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)
Oligocene (Undifferentiated):		
Limestone: as above; with fragments of limestone, white, dense (much calcitized), fossiliferous (casts of megafossils and Foraminifera)	. 70	510
Rotalia mexicana var. at 440-452.		
No samples	20	530
210 341119100		000
In Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: white, rather massive, much calcitized, fossilifer- ous (bryozoan remains, macroshells and Foraminifera)	120	650
Operculinoides floridensis, Asterocyclina sp. at 530-550. Asterocyclina nassauensis, Gypsina globula, Pseudophragmina flintensis at 550-570.	,	3
Summary:		
Pliocene to Recent (undifferentiated)	182	182
In Miocene (undifferentiated)		440
Oligocene (undifferentiated)		510
No samples	20	530
In upper Eocene (Ocala limestone)	120	650
Potential Water-Bearing Zones:	.,	
Limestone	210 :	650
*	• •	$\sigma = 0.1$
•		
	BERTY CO	UNTY
Owner: No. 1 Jelks-Rogers Ele Driller: E. B. LaRue (de	ll No.: GG v.: 26 errick floor	
Drilled: 1953	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine to medium-grained, angular, finely disseminated black phosphatic grains; interbedded clay, dark-gray, silty,	,	
micaceous	80	80
Sand: coarse-grained, subangular, arkosic	30	110
Miocene (Undifferentiated):	,	
Clay: dark-green, sandy, phosphatic	175	285
Claystone, dark-brown, dense, sandy, micaceous, prominent at 240-260.		

	Thickness (feet)	Depth (feet)
Dolomitic limestone: light-brown, saccharoidal, sandy, phos- phatic	' 45	330
Clay: dark-green, sandy, phosphatic	15 .	345
Limestone: white, massive, sandy, phosphatic, fossiliferous (fragments, casts and molds of megafossils)	30	. 37 5
Oligocene (Undifferentiated):	W)	. •
Limestone: light-gray, somewhat chalky (weathered?), nodu- lar, calcitized, fossiliferous (bryozoan remains and Fora- minifera)	90	465
Rotalia mexicana var. at 400-420.	*	
Asterocyclina ¹ sp., Gypsina globula ¹ at 440-460.		
Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: cream, rather massive, nodular (calcitized), fos- siliferous (macroshells, echinoid and bryozoan remains, and some Foraminifera)	335	. 800
Operculinoides cf. O. floridensis at 460-480.		,
Gypsina globula at 480-500.		
Asterocyclina nassauensis at 500-520.		
Pseudophragmina flintensis at 520-540.) x	
Camerina striatoreticulata at 700-720.		٠,
Amphistegina pinarensis var. at 740-760.	1	
Lepidocyclina (Polylepidina) antillea ¹ at 1000-1020.		
Limestone: as above, but granular, loosely consolidated	240	1,040
Middle Eocene: Claiborne Group: Lisbon Formation:		100
Limestone: white, massive, somewhat nodular (calcitized), coarsely but sparsely glauconitic, fossiliferous (macro-	a *	
shells, echinoid and bryozoan remains and Foraminifera)	4 0	1,080
Asterocyclina monticellensis at 1040-1060. Discorbis inornatus at 1060-1080.	*	
Limestone: as above; and dolomitic limestone, gray to light- brown, saccharoidal, sparsely glauconitic, gypsiferous	220	1,300
Limestone: cream, granular, loosely consolidated, cherty	135	1,435
Chert abundant at 1320-1340.		

¹Reworked (?) fossil of middle Eocene age.

· · · · · · · · · · · · · · · · · · ·	Thickness (feet)	Depth (feet)
Tallahatta Formation:		
Marl: brownish-green, somewhat indurated, silty, glauconitic, micaceous, pyritiferous, fossiliferous (Foraminifera)	70	1,505
Cyclammina sp., Robulus alato-limbatus, Marginulina vaca- villensis, Gyroidina soldanii var., Reussella subrotundata, Valvulineria jacksonensis var., Cibicides pippeni var., Cibi- cides blanpiedi at 1460-1480.		n s s s
Lower Eocene: Wilcox Group (Undifferentiated):		
Limestone: light-brown, argillaceous, somewhat granular and loosely consolidated, glauconitic, micaceous, cherty at depth.	175	1,680
Robulus sp., Eponides cf. E. dorfi at 1500-1520.		•
Indurated sand: light-gray, medium-grained, coarsely but abundantly glauconitic; grades downward into limestone, cream to light-gray, much calcitized, rather dense, finely	į "ne"	op,
glauconitic (a pepper and salt appearance), cherty at cer- tain levels	160 44	1,840
Paleocene: Midway Group: Clayton Formation:		•
Marl: dark-gray, somewhat indurated and tough, silty, coarsely glauconitic, micaceous, fossiliferous (Foraminifera); interbedded indurated sand, light-gray, fine-grained, micaceous, fossiliferous (Foraminifera)	. 60	, 1,900
Spiroplectammina wilcoxensis, Nodosaria affinis, Polymorphina cf. P. cushmani, Guembelina sp., Anomalina acuta at 1860-1880.		·**
Robulus midwayensis at 1890-1900.	·, !	, April 185
Limestone: light-gray, rather dense, crystalline, sandy, coarsely glauconitic, fossiliferous (Foraminifera)	40	1,940
Robulus pseudo-mamilligerus, Robulus cf. R. turbinatus at 1900-1920.	i . tuan	·
Vaginulina longiforma at 1920-1940.	1 1	
Limestone: gray, sandy, glauconitic; interbedded marl, gray, glauconitic, fossiliferous (Foraminifera)	155	2,095
Robulus midwayensis at 1960-1980.	* (*	4.
Limestone (or calcareous sandstone): gray, sandy	185	2,280

Upper Cretaceous: Post-Eutaw (Undifferentiated):	Thickness (feet)	Depth (feet)
Marl: gray to brown at depth, carbonaceous, somewhat fissile at depth, chalky, silty, much sandier at depth, micaceous, glauconitic, pyritiferous		3,470
Guembelina sp. at 2280-2290. Planulina taylorensis at 2740-2750. Kyphopyxa christneri at 3090-3100. Vaginulina texana at 3290-3300.	1	
Eutaw Formation (Restricted):	v.	
Sand: fine to medium-grained, somewhat indurated, phosphatic, fossiliferous (macroshells); interbedded clay, gray, micaceous, carbonaceous, somewhat fissile		3,615
Tuscaloosa Formation:	3	
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, yellowish-green to red to purple (mottled), sandy, micaceous		3,870
Clay (or shale): dark-gray to black, fissile, carbonaceous, micaceous (finely disseminated); interbedded sand, fine to coarse-grained, angular, arkosic		3,965
Indurated sand: fine to coarse-grained, glauconitic	20	3,985
Sand: fine to coarse-grained, angular, arkosic; interbedded clay, yellowish-green to red to purple, greasy, sandy, mica-	••	4,250
Basement Complex (Undifferentiated):		
Crystalline Rock	4	4,254
Summary:	.r.	
Pliocene to Recent (undifferentiated) Miocene (undifferentiated) Oligocene (undifferentiated)	265 90	110 375 465
Upper Eocene (Ocala limestone) Middle Eocene (Lisbon formation) Middle Eocene (Tallahatta formation)	395 70	1,040 1,435 1,505
Lower Eocene (Wilcox group, undifferentiated) Paleocene (Clayton formation) Upper Cretaceous (post-Eutaw, undifferentiated)	335 440	1,840 2,280 3,470
Upper Cretaceous (Eutaw'formation, restricted) Upper Cretaceous (Tuscaloosa formation) Basement complex (undifferentiated)	145 635	3,615 4,250 4,254

Thickness Depth (feet) (feet) Potential Water-Bearing Zones: Limestone 1.080 Remarks: Overall quality of cuttings poor. LIBERTY COUNTY Location: Taylors Creek, Camp Stewart Well No.: GGS 460 Owner: U.S. Government (War Department) Elev.: 50 Driller: M. M. Gray Drilling Company Drilled: 1955 Thickness Depth (feet) (feet) Pliocene to Recent (Undifferentiated): Sand: fine-grained, limonitic; interbedded clay, bluish-gray to tan to red (mottled), sandy ______ 40 40 Sand: coarse-grained, rounded, arkosic; clay, dark-green, 140 sandy, micaceous In Miocene (Undifferentiated): 40 Clay: dark-green, sandy, micaceous 180 Clay: as above; interbedded limestone, light-gray, saccharoidal (much calcitized), sandy, phosphatic 30 210 Clay: bluish-gray, indurated, sandy, cherty; interbedded limestone, light-gray, saccharoidal (much calcitized), sandy, phosphatic, fossiliferous (casts and impressions of megafossils) 110 Limestone: gray to light-brown, saccharoidal (much calcitized), sandy, phosphatic, dolomitized at certain levels, fossiliferous (fragments and casts of megafossils) 70 390 Oligocene (Undifferentiated): Limestone: cream, massive, nodular (much calcitized), fossiliferous (Foraminifera) 410 .

Quinqueloculina sp., Rotalia mexicana var. at 390-400.