-1.2.43.1/3

GEORGIA

DECATUR COUNTY

Operator: Hunt Oil Co.

GGS. No. 168

Landowner: Metcalf Well 1

Elevation: 104 ft. (derrick floor)

Location: Land District 21, Land Lot 260, center of NE ¼ of Land Lot 260

Total depth: 6152 ft.

Completed: Aug. 19, 1944

Summary of Stratigraphy

	Depth to top (feet)	Thickness (feet)
Tertiary		
Paleocene		
In beds with Tamesi fauna at 1930 ft. 1st sample	?	?
Cretaceous		
Gulf		
Beds of Navarro age	2050	50
Beds of Taylor age	2100	380
Beds of Austin age	2480	420
Atkinson Formation upper member	2900	420
do lower member	3320	280
Comanche undifferentiated	3600 to 5250 ft. 1/	

1/ Samples not studied below 5250 ft.

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

Depth (feet)	Description
0-1930	Samples not studied.
	In Paleocene
	Beds with Tamesí fauna
1930-1940	Clay, gray, marly, microfossiliferous; contains many specimens of several species of Globigerina, including Globigerina crotalea. Other specimens of species common in the sample are Bulimina exigua, and Alabamina wilcoxensis.
1940-2020	Like sample at 1930-1940 ft.
2020-2030	Like sample at 1930-1940 ft., contains specimens of Globorotalia velascoensis and G. pseudmenadii, which is common in the typical Tamesí (Velasco) in Mexico.
2030-2040	Not described.
2040-2050	Clay, marly, but harder and less flaky than the preceding samples; contains many typical specimens of Globorotalia velascoensis.
	Cretaceous
	Gulf
	Beds of Navarro age
2050-2060	Marl, gray; specimens of Globotruncana arca, common.

Depth (feet)	Description
2060-2090	Not described.
	Beds of Taylor age
2090-2100	Marl, gray, and a few fragments of fine-grained, chalky glauconitic sandstone. Sample contains specimens of Globorotalites conicus, Stensioina americana, and a variety of Planulina dumblei.
2100-2350	Not described.
2350-2360	Marl, gray, containing abundant specimens of Foraminifera; common species are: Globotruncana spp. Globigerina cretacea, Planulina texana, and Stensioina americana. The sample is probably from the lower part of the beds of Taylor age.
2360-2480	Not described.
	Beds of Austin(?) age.
2480-2490	Marl, gray, containing a specimen of Valvulineria umbilicata typical of the Austin chalk in Texas, and specimens of Pseudogaudryinella capitosa.
2490-2570	Not described.

Depth (feet)	Description
2570	Sidewall core. Clay, greenish-gray, marly, micaceous, containing a microfauna indicative of the Austin age of the beds.
2580-2590	Clay, gray and green, marly, containing specimens of Kyphopyxa christneri.
2590-2600	Clay, greenish-gray, shaly, calcareous.
2600-2790	Not described.
2790-2800	Shale, brown, thinly flaky, slightly speckled, and a little green, flaky, noncalcareous shale.
2800-2830	Not described.
2830-2840	Shale, dark brownish-gray, flaky, slightly speckled.
2840-2900	Not described.
	Atkinson Formation Upper Member
2900-2910	Sandstone, moderately dense, very fine grained, highly micaceous, and fragments of speckled shale; a few shell fragments.
2910-2920	Like sample at 2900-2910 ft.; the sandstone is somewhat glauconitic.

Depth (feet)	Description
2920-2930	Sandstone, like sample at 2900-2910 ft., and many fragments of Ostrea sp.
2930-2940	Not described.
2940-2950	Sandstone, similar to sample at 2900-2910 ft., but somewhat coarser grained and more micaceous; contains a few black phosphatic fragments, a little bluish-green glauconite, nodules of pyrite, and shell fragments.
2950-2960	Sandstone and abundant shell fragments, including fragments of Inoceramus.
2960-2970	Not described.
2975	Sidewall core. Sand, fine-grained, uneven-grained, angular, clear quartz, containing a little glauconite and a few shell fragments.
2970-3030	Sand, fine to moderately fine grained, glauconitic, micaceous, containing shell fragments and fish bones. The various types of shale in the sample are probably cavings from higher levels.
3030-3040	Sand, like samples at 2970-3030 ft., and a little green flaky shale; shell fragments are abundant.

Depth (feet)	Description
3040-3060	Not described.
3060-3070	Sandstone, moderately coarse, glauconitic, fossiliferous; contains fairly large fragments of carbonaceous material, many shell fragments, fish bones, and a few bryozoan fragments. Below this depth, the sandstone becomes harder and finer grained, and shell fragments gradually decrease in abundance.
3070-3080	Not described.
3080-3090	Sandstone, white, dense, fine-grained, glauconitic, somewhat micaceous, containing phosphatic and carbonaceous material, shell fragments, and bryozoan fragments.
3090-3250	Not described.
3250-3260	Sand and shell fragments. Shell fragments are common.
3260-3270	Not described.
3270-3280	Clay, green and bluish-green, shaly, and a little sand. Specimens of Foraminifera are probably cavings.
3280-3320	Not described.

Depth (feet)	Description
	Atkinson Formation Lower Member
	(electric log correlation)
3320-3330	Clay, green, shaly and sand, and sandstone like sample at 3270-3280 ft.
3330-3390	Shale, green, and other types of shale that seem to be cavings.
3390-3400	Shale, dark-gray, hard, is in cuttings at this depth.
3400-3420	Shale, dark-gray, micaceous, containing specimens of arenaceous species of Foraminifera typical of the lower member of the Atkinson Formation. The shale is the so-called "marine shale" of the Tuscaloosa Formation.
3420-3430	Shale, dark-gray, micaceous, containing specimens of Ammobaculites bergquisti (abundant), A. comprimatus, Trochammina rainwateri, T. exigua, and others
3430-3440	Material and fauna like sample at 3420-3430 ft., but specimens of Foraminifera more abundant.

Depth (feet)	Description
3440-3510	Not described.
3510-3520	Shale, gray, and a little green flaky shale; white, micaceous, glauconitic sandstone is also in cuttings at this depth.
3520-3530	Like sample at 3510-3520 ft.
3530-3540	Sandstone, white, fine-grained, glauconitic, pyritic, somewhat micaceous, slightly phosphatic, increases in abundance. The sandstone contains a few large grains of quartz.
3545	Sidewall core. Shale, green, thinly flaky, speckled; contains dwarf specimens of Gumbelina and Globigerina that give the shale a speckled appearance.
3555	Sidewall core. Sand, fine to coarse-grained, roughly angular, clear quartz; probably the basal sand of the Atkinson Formation.
3560-3570	Sand and sandstone, like the sample at 3510-3520 ft. and below.
3570-3580	Sand, coarse-grained, is dominant in the sample; contains many greenish-yellow quartzitic grains, and a few grains of pink feldspar.

Depth (feet)	Description
3580-3590	Sand, like sample at 3570-3580 ft.; ankerite pellets are common.
3590-3600	Sand, like sample at 3570-3580 ft., and a few cuttings of dark brownish-red micaceous shale.
	Comanche undifferentiated
3600-3610	Sand, coarse-grained, containing greenish-yellow and pink grains, and a few grains of feldspar. The sample also contains cuttings of dark brownish-red, micaceous, sandy (fine-grained sand), unctuous, shaly clay.
3608	Sidewall core. Sand, poorly corted, fine to coarse-grained, roughly angular quartz, containing a few greenish-yellow grains.
3623	Sidewall core. Mudstone, brick-red, green and ochre streaks and mottling, sandy (fine-grained sand), micaceous.
3610-3900	Sample not studied in detail. The material is, mainly, coarse-grained sand, and red, green and ochre mottled mudstone; grains of pink feldspar become progressively more abundant with depth.

Depth (feet)	Description
3900-5240	Nodules of white, pink-stained, sandy limestone are in the samples at 3900 feet. The samples were not studied in detail, but are composed, mainly, of coarse-grained sand, mudstone and shale, and nodules of limestone.
5240-5250	Shale, purplish-red, raspberry, and varicolored, and many nodules of white, pink-stained, sandy limestone. The samples were not studied below 5250 ft. At this depth, the samples indicate that the well had not penetrated rocks older than Comanche age.