## 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)
Summary:		
Pliocene to Recent (undifferentiated) Miocene (undifferentiated) Oligocene (undifferentiated) Upper Eocene (Ocala limestone) Middle Eocene (Lisbon formation)	223 88 372	47 270 358 730 1,000
Middle Eocene (Tallahatta formation)	88	1,088
Potential Water-Bearing Zones:		
Limestone	620	890
СНА	гнам со	UNTY
Location: Port Wentworth Well Owner: No. 1 Savannah Electric and Power Company Driller: Layne-Atlantic Company	No.: GGS : 16	523
	Thickness (feet)	Depth (feet)
No samples	60	60
Sand: coarse-grained, subrounded, arkosic; clay, dark-brown, carbonaceous, and micaceous	, 10	70
Miocene (Undifferentiated):  Sand: fine to coarse-grained, phosphatic	10	80
Dark-green chert prominent at 170-180.	,	
Clay: dark-green, sandy, phosphatic and cherty at depth	180	260
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic	10	270
No samples,	10	280
Limestone: light-gray to white, dense, sandy, phosphatic, fos- siliferous (fragments, casts and molds of megafossils, bryo- zoan remains, and Ostracods)	20	300

Oligocene (Undifferentiated):	Thickness (feet)	Depth. (feet)
Limestone: white, somewhat soft and chalky (weathered?) fossiliferous (echinoid and bryozoan remains and some Fora- minifera)	. 15	315
Asterocyclina <sup>1</sup> sp., Gypsina globula <sup>1</sup> , Eponides byramensis, Robulus articulatus, Discorbis cf. D. tentoria at 300-310.		
Dictyoconus¹ sp., Quinqueloculina sp. at 320-330.	* *	
Limestone: cream, saccharoidal (much calcitized), fossiliferous (Foraminifera)	45	360
Upper Eocene: Jackson Group: Ocala Limestone:	90	
Limestone: light-gray, crystalline (much calcitized), dense, massive, fossiliferous (fragments and molds of megafossils, bryozoan remains, and some Foraminifera)	. 18	378
Limestone: white, somewhat crystalline (much calcitized), fossiliferous (abundant bryozoan remains and some Fora-		
minifera)  Limestone: light-gray, crystalline (highly calcitized), dense, pyritiferous, coarsely glauconitic at depth, fossiliferous (macroshells, abundant echinoid and bryozoan remains, and Foraminifera)	30	408
Limestone: cream, somewhat softer than above, granular (in texture), fossiliferous (macroshells, abundant echinoid and bryozoan remains, and Foraminifera)	_ 209	694
Camerina striatoreticulata, Gypsina globula, Operculina mariannensis prominent at 490-500.  Lepidocyclina antillea <sup>1</sup> at 559-569.	,	
Middle Eccene: Claiborne Group: Lisbon Formation:		• '
Limestone: white to light-gray, massive, crystalline, coarsely but sparsely glauconitic, fossiliferous (fragments, casts and molds of megafossils, abundant echinoid and bryozoan re- mains, and some Foraminifera); interbedded limestone, light-gray, saccharoidal	132	. 826
Lepidocyclina antillea? at 699-709.  Asterocyclina monticellensis at 696-706.		
Limestone: cream, granular, cherty, pyritiferous	_ 110	936
Tallahatta Formation:		
Limestone: cream, granular, cherty, pyritiferous, abundantly glauconitic, fossiliferous (Foraminifera)	20	956
Asterocyclina sp., Cibicides blanpiedi at 936-946.	. 4	

Reworked (?) fossil of middle Eocene age.

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	Thickness	Depth
G.,	(feet)	(feet)
Summary:		
No samples	60	60
In Pliocene to Recent (undifferentiated)	10	70
Miocene (undifferentiated)	230	300
Oligocene (undifferentiated)	60	360
Upper Eocene (Ocala limestone)	334	694
Middle Eocene (Lisbon formation)	242	936
Middle Eccene (Tallahatta formation)	20	956
**		-
Potential Water-Bearing Zones:		
	`	
Limestone	526	826
* **		•
₩.	-	
	CHATHAM CO	UNTY
Taradani Tala at YYana	Wall Ma . COS	F0E
Location: Isle of Hope	Well No.: GGS	030
Driller: A. E. Cory and Son	Elev.: 16 <sup>1</sup>	
Drilled: 1956	. m	. n.34
	Thickness (feet)	Dept.
Sand: fine-grained to coarser-grained at depth, finely dis		
nated phosphatic grains; interbedded clay, dark-gr	ay to	
black, somewhat fissile, lignitic, micaceous, fossilit		* •
(megafossils at certain levels)	50	5
7	i 3	
Macroshells prominent at 15-30.		
Miocene (Undifferentiated):		
	''	÷
Clay: dark-green, sandy, much sandier at depth, phosph	atic 140	- 19
7		
Limestone: light-gray to light-brown, very dense (much		Ė
tized), sandy, phosphatic, dolomitized at certain		۸.
fossiliferous (casts and molds of megafossils)	45	23
, ch		
Oligocene (Undifferentiated):		
Limestone: light-gray, dense (much calcitized), gra		
crystalline, sandy, fossiliferous (some echinoid remain	is and	
Foraminifera)	45	28
Rotalia mexicana var., Quinqueloculina sp. at 240-250.		F
Dictyoconus2 sp., Nonionella hantkeni var. at 260-270.		

<sup>&</sup>lt;sup>1</sup>Average elevation taken from State Highway map., <sup>2</sup>Reworked(?) fossil of middle Eocene age.