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) |
|---|---|---|
| **Lower Eocene: Wilcox Group (Undifferentiated):** | | |
| Clay: dark-gray, silty, carbonaceous, glauconitic | 60 | 260 |
| **Paleocene: Midway Group: Clayton Formation:** | | |
| Sand: fine to medium-grained, angular, somewhat indurated; thin stringers of clay, light-gray, micaceous | 30 | 290 |
| Clay: dark-gray to black, carbonaceous, glauconitic, micaceous (finely disseminated) | 20 | 310 |
| Limestone: gray, dense, crystalline, sandy, fossiliferous (casts and molds of megafossils and occasional bryozoan remains) | 50 | 360 |
| **Upper Cretaceous: Providence and Ripley (Undifferentiated):** | | |
| Sand: fine to coarse-grained, angular | 20 | 380 |
| Sand: as above; marl, bluish-gray, silty, micaceous, fossiliferous (megafossils and Foraminifera at depth) | 70 | 450 |
| *Anomalina pseudopapillosa* at 420-430. | | |
| **Summary:** | | |
| Residuum | 20 | 20 |
| Upper Eocene (Ocala limestone) | 26 | 46 |
| Middle Eocene (Lisbon formation) | 44 | 90 |
| Middle Eocene (Tallahatta formation) | 110 | 200 |
| Lower Eocene (Wilcox, undifferentiated) | 60 | 260 |
| Paleocene (Clayton formation) | 100 | 360 |
| Upper Cretaceous (Providence and Ripley, undifferentiated) | 90 | 450 |
| **Potential Water-Bearing Zones:** | | |
| Sand: fine to medium-grained | 30 | 290 |
| Limestone | 50 | 360 |
| Sand: fine to coarse-grained | 20 | 380 |

## SUMTER COUNTY

Location: In Americus
Owner: City of Americus
Driller: Layne-Atlantic Company
Drilled: 1947

Well No.: GGS 147
Elev.: 412

| | Thickness (feet) | Depth (feet) |
|---|---|---|
| **Middle Eocene: Claiborne Group: Tallahatta Formation:** | | |
| Clay: mottled, sandy, limonitic; tongues of sand, fine to medium-grained, angular | 37 | 37 |
| Sand: fine to coarse-grained, angular | 52 | 89 |

| | Thickness (feet) | Depth (feet) |
|---|---|---|
| **Lower Eocene: Wilcox Group (Undifferentiated):** | | |
| Clay: light-gray, silty, micaceous, iron-stained | 20 | 109 |
| Clay: dark-gray to black, silty, micaceous, carbonaceous, glauconitic | 38 | 147 |
| **Paleocene: Midway Group: Clayton Formation:** | | |
| Clay: white to pink (mottled), bauxitic?, micaceous, sandy | 19 | 166 |
| Sand: fine to coarse-grained, subangular | 4 | 170 |
| Limestone: gray, dense, crystalline, sandy, fossiliferous (megafossils and some bryozoan remains) | 40 | 210 |
| **Upper Cretaceous: Providence and Ripley (Undifferentiated):** | | |
| Clay: gray, blocky, micaceous | 11 | 221 |
| Sand: fine to coarse-grained, angular | 60 | 281 |
| Marl: gray, silty, micaceous; some sand, as above | 46 | 327 |
| Limestone: gray, dense, crystalline, very sandy | 25 | 352 |
| Marl: gray, sandy, chalky, micaceous, fossiliferous (some microfossils); interbedded sand, fine to medium-grained, angular | 274 | 626 |
| *Anomalina pseudopapillosa* at 352-358. | | |
| Sand: fine to coarse-grained, angular; interbedded clay or shale, dark-brown, fissile, silty, lignitic, highly micaceous | 360 | 986 |

**Summary:**

| | | |
|---|---|---|
| Middle Eocene (Tallahatta formation) | 89 | 89 |
| Lower Eocene (Wilcox group, undifferentiated) | 58 | 147 |
| In Paleocene (Clayton formation) | 63 | 210 |
| Upper Cretaceous (Providence and Ripley, undifferentiated) | 776 | 986 |

**Potential Water-Bearing Zones:**

| | | |
|---|---|---|
| Sand: fine to coarse-grained | 3 | 169 |
| Limestone | 37 | 210 |
| Sand: fine to coarse-grained | 60 | 281 |
| Sand: fine to coarse-grained | 100 | 726 |

**Remarks:**

Owing to ground-water discharge (springs) and local rather rugged topography, all prospective aquifers occurring at depths of less than 200 feet below land surface are possibly dry and not good risks as sources of ground water.