

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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Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| Clay: light-gray, very sandy, phosphatic; limestone, white, sandy, much leached | 10 | 90 |
| Sand: fine to medium-grained; limestone, white, sandy, cherty .. | 10 | 100 |
| Limestone: dense (much calcitized), sandy | 20 | 120 |
| Sand: fine to coarse-grained, angular, phosphatic; limestone, as above | 60 | 180 |

Oligocene (Undifferentiated):

| | | |
|---|----|-----|
| Limestone: gray to light-brown, somewhat dolomitized and saccharoidal; limestone, cream, dense (much calcitized), nodular, fossiliferous (Foraminifera) | 20 | 200 |
|---|----|-----|

Quinqueloculina sp. at 180-200.

Summary:

| | | |
|---|-----|-----|
| Pliocene to Recent (undifferentiated) | 40 | 40 |
| Miocene (undifferentiated) | 140 | 180 |
| Oligocene (undifferentiated) | 20 | 200 |

Potential Water-Bearing Zones:

| | | |
|------------------------------------|----|-----|
| Sand: fine to coarse-grained | 30 | 150 |
| Limestone | 20 | 200 |

LOWNDES COUNTY

Location: Valdosta
 Owner: City of Valdosta
 Drilled: 1947

Well No.: GGS 173
 Elev.: 230¹

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| Pliocene to Recent (Undifferentiated): | | |
| Sand: fine to coarse-grained, carbonaceous, limonitic | 2 | 2 |
| Clay: ochre to red (mottled), sandy, abundantly limonitic | 18 | 20 |
| Clay: light-gray to pink (mottled), sandy; limestone, white, dense (much calcitized), sandy | 20 | 40 |
| Clay: ochre, sandy, limonitic; limestone, as above | 30 | 70 |
| Clay and limestone: as above, containing inclusions of kaolin | 20 | 90 |

¹Average elevation based on Georgia State Highway Maps.

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| Miocene (Undifferentiated): | | |
| Clay and limestone: as above; clay, pale-green, sandy, phosphatic | 40 | 130 |
| Limestone: white, sandy, cherty | 20 | 150 |
| Limestone: as above; interbedded clay, dark-green to turquoise-blue, indurated | 40 | 190 |
| Dolomitic limestone: light-brown, saccharoidal, sandy | 5 | 195 |

Oligocene (Undifferentiated):

| | | |
|---|-----|-----|
| Dolomitic limestone: as above; and limestone, light-gray, very dense (highly calcitized), cherty, nodular, fossiliferous at depth | 175 | 370 |
| <i>Quinqueloculina</i> sp., <i>Dictyoconus</i> ² sp. at 205-235. | | |

Upper Eocene: Jackson Group: Ocala Limestone:

| | | |
|---|-----|-----|
| Limestone: white to cream, much calcitized, massive, fossiliferous (bryozoan remains and Foraminifera); interbedded dolomitic limestone | 390 | 760 |
| <i>Gypsina globula</i> , <i>Operculinoides</i> sp. at 370-390. | | |
| Dolomitic limestone at 450-530 and 550-570. | | |
| <i>Amphistegina pinarensis</i> var. at 590-610. | | |
| Gypsiferous crystals common at 650-670. | | |
| Dolomitic limestone at 670-710. | | |

Middle Eocene: Claiborne Group (Undifferentiated):

| | | |
|---|----|-----|
| Limestone: light-gray, extremely dense (highly calcitized), massive, somewhat nodular, fossiliferous (bryozoan remains and Foraminifera); interbedded dolomitic limestone, dark-brown, saccharoidal | 58 | 818 |
| <i>Miliolidae</i> prominent at 760-770. | | |
| <i>Asterocyclina</i> sp. at 800-810. | | |

Summary:

| | | |
|---|-----|-----|
| Pliocene to Recent (undifferentiated) | 90 | 90 |
| Miocene (undifferentiated) | 105 | 195 |
| Oligocene (undifferentiated) | 175 | 370 |
| Upper Eocene (Ocala limestone) | 390 | 760 |
| Middle Eocene (Claiborne group, undifferentiated) | 58 | 818 |

Potential Water-Bearing Zones:

| | | |
|-----------|-----|-----|
| Limestone | 300 | 450 |
|-----------|-----|-----|

²Reworked (?) fossil of middle Eocene age.