

**GEORGIA**  
**STATE DIVISION OF CONSERVATION**  
DEPARTMENT OF MINES, MINING AND GEOLOGY  
GARLAND PEYTON, Director

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**THE GEOLOGICAL SURVEY**  
Bulletin Number 70

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**WELL LOGS OF THE**  
**COASTAL PLAIN OF GEORGIA**

by

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Prepared cooperatively by the U. S. Geological Survey

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**ATLANTA**  
**1961**

	Thickness (feet)	Depth (feet)
<b>Oligocene and Upper Eocene (Undifferentiated):</b>		
Dolomitic limestone: light-brown, saccharoidal .....	287	803
<i>Pyrgo?</i> sp. at 603-618.		
<i>Rotalia mexicana</i> var. at 680-700.		
Limestone: cream, much calcitized, granular, rather loosely consolidated and porous, fossiliferous (some "small" Foraminifera) .....	102	905
<i>Cibicides ocalanus</i> , <i>Uvigerina dumblei</i> at 803-823.		
<i>Robulus alato-limbatus</i> , <i>Siphonina jacksonensis</i> , <i>Uvigerina dumblei</i> , <i>Dentalina jacksonensis</i> at 823-844.		

**Summary:**

No samples .....	10	10
In Miocene (undifferentiated) .....	506	516
Oligocene and upper Eocene (undifferentiated) .....	389	905

**Potential Water-Bearing Zones:**

Limestone .....	102	905
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**Remarks:**

The limestone section represented by this well is composed largely of dolomitic limestone which yields mineralized water. Hence, this area presents a problem in searching for satisfactory aquifers. There seem to be two possibilities in the solution of this problem, both requiring careful exploration however. The shallower-lying limestones of Miocene age may carry some ground water. Likewise the limestones occurring below 800 feet might deserve further development. However it is known that the mineralization of ground water in this area increases with depth.

**TIFT COUNTY**

Location: About 1 mi. east of Tifton  
 Owner: No. 1 Armour and Company  
 Driller: Layne-Atlantic Company  
 Drilled: June 1945

Well No.: GGS 82  
 Elev.: 330

	Thickness (feet)	Depth (feet)
No samples .....	10	10
<b>In Miocene (Undifferentiated):</b>		
Clay: mottled, sandy, limonitic .....	5	15

	Thickness (feet)	Depth (feet)
Clay: light-gray, sandy; interbedded sand, fine to coarse-grained, angular .....	92	107
Clay: dark-green, sandy .....	17	124
Limestone: white, dense, crystalline, sandy; interbedded beds of clay, dark-green, sandy .....	132	256
<i>Sorites</i> sp. at 215-216.		

**Oligocene (Undifferentiated):**

Limestone: cream to white at depth, nodular, much calcitized; massive, fossiliferous (some macroshells, echinoid and bryozoan remains and Foraminifera) .....	119	375
<i>Rotalia mexicana</i> var., <i>Pyrgo</i> sp., <i>Quinqueloculina</i> sp. at 256-264.		
<i>Operculinoides</i> sp., <i>Dictyoconus</i> <sup>1</sup> sp. at 260-276.		
<i>Dictyoconus</i> <sup>1</sup> sp. common at 347-357.		
No samples .....	21	396

**In Upper Eocene: Jackson Group: Ocala Limestone:**

Limestone: white, crystalline, somewhat calcitized, fossiliferous (macroshells, echinoid and abundant bryozoan remains, and common to abundant Foraminifera) .....	105	501
<i>Asterocyclina</i> sp., <i>Gypsina globula</i> common at 396-419.		
<i>Operculinoides floridensis</i> , <i>Heterostegina ocalana</i> at 459.		

**Summary:**

No samples .....	10	10
In Miocene (undifferentiated) .....	246	256
Oligocene (undifferentiated) .....	119	375
No samples .....	21	396
In upper Eocene (Ocala limestone) .....	105	501

**Potential Water-Bearing Zones:**

Limestone .....	241	501
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<sup>1</sup>Reworked(?) fossil of middle Eocene age.