse-grained	30	404
Sand: fine to coarse-grained	24	444
Sand: fine to coarse-grained	102	570
Sand: fine to coarse-grained	23	626
Sand: fine to coarse-grained	16	672
Sand: fine to coarse-grained	30	720

LEE COUNTY

Location: 0.45 mi. west of Main Park Entrance, few hundred yards north of caretaker's residence in Chehaw State Park
 Well No.: GGS 74
 Elev.: 216
 Owner: No. 1 Chehaw State Park
 Drilled: January 1937

	Thickness (feet)	Depth (feet)
In Residuum:		
Sand: coarse-grained, angular	37	37
No samples	13	50

In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream, nodular, much calcitized, glauconitic at depth, fossiliferous (macroshells, bryozoan remains and Foraminifera)	130	180
<i>Operculinoides</i> sp. at 60-70.		
<i>Gypsina globula</i> at 90-100.		
<i>Amphistegina pinarensis</i> var., <i>Operculina mariannensis</i> at 150-160.		

Middle Eocene: Claiborne Group: Lisbon Formation:

Limestone: light-gray, dense, crystalline, sandy, coarsely glauconitic at depth, fossiliferous (fragments, casts and molds of megafossils, echinoid and bryozoan remains, and Foraminifera)	95	275
<i>Cibicides pseudoungerianus</i> var. <i>lisbonensis</i> at 210-220.		
<i>Asterocyclina monticellensis</i> , <i>Asterigerina</i> sp. at 220-230.		
Glauconite prominent at 250-260.		