

**GEORGIA**  
**STATE DIVISION OF CONSERVATION**  
DEPARTMENT OF MINES, MINING AND GEOLOGY  
GARLAND PEYTON, Director

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**THE GEOLOGICAL SURVEY**  
Bulletin Number 70

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**WELL LOGS OF THE**  
**COASTAL PLAIN OF GEORGIA**

by

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Prepared cooperatively by the U. S. Geological Survey

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**ATLANTA**  
**1961**

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, somewhat blocky, sandy, phosphatic; interbedded sand, fine to medium-grained, subangular, phosphatic.	140	220
Reddish-brown to jet-black phosphatic pebbles and fish teeth prominent at 80-90.		
No samples	10	230

**In Oligocene (Undifferentiated):**

Limestone: cream, soft, chalky, sandy, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera)	50	280
<i>Textularia</i> sp., <i>Rotalia mexicana</i> var., <i>Nonionella hantkeni</i> var. <i>byramensis</i> , <i>Nonionella oligocenica</i> at 240-260.		
Limestone: cream, somewhat calcitized and massive, nodular, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera)	65	345

**Summary:**

Pliocene to Recent (undifferentiated)	80	80
Miocene (undifferentiated)	140	220
No samples	10	230
In Oligocene (undifferentiated)	115	345

**Potential Water-Bearing Zones:**

Limestone	65	345
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**CHATHAM COUNTY**

Location: Wilmington Park  
 Owner: No. 1 Wilmington Park (City of Savannah)  
 Driller: M. H. Gray Drilling Company  
 Drilled: 1958

Well No.: GGS 563  
 Elev.: 11

	Thickness (feet)	Depth (feet)
<b>Pliocene to Recent (Undifferentiated):</b>		
Sand: fine-grained, subangular; interbedded clay, dark-gray to dark-green, silty, micaceous, carbonaceous, fossiliferous (macroshells)	55	55

First observed macroshells at 20-25.

Macroshells abundant at 40-45.

	Thickness (feet)	Depth (feet)
Sand: coarse-grained, subrounded, sparsely phosphatic.....	10	65
<b>Miocene (Undifferentiated):</b>		
Clay: dark-green, sandy, phosphatic; sand, as above.....	54	119
Reddish-brown to jet-black, phosphatic pebbles common at 65-70.		
Dolomitic limestone: light-brown, dense, saccharoidal, sandy, abundantly phosphatic .....	1	120
Clay: yellowish-green, blocky, somewhat tough, sandy, phos- phatic .....	30	150
<b>Oligocene (Undifferentiated):</b>		
Limestone: cream, soft, chalky, powdery, nodular and massive at depth, fossiliferous (fragments and molds of macroshells, echinoid and bryozoan remains, and Foraminifera).....	95	245
<i>Asterocyclina</i> <sup>1</sup> sp. at 165-175. <i>Textularia</i> sp., <i>Discorbis</i> sp., <i>Gypsina globula</i> <sup>1</sup> , <i>Cibicides</i> <i>lobatulus</i> at 175-185. <i>Nonionella oligocenica</i> , <i>Rotalia mexicana</i> var., <i>Dictyoconus</i> sp. <sup>1</sup> at 185-195.		
Limestone: light-gray, much calcitized, somewhat nodular, massive, sandy, fossiliferous (as above).....	10	255
<b>Upper Eocene: Jackson Group: Ocala Limestone:</b>		
Limestone: white, somewhat crystalline and calcitized, fos- siliferous (abundant bryozoan remains and frequent Ostra- cods and Foraminifera).....	110	365
<i>Robulus arcuato-striatus</i> var. <i>carolinianus</i> , <i>Robulus alato-</i> <i>limbatus</i> , <i>Guttulina irregularis</i> , <i>Guttulina spicaeformis</i> , <i>Siphonina jacksonensis</i> , <i>Alabamina obtusa</i> , <i>Lingulina</i> sp., <i>Planularia</i> sp., <i>Cibicides lobatulus</i> , <i>Planulina cocoaensis</i> , <i>Asterocyclina nassauensis</i> , <i>Operculinoides floridensis</i> at 255-265.		
Limestone: white, crystalline, somewhat saccharoidal, coarsely but sparsely glauconitic.....	30	395
Limestone: cream, considerably calcitized, granular.....	5	400

<sup>1</sup>Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
<b>Summary:</b>		
Pliocene to Recent (undifferentiated).....	65	65
Miocene (undifferentiated).....	85	150
Oligocene (undifferentiated).....	105	255
Upper Eocene (Ocala limestone).....	145	400

**Potential Water-Bearing Zones:**

Limestone.....	250	400
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**CHATTAHOOCHEE COUNTY**

Location: Near elevated steel reservoir, Har-  
mon Church, Fort Benning Military Reser-  
vation

Well No.: GGS 18  
Elev.: 445

Owner: U.S. (Army) Govt.

Driller: Layne-Atlantic Company

	Thickness (feet)	Depth (feet)
<b>Upper Cretaceous: Blufftown and Eutaw Formations (Undifferentiated):</b>		
Sand: fine to medium-grained, angular, limonitic, micaceous.....	60	60
Sand: as above; some clay, lignitic, micaceous.....	60	120
Clay: gray to light-brown, lignitic, micaceous, fossiliferous (macroshells).....	140	260
Sand: fine to coarse-grained, crystals of calcium sulfate.....	40	300
Clay: as above, but becoming somewhat mottled at depth; in- terbedded sand, fine to coarse-grained, angular, gypsiferous.....	94	394
<b>In Tuscaloosa Formation:</b>		
Sand: fine to coarse-grained, angular, arkosic.....	90	484
<b>Summary:</b>		
Upper Cretaceous (Blufftown and Eutaw formations, undiffer- entiated).....	394	394
In Upper Cretaceous (Tuscaloosa formation).....	90	484