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)
Clay: dark-gray to black, laminated, somewhat fissile, silty, micaceous (finely disseminated flakes imparting a speckled appearance), carbonaceous; interbedded sand, fine-grained, somewhat indurated at certain levels, subangular, very micaceous, phosphatic and glauconitic at various levels	110	3,730
Sand: coarse-grained, subrounded, varicolored, arkosic, grains of white to pink feldspar; interbedded clay; yellowish to brownish-green with brick-red to purple streaks (mottled), somewhat blocky, greasy-appearing, very micaceous, sandy	370	4,100[2]

Summary:

No samples	170	170
In Miocene (undifferentiated)	75	245
Oligocene (undifferentiated)	195	440
Upper Eocene (Ocala limestone)	65	505
No samples	795	1,300
In middle Eocene (Claiborne group, undifferentiated)	450	1,750
Lower Eocene (Wilcox group, undifferentiated)	545	2,295
Paleocene (Clayton formation)	375	2,670
No samples	340	3,010
In Upper Cretaceous (post-Eutaw, undifferentiated)	330	3,340
Upper Cretaceous (Eutaw formation, restricted)	70	3,410
Upper Cretaceous (Tuscaloosa formation)	690	4,100[2]

Potential Water-Bearing Zones:

Limestone	260	505

EFFINGHAM COUNTY

Location: In Springfield
Owner: City of Springfield
Driller: Virginia Supply and Well Company
Drilled: 1950

Well No.: GGS 211
Elev.: 75

	Thickness (feet)	Depth (feet)
No samples	20	20
In Miocene (Undifferentiated):		
Clay: dark-green, sandy, phosphatic, micaceous	50	70

[2]Not logged below 4100.

	Thickness (feet)	Depth (feet)
Reddish-brown to jet-black phosphatic pebbles abundant at 20-70.		
Clay: as above; limestone, white, somewhat saccharoidal, dense, sandy	125	195
Oligocene (Undifferentiated):		
Limestone: cream, nodular, fossiliferous (casts and molds of megafossils, some bryozoan remains, and Foraminifera)	22	217
Rotalia mexicana var., *Quinqueloculina* sp. at 195-217.		
Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: white, much calcitized, fossiliferous (common to abundant bryozoan remains and Foraminifera)	183	400
Operculinoides floridensis, Siphonina jacksonensis, Eponides cocoaensis, Eponides jacksonensis, Planulina cocoaensis, Planularia sp. at 217-240.		

Summary:

No samples	20	20
In Miocene (undifferentiated)	175	195
Oligocene (undifferentiated)	22	217
Upper Eocene (Ocala limestone)	183	400

Potential Water-Bearing Zones:

Limestone	205	400

Remarks:

Samples of poor quality and contaminated with sand from 195 to total depth.

EFFINGHAM COUNTY

Location: 2.5 mi. west of Springfield, on State Highway 119
Owner: No. 1 Effingham County High School
Driller: Cecil Turner
Drilled: 1955

Well No.: GGS 457
Elev.: 85

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine to medium-grained, angular, arkosic; inclusions of kaolin, light, gray, sandy, micaceous	30	30