

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

LANIER COUNTY

Location: In Lakeland
 Owner: City of Lakeland
 Driller: Layne-Atlantic Company
 Drilled: May 1953

Well No.: GGS 346
 Elev.: 175¹

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine to medium-grained, inclusions of kaolin; interbedded with clay, light-gray to yellow to red (mottled), very sandy, limonitic	64	64
Miocene (Undifferentiated):		
Clay: light-gray or olive-green, somewhat indurated, cherty, phosphatic (white phosphatic pebbles)	20	84
Sand: fine to medium-grained, phosphatic	10	94
Clay: light-gray to white, indurated, sandy, carbonaceous	11	105
Limestone: light-gray to white, dense (much calcitized), sandy, finely disseminated phosphatic grains	20	125
Clay: turquoise-blue, somewhat indurated, tough, sandy	29	154
Dolomitic limestone: light-brown, saccharoidal, phosphatic	69	223
Oligocene (Undifferentiated):		
Limestone: light-gray to cream, dense (much calcitized), nodular, fossiliferous (Foraminifera)	108	331
<i>Pyrgo</i> sp., <i>Dictyoconus</i> ² sp. at 223.		
<i>Miliolidae</i> prominent at 280-302.		
Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: light-gray, very dense (highly calcitized), massive, fossiliferous (bryozoan and echinoid remains, macroshells, and some Foraminifera)	19	350
<i>Operculinoides</i> sp. at 331-350.		
Summary:		
Pliocene to Recent (undifferentiated)	64	64
Miocene (undifferentiated)	159	223
Oligocene (undifferentiated)	108	331
Upper Eocene (Ocala limestone)	19	350

¹Average elevation based on Georgia State Highway Maps.

²Reworked (?) fossil of middle Eocene age.

	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.