

**GEORGIA
STATE DIVISION OF CONSERVATION**

DEPARTMENT OF MINES, MINING AND GEOLOGY
GARLAND PEYTON, Director

THE GEOLOGICAL SURVEY
Bulletin Number 74

**LOGS OF SELECTED WELLS IN THE
COASTAL PLAINS OF GEORGIA**

by

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ATLANTA
1964

Depth (feet)	Description
(corrected depth	Top 3 ft. Sandstone, gray, medium-grained, argillaceous, glauconitic, micaceous, somewhat phosphatic.
3210-3224)	2nd 22 in. Shale, dark-gray, flaky, containing partings of light-gray, soft, medium-grained, glauconitic, micaceous sand. 3d 22 in. Sand-streaked shale like middle part of core.
3216-3258	Cuttings are mainly, gray shale like samples below 3050 ft., a little-fine-grained sand and glauconite, and cavings from higher levels.
3258-3268	Core 3. Recovery 10 ft.
(corrected depth	Top 1½ ft. Sandstone, gray, fine to very coarse grained, containing pebbles of phosphatic material, glauconite, and large fragments of pyritized lignite. The sandstone is streaked with lenses of gray, flaky shale like core 2 at 3197-3216 ft.
3272-3282)	Middle 3½ ft. Shale, gray, flaky, slightly micaceous, containing partings of fine-grained, glauconitic sandstone. The bottom 4 in. of this part of core 3 is gray, hard, micaceous, glauconitic, calcareous sandstone, containing fragments of carbonaceous material.
	Bottom 5 ft. The upper 2 ft. of this part of core 3 is fine to moderately coarse-grained, roughly angular sand in a tan, waxy clay matrix, containing, also, light-brown, irregularly-shaped nodules of siderite(?).

Comanche Series undifferentiated

	The lower 3 ft. of the bottom 5 ft. of core 3 is medium to coarse-grained, roughly angular sand in a white, somewhat micaceous, bentonitic matrix.
3268-3290	Sand, mainly coarse-grained, roughly angular, quartz, and a little white feldspar. Some sand grains are pink-tinted quartz.
3290-3300	No change.
3300	Like sample at 3290-3300 ft., but with the addition at this depth of fragments of mustard-yellow and gray mottled waxy shale.
3300-3554 T.D.	Mainly coarse-grained quartz sand (a few pink-tinted and yellow-tinted grains); a little white feldspar; a few fragments of mustard-yellow shale; and a few fragments of red and gray mottled, silty, micaceous clay shale.
(corrected total depth	
3572)	

SEMINOLE COUNTY

Operator: Mont Warren	GGS. No. 204
Landowner: Grady Bell Well 1A	Elevation: 114 ft. (derrick floor)
Location: Land District 27, Land Lot 61; 560 ft. north of south line; 660 ft. east of west line of Land Lot 61	Total depth: 3810 ft. Completed: Mar. 10, 1950

Depth
(feet)

Description

Beds of Taylor age

The top of the beds of Taylor age is placed at 1955 ft. on basis of electric log correlation supported by sample data.

- 1960-1970 Washed sample, small. Sand, fine to coarse-grained; fragments of glauconitic clay; a little chalky marl. Sample contains specimens of *Globotruncana* sp. *Stensiöina americana*, *Bolivina in-crassata*.
- 1970-2400 Samples not studied in detail. In general, the samples consist of soft, gray, calcareous, somewhat glauconitic shale and varying amounts (usually small) of fine to coarse-grained sand.

Beds of Austin age

- 2400 The samples do not seem to contain lithologic or paleontologic data that definitely place the top of the beds of Austin age. The top of the unit is provisionally placed at 2400 ft. on the basis of electric log correlation. The highest occurrence of the speckled shale characteristic of the lower part of the beds of Austin age is near 2600 ft.
- 2400-2700 Like samples at 1970-2400 ft.

Atkinson Formation. Upper Member.

- 2700 The top of the upper member of the Atkinson Formation is placed at 2700 ft. on the basis of electric log correlation supported by sample data.
- 2710-2720 Highest occurrence of hard, very fine grained, calcareous, phosphatic, micaceous sandstone.
- 2720-2730 Sandstone, cream, very fine grained, micaceous, slightly glauconitic, phosphatic, calcareous, that seems to contain fragments of *Ostrea* sp.
- 2730-2740 Sandstone, like the sample at 2720-2730 ft.; fragments of grayish-green, slightly carbonaceous shale, containing thin partings of fine-grained, micaceous, slightly glauconitic sandstone; a few fragments of *Ostrea* sp.
- 2740-2750 The sample is at least 50 percent cavings of shale from higher levels. The possibly indigenous part of the sample is composed of very fine-grained sand; fragments of gray, soft, fine-grained, micaceous, weakly glauconitic sandstone; a few fragments of greenish-gray flake shale; fragments of fish bones and fish scales; and specimens of Foraminifera that are, mainly, caving.
- 2750-2820 Samples are similar, in general, to sample at 2740-2750 ft.; but the amount of greenish-gray shale seems to increase progressively with depth. The material drilled seems to be grayish-green, flaky, slightly carbonaceous shale, containing thin beds of fine-grained, micaceous, weakly glauconitic sandstone.

Depth (feet)	Description
2820-2830	Shale, grayish-green, flaky, and many fragments of moderately hard, very fine grained, micaceous, slightly glauconitic sandstone containing fragments of <i>Ostrea</i> sp. Sample contains a few specimens of <i>Planulina eaglefordensis</i> .
2830-2856	Sand, fine-grained; fragments of sandstone; fragments of grayish-green, flaky shale; fragments of <i>Ostrea</i> sp. The samples contain a few specimens of <i>Planulina eaglefordensis</i> .
2856-2875	Core 1. Recovery? Top. Shale, grayish-green, flaky; about 20 percent very fine grained sand; and traces of glauconite and carbonaceous material. Other parts of the core are, mainly, shale containing fine-grained sand, a little glauconite, a few small specimens of <i>Globigerina</i> sp., and a few fragments of <i>Ostrea</i> sp.
2880-2890	Shale, grayish-green; a few fragments of speckled shale that may be caving; many fragments of <i>Ostrea</i> sp. and bryozoan fragments; a little glauconite and phosphatic material. The specimens of Foraminifera in the sample seems to be caving.
2890-2900	Sample not described or no sample.
2900-2910	Sandstone, medium-grained, calcareous, somewhat glauconitic, containing many fragments of <i>Ostrea</i> sp. and a few phosphatic nodules. The sample contains a few fragments of grayish-green shale, bryozoan fragments, and a few specimens of <i>Planulina eaglefordensis</i> .
2910-2950	No change.
2950-2960	Shale, flaky, and fine-grained sand; a few fragments of <i>Ostrea</i> sp.
2960-3120	Samples not studied in detail, but the strata drilled seem to be alternating beds of grayish-green flaky shale, and light-gray, fine-grained, glauconitic, phosphatic, sandstone in which fragments of <i>Ostrea</i> sp. are common.
Atkinson Formation. Lower Member.	
3110	The top of the lower member of the Atkinson Formation is placed at 3110 ft. on the basis of electric log correlation supported by sample data.
3120-3130	Like samples at 2960-3120 ft. with the addition of a few fragments of dark-gray flaky shale.
3130-3270	Samples are like the samples at 3120-3130 ft., but the amount of dark shale increases progressively with depth and the shell fragments decrease.
3270-3280	Shale, dark-gray, flaky, slightly carbonaceous, containing fragments of fish-bones, fish scales, and white, micaceous, moderately hard siltstone.
3280-3300	No change.
3300-3310	Like sample at 3270-3280 ft., with the addition of specimens of

Depth (feet)	Description
	<i>Ammobaculites agrestis</i> , and a few other species common in the lower Atkinson.
3310-3400	Like sample at 3300-3310 ft. No change in fauna.
3400-3410	Sand, coarse-grained, quartz, about 75 percent of sample; also a little dark-gray shale like the preceding samples, a few large phosphatic nodules, fragments of lignite, and <i>Ostrea</i> sp.
3410-3420	Sample almost entirely coarse-grained quartz sand, a few shell fragments and a few large phosphatic nodules.

Comanche Series undifferentiated

3420-3510	The top of the Comanche is provisionally placed at 3420 ft. on the basis of electric log correlation. The samples from 3420 to 3510 ft. seem to contain much caved material and the top of the Comanche may be, in fact, at 3510 ft. where the sample shows the characteristic lithology of the Comanche.
3510-3520	Sand, coarse to very coarse, roughly angular quartz in a white, bentonitic matrix. The sand contains a few pink-tinted and a few yellow-tinted grains, and a few grains of feldspar.
3520-3550	Like sample at 3510-3520 ft.
3550-3560	Highest occurrence of fragments of red and gray mottled micaceous, silty shale.
3560-3810 T.D.	Sand, coarse to very coarse, quartz, containing a few pink-tinted and a few yellow-tinted grains, and a few grains of feldspar.

THOMAS COUNTY*

Owner: U. S. Government (War Dept.)	GGG No. 19
Operational Training Station Well 1	Elevation: 227 ft.
Location: 8 mi. northeast of Thomasville, Ga.	Total Depth: 295 ft.
	Completed: Sept. 14, 1942

Summary of Stratigraphy

	Depth (feet)	Thickness (feet)
Tertiary		
Miocene undifferentiated	5	115
lower, Tampa Limestone	120	15

*Publication of this data is authorized by the Sun Oil Company, for whom the report was prepared on a commercial basis.