

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

Stephen M. Herrick, Geologist
United States Geological Survey



Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

| | Thickness (feet) | Depth (feet) |
|---------------------------------------|---------------------|-----------------|
| Potential Water-Bearing Zones: | | |
| Sand: fine to coarse-grained..... | 39 | 120 |
| Sand: fine to coarse-grained..... | 21 | 299 |
| Sand: fine to coarse-grained..... | 49 | 445 |
| Sand: fine to coarse-grained..... | 20 | 527 |

MACON COUNTY

Location: In Marshallville

Well No.: GGS 229

Owner: No. 3 City of Marshallville

Elev.: 493

Driller: Layne-Atlantic Company

(derrick floor)

Drilled: August 1951

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| Lower Eocene: Wilcox Group (Undifferentiated): | | |
| Sand: fine to medium-grained, limonitic; clay, mottled, sandy..... | 22 | 22 |
| Sand: fine to coarse-grained; clay (or kaolin), white, mica- ceous, somewhat sandy..... | 36 | 58 |
| Paleocene: Midway Group: Clayton Formation: | | |
| Clay: gray to tan, hackly; some sand, coarse-grained, limonitic..... | 20 | 78 |
| Upper Cretaceous: Providence Sand: | | |
| Sand: fine to coarse-grained, limonitic; clay (or kaolin), gray, micaceous, somewhat sandy..... | 19 | 97 |
| Clay (or kaolin): white to gray to purple (mottled), mica- ceous, somewhat sandy..... | 15 | 112 |
| Sand: fine to coarse-grained, limonitic; clay (or kaolin), as above..... | 53 | 165 |
| Ripley and Cusseta (Undifferentiated): | | |
| Clay: dark-gray, sandy, micaceous, carbonaceous..... | 24 | 189 |
| Sand: coarse-grained..... | 14 | 203 |
| Clay: dark-gray, sandy, micaceous..... | 60 | 263 |
| Sand: fine to coarse-grained..... | 17 | 280 |
| Sand: fine to coarse-grained; interbedded clay (or kaolin), white to gray to red (mottled), micaceous, somewhat sandy..... | 136 | 416 |
| Sand: fine to coarse-grained..... | 60 | 476 |

| | Thickness (feet) | Depth (feet) |
|---|---------------------|-----------------|
| Blufftown and Eutaw (Undifferentiated): | | |
| Sand: fine to coarse-grained; interbedded clay, brown, mica- ceous, lignitic | 69 | 545 |

| | | |
|--|-----|-----|
| Tuscaloosa Formation: | | |
| Sand: fine to coarse-grained, arkosic; interbedded clay (or kaolin), white to gray to red (mottled), micaceous, some- what sandy | 101 | 646 |

Summary:

| | | |
|--|-----|-----|
| Lower Eocene (Wilcox group, undifferentiated) | 58 | 58 |
| Paleocene (Clayton formation) | 20 | 78 |
| Upper Cretaceous (Providence sand) | 87 | 165 |
| Upper Cretaceous (Ripley and Cusseta, undifferentiated) | 311 | 476 |
| Upper Cretaceous (Blufftown and Eutaw, undifferentiated) | 69 | 545 |
| Upper Cretaceous (Tuscaloosa formation) | 101 | 646 |

Potential Water-Bearing Zones:

| | | |
|------------------------------------|----|-----|
| Sand: fine to coarse-grained | 10 | 88 |
| Sand: fine to coarse-grained | 22 | 165 |
| Sand: coarse-grained | 14 | 203 |
| Sand: fine to coarse-grained | 17 | 280 |
| Sand: fine to coarse-grained | 86 | 476 |
| Sand: fine to coarse-grained | 42 | 632 |

MACON COUNTY

Location: Few hundred feet east of City Water Works in
Montezuma Well No.: GGS 408
Owner: No. 3 City of Montezuma Elev.: 293
Driller: Layne-Atlantic Company
Drilled: January 1954

| | Thickness (feet) | Depth (feet) |
|--|---------------------|-----------------|
| Lower Eocene: Wilcox Group (Undifferentiated): | | |
| Sand: fine to coarse-grained, yellow, argillaceous | 7 | 7 |
| Paleocene: Midway Group: Clayton Formation: | | |
| Clay: gray, somewhat indurated, lignitic, finely micaceous | 9 | 16 |
| Limestone: gray, dense, crystalline (much calcitized), sandy, fossiliferous (macroshells) | 18 | 34 |
| Sand: fine to coarse-grained, angular | 14 | 48 |