

GEORGIA
STATE DIVISION OF CONSERVATION
DEPARTMENT OF MINES, MINING AND GEOLOGY
GARLAND PEYTON, Director

THE GEOLOGICAL SURVEY
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WELL LOGS OF THE
COASTAL PLAIN OF GEORGIA

by

Stephen M. Herrick, Geologist
United States Geological Survey



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ATLANTA
1961

GRADY COUNTY

Location: Center of town, south side of Atlantic Coast Well No.: GGS 205
 Line R.R., west side of City Water Works in Cairo Elev.: 240
 Owner: City of Cairo
 Driller: Layne-Atlantic Company
 Drilled: May 1950

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Clay: bluish-gray to tan to red (mottled), very sandy, limonitic.....	15	15
Sand: fine-grained, somewhat argillaceous, finely disseminated phosphate grains.....	15	30
Miocene (Undifferentiated):		
Clay: white to pale-green, blocky, tough, sandy, cherty at depth; interbedded sand, fine to coarse-grained, angular, phosphatic at depth.....	82	112
Chert prominent at 81-96.		
Brown phosphatic pebbles common at 96-112.		
Limestone: white, sandy, somewhat dolomitized at certain levels; interbedded clay, as above.....	182	294
Limestone: gray, nodular, rather massive, fossiliferous (casts and molds of megafossils and rare Foraminifera).....	61	355
<i>Archaias</i> sp. at 309-325.		
Oligocene (Undifferentiated):		
Limestone: cream, sandy, somewhat dolomitized at depth, fossiliferous (casts and molds of megafossils); beds of clay, dark-green, somewhat indurated, tough.....	122	477
In Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: light-brown, dense, nodular, somewhat dolomitized, fossiliferous (echinoid and bryozoan remains and Foraminifera).....	47	524
<i>Robulus</i> sp., <i>Quinqueloculina</i> sp., <i>Gypsina globula</i> at 494-509.		
Dolomitic limestone: brown, saccharoidal.....	63	587
Summary:		
Pliocene to Recent (undifferentiated).....	30	30
Miocene (undifferentiated).....	325	355
Oligocene (undifferentiated).....	122	477
In upper Eocene (Ocala limestone).....	110	587

	Thickness (feet)	Depth (feet)
Potential Water-Bearing Zones:		
Limestone	180	500

Remarks:

Water below depth of 500 not suitable because of excessive mineralization.

GRADY COUNTY

Location: 7 mi. north of Cairo

Well No.: GGS 493

Owner: No. 1 Shiver Elementary School

Drilled: 1956

	Thickness (feet)	Depth (feet)
Miocene (Undifferentiated):		
Clay: brick-red, mottled at depth, sandy, micaceous, limonitic.....	90	90
Clay: yellowish-green, sandy.....	40	130
Sand: fine-grained, angular.....	20	150
Limestone: white to brown, dolomitized at certain levels, sandy.....	120	270
Clay: dark-green, sandy.....	40	310
Limestone: as above.....	10	320
No samples.....	20	340

In Oligocene and Upper Eocene (Undifferentiated):

Limestone: cream, somewhat crystalline and calcitized, nodular, fossiliferous (echinoid and bryozoan remains and Foraminifera)	40	380
<i>Rotalia mexicana</i> var. at 340.		
No samples.....	20	400
Dolomitic limestone: brown, saccharoidal.....	?	400
No samples.....	20	420
Limestone: brown to cream, nodular, fossiliferous (Foraminifera); dolomitic limestone, as above.....	120	540
<i>Asterigerina subacuta</i> at 420.		
<i>Operculinoides</i> sp., <i>Lepidocyclina</i> sp. at 460.		
<i>Operculinoides</i> sp., <i>Lepidocyclina</i> sp. at 540.		