

GEORGIA
SEMINOLE COUNTY

DP # 17

Operator: Mont Warren
Landowner: W.E. Harlow Est. Well 1
Location: Land District 27, Land
Lot 82
660 ft. from south line
660 ft. from east line of
Land Lot 82.

Operator: GGS. No. 187
Elevation: 145 ft. (derrick floor).
Total depth: 3572 ft.
Completed: Feb. 27, 1949.

Summary of Stratigraphy

	Depth to top (feet)	Thickness (feet)
Tertiary		
Samples not studied	0-1420	
Paleocene		
In beds of Midway age		
at 1420 ft.	?	?
Cretaceous		
Gulf		
Beds of Navarro age	1430	80
Beds of Taylor age	1510	640
Beds of Austin age	2150	390
Atkinson Formation, upper member	2540	510
do lower member	3050	229
Comanche undifferentiated	3279 to total depth	293

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

Depth
(feet)

Description

0-1420

Samples not studied.

In Paleocene

1420-1430

Chalk, light-gray, highly sandy (very fine-grained sand),
glauconitic, and a little medium-grained sand. Sample
contains many specimens of Midway species of Foraminifera.

Cretaceous

Gulf Series

Beds of Navarro age

1430-1440

Like sample at 1420-1430 ft., but less chalk and more sand.
Many specimens of Globotruncana sp., Guembelina sp.,
and other Cretaceous species of Foraminifera.

1440-1450

Sample not studied.

1460-1470

Washed sample. Sand, fine to medium-grained; fragments of
hard, silty to sandy chalk (Paleocene); and fragments
of white, glauconitic, slightly sandy chalk.

1470-1510

Samples not studied in detail.

Depth
(feet)

Description

Beds of Taylor age

1510-1520 Washed sample; large residue. Sand, medium to coarse-grained; fragments of chalky, glauconitic siltstone; and somewhat silty, glauconitic hard chalk. Sample contains many specimens of Lituola taylorensis; a few specimens of Stensioina americana, Globorotalites conicur, and many other species of Foraminifera.

1520-2150 Samples not described in detail.

Samples from 1520 to 1550 ft. like sample at 1510-1520 ft. with the addition of Inoceramus fragments at 1550 ft. Below 1700 ft., the samples are smaller, and contain fine to coarse-grained sand; glauconite and Inoceramus fragments; fragments of gray, somewhat silty clay shale; and many specimens of Foraminifera.

Beds of Austin age

2150-2160 Shale, gray, marly; a little sand; nodules of pyrite; many fragments of Inoceramus. Abundant specimens of Foraminifera; Pseudogaudryinella capitosa var. (Austin variety); a few specimens of Kyphopyxa christneri (upper part of beds of Austin age or lower part of beds of Taylor age); a few specimens of species of Ostracodes that, usually, are indicative of the beds of Austin age.

Depth (feet)	Description
2160-2420	Shale, gray. The samples usually contain fragments of <u>Inoceramus</u> in varying amounts, some nodules of pyrite, and many specimens of Foraminifera and Ostracoda. Herrick <u>1/</u> (1961,p.355) reported the occurrence of <hr/> <u>1/</u> Herrick, S.M., 1961, Georgia Geological Survey Bull. 70. <hr/> specimens of <u>Citharina texana</u> in a sample at 2310-2320 ft.
2420-2540	Highest occurrence of fragments of speckled shale, which are progressively more abundant in deeper samples. Atkinson Formation upper member
2540-2550	Like samples from 2160 to 2540 ft., with the addition of many fragments of <u>Ostrea</u> sp., also a few fragments of very fine grained, somewhat micaceous, argillaceous sandstone containing a little carbonaceous material and a trace of glauconite.
2550-2560	No change.
2560-2570	Highest occurrence of grayish-green, micaceous, somewhat sandy (fine-grained sand) shale.

Depth (feet)	Description
2570-2600	Shale, grayish-green; many fragments of <u>Ostrea</u> sp.; a few fragments of fine-grained sandstone like sample at 2540-2550 ft. The sample also contains loose sand, shale, and specimens of Foraminifera caving from different higher levels.
2600-2616	Core 1. Recovery 6 ft. Top. Sandstone, light-gray, fine to medium-grained, glauconitic, somewhat phosphatic, slightly micaceous. Middle. Sandstone, like top part of core, but more glauconitic, and containing fragments of <u>Ostrea</u> sp. Bottom. Sandstone, light-gray, hard, fine to medium-grained, glauconitic, somewhat phosphatic, calcareous.
2616-2770	Samples are a mixture of cavings from higher levels, composed of fragments of grayish-green shale; several types of fine-grained, micaceous sandstone; and fragments of <u>Ostrea</u> sp. in varying amounts. The material drilled is interpreted as, mainly, fine to medium-grained sandstone and some coarse-grained sand, containing fragments of <u>Ostrea</u> sp., phosphatic nodules, and glauconite.

Depth (feet)	Description
2770-2780	Sand, coarse-grained, containing phosphatic nodules, and glauconite; also a few fragments of hard, calcareous, fine to medium-grained sandstone. The sample contains fragments of <u>Ostrea</u> sp. and a little lignite.
2780-2940	Samples are similar to sample at 2770-2780 ft. The lignite is progressively more abundant in the samples to 2830 ft., and although present in the samples from 2830 to 2940 ft., it may be caving, in part.
2940-2950	Mainly sand and shell fragments; also fragments of sandstone and lignite (as in the samples from 2770 to 2940 ft.), and a little grayish-green, splintery shale. This sample contains a few specimens of <u>Planulina eaglefordensis</u> .
3030-3040	Mainly cavings of gray clay shale. Also in the sample are fragments of grayish-green, irregularly micaceous shale, in which crushed fossil debris is fairly common.
3040-3050	Like sample at 3030-3040 ft., but fossil debris is more abundant.

Atkinson Formation lower member

- 3050-3060 Shale, gray, flaky, micaceous, slightly carbonaceous is
 fairly common in the sample.
- 3060-3100 Samples not described.
- 3100-3110 Gray, irregularly micaceous shale, and fragments of hard,
 fine-grained, glauconitic sandstone compose most of
 the sample; specimens of Ammobaculites advenus also
 occur.
- 3110-3197 Samples not described.
- 3197-3216 Core 2. Recovery 7 ft.
- (corrected Top 3 ft. Sandstone, gray, medium-grained, argillaceous,
depth
3210-3224) glauconitic, micaceous, somewhat phosphatic.
- 2nd 22 in. Shale, dark-gray, flaky, containing partings
 of light-gray, soft, medium-grained, glauconitic,
 micaceous sand.
- 3d 22in. Sand-streaked shale like middle part of core.

Depth
(feet)

Description

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
3272-3282) 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.

 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.

Depth (feet)	Description
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. (corrected total depth 3572)	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.