

**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)
Clay: black, fissile, lignitic, micaceous; sand, as above .....	2	320
Sand: fine to coarse-grained, subangular, abundantly limonitic .....	7	327
Sand: coarse-grained, subangular, arkosic; interbedded kaolin, white, micaceous, sandy .....	35	362
Clay: light-gray to tan to red to purple (mottled), micaceous, sandy .....	53	415
No samples .....	613	1,028

**In Basement Complex (Undifferentiated):**

Crystalline rock: sand and clay; as above .....	3	1,031
Crystalline rock: as above .....	2	1,033?

**Summary:**

No samples .....	128	128
In middle Eocene (Lisbon formation) .....	150	278
In Upper Cretaceous (Tuscaloosa formation) .....	137	415
No samples .....	615	1,028
In basement complex (undifferentiated) .....	5	1,033?

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained .....	44	234
Sand: fine to coarse-grained .....	40	318
Sand: fine to coarse-grained .....	35	362

**BURKE COUNTY**

Location: Near Midville  
 Owner: Midville Consolidated School  
 Driller: Virginia Supply and Well Company  
 Drilled: September 1954

Well No.: GGS 391  
 Elev.: 190

	Thickness (feet)	Depth (feet)
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**Miocene (Undifferentiated):**

Clay: olive-green to tan to red (mottled), limonitic, sandy .....	8	8
Clay: red to purple (mottled), sandy .....	52	60

**Upper Eocene: Jackson Group: Barnwell Formation:**

Marl: yellowish-green to brown, carbonaceous, sandy; limestone, white to yellow, rather dense, nodular, saccharoidal,

	Thickness (feet)	Depth (feet)
sandy, cherty, fossiliferous, (fragments and casts of megafossils, echinoid and bryozoan remains, and Foraminifera, latter at depth) .....	42	102
<i>Nonion advena</i> , <i>Nonion inexcavatus</i> , <i>Valvulineria jacksonensis</i> , <i>Discorbis assulata</i> , and <i>Cibicides lobatulus</i> at 78-102.		

**Middle Eocene: Claiborne Group: Lisbon Formation:**

Sand: fine to coarse-grained, subangular, sparsely phosphatic, with brown pebbles; limestone, pale, yellowish-green, dense, saccharoidal, sparsely phosphatic, sandy, fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains) .....	108	210
Limestone: pale, yellowish-green, dense, very sandy, sparsely phosphatic, fossiliferous (casts and molds of megafossils) .....	40	250

**Summary:**

Miocene (undifferentiated) .....	60	60
Upper Eocene (Barnwell formation) .....	42	102
Middle Eocene (Lisbon formation) .....	148	250

**Potential Water-Bearing Zones:**

Sand .....	108	210
Limestone .....	40	250

**BURKE COUNTY**

Location: Near Girard  
 Owner: Girard Consolidated School  
 Driller: Virginia Supply and Well Co.  
 Drilled: September 1954

Well No.: GGS 392  
 Elev.: 230

	Thickness (feet)	Depth (feet)
<b>Miocene (Undifferentiated):</b>		
Clay: light to red (mottled), micaceous, very sandy .....	60	60

**Upper Eocene: Jackson Group: Cooper Marl:**

Sand: fine to coarse-grained, subangular, micaceous; limestone, white, somewhat saccharoidal, dense, sandy, sparsely