

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)
Summary:		
Pliocene to Recent (undifferentiated).....	45	45
Miocene (undifferentiated).....	205	250
Oligocene (undifferentiated).....	79	329

Potential Water-Bearing Zones:

Limestone	79	329
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CHATHAM COUNTY

Location:
 Owner: No. 1 American Petroleum Company
 Driller: Layne-Atlantic Company

Well No.: GGS 396
 Elev.: 16¹

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine-grained, phosphatic (finely disseminated).....	5	5
Clay: bluish-gray to red (mottled), very sandy, micaceous; sand, as above.....	5	10
Sand and clay: as above; some clay, dark-brown, somewhat indurated, lignitic, micaceous.....	8	18
Sand: coarse-grained (up to gravel size), subrounded, arkosic.....	7	25
Miocene (Undifferentiated):		
Clay: yellowish to dark-green, sandy, phosphatic, micaceous (finely disseminated flakes); interbedded dolomitic lime- stone, light-brown, saccharoidal, sandy, phosphatic.....	190	215
Phosphatic pebbles common at 75-85.		
Dolomitic limestone prominent at 140-150.		
Limestone: white, dense, sandy, phosphatic, fossiliferous (fragments, casts and molds of megafossils, and some Ostra- cods and Foraminifera).....	15	230
<i>Elphidium</i> sp., <i>Nonion pizarensis</i> , <i>Valvulineria floridana</i> , <i>Nonion advena</i> , <i>Discorbis subaraucana</i> , <i>Cibicides lobatulus</i> , <i>Cibicides concentricus</i> at 210-220.		
<i>Pyrgo</i> sp. at 220-230.		
No samples	10	240

¹Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
In Oligocene (Undifferentiated):		
Limestone: cream, somewhat crystalline (calcitized), rather massive, nodular, fossiliferous (casts and molds of Gastro-pods, bryozoan remains, and Foraminifera).....	70	310
<i>Quinqueloculina</i> sp., <i>Pyrgo</i> sp., <i>Rotalia mexicana</i> var., <i>Dic-tyoconus</i> ² sp., <i>Gypsina globula</i> ² at 240-260.		

In Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: light-gray to white at depth, crystalline (much calcitized), fossiliferous (macroshells, abundant echinoid and bryozoan remains, Ostracods, and Foraminifera).....	190	500
<i>Operculinoides</i> cf. <i>O. floridensis</i> at 300-320.		
<i>Operculinoides floridensis</i> at 340-360.		
Limestone: cream, granular (highly calcitized), fossiliferous (abundant bryozoan remains and abundant "larger Foraminifera")	220	720
<i>Asterocyclina</i> sp., <i>Camerina striatoreticulata</i> , <i>Operculina mariannensis</i> at 500-520.		
<i>Lepidocyclina</i> (<i>Polylepidina</i>) <i>antillea</i> ² at 520-540.		

Summary:

Pliocene to Recent (undifferentiated).....	25	25
Miocene (undifferentiated)	205	230
No samples	10	240
In Oligocene (undifferentiated).....	70	310
In upper Eocene (Ocala limestone).....	410	720

Potential Water-Bearing Zones:

Limestone	480	720
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Remarks:

Overall quality of well cuttings poor.

²Reworked (?) fossil of middle Eocene age.