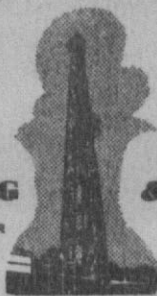


GULF COAST DRILLING

MAIN OFFICE GARDINER CENTER

HAROLD M. HOSS
PRESIDENT



& EXPLORATION, INC.

172 BEACON STREET
PHONE 4351

Laurel, Mississippi

- Core 24 - 8880 3/4" - Sand Red Brown - Uniform Grain - Slightly Silty and Micacious - Poor to Fair Perosity and Permability - No Shows.
- Core 25 - 8986 3/4" - Sand Light Brown - Very Fine to Fine Grain - Slightly Silty and Micacious - Poor to Fair Perosity and Permability - No Shows.
- Core 26 - 9058 1 1/2" - Sand Red Brown - Uniform Grain - Slightly Silty and Micacious - Slightly Glauconitic - Appears Wet - No Shows.
- Core 27 - 9252 1 3/4" - Sand With Uniform Grain - Slightly Micacious With Red Brown Shale Laminations - No Shows.
- Core 28 - 9263 1 3/4" - Sand Red Brown - Uniform Grain - Very Silty With Interbedded Mud Stones - Poor Perosity and Permability - No Shows.
- Core 29 - 9510 1 3/4" - Sand Red Brown - Uniform Grain - Very Silty - Slightly Micacious - Poor Perosity and Permability - No Shows.

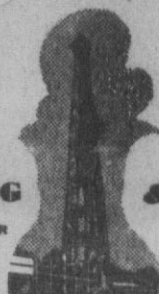
DRILLER'S LOG

USA #1 Liberty County, Florida, Section 4, Township 5 South, Range 7 West

<u>DATE</u>	<u>BEGINNING</u>	to	<u>END</u>	<u>FORMATION</u>	<u>FOOTAGE DRILLED</u>
3/15/59	0		65'	Sand & Shale	65'
3/16/59	65		382	Shale & Lime	338
3/17/59	382		1310	Lime & Shale	972
3/19/59	1310		2668	Sand & Shale	1340
3/20/59	2668		2970	Sand & Shale	302
3/21/59	2970		3834	Sand, Shale & Lime	846
3/22/59	3834		5035	Shale & Sand	1201
3/23/59	5035		5548	Shale & Sand	513
3/24/59	5548		6318	Sand & Shale	770
3/25/59	6318		6970	Sand & Shale	652
3/26/59	6970		7427	Sand & Shale	457
3/27/59	7427		7677	Shale & Sand	250
3/28/59	7677		8075	Shale	402
3/29/59	8075		8383	Shale & Sand	308
3/30/59	8383		8730	Shale	347
3/31/59	8730		9055	Sand & Shale	325
4/1/59	9055		9280	Sand & Shale	225
4/2/59	9280		9530	Sand & Shale	250
4/3/59	9530		9757	Shale	227
4/4/59	9757		9957	Shale	200
4/5/59	9957		10010	Shale	53

TOTAL DEPTH 10010 FEET

GULF COAST DRILLING
MAIN OFFICE GARDINER CENTER
HAROLD M. HOSS
PRESIDENT



& EXPLORATION, INC.
172 BEACON ST
PHONE 4381

Laurel, Mississippi

RECEIVED
APR 20 1959
FLORIDA GEOLOGICAL SURVEY
TALLAHASSEE

GULF COAST DRILLING AND EXPLORATION, INC. NO. 1 U.S.A. - FORESTRY SERVICE

Section 4 - 5S - 7W

Liberty County, Florida

T. E. 10010 Drilling Depth, 10011 Slumberger Depth

Attempted 30 Side Wall Cores 2874 - 9510 -- Recovered 29

- Core 1 -- 9162 $\frac{1}{2}$ " - Sand Brown to Red Brown - Fine Grain - Silty - Slightly Micaceous - Appears Wet - No Shows.
- Core 2 -- 8988 $\frac{1}{2}$ " - Sand as above - Very Silty - Subangular - Well Sorted - No Shows.
- Core 3 -- 8898 $\frac{1}{2}$ " - Sand Red Brown - Fine to Medium Grain - Slightly Silty and Micaceous - Well Sorted - Fryable - No Shows.
- Core 4 -- 8660 $\frac{1}{2}$ " - Sand Red Brown - Very Fine Grain - Very Silty - Micaceous - Poor Perosity and Permability - No Shows.
- Core 5 -- 8324 $\frac{1}{2}$ " - Sand Brown to Red Brown - Very Fine Grain - Silty - Slightly Micaceous - Well Sorted - Tite - No Shows.
- Core 6 -- 7606 1" - Shale Red Brown - Very Silty and Micaceous.
- Core 7 -- 7369 1" - Sand Red Brown - Very Fine Grain - Silty - Slightly Micaceous - Well Sorted - Tite - No Shows.
- Core 8 -- 7268 $\frac{3}{4}$ " - Shale Red Brown - Very Silty and Micaceous - No Shows.
- Core 9 -- 7238 1" - Shale " " " " " "
- Core 10 - 7145 $1\frac{1}{2}$ " - Shale " " " " " "
- Core 11 - 7070 1" - Silty Streaks - Brown to Red Brown - Micaceous - Tite - No Shows.
- Core 12 - 6108 1" - Sand Red Brown - Very Fine Grain - Very Silty - Micaceous - Well Sorted - Tite - No Shows.
- Core 13 - 5813 1" - Silty Streaks - Red Brown - Micaceous - Tite - No Shows.
- Core 14 - 5509 1" - Sand Blue Grey - Uniform Grain - Micaceous - With grey Shale Laminations - Poor Perosity and Permability - No Shows.
- Core 15 - 5342 $\frac{3}{4}$ " - Mud Stone - Brown to Red Brown.
- Core 16 - 4512 $1\frac{1}{2}$ " - Sand Blue Grey - Uniform Grain - Well Rounded and Sorted - Slightly Glauconitic - Fair Perosity and Permability with Black Shale Laminations - No Shows.
- Core 17 - 4041 $1\frac{1}{2}$ " - Shale Grey Green Limey and Fossiciferous.
- Core 18 - 3982 1 $\frac{3}{4}$ " - Shale Grey - Calcareous - Grey Shale With Lime Laminations.
- Core 19 - 2874 $1\frac{1}{2}$ " - Shale Tan - Calcareous.
- Core 20 - 4570 1" - Sand Light Grey - Uniform Grain - Well Sorted - Slightly Micaceous - Slightly Silty - No Shows.
- Core 21 - 4581 $1\frac{1}{2}$ " - Sand With Fine Grain - Well Sorted and Rounded - Good Perosity and Permability.
- Core 22 - 6192 1 $\frac{3}{4}$ " - Sand Red Brown - Uniform Grain - Slightly Silty and Micaceous - Well Sorted - Fair Perosity and Permability - No Shows.
- Core 23 - 8486 $1\frac{1}{2}$ " - Sand Red Brown - Uniform Grain - Very Silty - Slightly Micaceous - Appears Tite - No Shows.

GULF COASTAL DRILLING
#1 U. S. A.
SEC. 4, T. 5S - R. 7W
LIBERTY COUNTY
FLORIDA

277

FAUNAL DETAIL SAMPLE ANALYSIS

- 2990 FIRST SAMPLE EXAMINED
Caving and chalk. Reworked Cretaceous fauna (Maast. Campanian) includes Globotruncana linneiana; and flood Late Paleocene Tertiary planktonics.
- 3035 Electric log pick = Top Cretaceous
- 3020 Caving and chalk. Same as above, probably Late Campanian, with:
Globotruncana ventricosa
Globotruncana spp.
Arenobulimina americana
Dorothea sp.
- 3050 Similar with:
Heterostomella americana
Stensiolina americana
Bolivinoidea miliaris
- 3080 Same
- 3110 Similar plus:
Anomalinoidea pinguis
- 3140 Caving and chalk continues, much caving. Similar plus:
Globorotalites micheliana
Buliminella cushmani
No Bolivinoidea
- 3170 Same
- skip to
- 3230 Same
- 3260 Similar plus:
Marginulina inconstantia (2)
- 3290 Similar plus:
Archaeoglobigerina cretacea

- 3320 Similar caving and chalk, with:
Marginotruncana marginata
Planulina taylorensis
Gaudryina stephensoni
Veenia paratriplicata
 Brachycythere sp.
 Tritaxia sp.
- 3350 Similar
Marginotruncana sigali (?reworked)
Marginotruncana aff. renzi
 Gaudryina sp.
- 3380 Similar to 3320'
- 3410 Similar with:
 Marginotruncana cf. renzi
- 3440 Similar
- 3470 Similar
- 3500 Similar
- 3530 Similar with: Definite Late Middle Santonian
Marginotruncana concavata carinata
 Phacorhabdotus sp.
- 3560 Similar plus:
 Nodosaria sp.
Marginotruncana cf. schneegansi
Marginotruncana sigali
Marginotruncana concavata (2)
- 3590 Same
 Marginotruncana spp.
 Marginotruncana concavata (4)
- 3620 Chalk. Similar with:
Heterohelix striata
Heterohelix globulosa
 Globigerinelloides sp.
- 3650 Chalk, mostly caving.
 Marginotruncana marginata
 rare Globotruncana linneiana
 Marginotruncana renzi (2)
 Marginotruncana coronata (1)

- 3680 Chalk and mostly caving. Similar with very rare planktonics. Probably shallow environment. Increase in clam prisms.
- 3710 Similar to 3650^s with:
Marginotruncana concavata concavata
- 3740 Similar with:
Hedbergella sp.
- 3770 Similar
Marginotruncana pseudolinneiana
- 3800 Similar with some very argillaceous gray chalk.
Similar
- 3830 Similar
- 3860 Similar
Hedbergella portdownensis
- 3890 Similar
- 3920 Similar with chalky shale. Similar
- 3950 Similar
- 3980 Similar
- 4010 Similar with:
Hedbergella simplex
- 4040 Mostly gray chalky shale. Similar
- 4070 Similar plus sandstone. Similar
- 4100 Similar, mostly chalky shale
- 4130 Similar
- 4160 Mostly fine grained arg. sandstone.
- 4190 Similar with minor light grayish brown shale - only caving.
- 4220 Mostly fine grained sandstone. Similar
- 4250 Similar with light grayish brown shale. Same
- 4280 Same

- 4310 Similar
- 4340 Similar
- 4370 Sandstone and brown shale. Caving and:
Hedbergella sp.
Hedbergella portsdownensis
- 4400 Same. Barren - only caving
- 4430 Similar
- 4460 Similar
- 4490 Similar with:
Hedbergella sp. (4)
Marginotruncana imbricata - possible caving from higher
- 4520 Similar
Hedbergella portsdownensis (2)
Hedbergella sp. (3)
- 4550 Similar, mostly sandstone. Similar.
- 4580 Similar with:
very rare Hedbergella
- 4610 Similar
Marginotruncana helvetica - probably caving
- 4640 Similar with uncommon lignite fragments and:
very rare Hedbergella
- 4670 Sandstone and brown shale. Same.
- 4700 Similar plus medium to coarse quartz.
very rare Hedbergella
- 4730 Sandstone and shale
- skip to
- 4790 Same with:
Hedbergella sp.
- 4820 Similar
Hedbergella sp. (3)
- 4850 Similar
rare Hedbergella sp.
- 4880 Gray shale and sandstone. Similar

- 4920 Mostly red sandstone, minor red shale, trace crystalline dol. Barren
- 5000 Similar with some red shale. Barren
- 5050 Similar. Barren
- 5110 Similar with some clear sandstone and siltstone. Barren
- 5170 Similar, mostly clear sandstone - trace caving.
- 5230 Similar with trace coarse qtz. and brown shale. Trace caving.
- 5290 Similar with fine grained sandstone, red and clear. Some red shale and minor brown shale. Minor caving.
- 5350 Mostly gray shale, some Upper Cretaceous caving.
- 5410 Similar plus chalky limestone - probable caving. Caving - Cretaceous and Tertiary.
- 5470 Similar - much caving
- 5530 Similar with some clear fine grained sandstone, trace of red sandstone and shale. Some caving.
- 5590 Similar with fine to coarse clear qtz. and fine grained red sandstone. Trace caving.
- 5650 Similar, more finegrained red sandstone. Some Tertiary and Cretaceous caving.
- 5710 Similar with less red sandstone. Some caving.
- 5770 Similar
- 5830 Similar
- 5890 Similar - caving mostly Tertiary.
- 5950 Similar
- 6020 Similar with;
Hedbergella delrioensis
- 6070 Similar with some Cretaceous and Tertiary caving.
- 6130 Similar - trace caving

- 6190 Mostly red and clear fine to mostly coarse grained sandstone. Minor red and gray shale.
- 6250 Similar
- 6310 Similar -- more caving
- 6370 Similar, mostly clear very coarse qtz. sand.
- 6430 Similar
- 6490 Similar
- 6550 Similar, mostly gray shale -- some caving
- 6610 Similar
- 6670 Similar to 6490' -- trace caving
- 6730 Similar -- trace caving with fragment agglutinated uniserial foram
- 6790 Fine to coarse clear and red sand, some brown. Minor red shale. Minor caving.
- 6850 Similar -- some Tertiary caving and trace Cretaceous caving.
- 6910 Similar. Minor caving.
- 6970 Similar. Some caving.
- 7030 Much red micrite to micro-crystalline limestone. Red fine grained sandstone and shale. Some other lithology as above -- trace caving.
- 7100 Similar, mostly fine grained red sandstone. Some fine to medium coarse red and clear sandstone.
- 7160 Similar
- 7220 Similar with trace of brown micrite. Minor caving.
- 7280 Similar
- 7330 Mostly brown shale and fine grained clear sandstone. Minor caving.
- 7390 Mostly fine grained red to clear sandstone. Trace red micrite and shale.

- 7450 Similar with increase in red micrite.
- 7510 Similar with small fragments red micrite or shale, in sandstone.
- 7570 Very small sample -- much caving.
- 7600 Mostly red fine grained sandstone
- 7620 Similar with some red shale, trace red micrite and caving.
- 7640 Similar with minor tan micrite.
- 7650 Similar, in part arenaceous micrite, trace caving.
- 7670 Similar -- some caving.
- 7680 Similar. Some red micrite. Minor caving. Lower Cretaceous "seed case" type charophyte
- 7700 Mostly fine grained red sandstone. Minor micrite, trace shale and caving.
- 7710 Similar
- 7730 Similar
- 7740 Similar
- 7760 Similar with slight increase in micrite.
- 7770 Similar
- 7790 Similar with trace micrite
- 7800 Similar, again slight increase in micrite.
- 7820 Mostly caving, gray chalky shale and clear sandstone. Very bad sample.
- 7830 Similar
- 7850 Similar
- 7860 Similar
- 7880 Similar
- 7890 Similar

7910	Similar
7920	Similar
7940	Similar
7950	Similar
7980	Similar with gray shale, some coarse clear qtz. Caving.
7990	Similar
8010	Similar - mostly caving.
8020	Similar
8040	Similar
8050	Similar with some red sandstone - much caving.
8070	Fine to coarse clear qtz and gray chalky shale. Caving.
8140	Mostly clear fine grained sandstone (in part red) and some red shale.
8200	Gray shale, micaceous gray shale, fine grained clear sandstone.
8260	Similar plus red shale, sandstone and micrite.
8320	Similar
8380	Mostly fine grained red sandstone, minor red shale and a trace micrite.
8440	Similar - trace caving
8500	Fine to medium grained red sandstone. Minor red shale, trace micrite.
8570	Similar
8630	Similar
8690	Similar
8750	Mostly medium grained clear sandstone (in part red) (or slightly iron stained). Minor shale.