

**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
	<i>Eponides jacksonensis</i> <i>Eponides</i> n. sp. <i>Guttulina irregularis</i> <i>Siphonina jacksonensis</i> <i>Nonion advenum</i> var.
550- 560	Like sample at 530-540 ft. The most abundant species are: <i>Operculina floridensis</i> , <i>Asterocyclina georgiana</i> , and <i>Heterostegina ocalana</i> . <i>Robulus limbosus</i> var. is fairly common, and other species are as listed in sample at 540-550 ft.
560- 570	Like sample at 550-560 ft.
570- 580	Like sample at 550-560 ft. Specimens of <i>Lepidocyclina</i> cf. <i>L. cookei</i> are common.
580- 590	No sample.
590- 600	Like sample at 570-580 ft.
600- 626 T.D.	Like sample at 570-580 ft.

BROOKS COUNTY

Operator: D. E. Hughes	GGs. No. 184
Landowner: E. M. Rogers, Sr., Well 1 B	Elevation: 136 ft. (derrick floor)
Location: Land District 12, Land Lot 454	Total depth: 3850 ft.
2830 ft. south and 1570 ft. west of northeast corner of Land Lot 454.	Completed: Apr. 12, 1949

Summary of Stratigraphy

	Depth (feet)	Thickness (feet)
Tertiary		
Paleocene		
in beds containing Tamesí fauna; 1st sample at 2200 ft.	?	?
Cretaceous		
Gulf		
Beds of Navarro(?) age or Taylor (?) age	2230	100
Beds of Taylor age (definite)	2330	220
Beds of Austin age	2550	540
Atkinson Formation, upper member	3090	300
do lower member	3390	230
Comanche undifferentiated	3620	230
	to total depth	

Lithologic and paleontologic description of cuttings and cores. Samples are cuttings unless otherwise stated.

Depth
(feet)

Description

0-2200 Samples not studied.

Tertiary

In Paleocene Series

- 2200-2210 Shale, gray, marly, and fine to medium-grained sand, 50 percent of sample; specimens of species of Foraminifera indicative of the beds of Paleocene age containing the Tamesí fauna, 50 percent of sample.
- 2210-2220 Sample not studied.
- 2220-2230 Like sample at 2200-2210 ft. and some large nodules of glauconite.

Cretaceous

Gulf Series

Beds of Navarro (?) age or Beds of Taylor (?) age.

- 2230-2240 Like sample at 2200-2210 ft., but contains a few specimens of *Globotruncana* sp. marking the top of the Cretaceous.
- 2240-2250 Shale, gray, marly, and a few fragments of glauconite about 50 percent of sample; fine to moderately coarse grained sand (possibly caving) about 50 percent of sample. Specimens of *Globotruncana* sp. and other Cretaceous Foraminifera present.
- 2250-2330 Samples not studied.

Beds of Taylor age (definite)

- 2330-2340 Shale, gray, marly. Fauna consists of many specimens of Foraminifera including the typical Taylor species *Bolivinooides decorata* and *Bolivina incrassata*.
- 2340-2350 Marl, like sample at 2330-2340 ft., a little light-gray chalky marl, and specimens of *Stensioina americana* and *Globorotalites conicus*.
- 2350-2550 Samples not described, but are composed, mainly, of medium-grained sand and gray, soft, chalky marl and shade.

Beds of Austin age (electric log correlation)

- 2550-2560 Shale, gray, several types, a little chalky marl, and a few fragments of white, hard unfossiliferous (?) chalk, about 50 percent of sample. Sand is about 50 percent of sample. The foraminiferal fauna contains specimens of typical Taylor species.
- 2560-2570 Marl, a little white hard chalk, fragments of *Inoceramus*, and the usual cavings of sand.
- 2570-2610 Samples not studied.
- 2610-2620 Similar, in general, to sample at 2560-2570 ft., but contains many *Inoceramus* fragments and a few chips of gray marly shale irregularly streaked with soft white chalk.
- 2620-2640 Samples not studied.

Depth (feet)	Description
2640-2650	Sand, 50 percent; several types of gray shale and a few fragments of chalk 50 percent. Material being drilled is possibly a soft white chalk containing many <i>Inoceramus</i> fragments and a non-diagnostic microfauna.
2650-2660	Like sample at 2640-2650 ft., and a few specimens of <i>Planulina austiniana</i> .
2660-2670	Sample not studied.
2670-2680	Like sample at 2640-2650 ft., and a few specimens of <i>Kyphopyxa christneri</i> and <i>Pseudogaudryinella capitosa</i> var. (early Taylor or late Austin age).
2680-2740	Samples not studied.
2740-2750	Sample is mainly sand (caving?), fragments of gray shale, and foraminiferal specimens from various higher levels. A few fragments and nodules of white chalk probably indicate the material being drilled at this depth. Many nodules of pyrite are present, and also a few specimens of Foraminifera and Ostracoda that are indicative of the early Taylor or late Austin age of the beds; <i>Inoceramus</i> fragments are fairly common.
2750-2760	Sample not studied.
2760-2770	Mainly cavings of sand, gray marl, and specimens of Foraminifera.
2770-2800	Samples are about 75 percent medium-grained, angular sand and 25 percent <i>Inoceramus</i> fragments and specimens of Foraminifera.
2800-2810	Shale, gray, marly, a little sand, a few <i>Inoceramus</i> fragments, and a few specimens of Foraminifera that are not narrowly restricted. Also observed were a few specimens of <i>Cythere simplicata</i> that is common in the beds of late Austin age although present in the beds of early Taylor age.
2810-2870	Like the sample at 2800-2810 ft.
2870-2880	Shale, gray, showing the typical speckled appearance of the lower part of the beds of Austin age.
2880-2910	Like the sample at 2870-2880 ft.
2910-2920	Shale, gray, marly, a little sand, and a few highly speckled fragments of shale. Specimens of Foraminifera are mainly <i>Globigerina</i> sp. and <i>Gumbelina</i> sp.; specimens of <i>Globorotalia umbilicata</i> (common in the lower part of the beds of Austin age in southern Georgia) are common. Fragments of <i>Ostrea</i> sp. are also present.
2920-3011	Samples not studied.
3011-3021	Core 2. Recovery 10 ft. Top. Sandstone, light-gray, soft, fine-grained, even-grained, argillaceous, micaceous slightly glauconitic. Middle. Sandstone, gray, fine-grained, argillaceous, micaceous, glauconitic, calcareous; fragments of <i>Ostrea</i> sp. present. Bottom. Like middle part of core.

Depth
(feet)

Description

A sample of cuttings from this depth shows gray, hard, sandy nodules and many fragments of *Ostrea* sp., suggesting a beach or near-shore depositional environment.

- 3021-3040 Samples not studied.
- 3040-3050 Sand and sandstone, like sample at 3011-3021 ft.; many fragments of white, hard, highly sandy (fine-grained sand), somewhat glauconitic chalk; many fragments of *Ostrea* sp., microfauna nondiagnostic.
- 3050-3090 Samples not studied.

Atkinson Formation. Upper Member.

- 3090-3100 Shale, sandy and many fragments of *Ostrea* sp.; fragments of white, fine to medium-grained, calcareous sandstone, containing fragments of *Ostrea* sp., phosphatic bone fragments, and a trace of glauconite.
- 3100-3110 Shale, grayish-green, flaky; abundant fragments of sandstone, like sample at 3090-3100 ft., containing glauconitic and phosphatic material, and many fragments of shells.
- 3110-3120 Sample not studied.
- 3120-3130 Sandstone, shell fragments, and cavings from higher levels; a little grayish-green flaky shale.
- 3130-3380 Samples in this interval are composed of fragments of sandstone like the samples below 3090 ft.; cavings of shale from higher levels; fragments of grayish-green shale; fragments of shells of macrofossils; and a few nondiagnostic specimens of Foraminifera that are probably caving. The white-speckled appearance of some fragments of the grayish-green shale is due to the high content of comminuted tests of microfossils. A few fragments of lignite are usually present in the samples. The quantity of sandstone fragments decreases progressively with depth, and the samples in the lower part of the interval are composed mainly, of grayish-green shale, fine-grained sand and a few cavings from higher levels.
- 3380-3390 Shale, green, sandy (fine-grained sand), and a mixture of material caving from higher levels. Fragments of light greenish-gray, very finely granular limestone containing broken shells of macrofossils are probably from the strata penetrated near this depth. Fragments of the green shale contain a few specimens of *Planulina eaglefordensis*.

Atkinson Formation. Lower Member.

- 3390-3400 Like the sample at 3380-3390 ft.; a few fragments of green, flaky, waxy, highly micaceous shale, and a little greenish-gray fossiliferous limestone.
- 3400-3410 Shale, grayish-green, and sand; a little green, micaceous shale.

Depth (feet)	Description
3410-3430	Samples not studied.
3430-3440	Shale, grayish-green.
3440-3460	Samples not studied.
3460-3470	Shale, grayish-green, containing a few specimens of <i>Ammotium braunsteini</i> (an arenaceous species characteristic of the lower member of the Atkinson Formation).
3470-3480	Shale, grayish-green, containing specimens of <i>Ammobaculoides plummerae</i> .
3480-3490	Shale, some fragments of which are microfossiliferous; a few fragments of cream pyritic limestone containing broken shells of macrofossils.
3490-3500	Shale, dark greenish-gray, containing a few dwarf specimens of Foraminifera, and a few specimens of arenaceous species characteristic of the lower member of the Atkinson Formation.
3500-3543	No change.
3543-3556	Core 3. Recovery 10 ft. Top. Sandstone, light-gray, soft, medium-grained, highly glauconitic, somewhat micaceous. Middle. Like the top sample, but slightly finer grained. Bottom. Sandstone, soft, medium to coarse-grained, loosely cemented.
3556-3560	No sample.
3560-3570	Shale, greenish-gray, and a little sandstone and unconsolidated sand.
3570-3620	No change.

Comanche Series undifferentiated

3620-3630	Shale, like the sample at 3560-3570 ft., and a little unconsolidated sand containing a few coarse grains; also, dull grayish-brown, waxy, somewhat carbonaceous and sandy (fine-grained sand) shale containing nodules of siderite.
3630-3640	Like the sample at 3620-3630, but without the coarse grains of sand and showing an increase in the grayish-brown shale.
3640-3660	No change.
3660-3670	Sand, unconsolidated, coarse to very coarse, quartz, containing a few pink-tinted and yellow-tinted grains, a little feldspar, and a little colorless mica.
3670-3750	No change.
3750-3760	Sand, like the sample at 3660-3670 ft., and a few fragments of dark-red, waxy, finely micaceous shale.
3760-3850 T.D.	Sand, mainly coarse-grained quartz, containing some feldspar. At 3840-3845 ft. the samples show a few fragments of purplish-red, silty shale.