

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)
Sand: coarse-grained, subangular, abundantly micaceous, arkosic, pyritiferous; interbedded with beds of clay, dark-brownish-green with red to purple streaks (mottled), silty, micaceous, sideritic at certain horizons	130	3,940
Lower Cretaceous? (Undifferentiated):		
Sand: coarse-grained, subangular to subrounded, varicolored, coarsely micaceous, arkosic; interbedded with many relatively thin stringers of clay, brick-red, silty, micaceous	280	4,220
Basement Complex:		
Volcanic tuff ¹	76	4,296

Summary:

No samples	90	90
Miocene (undifferentiated)	170	260
Oligocene (undifferentiated)	130	390
Upper Eocene (Ocala limestone)	190	580
Middle Eocene (Lisbon formation)	710	1,290
Middle Eocene (Tallahatta formation)	190	1,480
Lower Eocene (Wilcox Group, undifferentiated)	170	1,650
Paleocene (Clayton limestone)	180	1,830
Upper Cretaceous (Providence and Ripley, undifferentiated)	580	2,410
Upper Cretaceous (Cusseta and Blufftown, undifferentiated)	380	2,790
Upper Cretaceous (Blufftown formation)	465	3,255
Upper Cretaceous (Eutaw, restricted)	132	3,387
Upper Cretaceous (Tuscaloosa formation)	553	3,940
Lower Cretaceous (?) (undifferentiated)	280	4,220
Basement complex	76	4,296

ATKINSON COUNTY

Location: City of Pearson
 Owner: No. 2 City of Pearson
 Driller: Merrel Gray Drilling Company
 Drilled: 1955

Well No: GGS 425
 Elev.: 205²

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Clay: red, sandy, limonitic	10	10
Sand: fine to coarse-grained, limonitic, with inclusions of kaolin (clay; white, somewhat sandy), and some clay as above	30	40
Clay: tan to dark-brown, sandy	10	50

¹Reported by Paul L. Applin, 1951, U.S. Geol. Survey Circ. 91, p. 21.

²Average elevation taken from State Highway map.

	Thickness (feet)	Depth (feet)
Oligocene (Undifferentiated):		
Limestone: white to light-gray, extremely dense and crystalline, cherty, sandy, fossiliferous (some echinoid and bryozoan remains and Foraminifera)	94	350
<i>Rotalia mexicana</i> var. at 256-263.		
<i>Gypsina globula</i> ¹ at 263-275.		

Upper Eocene: Jackson Group: Ocala Limestone:

Limestone: cream, relatively soft, somewhat calcitized and granular, fossiliferous (echinoid and bryozoan remains and Foraminifera)	280	630
<i>Operculinoides floridensis</i> at 350-360.		
<i>Camerina striatoreticulata</i> at 600-615.		
Limestone: as above, interbedded with dolomitic(?) limestone, light-brown, saccharoidal	95	725
<i>Amphistegina pinarensis</i> var. at 630-645.		

Middle Eocene(?): Claiborne Group (Undifferentiated):

Limestone: cream, nodular, much calcitized, very sandy, fossiliferous (some bryozoan remains and Foraminifera)	14	739
<i>Lepidocyclina</i> sp. at 725-739.		

Summary:

Miocene (Hawthorn formation)	210	210
Miocene (Tampa limestone)	46	256
Oligocene (undifferentiated)	94	350
Upper Eocene (Ocala limestone)	375	725
Middle Eocene(?) (Claiborne group, undifferentiated)	14	739

Potential Water-Bearing Zones:

Limestone	280	630
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¹Reworked(?) fossil of middle Eocene age.