

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

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**THE GEOLOGICAL SURVEY**  
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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**

## Remarks:

Additional aquifers, as for example the Clayton formation, occur in this area at depths lower than the total depth (382) of the above described well. Quality of samples on this well is poor; much better cuttings could have been collected. Moreover, the sands penetrated during drilling of this well were reported dry. This report is considered questionable. Many of these sands might have been sealed-off by mud during drilling, hence appeared to be dry when tested.

## CALHOUN COUNTY

Location: 12 ft. north and 6 ft. west of southwest footing of water tower, ½ block north of Courthouse, west side of Highway 55, in Morgan  
 Well No.: GGS 331  
 Elev.: 252  
 Owner: No. 1 City of Morgan  
 Driller: Layne-Atlantic Company  
 Drilled: December 1952

Thickness (feet)      Depth (feet)

## Residuum:

Sand: fine to coarse-grained, subangular, limonitic; interbedded clay, light-gray with red streaks (somewhat mottled), sandy	4	4
Clay: light-gray to pale-brownish-green with tan to red streaks (mottled), very sandy, limonitic	20	24

## Upper Eocene(?): Jackson Group: Ocala Formation:

Limestone: white to cream, rather dense and massive, somewhat saccharoidal, sandy, fossiliferous (molluscan shells, bryozoan remains, and Foraminifera)	10	34
<i>Lepidocyclina</i> sp., <i>Camerina</i> sp. at 24-34.		

## In Middle Eocene: Claiborne Group: Lisbon Formation:

Limestone: white to light-gray, dense, crystalline, coarsely but sparsely glauconitic, sandy, somewhat fossiliferous (molluscan shells, bryozoan remains, Ostracods, and Foraminifera); interbedded clay, light-gray, sandy, carbonaceous, micaceous; indurated sand or sandstone, pale-green, fine-grained, very dense, highly siliceous, micaceous, carbonaceous	81	115
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*Nonion advena*, *Cibicides pseudoungerianus* var., *Cibicides* cf. *C. westi* at 45-55.

*Cibicides westi* at 55-65.

*Asterigerina lisbonensis* common at 65-75.

	Thickness (feet)	Depth (feet)
<b>Tallahatta Formation:</b>		
Sand: fine to coarse-grained, subangular, indurated and coarsely glauconitic at certain levels, sparsely phosphatic, fossiliferous at certain levels (fish teeth, molluscan shells, and Foraminifera); interbedded clay, light-gray to pale-green, silty, carbonaceous, micaceous, fossiliferous (Radiolaria, small molluscan shells and Foraminifera) .....	95	210
<i>Nonion advena</i> , <i>Discorbis</i> sp., <i>Gyroidina soldanii</i> var., <i>Valvulineria jacksonensis</i> var., <i>Cibicides danvillensis</i> (common), <i>Cibicides blaupiedi</i> at 115-125.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: light-gray to pale-brownish-green, somewhat laminated, silty, glauconitic, carbonaceous, micaceous, fossiliferous (Foraminifera) .....	25	235
<i>Spiroplectammina wilcoxensis</i> , <i>Discorbis midwayensis</i> , <i>Valvulineria wilcoxensis</i> , <i>Valvulineria scrobiculata</i> , <i>Anomalina acuta</i> at 210-215.		
Clay: dark-gray, silty, somewhat glauconitic, lignitic, micaceous, pyritiferous, fossiliferous (microfossils); interbedded limestone, white to light-gray, coarsely glauconitic, sandy, fossiliferous (macroshells, Ostracods and Foraminifera) .....	125	360
<b>In Paleocene: Midway Group: Clayton Formation:</b>		
Sand: fine to medium-grained, subangular, abundantly glauconitic, some coarse, subangular, pale-green grains; interbedded clay, light-gray, blocky, micaceous to black, somewhat laminated, finely micaceous, carbonaceous, fossiliferous (Ostracods and Foraminifera) .....	20	380
Indurated sand: light-gray, fine-grained, subangular, glauconitic (finely disseminated grains), micaceous, fossiliferous (macroshells, Ostracods, and Foraminifera); interbedded clay, dark-gray to black, laminated, silty, finely micaceous, carbonaceous .....	50	430
<i>Nodosaria affinis</i> , <i>Siphonina prima</i> , <i>Bulimina cacumenata</i> , <i>Sigmomorphina soldadoensis</i> , <i>Cibicides newmanae</i> , <i>Anomalina midwayensis</i> at 380-390.		
<i>Robulus midwayensis</i> , <i>Discorbis midwayensis</i> , <i>Eponides lotus</i> , <i>Bulimina cacumenata</i> (common), <i>Operculinoides catenula</i> (common), <i>Anomalina midwayensis</i> at 390-400.		

	Thickness (feet)	Depth (feet)
Limestone: white to light-gray, rather dense and crystalline, somewhat softer at depth; sparsely glauconitic, sandy to very sandy at depth, pyritiferous at certain levels, fossiliferous (macroshells, Bryozoa, Ostracods and Foraminifera) _____	227	657

**Upper Cretaceous: Providence Sand:**

Marl: dark-bluish-gray, somewhat chalky, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera) _____	10	667
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*Guembelina* sp., *Globotruncana* sp., *Anomalina pseudopapillosa* at 657-667.

**Summary:**

Residuum _____	24	24
Upper Eocene(?) (Ocala limestone) _____	10	34
In middle Eocene (Lisbon formation) _____	81	115
Middle Eocene (Tallahatta formation) _____	95	210
Lower Eocene (Wilcox group, undifferentiated) _____	150	360
In Paleocene (Clayton formation) _____	297	657
Upper Cretaceous (Providence sand) _____	10	667

**Potential Water-Bearing Zones:**

Sand: fine to coarse-grained _____	95	210
Sand: fine to coarse-grained _____	20	380
Limestone _____	227	657

**Remarks:**

Cuttings are thought to be of rather poor quality in intervals 360-380 and 595-657. Thus, the abundantly glauconitic sand in interval 360-380 is characteristic of the lower Wilcox rather than the Paleocene. Here the top of the Paleocene is therefore in doubt.

**CALHOUN COUNTY**

Location: 0.09 mi. north of Highway 37, 54 ft. west of Well No.: GGS 353  
Seaboard Air Line RR., 30 ft. east of reservoir in Elev.: 312  
Edison

Owner: No. 2 City of Edison  
Driller: Layne-Atlantic Company  
Drilled: July 1955

	Thickness (feet)	Depth (feet)
No samples _____	15	15
<b>In Residuum:</b>		
Clay: tan to olive-green (somewhat mottled), sandy, limonitic _____	8	23