

**GEORGIA  
STATE DIVISION OF CONSERVATION**

DEPARTMENT OF MINES, MINING AND GEOLOGY  
GARLAND PEYTON, Director

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**THE GEOLOGICAL SURVEY**  
Bulletin Number 74

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**LOGS OF SELECTED WELLS IN THE  
COASTAL PLAINS OF GEORGIA**

by

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ATLANTA  
1964

Depth  
(feet)

## Description

## Eocene Series

## Upper Eocene. Ocala Limestone. Upper Member.

- 670 Limestone, white, chalky, fossiliferous, and about 20 percent nodular fragments of brown dolomite. The fauna consists of fragments of specimens of *Asterocyclina georgiana*; fragments of echinoids and echinoid spines; bryozoan fragments; fragment of bivalve (genus not determinable); fragments of specimens of *Robulus alato-limbatus*, *Pecten* sp., *Eponides* cf. *E. jacksonensis*, and *Massilina* sp.
- 700 Limestone, tan to cream, granular, crystalline, and a few fragments of coquina caving from higher levels; a few fragments of *Lepidocyclina* sp. and echinoids.
- 710 Most of this sample is like the one at 700 ft. but contains many fragments of light grayish-cream crypto-crystalline, porous limestone in which are embedded many sections of small miliolids, and a few molds of fragments of other fossils.
- 720 Limestone, chalky, nodular, microfossiliferous. The fauna is composed of bryozoan fragments and fragments of *Asterocyclina georgiana* and other species; also specimens of *Robulus alato-limbatus*, *Eponides jacksonensis*, and a few other Rotaliidae.
- 745 T.D. Limestone, white, chalky, highly fossiliferous; bryozoan fragments are abundant; specimens of Foraminifera in the sample are *Asterocyclina georgiana*, *Robulus alato-limbatus*, *Eponides jacksonensis*, and others.

## DECATUR COUNTY\*

Owner Operator: U. S. (War Department) Bainbridge Basic Flying

GGs. No: 55

School Well 2

Elevation: 135

Location: 6 mi. northwest of Bainbridge, Ga.

Total depth: 422 ft.

Completed: June 19, 1942

## Summary of Stratigraphy

	Depth (feet)	Thickness (feet)
Tertiary		
Oligocene(?) or Eocene(?) (1 sample)	82	?
In Eocene		
upper, Ocala Limestone, upper member	100	55
lower member	155	75
upper middle, Avon Park Limestone	230	55

\*Publication of this data is authorized by the Sun Oil Company, for whom the report was prepared on a commercial basis.

	Depth (feet)	Thickness (feet)
lower middle, Lake City Limestone(?)	285	to total 137 depth

Lithologic and paleontologic description of cuttings and cores. Samples are cuttings unless otherwise stated.

Depth  
(feet)

## Description

### Tertiary

#### Oligocene(?) or Eocene(?)

- 82 Sand, clear quartz, fine-grained, and very finely cut fragments of hard, white, chalky limestone.

#### In Eocene

##### Upper Eocene. Ocala Limestone. Upper Member.

- 100 Limestone, white, chalky, fossiliferous, containing worn fragments of molds and a few sections of *Heterostegina ocalana*, *Sphaerogypsina globula*, and *Amphistegina pinarensis cosdeni*.
- 110 Limestone, white, hard, chalky, in nodular fragments that seem to be water-worn. The limestone contains worn molds of *Lepidocyclina* sp. and *Sphaerogypsina* sp.
- 120 Limestone, light-cream, moderately hard, chalky containing traces of fossils, among which fragmental sections of *Lepidocyclina* sp. are fairly common.
- 125 Limestone, chalky, porous, similar to sample at 120 ft. Very little of the fossil material is determinable, but poorly-preserved fragments of *Lepidocyclina* sp. are present.
- 130 Like sample at 125 ft.
- 144 Like sample at 125 ft.

##### Upper Eocene. Ocala Limestone. Upper Member.

- 155 Like sample at 125 ft. Sample contains specimens of *Amphistegina pinarensis* var., and a few specimens of small Foraminifera typical of the lower member of the Ocala Limestone.
- 168 Limestone, chalky, fossiliferous, having a water-worn appearance. The fauna consists of bryozoan fragments (common), fragments of specimens of *Lepidocyclina ocalana*, *Asterocyclina* sp., *Amphistegina alabamensis*, and specimens of small Foraminifera characteristic of the lower member of the Ocala Limestone.
- 178 Like sample at 168 ft.
- 195 Limestone, chalky, fossiliferous. The fossils are better preserved than in the preceding samples, and the fauna contains several

## Description

Depth  
(feet)

varieties of *Lepidocyclina ocalana*, and many specimens of *Amphistegina alabamensis* and *A. pinarensis* var.

- 210 Limestone, white, dense, containing traces of fossils; also some fragments of white, crystalline, gypsiferous limestone. The cuttings of limestone are very small.
- 215 Limestone, white, dense. The sample is composed of finely cut fragments.
- 220 Limestone, white, nodular. The sample is composed of finely cut fragments.
- 225 Like sample at 220 ft. The limestone contains molds of small Foraminifera that are too poorly preserved for identification.

## Upper Middle Eocene. Avon Park Limestone.

- 230 Limestone, white, chalky, moderately hard, containing specimens of *Dictyoconus floridanus* and *Valvulina* sp.
- 235 Limestone, white, chalky, partly crystalline, containing specimens of *Dictyoconus floridanus* and poorly preserved molds of smaller Foraminifera.
- 238 Limestone, white, chalky, having a water-worn appearance. The fauna consists of poorly-preserved specimens that are chiefly fragments of *Lepidocyclina* sp., *Operculina* sp., and *Camerina* sp., as in samples above 230 ft., and consequently may be caving, in part.
- 240 Limestone, white, nodular (small nodules), somewhat calcitic, containing a few poorly-preserved, largely unidentifiable molds of smaller Foraminifera, among which are specimens of a small *Cibicides* sp. and a few other questionable rotalid forms.
- 245 Limestone, white, chalky, porous, nodular (small nodules), somewhat calcitic, containing specimens of several species of miliolids, and specimens of *Coskinolina floridana* and *Valvulammina* sp. common in the Avon Park Limestone.
- 248 Like sample at 245 ft.

## Lower Middle Eocene. Lake City Limestone

(probable equivalent).

- 285 Limestone, white, dense, chalky, slightly glauconitic. The sample contains many poorly-preserved molds and fragments of *Lepidocyclina* sp., some of which may be caving from higher levels, but some are definitely indigenous, as *Lepidocyclina pustulosa*.
- 295 Limestone, in part chalky, in part dolomitic; crystals of dolomite are scattered through the chalky material. The limestone contains a little glauconite, and a few fragments of molds and small fragmental sections of *Lepidocyclina* sp. Like the sample at 285 ft., some of the fossil fragments may be caving.

Depth (feet)	Description
315	Sandstone, very fine grained, slightly glauconitic (fine-grained glauconite), is about 80 percent of the sample. About 20 percent of the sample is composed of small chalky fragments, much of which is probably worn and broken fossil debris that was irregularly scattered in the sandstone. Bryozoan fragments are common.
325	Sandstone, grayish-tan, very fine grained, calcitic, slightly glauconitic, like sample at 315 ft.; a few chalky fragments are present.
330	Sandstone, highly calcareous, very fine grained, slightly glauconitic. Many fragments of chalky, glauconitic limestone contain traces and fragments of fossils that indicate the material is probably caving from higher levels.
340	Limestone, white, chalky, glauconitic, containing many fragments of <i>Operculinoides</i> sp., <i>Camerina</i> sp., <i>Lepidocyclina</i> ( <i>Polylepidina</i> ) <i>antillea</i> , and <i>Discocyclina flintensis</i> .
365	Limestone, light bluish-gray, hard, dense, containing small scattered particles of glauconite.
373	Like sample at 365 ft.
422 T.D.	Limestone, light-gray, moderately hard, sandy, glauconitic (fine-grained glauconite); no indigenous fossils.

### DECATUR COUNTY\*

Owner Operator: U. S. (War Department) Bainbridge Basic Flying School Well 1

Landowner:

Location: 6 mi. northwest of Bainbridge, Ga., and about 3/4 mi. southwest of Georgia Highway 1.

GGs. No. 57

Elevation: 130 ft.

Total depth: 1035 ft.

Completed: May 28, 1942

### Summary of Stratigraphy

	Depth (feet)	Thickness (feet)
<b>Tertiary</b>		
Miocene(?) undifferentiated (1 sample).....	20	?
Oligocene(?) do (1 sample).....	55	?
No samples.....	60	55
<b>In Eocene</b>		
upper, Ocala Limestone, upper member.....	115	54
lower member.....	169	137

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