

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

THE GEOLOGICAL SURVEY
Bulletin Number 70

WELL LOGS OF THE
COASTAL PLAIN OF GEORGIA

by

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ATLANTA
1961

Pyrgo sp., *Cibicides americanus*, *Cibicides lobatulus*, *Gypsina globula*² at 325-335.

Lepidocyclina sp., *Dietyoconus*² sp., *Rotalia mexicana* var., *Asterigerina subacuta*, *Eponides byramensis*, *Quinqueloculina* sp. at 345-355.

Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: light-gray, somewhat calcitized, fossiliferous (abundant bryozoan remains and some Foraminifera) 50 515

Robulus arcuato-striatus var. *carolinianus*, *Fronidularia* sp., *Gypsina globula*, *Nonion planatus*, *Alabamina obtusa*, *Eponides jacksonensis*, *Nodosaria fissicostata*, *Globorotalia cocoaensis*, *Planulina cocoaensis* at 465-475.

Operculinoides floridensis at 485-495.

Planularia sp. at 495-505.

Summary:

| | | |
|---|-----|-----|
| Pliocene to Recent (undifferentiated) | 50 | 50 |
| Miocene (undifferentiated) | 260 | 310 |
| No samples | 15 | 325 |
| In Oligocene (undifferentiated) | 140 | 465 |
| Upper Eocene (Ocala limestone) | 50 | 515 |

Potential Water-Bearing Zones:

| | | |
|-----------------|-----|-----|
| Limestone | 190 | 515 |
|-----------------|-----|-----|

BULLOCH COUNTY

Location: In City of Portal
 Owner: City of Portal
 Driller: Layne-Atlantic Company
 Drilled: 1959

Well No.: GGS 571
 Elev.: 295¹

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| Miocene (Undifferentiated): | | |
| Clay: pale-yellowish-green with red streaks (mottled), very sandy, limonitic | 36 | 36 |
| Sand: medium to coarse-grained, subangular, arkosic | 20 | 56 |
| Clay: pale-yellowish-green to pale-brownish-gray, sandy | 102 | 158 |

¹Average elevation taken from State Highway map.

²Reworked (?) fossil of middle Eocene age.

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| Clay: as above, but much sandier | 144 | 302 |
| Clay: as above; some limestone, white, sandy | 41 | 343 |
| No samples | 20 | 363 |
| Sand: coarse-grained, subangular, phosphatic, fossiliferous (a coquina) | 27 | 390 |

In Oligocene (Undifferentiated):

| | | |
|--|----|-----|
| Limestone: cream, rather massive, somewhat nodular, fossiliferous (molds and impressions of Gastropods, bryozoan remains, and some Foraminifera) | 54 | 444 |
| <i>Pyrgo</i> sp., <i>Rotalia mexicana</i> var. at 398-423. | | |
| <i>Gypsina globula</i> ² at 423-444. | | |

In Upper Eocene: Jackson Group: Ocala Limestone:

| | | |
|--|----|-----|
| Limestone: cream, much calcitized, somewhat granular, fossiliferous (bryozoan remains and some Foraminifera) | 42 | 486 |
| <i>Lepidocyclina</i> sp., <i>Gypsina globula</i> at 444-465. | | |
| Limestone: white, calcitized, somewhat fossiliferous (bryozoan remains and some Foraminifera) | 9 | 495 |

Middle Eocene: Claiborne Group (Undifferentiated):

| | | |
|--|----|-----|
| Limestone: light-gray, rather dense, much calcitized, crystalline, fossiliferous (bryozoan remains, some of which are impregnated with glauconite) | 10 | 505 |
| Indurated sand: white to light-gray, fine-grained, fossiliferous (impressions and molds of megafossils) | 21 | 526 |

Summary:

| | | |
|---|-----|-----|
| Miocene (undifferentiated) | 390 | 390 |
| In Oligocene (undifferentiated) | 54 | 444 |
| In upper Eocene (Ocala limestone) | 51 | 495 |
| Middle Eocene (Claiborne group, undifferentiated) | 31 | 526 |

Potential Water-Bearing Zones:

| | | |
|-----------------|-----|-----|
| Limestone | 105 | 495 |
|-----------------|-----|-----|

²Reworked (?) fossil of middle Eocene age.