

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

MITCHELL COUNTY

Location: About 5.5 mi. east of Pelham, Land Lot 133, 10th Land District
 Well No.: GGS 109
 Elev.: 338 (derrick floor)
 Owner: No. 1 J. H. Pullen
 Driller: Stanolind Oil and Gas Company
 Drilled: August 1944

	Thickness (feet)	Depth (feet)
Miocene (Undifferentiated):		
Sand: fine to coarse-grained, angular, limonitic, somewhat arkosic; interbedded clay, mottled to light-gray, sandy.....	70	70
Clay: pale-green, sandy; some sand as above.....	60	130
Clay and sand: as above; interbedded limestone, white, sandy....	100	230
Limestone: white, sandy; interbedded clay and sand.....	110	340
Sand: fine to coarse-grained; some clay and limestone.....	20	360
Sand, clay, and limestone: as above; some dolomitic limestone, brown, saccharoidal	10	370
Oligocene (Undifferentiated):		
Limestone, clay, and sand: as above; more nodular limestone with depth, cream, rather massive, fossiliferous in certain zones (macroshells, Ostracods, and Foraminifera).....	25	395
<i>Rotalia byramensis</i> var., at 370-380.		
Upper Eocene: Jackson Group: Ocala Limestone:		
Dolomitic limestone: dark-brown, saccharoidal; interbedded limestone, cream, much calcitized, fossiliferous (macroshells and Foraminifera)	315	710
<i>Gypsina globula</i> at 420-430.		
<i>Asterocyclus nassauensis</i> , <i>Camerina striatoreticulata</i> at 450-460.		
Dolomitic limestone: as above.....	80	790
Middle Eocene: Claiborne Group: Lisbon Formation:		
Limestone: light-gray, sandy, coarsely glauconitic, fossiliferous (macroshells, Ostracods, and Foraminifera); interbedded marl, light-gray, finely glauconitic, fossiliferous (Ostracods and Foraminifera); indurated sand, fine to medium grained, light-gray, finely glauconitic.....	145	935
<i>Lepidocyclina (Polylepidina) antillea</i> at 760-770.		
<i>Siphonina claibornensis</i> , <i>Cibicides westi</i> at 860-870.		

	Thickness (feet)	Depth (feet)
Tallahatta Formation:		
Limestone: light-gray, sandy, somewhat argillaceous, finely glauconitic, fossiliferous (Foraminifera).....	215	1,150
<i>Valvulineria jacksonensis</i> var. <i>persimilis</i> , <i>Valvulineria danvillensis</i> var. <i>gyroidinoides</i> , <i>Cibicides westi</i> , <i>Cibicides tallahattensis</i> at 1045-1060.		
Dolomitic limestone: dark brown, saccharoidal, coarsely glauconitic	45	1,195
In Lower Eocene(?): Wilcox Group (Undifferentiated):		
Indurated sand: fine to medium-grained, coarsely glauconitic, fossiliferous (a coquina).....	30	1,225
No samples	30	1,255
Marl: light-gray, somewhat fissile, silty, carbonaceous, micaceous, glauconitic, fossiliferous (some Foraminifera).....	10	1,265
<i>Robulus</i> sp., <i>Eponides dorfi</i> , <i>Alabamina wilcoxensis</i> , <i>Margulinina</i> sp. at 1255-1265.		
Sand: fine to coarse-grained, micaceous, abundantly glauconitic; interbedded marl, as above.....	60	1,325
Paleocene: Midway Group: Clayton Formation:		
Limestone: white, dense; interbedded sand, fine-grained, limey (somewhat indurated), finely glauconitic, micaceous, fossiliferous (macroshells and some Foraminifera); clay, light-gray, fissile, glauconitic, fossiliferous (Foraminifera).....	100	1,425
<i>Pseudophragmina stephensoni</i> , <i>Operculinoides catenula</i> at 1335-1350.		
<i>Anomalina acuta</i> at 1395-1410.		
Limestone: light-gray, dense, coarsely glauconitic, sandy, fossiliferous (macroshells, bryozoan remains and Foraminifera); interbedded thin beds of clay, light-gray, fissile glauconitic	150	1,575
<i>Vaginulina midwayana</i> at 1545-1560.		
Limestone: cream, granular, loosely cemented, cherty.....	110	1,685
Marl: dark-gray, sandy, glauconitic, fossiliferous (abundant Foraminifera)	55	1,740

	Thickness (feet)	Depth (feet)
Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):		
Marl: bluish-gray to brown, somewhat sandy, chalky, glauconitic, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods and Foraminifera).....	1,155	2,895
<i>Bolivinooides decorata</i> , <i>Globotruncana cretacea</i> at 1890-1905.		
<i>Kyphopyxa christneri</i> at 2370-2385.		
<i>Vaginulina texana</i> at 2625-2640.		
Sand: fine to medium-grained, more or less indurated, phosphatic, micaceous, glauconitic, fossiliferous (macroshells); interbedded clay or shale, dark-gray to pale-green, fissile, silty, finely micaceous, glauconitic.....	210	3,105
Tuscaloosa Formation:		
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, pale-green, sandy, iron-stained.....	295	3,400
"Shale": dark-gray to black, fissile, finely micaceous, carbonaceous, fossiliferous (macroshells at certain levels).....	100	3,500
Sand: fine to coarse-grained, glauconitic; interbedded shale, as above.....	100	3,600
Sand: fine to coarse-grained, angular, massive, arkosic; interbedded clay, green to purple (mottled), sandy, micaceous.....	650	4,250
In Lower Cretaceous(?) (Undifferentiated):		
Clay: dark-green to purple to red, blocky, micaceous, sideritic, greasy appearance; brick-red, sandy, highly micaceous at depth.....	38	4,288 ¹
Summary:		
Miocene (undifferentiated).....	370	370
Oligocene (undifferentiated).....	25	395
Upper Eocene (Ocala limestone).....	395	710
Middle Eocene (Lisbon formation).....	145	635
Middle Eocene (Tallahatta formation).....	260	1,195
In lower Eocene(?) (Wilcox group, undifferentiated).....	130	1,325
Paleocene (Clayton formation).....	415	1,740
Upper Cretaceous (post-Tuscaloosa, undifferentiated).....	1,365	3,105
Upper Cretaceous (Tuscaloosa formation).....	1,145	4,250
In Lower Cretaceous(?) (undifferentiated).....	38	4,288

¹Not reported below 4288. Total depth 7490.

	Thickness (feet)	Depth (feet)
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Potential Water-Bearing Zones:

Limestone	120	500
Limestone	170	1,150
Sand: fine to coarse-grained.....	60	1,325
Limestone	100	1,425
Limestone	150	1,575

MITCHELL COUNTY

Location: At City Water Works in Camilla
 Owner: No. 3 City of Camilla
 Driller: Stevens Southern Company
 Drilled: June 1949

Well No.: GGS 218
 Elev.: 182

Residuum:

Clay: mottled, sandy, limonitic.....	20	20
Sand: fine to coarse-grained, angular.....	10	30
Clay: mottled, sandy, limonitic.....	60	90

Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: white, porous, fossiliferous (abundant bryozoan remains and Foraminifera).....	160	250
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Operculinoides sp. common at 90-100.

Camerina striatoreticulata at 130-140.

Amphistegina pinarensis var. at 240-250.

Limestone: white, dense, highly calcitized and recrystallized.....	60	310
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Summary:

Residuum	90	90
Upper Eocene (Ocala limestone).....	220	310

Potential Water-Bearing Zones:

Limestone	160	250
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