

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

EFFINGHAM COUNTY

Location: 1 mi. north of Springfield, on State Highway 21
 Well No.: GGS 458
 Elev.: 70
 Owner: Effingham County Elementary and High School
 Driller: Cecil Turner
 Drilled: 1955

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine to medium-grained, angular, arkosic; clay; bluish-gray to yellowish-green to tan to red (mottled), sandy, finely disseminated phosphatic grains	55	55
Miocene (Undifferentiated):		
Sand: fine-grained, finely disseminated phosphatic grains; clay, dark-green, sandy, somewhat granular, micaceous, phosphatic	75	130
Reddish-brown to jet-black phosphatic pebbles common at 80.		
Limestone: cream, saccharoidal (much calcitized); sandy, phosphatic; clay, as above	10	140
Sand: fine to medium-grained, angular, phosphatic	10	150
Clay: dark-green, sandy, abundantly phosphatic, somewhat cherty	80	230
Limestone: light-gray, extremely dense (highly calcitized), saccharoidal, sandy, phosphatic, fossiliferous (macroshells and some bryozoan remains)	10	240
Sand: fine to coarse-grained, phosphatic; some limestone, as above	10	250
Oligocene (Undifferentiated):		
Limestone: gray to cream, nodular (much calcitized), fossiliferous (casts and impressions of megafossils, some echinoid and bryozoan remains, and Foraminifera)	40	290
<i>Dictyoconus</i> ¹ sp., <i>Gypsina globula</i> ¹ , <i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 250.		
Limestone: cream, massive (calcitized), somewhat crystalline (in texture), sparsely fossiliferous	65	355

¹Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Upper Eocene: Jackson Group: Ocala Limestone:		

Limestone: white, much calcitized, crystalline, fossiliferous, (abundant bryozoan and echinoid remains and Foraminifera) _____ 5 360

Robulus alato-limbatus, *Robulus arcuato-striatus* var., *Saracenaria* sp., *Eponides cocoaensis*, *Planularia* sp., *Marginulina sublituus*, *Textularia conica*, *Guttulina irregularis*, *Guttulina spicaeformis*, *Globulina gibba*, *Sigmomorphina semitecta* var., *Cancris sagra*, *Siphonina jacksonensis*, *Alabama obtusa*, *Discorbis assulata*, *Cibicides lobatulus* at 360.

Summary:

Pliocene to Recent (undifferentiated) _____	55	55
Miocene (undifferentiated) _____	195	250
Oligocene (undifferentiated) _____	105	355
Upper Eocene (Ocala limestone) _____	5	360

Potential Water-Bearing Zones:

Sand: fine to medium-grained _____	10	150
Sand: fine to coarse-grained _____	10	250
Limestone _____	110	360

EFFINGHAM COUNTY

Location: North of U.S. Highway 80 at Faulkville : Well No.: GGS 569
 Owner: No. 1 Savannah Foundation : Elev.: 42
 Drilled: 1959

	Thickness (feet)	Depth (feet)
Miocene (Undifferentiated):		
Sand: fine to coarse-grained, subrounded, arkosic; interbedded clay, dark-green to red (mottled), sandy, micaceous _____	128	128
Clay: dark-green, blocky, sandy, micaceous, phosphatic _____	79	207
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic _____	20	227
No samples _____	21	248
Clay: yellowish-green, sandy, finely disseminated black phosphatic? grains _____	61	309