

**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

Esther R. and Paul L. Applin



**ATLANTA
1964**

Depth (feet)	Description
	siderite and cavings of various materials are components of the sample.
3990-4000	Like sample at 3980-3990 ft.
4000-4030	No change.
4030-4040	Sand, like sample at 3980-3990 ft.; yellow-tinted grains are fairly common. The sample contains a little yellow feldspar.
4040-4050	Like sample at 4030-4040 ft. and a few fragments of bluish-gray, weakly sandy (very fine grained sand) shaly clay.
4050-4060	Like sample at 4040-4050 ft., but fragments of the shaly clay are much more abundant.
4060-4070	No change.
4070-4080	No change.
4080-4090	Sand, yellow and red, fine to very coarse grained, the coarse grains being dominant; a few grains of feldspar; a trace of mica; and a few fragments of brick-red clay.
4090-4100	Sand, like sample at 4080-4090 ft.; grains of feldspar of various colors are common in the sand. The sample contains a few fragments of red and white mottled, sandy, micaceous clay.
4100-4110	Sand, like sample at 4090-4100 ft., but the grains are slightly coarser. The sample contains a trace of red, sandy, micaceous clay.

Pre-Cretaceous rocks

4110-4130 T.D. Sand, like sample at 4100-4110 ft., and fragments of granite. The top of the granite in the Thurman well 1 is placed at 4110 ft. on the basis of electric log correlation and the petrographic determination of selected fragments of cuttings.

COLQUITT COUNTY

Operator: R. T. Adams
 Landowner: D. G. Arrington Well 1
 Location: Land District 8, Land Lot
 270; 760 ft. west of east line; 210
 ft. north of south line of land lot
 270.

GGS. No. 170
 Elevation: 270 (est.)
 Total depth: 4904 ft.
 Completed: Aug. 25, 1948

Depth (feet)	Description
	Beds of Austin age
2710	Sidewall core. Shale, gray, containing glauconite and pyrite, fragments and prisms of <i>Inoceramus</i> , many specimens of <i>Citharina texana</i> , and a few specimens of other Foraminifera, mainly <i>Globotruncana</i> sp.
2710	Sidewall core. Shale, gray, soft, chalky, containing abundant <i>Inoceramus</i> prisms and specimens of <i>Citharina texana</i> ; specimens of <i>Gümbelina</i> sp. and <i>Globigerina</i> sp. are common.
2725	Sidewall core. Sandstone, cream, moderately hard, chalky, very fine-grained, glauconitic; contains fragments of <i>Ostrea</i> sp.
2731	Sidewall core. Shale, gray, soft, sandy (very fine grained sand), glauconitic. Fauna consists mainly of specimens of a small <i>Anomalina</i> sp. indicative of the beds of Austin age.
	Atkinson Formation. Upper Member.
2806	Sidewall core. Shale, gray, soft, fine-grained, argillaceous, containing a few fragments of phosphatic material, carbonaceous material, and a little mica.
2850-2860	Shale, gray, containing many fragments of <i>Ostrea</i> sp., a little carbonaceous material, and a few fragments of white, medium to fine-grained, somewhat phosphatic, slightly glauconitic sandstone. The fragments of <i>Ostrea</i> sp. are probably indigenous, but the few specimens of Foraminifera in the sample seem to have come from higher levels.
2860-2870	Like the sample at 2850-2860 ft.
2870-2880	Like the sample at 2850-2860 ft., and containing a few fragments of grayish-green shale.
2880-3000	No change. The specimens of Foraminifera are species that occur in the lower part of the beds of Austin age; species indicative of the upper member of the Atkinson Formation (Eagle Ford age) were not observed.
3000-3010	Like the samples at 2880-3000 ft., with the addition of grains of coarse sand.
3010-3020	Samples not studied.
3020-3030	Sand, coarse to very coarse, and a little nodular sandstone.
3030-3060	Samples not studied.
3060-3070	Sand, fine to coarse-grained (coarse grains common). The sample contains a few fragments of white, moderately hard, medium-grained sandstone showing a few pink-tinted grains.

Depth (feet)	Description
3070-3200	Samples are like the sample at 3060-3070 ft. and contain cavings in variable amounts.
3200-3210	Sand and sandstone like the immediately preceding samples, and also many fragments of white, moderately hard, fine to medium-grained, glauconitic, somewhat phosphatic sandstone.
3210-3220	Like sample at 3200-3210 ft., showing an increase in the amount of glauconitic sandstone.
3220-3230	Sample not studied.
3230-3240	Sample is mainly cavings, and the material drilled at this depth is not clearly shown. The material in the sample consists of gray shale (probably from the beds of Austin age), a few fragments of glauconitic sandstone like that in the samples at 3200-3220 ft., and specimens of Foraminifera from higher levels. The sample contains fragments of carbonaceous material that increase progressively with depth from 3240 to 3290 ft.
3240-3290	Samples not studied in detail.

Atkinson Formation. Lower Member.

3290-3300	Like sample at 3230-3240 ft., and in addition, many fragments of white, fine to medium-grained, calcareous, glauconitic, somewhat micaceous sandstone containing many fragments of shells (<i>Ostrea</i> sp. and possibly other fossil bivalves).
3300-3320	Samples not studied.
3320-3330	Shale, dark-gray, hard, flaky, is probably the material drilled at this depth. The sample contains much gray clay shale that is caving from higher levels.
3330-3340	The sample shows an increase in the amount of dark-gray, micaceous shale described in the sample at 3320-3330 ft. The microfauna seems to be mainly caving from higher levels. Specimens of Foraminifera indicative of the lower member of the Atkinson Formation do not seem to occur in this sample, possibly because of the small amount of dark-gray shale in proportion to the large quantity of cavings. It is possible, also, that specimens, if present, were removed from the sample prior to this study.
3340-3510	Samples are mainly cavings of gray clay shale, dark micaceous shale, fine-grained sand, and glauconite; the microfauna is sparse and seems to have caved from higher levels.

Comanche Series undifferentiated

3513	Materials similar to those described in the sample from 3340 to 3510 ft., and also a little coarse-grained quartz sand.
3520-3530	Sand, coarse-grained, quartz; a few fragments of waxy, mustard-colored, red mottled shale; many cavings.
3530-3540	Like sample at 3520-3530 ft.

Depth (feet)	Description
3540-3550	Like sample at 3530-3540 ft., and a few fragments of greenish-brown, red and light-gray mottled micaceous shale.
3550-3560	Like sample at 3540-3550 ft.
3560-3570	Sand, fine to very coarse grained (coarse grains common) quartz, and a few grains of feldspar; some of the quartz grains are red-tinted. Sand is about 50 percent of the sample. A few fragments of mottled or varicolored shale and cavings from higher levels compose about 50 percent of the sample.
3570-3600	No change.
3600-3610	Sand, varicolored shale, and cavings, like the sample at 3560-3570 ft., and many fragments of dark purplish-red, micaceous shale.
3610-3630	Sample not described.
3630-3640	Sand, 50 percent of sample, and 50 percent cavings of gray clay shale and a few fragments of red and mottled shale.
3640-3770	No change.
3770-3780	Sand, fine-grained, many fragments of brownish to purplish-red, gray and mustard-colored, micaceous shale, and many cavings.
3780-3800	No change.
3800-3810	Sand, white, mainly coarse-grained, quartz; a few amber and pink-tinted grains; a few grains of feldspar; a little red and mottled shale; cavings.
3810-4904 T.D.	Samples not studied in detail. The material is sand, sandy clay, and varicolored clay, and is seemingly not older than Comanche.

COLQUITT COUNTY

Owner: City of Moultrie, well 3

GGS No. ____

Elevation: 340 ft. (est.)

Total depth: 745 ft.

Completed: Aug. (?) 1936

Summary of Stratigraphy

	Depth (feet)	Thickness (feet)
Tertiary		
Pliocene to Recent 1 sample at 150 ft.	?	?
Miocene undifferentiated	165	243
Oligocene do	408	262
Eocene		
upper, Ocala Limestone, upper member	670	to total 75 depth