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

Stephen M. Herrick, Geologist United States Geological Survey



Prepared cooperatively by the U. S. Geological Survey

ATLANTA 1961

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, somewhat indurated, angular, micaceous, glauconitic, phosphatic, fossiliferous (macro-		
shells)!	40	2,450
Tuscaloosa Formation:	s	
Sand: fine to coarse-grained, angular, a few grains of "rose quartz"; interbedded clay, yellowish-green to purple (mottled), sandy, micaceous	290	2,740
Clay or Shale: dark-gray to black, fissile, carbonaceous, micaceous (finely disseminated producing a speckled appearance), fossiliferous (imprints of megafossils at certain levels	s) -290	3;030
Sand: medium to coarse-grained, angular	30	3,060
Sand: coarse-grained, angular, arkosic, massive, a few grains of "rose quartz"; interbedded clay, brick-red to dark-	· ·	. .
green (mottled), waxy, sideritic, micaceous, sandy	115	3,175
Summary:	× 144	. 16
No samples	80	. 80
In middle Eocene (Lisbon formation)	120	200
Middle Eocene (Tallahatta formation)		320
Lower Eocene (Wilcox group, undifferentiated)	320	640
Paleocene (Clayton formation)	480	1,120
Upper Cretaceous (post-Tuscaloosa, undifferentiated)	1,330 -	2,450
Upper Cretaceous (Tuscaloosa formation)		3,175
	, »	
Potential Water-Bearing Zones:		ē,
Sand: fine to medium-grained.	: 60 ···.	620 1,040
the control agency		
and the second	75	
EC	HOLS CO	UNTY
Location: 660 ft. south, 666 ft. east of northwest corner of We	11 No.: GG	
	v.: 181 :	
Owner: No. 1 Bennett and Langdale Driller: Humble Oil and Refining Company	(derrick	1100r)
Drilled: May 1949	.,	
Difficu. May 1040	Thickness (feet)	Depth (feet)
No samples	170	170

7.7	Thickness	Depth
In Miocene (Undifferentiated):	(feet)	(feet)
Limestone: white, calcitized, dense, sandy, sparsely phos-	40	210
Limestone: brown, somewhat dolomitized, much calcitized, rather massive, sandy, sparsely phosphatic	±™ 10 ≪	220
Limestone: cream, much calcitized, granular, very sandy	20	240
Clay: considerably indurated, bluish-green, sandy	5	245
Oligocene (Undifferentiated):		
Limestone: cream, much calcitized, dense, rather massive, somewhat nodular, fossiliferous (bryozoan remains and some Foraminifera) Dictyoconus ¹ sp. at 245-250.	135	380
Quinqueloculina sp., Dictyoconus sp., at 250-255.	9 3 8	
Limestone: light-gray, massive, much calcitized, somewhat nodular, fossiliferous (some macroshells, echinoid and bryozoan remains, and Foraminifera)	60	440
Operculinoides sp. at 390-395.	de j	200 1
Upper Eocene: Jackson Group: Ocala Limestone:	'}	,
Limestone: cream, granular, somewhat loosely consolidated, fossiliferous (Foraminifera) Pseudophragmina flintensis at 450-455.	65 15)	505
No samples	795	1,300
In Middle Eocene: Claiborne Group (Undifferentiated): ** rather to the Country of the Country of the Country at certain levels; interbedded limestone, cream, calcitized, granular, rather loosely consolidated, cherty, gypsi-	- Qt	FAGE and
ferous, sparsely glauconitic	450	1,750
Lower Eocene: Wilcox Group (Undifferentiated): Sand: fine to medium-grained, subangular, coarsely glauco- nitic, fossiliferous (some Foraminifera)		5 1,780
Asterocyclina sp. at 1770-1780.	No obertoteny o Governe o	
Limestone: cream, somewhat nodular, calcitized, cherty; interbedded clay, pale-greenish-gray, silty, micaceous		1,965
IPI - I - I (0) Co. II - C - IIII - C	·m	1.0

Reworked (?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Sand: fine to medium-grained, subangular, somewhat indurated at certain levels, coarsely glauconitic, pyritiferous	35	2,000
Limestone: cream, granular, somewhat loosely consolidated, cherty, fossiliferous (some Foraminifera at certain levels)		
Asterocyclina sp. common at 2000-2010.	a, 1	
Paleocene: Midway Group: Clayton Formation:		
Clay: rather dark-greenish-gray, laminated, silty, micaceous	. 50	2,345
Limestone: cream to gray, rather dense and calcitized, granular, somewhat loosely consolidated at depth, coarsely glauconitic, fossiliferous at certain levels (Foraminifera) Asterocyclina sp. common at 2350-2360. Marl: light-gray, silty, micaceous, sparsely fossiliferous	115	2,460
(some Foraminifera); interbedded limestone, as above	210	2,670
No samples In Upper Cretaceous: Post-Eutaw (Undifferentiated);	340	3,010
Marl: light-gray, brownish-gray at depth, chalky, micaceous, glauconitic, pyritiferous, fossiliferous (some megafossils, Ostracods, and Foraminifera); interbedded sand at depth, fine-grained, subangular to subrounded, micaceous, glauconitic, and supremental experiences and supremental experiences.)d*	
nitic; sand, somewhat indurated at certain levels, sub-	* i at1	F
angular to subrounded, micaceous, phosphatic, fossiliferous at certain levels (some vertebrate remains such as fish teeth and macroshells)	_ 330	3,340
Kyphopyxa christneri at 3010-3020. Vaginulina texano at 3070-3080.		
The second of th		*
Eutaw Formation (Restricted):		% ,⊀
Sand: light-gray, fine-grained, subangular to subrounded, phosphatic, micaceous, pyritiferous, fossiliferous at certain levels (fish teeth and abundant macroshells)		3,410
Tuscaloosa Formation:		
Clay: pale-green, laminated, micaceous, somewhat sandy; in- terbedded sand, coarse-grained, subangular, micaceous,		· ·
limonitie	210	3,620

	Thickne (feet)	
Clay: dark-gray to black, laminated, micaceous (finely disseminated flak appearance), carbonaceous; interbe somewhat indurated at certain level caceous, phosphatic and glauconitic	tes imparting a speckled dded sand, fine-grained, ls, subangular, very mi-	3,730
Sand: coarse-grained, subrounded, var of white to pink feldspar; interbe brownish-green with brick-red to po somewhat blocky, greasy-appearing	dded clay; yellowish to urple streaks (mottled),	4,100 ²
· · · · · · · · · · · · · · · · · · ·	, *	1
Sum	mary:	
No samples	100	
In Miocene (undifferentiated)		
Oligocene (undifferentiated)		
Upper Eocene (Ocala limestone)		
No samples (Claiborne group, und		
		, , , , , , , ,
Lower Eocene (Wilcox group, undiffere	intrated) 949	* v
Paleocene (Clayton formation)	375	
No samples		Cer Cran Control
In Upper Cretaceous (post-Eutaw, und	lifferentiated) 330	3,340
Upper Cretaceous (Eutaw formation, r	estricted)10	3,410
Upper Cretaceous (Tuscaloosa formation	n)690	4,1002
4	, , , , , , , , , , , , , , , , , , ,	
Potential Water	r-Bearing Zones:	
Timestone		
Limestone		505
er s	• • • •	·
	and the second	
r	. 4	20 n
se e	8	
	THEFT	COTINEY
	EFFINGHAM	COUNT
Location: In Springfield	Well No.: GGS	211
Owner: City of Springfield	, Elev.: 75	· • • •
Driller: Virginia Supply and Well Con		- ·n
Drilled: 1950		
	Thickne	
	Thickne	
No samples	Thickne	(feet)
No samples	Fi Thickn (feet)	(feet)
•	Fi Thickn (feet)	(feet)
In Miocene (Undifferentiated):	Thickne (feet)	20
•	Thickne (feet)	20

²Not logged below 4100.