### 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

#### Remarks:

Owing to unusually deep dissection (rugged topography), it is possible that the sands above 538 feet may be dry through ground-water leakage (spring discharge). Hence, in order to be safe, water wells in this area should be completed in the more deeply-buried sands of Tuscaloosa age.

CLAY COUNTY

	CLAY COUNTY		
Owner: No. 1 Speight School Driller: Layne-Atlantic Company		l No.: GG 7.: 390	S 402
Drilled: August 1954	¥.	Thickness (feet)	Depth (feet)
Middle Eocene: Claiborne Group: Lisbon Formation:			¥
Sand: fine to coarse-grained; clay, tan to red (mottle sandy, limonitic; some limestone, yellow, much leached, ire stained, fossiliferous at depth (bryozoan remains a Foraminifera)	on- ind	27	90
			27
Limestone: as in above sample		18	45
Cibicides westi at 27-35.		!	
Clay: yellowish-green, sandy, somewhat indurated; some lir stone, gray, dense, crystalline, sandy, fossiliferous (mac			्र
shells)		- 21	66
Clay: yellowish-green, with tan to red streaks (somewh mottled), blocky; micaceous; some limestone, as above		20	. 86
Tallahatta Formation:			
Clay: yellowish-green to light-gray, blocky, somewhat ind ated and tough at depth, micaceous, fossiliferous (so Foraminifera); limestone, light-gray, dense, sandy, coars glauconitic	me	· 24	110
Cibicides tallahattensis, Valvulineria jacksonensis var. 86-110.	at *	1/34	*
Sand: fine to coarse-grained, subangular grains, spars phosphatic, indurated at depth, fossiliferous (a coquina)		80	190
Lower Eccene: Wilcox Group (Undifferentiated):	n' ,/		'n
Clay: dark-gray, sandy, carbonaceous, micaceous, pyritifer and fossiliferous at depth (some Foraminifera); limesto gray, dense, coarsely glauconitic, sandy	ne,	19	209
Eponides dorfi, Anomalina sp., Asterigerina sp. at 190-2	209.	4.5	

	Thickness (feet)	Depth (feet)
Clay: as above	103	312
Sand: fine to medium-grained, subangular, abundantly glau- conitic; some clay, as above	20	332
Paleocene: Midway Group: Clayton Formation:		
Clay: gray to tan to red (mottled), sandy, micaceous, bauxitic(?); sand, fine to coarse-grained, subangular, scattered grains of pale-green quartz		350
Clay (or fuller's earth): light-gray, sandy, carbonaceous, micaceous	20	370
Indurated sand: fine-grained, somewhat argillaceous, glauco- nitic, fossiliferous (Foraminifera)		390
Operculinoides catenula common at 385-391.		
Limestone: light-gray, somewhat argillaceous, sandy, fossili- ferous (casts and fragments of megafossils, bryozoan re- mains, Ostracods, and Foraminifera)		500
Summary:	0.40	
Middle Eocene (Lisbon formation)  Middle Eocene (Tallahatta formation)  Lower Eocene (Wilcox group, undifferentiated)  Paleocene (Clayton formation)	104 142	86 290 332 500
Potential Water-Bearing Zones:		
Sand: fine to coarse-grained		190 500

### Remarks:

A fault, postulated on the different sections penetrated by this well and well 435, is indicated between this well and well 435. Accordingly, this well, on account of its much thicker, much more complete section, probably represents the down-thrown side (of the fault). More drilling is needed before the amount of throw, or displacement, can be determined.