

County: Charles City

VDMR Well # 6032

Well: CC-T-4

Property Owner:

Driller:

Location: $37^{\circ} 22' 05''$ N. $77^{\circ} 02' 35''$ W.

Altitude Top of Hole: 70'

Total Depth: 170'

Started Drilling:

Completed Drilling:

Sample Description by: Becky Darnton & Kelvin Ramsey

GEOLOGIC SUMMARY

Depth	Thickness	Formation	Age
	5		Post Miocene
	45		Claiborne
	100		Midway
	> 25		K-Unit F

Depth
(feet)

GEOLOGIC LOG

W-6032

- 00-10 Sand - light brownish gray 2.5Y-6/2; moderate amount silt & clay; medium to coarse grains; poor sorting; some ferricrete; few muscovite flakes; 77% glauconite; few large pebbles.
- 10-20 Sand - dark gray 10YR-4/1 & pale yellow 5Y-8/4; moderate amount silt & clay; medium to coarse grains; angular to subrounded; poor sorting; some gypsum; few ferricrete grains; few muscovite flakes; some sulfur; 15-20% glauconite.
- 20-30 Same as above; abundant silt & clay; 10% glauconite.
- 50-60 Sand - same as above; some shell fragments
Clay - light reddish brown; some silt; few sand grains; few heavy minerals.
- 60-70 Clay - light gray 5YR-6/1; moderate - some sand; medium grained; subangular-subrounded; poorly sorted (coarse-clay); some silt; 20% glauconite; 5% shell fragments; some forams - Nonion; some red mottling.
- 75' Silt - light gray 7.5YR N7/; and clay - light brown 7.5YR-6/4; 10% glauconite; some medium sand; some muscovite.
- 70-80 Same as 75'; 30% shell fragments; moderate forams - Siphogenerina medium sand & glauconite.
- 80-90 Silt (dominant); light gray 5Y-6/1; and clay light brown 7.5YR-6/4; moderate indurated glauconite; shell & qtz grains; glauconite 25% of sand fraction.
- 90-100 Silt - light 5Y-6/1; little clay moderate-some sand; subrounded; poorly sorted (medium-silt & clay); 15% glauconite; 20% shell fragments; moderate indurated glauconite, qtz grains & shell.
- 100-110 Silt - gray 5Y-5/1; little clay; moderate sand; medium-fine grained; moderately sorted (medium-silt); sand - 40% qtz 60% glauconite; 15% shell fragments; some forams; Cibicides.
- 110-120 Same as 100-110 moderate indurated qtz, glauconite & shell fragments - calcite cement; 5% fragments.
- 120-130 Same as 100-110 70% glauconite; 15% shell.
- 130-140 Same as 120-130; ostracod; glauconite - darker green than 120-130; pebbles.
- 140-150 Silt - light gray 5Y-6/1; little clay; moderate sand; medium grained; subrounded; moderately sorted (medium-silt); sand - 50% qtz 50% glauconite; moderate indurated qtz, glauconite, shell fragments - calcite cement.

Depth
(feet)

-2-

150-160
unwashed only

Silt & clay - light gray 5Y-6/1; moderate sand; medium grained;
subrounded; poorly sorted (medium-clay).

160-170
unwashed only

Same as 140-150.

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	5		Post Miocene
	45		Claiborne
	100		Midway
	>20		K-Unit F

0-60 Logged by
Becky Darnton
60-110 Logged by
Kelvin Ramsey

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GEOLOGIC LOG

Depth →
(feet)
0-10

~~VA-CC-T-4 C-1~~

Sand - light brownish gray 2.5Y-6/2; moderate amount silt & clay; medium to coarse grains; poor sorting; some ferricrete; few muscovite flakes; 7% glauconite; few large pebbles

10-20

Sand - dark gray 10YR-4/1; moderate amount silt & clay; medium to coarse grains; angular to subrounded; poor sorting; some gypsum; few ferricrete grains; few muscovite flakes; some sulfur; 15-20% glauconite

20-30

Same as above; abundant silt & clay; 10% glauconite

50-60

Sand - same as above; some shell fragments
Clay - light reddish brown; some silt; few sand grains; few heavy minerals

60-70

Clay; light gray 5YR 6/1; moderate-some sand; medium grained; subangular-subrounded; poorly sorted (coarse-clay); some silt; 20% glauconite; 5% shell fragments; some Forams - Nonion; some red mottling

75'

Silt; light gray 7.5YR N 7/1; and Clay; light brown 7.5YR 6/4; 10% glauconite; some medium sand; some muscovite

70-80'

same as 75'; 30% shell fragments; moderate Forams - Siphogenerina medium sand + glauconite

80-90'

(dominant) Silt; light gray 5Y 6/1; and clay light brown 7.5YR 6/4; moderate indurated glauconite, shell & qtz grains; glauconite 25% of sand fraction

90-100'

Silt; light gray 5Y 6/1; little clay, moderate-some sand; subrounded; poorly sorted (medium-silt+clay); 15% glauconite; 20% shell fragments; moderate indurated glauconite, qtz grains + shell

C-1
VA-CC-T-4

(2)

- 100'-110' Silt; gray 5Y 5/1; little clay; moderate sand; medium-fine grained; moderately sorted (medium-silt); sand - 40% qtz 60% glauconite; 15% shell fragments; some forams; Cibicides
- 110'-120' same as 100'-110'; moderate indurated qtz, glauconite & shell fragments - calcite cement; 5% shell fragments
- 120'-130' same as 100'-110' - 70% glauconite; 15% shell
- 130'-140' same as 120'-130'; ostracod; glauconite - darker green than 120'-130'; pebble
- 140'-150' Silt; light gray 5Y 6/1; little clay; moderate sand; medium grained; subrounded; moderately sorted (medium-silt); sand - 50% qtz 50% glauconite; moderate indurated qtz, glauconite, shell fragments - calcite cement;
- 150'-160' ^{+clay} Silt; light gray 5Y 6/1; moderate sand; medium grained; subrounded; _{unwashed only} poorly sorted (medium-clay);
- 160'-170' _{unwashed only} same as 140'-150'