

County: Surry  
VDMR Well #1996

Well: V-67-36  
Property Owner: State, road right-of-way  
Driller: Froehling and Robertson  
Location: West side of State Road 615, 0.25 mile south of intersection of  
State Road 616 and State Road 615  
Altitude Top of Hole: 122 feet  
Total Depth: 56.0 feet  
Started Drilling: June 29, 1967  
Completed Drilling: June 29, 1967  
Sample Description by: N. K. Coch

GEOLOGIC SUMMARY

Depth	Thickness	Formation	Age
0.0'-32.0'	32.0'	Bacons Castle (?)	Pliocene ?
32.0'-43.0'	11.0'	Bacons Castle	Pliocene ?
43.0'-48.0'	5.0'	Sedley	Pliocene ?
48.0'-56.0'	8.0'	Yorktown	Late Miocene

## GEOLOGIC LOG

Formation	Depth in feet	Thickness in feet	Description
Bacons Castle	0.0-4.0	4	Flush Interval
	4.0-6.0	2	Sand - tan, fine-medium, slightly-silty, brick-red areas (more silty) 4.0'-5.0' - 8 blows per foot 5.0'-6.0' - 10 blows per foot Compressive strength: 1.1 tons per square foot
	6.0-9.0	3	Flush Interval
	9.0-11.0	2	Silt - gray, fine-sandy (20 percent), orange mottling 9.0'-10.0' - 9 blows per foot 10.0'-11.0' - 12 blows per foot Compressive strength: 2.2 tons per square foot
	11.0-14.0	3	Flush Interval
	14.0-16.0	2	Similar to 9.0'-11.0' interval but finer and very compact 14.0'-15.0' - 11 blows per foot 15.0'-16.0' - 19 blows per foot Compressive strength: 3.2 tons per square foot
	16.0-19.0	3	Flush Interval
	19.0-21.0	2	Similar to 14.0'-16.0' interval but orange with minor gray mottling 19.0'-20.0' - 12 blows per foot 20.0'-21.0' - 24 blows per foot Compressive strength: 2.8 tons per square foot
	21.0-24.0	3	Flush Interval
	24.0-26.0	2	Silt - clayey, dark-brownish-orange, some ferricrete, finer than 14.0'-16.0' interval, gray mottling 24.0'-25.0' - 13 blows per foot 25.0'-26.0' - 22 blows per foot Compressive strength: 2.2 tons per square foot

## VDMR Well #1996

Formation	Depth in feet	Thickness in feet	Description
Bacons Castle	26.0-29.0	3	Flush Interval
	29.0-31.0	2	Silt - bluish-gray, finely-laminated 29.0'-30.0' - 3 blows per foot 30.0'-31.0' - 4 blows per foot Compressive strength: 0.25 ton per square foot
	31.0-32.0	1	Flush Interval
	32.0-34.0	2	Flush Interval
	34.0-36.0	2	Sand - tan, coarse, gravelly, 20 percent silt, pieces of gray clay, noticeable opaque minerals 34.0'-35.0' - 13 blows per foot 35.0'-36.0' - 4 blows per foot Compressive strength: no reading
	36.0-39.0	3	Flush Interval
	39.0-41.0	2	Sand - orange, coarse, well-sorted, trace of granules 39.0'-40.0' - 12 blows per foot 40.0'-41.0' - 18 blows per foot Compressive strength: no reading
	41.0-43.0	2	Flush Interval
Sedley	43.0-44.0	1	Flush Interval
	44.0-46.0	2	Sand - orange, 20 percent fine-silt, and interlaminated clay, gray, trace fine sand, thick pieces of ferricrete at top of interval 44.0'-45.0' - 8 blows per foot 45.0'-46.0' - 5 blows per foot Compressive strength: 0.75 ton per square foot
	46.0-48.0	2	Flush Interval
Yorktown	48.0-49.0	1	Flush Interval

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Formation	Depth in feet	Thickness in feet	Description
Yorktown	49.0-51.0	2	Silt - dark-bluish-gray, decomposed shells, percentage of shells increases downward 49.0'-50.0' - 3 blows per foot 50.0'-51.0' - 5 blows per foot Compressive strength: 0.8 ton per square foot
	51.0-54.0	3	Flush interval
	54.0-56.0	2	Silt - bluish-gray, medium, fossiliferous, many small pelyceps 54.0'-55.0' - 8 blows per foot 55.0'-56.0' - 11 blows per foot Compressive strength: 2.75 tons per square foot



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	39.0-41.0	2	Sand - orange, coarse, well-sorted, trace of granules 39.0'-40.0' - 12 blows per foot 40.0'-41.0' - 18 blows per foot Compressive strength: no reading - <i>d</i>
	41.0-43.0	2	Flush Interval
Sedley ?	43.0-44.0	1	Flush Interval
	44.0-46.0	2	Sand - orange, 20 percent fine-silt and interlaminated clay, gray, trace fine sand, thick pieces of ferricrete at top of interval 44.0'-45.0' - 8 blows per foot 45.0'-46.0' - 5 blows per foot Compressive strength: 0.75 ton per square foot
	46.0-48.0	2	Flush Interval
Yorktown ?	48.0-49.0	1	Flush Interval



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Yorktown	49.0-51.0	2	Silt - dark-bluish-gray, decomposed shells, percentage of shells increases downward 49.0'-50.0' - 3 blows per foot 50.0'-51.0' - 5 blows per foot Compressive strength: 0.8 ton per square foot
	51.0-54.0	3	Flush interval
	54.0-56.0	2	Silt - bluish-gray, medium, fossiliferous, many small pelyceps 54.0'-55.0' - 8 blows per foot 55.0'-56.0' - 11 blows per foot Compressive strength: 2.75 tons per square foot

