

**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)
charoidal, more saccharoidal with depth, cherty, fossiliferous (echinoid and bryozoan remains and some Foraminifera)	80	250

*Rotalia mexicana* var., *Reussella byramensis*, *Nonion* sp. at 170-180.

*Coskinolina*<sup>1</sup> sp., *Rotalia mexicana* var. at 180-190.

#### Summary:

Miocene (undifferentiated) .....	170	170
In Oligocene (undifferentiated) .....	80	250

#### Potential Water-Bearing Zones:

Limestone .....	70	250
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#### CRISP COUNTY

Location: In eastern part of Cordele  
 Owner: No. 4 City of Cordele  
 Driller: Layne-Atlantic Company  
 Drilled: October 1954

Well No.: GGS 390  
 Elev.: 316

	Thickness (feet)	Depth <sup>2</sup> (feet)
<b>Residuum:</b>		
Clay: bluish-gray to yellowish-green to brick-red (mottled), sandy, limonitic, and fragments of residual limestone.....	20	20
No samples .....	10 <sup>b</sup>	30
Clay: dark-brown, lignitic, sandy, somewhat indurated and residual limestone .....	5	35

#### Oligocene (Undifferentiated):

Limestone: white, nodular, saccharoidal, much calcitized, fossiliferous (some echinoid and bryozoan remains, and Foraminifera) .....	20	55
<i>Pyrgo</i> sp., <i>Quinqueloculina</i> sp. at 35-45.		
Limestone: somewhat yellowish, dense, crystalline, saccharoidal..	26	81
Limestone: as above.....	29	110

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

<sup>2</sup>Depths below 635 feet were picked from electric log.

**Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: as above, but more fossiliferous (bryozoan remains and "larger Foraminifera") ..... 10 120

*Lepidocyclina* sp. and *Gypsina globula* common at 110-120.

Limestone: light-gray to white, dense, crystalline, highly calcitized, massive, fossiliferous (casts and molds of megafossils, echinoid and bryozoan remains, and Foraminifera) ..... 30 150

*Lepidocyclina* sp. at 120-130.

Limestone: light-gray, cream and sandy at depth, somewhat nodular, porous, calcitized, fossiliferous (echinoid and abundant bryozoan remains, some Ostracods and Foraminifera) ..... 90 240

*Lepidocyclina* sp., *Operculina mariannensis*, *Eponides jacksonensis* at 170-180.

*Camerina striatoreticulata* at 200-210.

**Middle Eocene: Claiborne Group: Gosport(?) Sand:**

Sand: fine to coarse-grained, angular ..... 15 255

**Lisbon Formation:**

Limestone: gray, dense, somewhat crystalline, massive, sandy, glauconitic, fossiliferous (casts and molds of megafossils); indurated sand, fine to coarse-grained, angular, glauconitic, phosphatic ..... 25 280

*Nonion advena*, *Cibicides westi* at 250-260.

*Gyroidina soldanii* var., *Valvulineria jacksonensis* var., *Cibicides americanus* var. *antiquus*, *Cibicides westi* at 270-280.

Marl: gray, somewhat indurated, silty, glauconitic, fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) ..... 30 310

Limestone: gray, dense, sandy, glauconitic, fossiliferous (macroshells, and Foraminifera) ..... 26 336

**Tallahatta Formation:**

Sand: fine to coarse-grained, subangular, phosphatic, fossiliferous (common to abundant coquina); interbedded marl,

	Thickness (feet)	Depth (feet)
gray, silty, glauconitic, micaceous, fossiliferous (macroshells, echinoid and bryozoan remains, Ostracods, and Foraminifera) .....	194	580
<i>Asterigerina lisbonensis</i> at 390-400.		
Macroshells common to abundant at 380-410.		
<b>Lower Eocene: Wilcox Group (Undifferentiated):</b>		
Marl: dark-gray, silty, micaceous, carbonaceous, glauconitic, fossiliferous (macroshells, Ostracods, and Foraminifera) .....	50	580
<i>Valvulineria scrobiculata</i> , <i>Robulus</i> cf. <i>R. wilcoxensis</i> , <i>Globulina gibba</i> , <i>Cibicides blanpiedi</i> , <i>Cibicides howelli</i> , <i>Anomalina</i> sp. at 560-570.		
Sand: fine to coarse-grained, angular, abundantly glauconitic, green-tinted quartz grains; some marl, as above; limestone, gray, crystalline, coarsely glauconitic, sandy .....	10	590
Clay: dark-gray, silty, carbonaceous, micaceous, pyritiferous .....	15	605
Sand: fine to medium-grained, subangular, glauconitic; interbedded clay, as above .....	30	635
Sand: fine-grained, somewhat indurated, glauconitic .....	13	648
<b>Paleocene: Midway Group: Clayton Formation:</b>		
Clay: black, fissile, carbonaceous, micaceous, fossiliferous (Foraminifera) .....	10	658
<i>Eponides lotus</i> , <i>Discorbis</i> sp., <i>Cibicides howelli</i> at 640-650.		
Limestone: gray, crystalline, glauconitic, sandy, fossiliferous (macroshells, bryozoan remains, and some Foraminifera) .....	5	663
<i>Eponides lotus</i> , <i>Cibicides newmanae</i> at 650-660.		
Clay: dark-gray, silty, carbonaceous, micaceous; limestone, as above (probably "cave.") .....	17	680
<i>Robulus midwayensis</i> at 660-670.		
<b>Summary:</b>		
Residuum .....	35	35
Oligocene (undifferentiated) .....	75	110
Upper Eocene (Ocala limestone) .....	130	240
Middle Eocene (Gosport(?) sand) .....	15	255

	Thickness (feet)	Depth (feet)
Middle Eocene (Lisbon formation).....	81	336
Middle Eocene (Tallahatta formation).....	194	530
Lower Eocene (Wilcox group, undifferentiated).....	118	648
Paleocene (Clayton formation).....	32	680

## Potential Water-Bearing Zones:

Limestone.....	205	240
Sand: fine to coarse-grained.....	15	255
Sand: fine to coarse-grained.....	194	530
Sand: fine to coarse-grained.....	10	590

## DECATUR COUNTY

Location: 6 mi. northwest of Bainbridge, at U.S. Basic Flying School  
 Well No.: GGS 49  
 Elev.: 135  
 Owner: No. 3 U.S. (War Department) Basic Flying School  
 Driller: Layne-Atlantic Company  
 Drilled: July 1942

	Thickness (feet)	Depth (feet)
No samples.....	190	190

## In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream to light-brown at depth, much calcitized, somewhat saccharoidal, fossiliferous (macroshells, echinoid and bryozoan remains and Foraminifera).....

	105	295
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*Operculinoides* sp., *Amphistegina pinarensis* var. at 190.

*Gypsina globula*, *Operculina mariannensis*, *Lepidocyclus* sp. at 222.

*Amphistegina pinarensis* var. common, *Lepidocyclus* sp. at 285.

*Lepidocyclus* sp. common at 287.

No samples.....	18	313
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## In Middle Eocene: Claiborne Group: Lisbon Formation:

Dolomitic limestone: light-gray, saccharoidal and crystalline.....	14	327
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Limestone: light-gray to white, very dense, much calcitized, coarsely glauconitic, fossiliferous (macroshells, bryozoan remains, and Foraminifera).....	12	339
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Limestone: light-gray, granular, glauconitic with finely disseminated grains, very sandy, fossiliferous (some macroshells, and bryozoan remains).....	51	390
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