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

ATKINSON COUNTY

20

600

630

Location: 1,650 ft. north and 660 ft. east of southwest

corner of Land Lot 71, 7th Land District Owner: No. 1 Doster Ladson

Driller: Sun Oil Company

Drilled: January 1945

Well No.: GGS 107

Elev.: 222 (derrick floor)

· · · · · · · · · · · · · · · · · · ·	Thickness (feet)	Depth (feet)
No samples	90	90
In Miocene (Undifferentiated):	٠.	*
,	.	
Sand: fine to coarse-grained, subangular, phosphatic	10 .	100
Sand: as above; and clay, pale-green, somewhat indurated and tough, sandy	70·	170
Limestone: cream to light-brown, dense, somewhat saccharoidal, much calcitized, sandy, fossiliferous (molluscan shells); interbedded with sand and clay, as above	90	260
Oligocene (Undifferentiated):	(4)	
Limestone: cream, nodular, rather massive, cherty, sandy, fossiliferous (some Foraminifera)	130	390
Quinqueloculina sp., Rotalia mexicana var.,		
Asterigerina subacuta at 260-270.	•	
Upper Eocene: Jackson Group: Ocala Limestone:	÷	(1)
Limestone: cream, calcitized, fossiliferous (molluscan shells, echinoids, bryozoan remains and Foraminifera)	190	580
Camerina sp. at 400-410.		
Camerina sp., Lepidocyclina sp. at 440-450.		
Gypsina globula common at 460-470.		
Middle Eocene: Claiborne Group: Lisbon Formation:		

Dolomitic limestone: brown, rather massive, saccharoidal, sandy; some limestone, as above

Sand: medium to coarse-grained, subangular; dolomitic lime-

stone, as above ..

	Thickness (feet)	Depth (feet)
Limestone: cream, calcitized, somewhat nodular and loosely consolidated, granular, chalky, cherty at certain levels, fos- siliferous (Foraminifera); interbedded limestone, similar to above but partially dolomitized, light-brown, saccharoidal	690	1,290
Lepidocyclina sp. at 700-710.	9.4	
Discorinopsis gunteri at 810-820.	8	
Asterocyclina monticellensis at 930-940.		
Asterocyclina monticellensis, Lepidocyclina antillea at 1030- 1040.		
Discorbis inornatus at 1060-1070.		
	9	2.7
Tallahatta Formation:	•	
Dolomitic limestone: brown, saccharoidal, somewhat cherty, gypsiferous, glauconitic at depth; interbedded with limestone, cream, calcitized, granular, sparsely glauconitic, fossiliferous (Foraminifera)	190	1,480
Operculinoides sp., Asterocyclina sp. at 1330-1340.	•	
Lepidocyclina antillea common at 1350-1360.		
*		Ÿ.
Lower Eccene: Wilcox Group (Undifferentiated):	a: "	r
Limestone: white to cream, much calcitized, dense, massive, coarsely glauconitic, sandier at depth, fossiliferous at certain levels (molluscan shells and Foraminifera)		1,650
Paleocene: Midway Group: Clayton Formation:		
Paleocene: Midway Group: Clayton Formation: Indurated sand ¹ : fine-grained, micaceous, finely phosphatic, fossiliferous (fragments and molds of molluscan shells)	50	1,700
Indurated sand1: fine-grained, micaceous, finely phosphatic,	50	1,700 1,830
Indurated sand ¹ : fine-grained, micaceous, finely phosphatic, fossiliferous (fragments and molds of molluscan shells) Limestone: gray to cream, much calcitized, dense, coarsely glauconitic, sandy, fossiliferous (fragments and molds of	W100-30	÷0 .
Indurated sand ¹ : fine-grained, micaceous, finely phosphatic, fossiliferous (fragments and molds of molluscan shells) Limestone: gray to cream, much calcitized, dense, coarsely glauconitic, sandy, fossiliferous (fragments and molds of molluscan shells and some Foraminifera) Robulus midwayensis? at 1720-1730.	W100-30	÷0 .
Indurated sand ¹ : fine-grained, micaceous, finely phosphatic, fossiliferous (fragments and molds of molluscan shells) Limestone: gray to cream, much calcitized, dense, coarsely glauconitic, sandy, fossiliferous (fragments and molds of molluscan shells and some Foraminifera) Robulus midwayensis? at 1720-1730. Robulus midwayensis at 1740-1750.	130	÷0 .

¹This sand contains Operculinoides catenula and Pseudophragmina stephensoni in wells situated farther west, hence is tentatively placed in the Paleocene.

•		
	Thickness (feet)	Depth (feet)
Anomalina pseudopapillosa? at 1870-1880.		
Robulus navarroensis at 1890-1900.		
Robulus navarroensis, Globotruncana sp., Anomalina pseudopapillosa at 1940-1950.	•	
Cibicides harperi at 2030-2040.		
Clavulinoides trilatera, Globotruncana sp. at 2070-2080.		
Palmula reticulata at 2310-2320.	.,	
Spiroplectammina semicomplanata at 2390-2400.		
Cusseta and Blufftown Formations (Undifferentiated):	1	¥:
Marl: as above but more abundantly fossiliferous	380	2,790
Bolivinoides decorata at 2410-2420.	*	
Planulina texana at 2610-2620.	v.	,
		: *
Blufftown Formation:		*
Marl: as above but coarsely glauconitic	465	3,255
Glauconite prominent at 2790-2800.	ě.	
Vaginulina texana at 3050. Inoceramus prisms common to abundant at 2950-2960.	ř	
Eutaw Formation (Restricted):		•
Indurated sand: fine to medium-grained, subangular, mica- ceous, phosphatic, glauconitic, fossiliferous at certain levels (fish teeth and molluscan shells); interbedded with thin	1 .	
stringers of clay, dark-brownish-green, laminated, silty,	132	3,387
micacous		0,001
Tuscaloosa Formation:		
Sand: fine to coarse-grained, subangular, abundantly mica-	٠	
ceous, glauconitic at certain horizons, pyritiferous, arkosic; interbedded with relatively thin stringers of clay, dark-		•:
brown to brownish-green, somewhat laminated, silty, finely		*
micaceous; a few thin beds of lignite	291	3,678
Shale (or thinly laminated clay): dark-brown, laminated, silty, micaceous, lignitic, fossiliferous at certain levels (impressions and fragments of molluscan shells); interbedded with scattered tongues of indurated sand, fine to mediumgrained, subangular, micaceous, glauconitic, fossiliferous		,,
at various levels (oyster shells)	132	3,810

	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		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		4,220
Basement Complex:		
Volcanic tuff ¹	76	4,296
Summary:		
No samples	90	90
Miocene (undifferentiated)		260
Oligocene (undifferentiated)		390
Upper Eocene (Ocala limestone)		580
Middle Eocene (Lisbon formation)		1,290
Middle Eocene (Tallahatta formation)		1,480
Lower Eocene (Wilcox Group, undifferentiated)		1,650
Paleocene (Clayton limestone)		1,830
Upper Cretaceous (Providence and Ripley, undifferentiated)		2,410
		2,790
Upper Cretaceous (Cusseta and Blufftown, undifferentiated)		270 A CO CO CO CO
Upper Cretaceous (Blufftown formation)		3,255
Upper Cretaceous (Eutaw, restricted)	132	3,387
Upper Cretaceous (Tuscaloosa formation)		3,940
Lower Cretaceous (?) (undifferentiated)		4,220 $4,296$
АТКІ	NSON CO	UNTY
Location: City of Pearson Well	No: GGS	195
	: 205 ²	420
Driller: Merrel Gray Drilling Company	. 200	$\Phi_{i,i}$
Drilled: 1955		,
Diffied. 1999	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		· · · · · · ·
Clay red sandy limonitie	10	10
Clay: red, sandy, limonitic Sand: fine to coarse-grained, limonitic, with inclusions of		10
	•	
kaolin (clay; white, somewhat sandy), and some clay as	1 20	40
above		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.