

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)
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
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp. at 195-217.		
Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: white, much calcitized, fossiliferous (common to abundant bryozoan remains and Foraminifera)	183	400
<i>Operculinoides floridensis</i> , <i>Siphonina jacksonensis</i> , <i>Eponides cocoaensis</i> , <i>Eponides jacksonensis</i> , <i>Planulina cocoaensis</i> , <i>Planularia</i> 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
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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

Well No.: GGS 457

Elev.: 85

Owner: No. 1 Effingham County High School

Driller: Cecil Turner

Drilled: 1955

	Thickness (feet)	Depth (feet)
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Pliocene to Recent (Undifferentiated):

Sand: fine to medium-grained, angular, arkosic; inclusions of kaolin, light, gray, sandy, micaceous.....	30	30
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	Thickness (feet)	Depth (feet)
Sand: fine-grained, arkosic, finely disseminated phosphatic grains	25	55
Miocene (Undifferentiated):		
Sand: fine to medium-grained, somewhat phosphatic; clay, dark-green, somewhat granular, sandy, phosphatic, micaceous	45	100
Clay: dark-gray, sandy, micaceous, phosphatic	60	160
Reddish-brown, phosphatic fragments present at 120.		
Clay: as above, but somewhat cherty, fossiliferous (macroshells); interbedded limestone, white, sandy	60	220
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; some clay, as above	20	240
Clay: dark-green, blocky, phosphatic	37	277

Oligocene (Undifferentiated):

Limestone: gray to cream, nodular (much calcitized), cherty at depth, fossiliferous (casts and molds of megafossils, bryozoan remains, and Foraminifera)	83	360
<i>Rotalia mexicana</i> var., <i>Quinqueloculina</i> sp., <i>Robulus cultratus</i> , <i>Dictyoconus</i> ¹ sp. at 280.		
<i>Lepidocyclina</i> (<i>Polylepidina</i>) <i>antillea</i> ¹ at 290.		
<i>Gypsina globula</i> ¹ at 320.		

Summary:

Pliocene to Recent (undifferentiated)	55	55
Miocene (undifferentiated)	222	277
Oligocene (undifferentiated)	83	360

Potential Water-Bearing Zones:

Limestone	83	360
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¹Reworked(?) fossil of middle Eocene age.