

County: Surry  
VDMR Well # 1997

Well: V-67-37

Property Owner: State, road right-of-way

Driller: Froehling and Robertson

Location: Northeast corner of intersection of State Highway 40 and  
State Road 611

Altitude Top of Hole: 122 feet

Total Depth: 61.0 feet

Started Drilling: June 30, 1967

Completed Drilling: June 30, 1967

Sample Description by: N. K. Coch

#### GEOLOGIC SUMMARY

Depth	Thickness	Formation	Age
0.0-18.0'	18.0'	Bacons Castle (?)	Pliocene (?)
18.0-48.0'	30.0'	Bacons Castle	Pliocene
48.0-58.0'	10.0'	Sedley	Pliocene (?)
58.0-61.0'	3.0'	Yorktown	Lake Miocene

GEOLOGIC LOG

VDMR Well # 1997

Formation	Depth in feet	Thickness in feet	Description
Bacons Castle (?)	0.0-4.0	4.0	Flush Interval
	4.0-6.0	2.0	Silt - olive-gray, 70 percent fine sand, some red crusts 4.0'-5.0' - 11 blows per foot 5.0'-6.0' - 18 blows per foot Compressive strength: 2.7 tons per square foot
	6.0-9.0	3.0	Flush Interval
	9.0-11.0	2.0	Similar to 4.0'-6.0' interval but more orange mottling and some red areas 9.0'-10.0' - 18 blows per foot 10.0'-11.0' - 33 blows per foot Compressive strength: 3.7 tons per square foot
	11.0-14.0	3.0	Flush Interval
	14.0-16.0	2.0	Similar to 4.0'-6.0' interval but purplish-gray, with some orange and red mottling 14.0'-15.0' - 14 blows per foot 15.0'-16.0' - 26 blows per foot Compressive strength: 3.0 tons per square foot
	16.0-18.0	2.0	Flush Interval
Bacons Castle	18.0-19.0	1.0	Flush Interval
	19.0-21.0	2.0	Sand - pink, medium; laminae of gray, fine, silty sand, at angles to horizontal, noticeable opaque minerals 19.0'-20.0' - 7 blows per foot 20.0'-21.0' - 7 blows per foot Compressive strength: no reading

Formation	Depth in feet	Thickness in feet	Description
	21.0-24.0	3.0	Flush Interval
	24.0-26.0	2.0	Sand - orange, coarse, trace of granules, 15 percent silt 24.0'-25.0' - 4 blows per foot 25.0'-26.0' - 9 blows per foot Compressive strength: no reading
	26.0-29.0	3.0	Flush Interval
	29.0-31.0	2.0	Sand - tan and orange, laminated, slightly silty, and silt, red, fine, sandy 29.0'-30.0' - 3 blows per foot 30.0'-31.0' - 11 blows per foot Compressive strength: 0.5 tons per square foot
	31.0-34.0	3.0	Flush Interval
	34.0-36.0	2.0	Sand - tan, coarse, trace silt, trace granules 34.0'-35.0' - 10 blows per foot 35.0'-36.0' - 15 blows per foot Compressive strength: no reading
	36.0-39.0	3.0	Flush Interval
	39.0-41.0	2.0	Similar to 34.0'-36.0' interval but dark-orange at base 39.0'-40.0' - 12 blows per foot 40.0'-41.0' - 11 blows per foot Compressive strength: no reading
	41.0-44.0	3.0	Flush Interval
	44.0-46.0	2.0	Sand - tan and orange, medium, noticeable opaque minerals, some very-thin streaks of more-silty gray sand

(con't.)

VDMR Well # 1997

Formation	Depth in feet	Thickness in feet	Description
			(con't.) 44.0'-45.0' - 13 blows per foot 45.0'-46.0' - 17 blows per foot Compressive strength: no reading
	46.0-48.0	2.0	Flush Interval
Sedley	48.0-49.0	1.0	Flush Interval
	49.0-51.0	2.0	Silt - bluish-gray, thin laminae of fine blue sand 49.0'-50.0' - 2 blows per foot 50.0'-51.0' - 4 blows per foot Compressive strength: 0.75 tons per square foot
	51.0-54.0	3.0	Flush Interval
	54.0-56.0	2.0	Silt - greenish-blue, laminated, opaque minerals noticeable (Glauconite ?) 54.0'-55.0' - 4 blows per foot 55.0'-56.0' - 6 blows per foot Compressive strength: 1.1 tons per square foot
	56.0-58.0	2.0	Flush Interval
Yorktown	58.0-59.0	1.0	Flush Interval
	59.0-61.0	2.0	Coquinite - concretionary, pale-gray some shell fragments, silty matrix (20 percent) 59.0-60.0' - 47 blows per foot 60.0'-61.0' - 23 blows per foot Compressive strength: no reading

INTERVAL SHEET

Page 1 of 1

VDMR Well No: 1997

Date rec'd: 9/29/67

Sample Interval: from 4 to: 61

PROP: State Right of Way  
Well V-67-37

Number of samples: 12

COMP: Froehling and Robertson

Total Depth: 61'

COUNTY: Surry

Oil or Gas: Water: Exploratory: X

From-To	From-To	From-To	From-To
-	-	-	-
4 - 6	-	-	-
9 - 11	-	-	-
14 - 16	-	-	-
19 - 21	-	-	-
24 - 26	-	-	-
29 - 31	-	-	-
34 - 36	-	-	-
39 - 41	-	-	-
44 - 46	-	-	-
49 - 51	-	-	-
54 - 56	-	-	-
59 - 61	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples

County: Surry  
VDMR Well # 1997

Well: V-67-37

Property Owner: State, road right-of-way

Driller: Froehling and Robertson

Location: Northeast corner of intersection of State Highway 40 and  
State Road 611

Altitude Top of Hole: 122 feet

Total Depth: 61.0 feet

Started Drilling: June 30, 1967

Completed Drilling: June 30, 1967

Sample Description by: N. K. Coch

#### GEOLOGIC SUMMARY

Depth	Thickness	Formation	Age
0.0-18.0'	18.0'	Bacons Castle (?)	Pliocene (?)
18.0-48.0'	30.0'	Bacons Castle	Pliocene
48.0-58.0'	10.0'	Sedley	Pliocene (?)
58.0-61.0'	3.0'	Yorktown	Lake Miocene

GEOLOGIC LOG

VDMR Well # 1997

Formation	Depth in feet	Thickness in feet	Description
Bacons Castle (?)	0.0-4.0	4.0	Flush Interval
	4.0-6.0	2.0	Silt - olive-gray, 70 percent fine sand, some red crusts 4.0'-5.0' - 11 blows per foot 5.0'-6.0' - 18 blows per foot Compressive strength: 2.7 tons per square foot
	6.0-9.0	3.0	Flush Interval
	9.0-11.0	2.0	Similar to 4.0'-6.0' interval but more orange mottling and some red areas - ? 9.0'-10.0' - 18 blows per foot 10.0'-11.0' - 33 blows per foot Compressive strength: 3.7 tons per square foot
	11.0-14.0	3.0	Flush Interval
	14.0-16.0	2.0	Similar to 4.0'-6.0' interval but purplish-gray, with some orange and red mottling 14.0'-15.0' - 14 blows per foot 15.0'-16.0' - 26 blows per foot Compressive strength: 3.0 tons per square foot
	16.0-18.0	2.0	Flush Interval
Bacons Castle ?	18.0-19.0	1.0	Flush Interval
	19.0-21.0	2.0	Sand - pink, medium; laminae of gray, fine, silty sand, at angles to horizontal, noticeable opaque minerals 19.0'-20.0' - 7 blows per foot 20.0'-21.0' - 7 blows per foot Compressive strength: no reading

*descri*

Formation	Depth in feet	Thickness in feet	Description
	21.0-24.0	3.0	Flush Interval
	24.0-26.0	2.0	Sand - orange, coarse, trace of granules, 15 percent silt 24.0'-25.0' - 4 blows per foot 25.0'-26.0' - 9 blows per foot Compressive strength: no reading
	26.0-29.0	3.0	Flush Interval
	29.0-31.0	2.0	Sand - tan and orange, laminated, slightly silty, and silt, red, fine, sandy 29.0'-30.0' - 3 blows per foot 30.0'-31.0' - 11 blows per foot Compressive strength: 0.5 tons per square foot
	31.0-34.0	3.0	Flush Interval
	34.0-36.0	2.0	Sand - tan, coarse, trace silt, trace granules 34.0'-35.0' - 10 blows per foot 35.0'-36.0' - 15 blows per foot Compressive strength: no reading
	36.0-39.0	3.0	Flush Interval
	39.0-41.0	2.0	Similar to 34.0'-36.0' interval but dark-orange at base 39.0'-40.0' - 12 blows per foot 40.0'-41.0' - 11 blows per foot Compressive strength: no reading
	41.0-44.0	3.0	Flush Interval
	44.0-46.0	2.0	<i>observed</i> Sand - tan and orange, medium, noticeable opaque minerals, some very-thin streaks of more silty gray sand (con't.)

*should be on Pg 4*



VDMR Well # 1997

Formation	Depth in feet	Thickness in feet	Description
			(con't.) 44.0'-45.0' - 13 blows per foot 45.0'-46.0' - 17 blows per foot Compressive strength: no reading <i>-d</i>
	46.0-48.0	2.0	Flush Interval
Sedley ?	48.0-49.0	1.0	Flush Interval
	49.0-51.0	2.0	Silt - bluish-gray, thin laminae of fine, blue sand 49.0'-50.0' - 2 blows per foot 50.0'-51.0' - 4 blows per foot Compressive strength: 0.75 tons per square foot
	51.0-54.0	3.0	Flush Interval
	54.0-56.0	2.0	Silt - greenish-blue, laminated, opaque minerals noticeable - <i>man the</i> (Glaucinite ?) 54.0'-55.0' - 4 blows per foot 55.0'-56.0' - 6 blows per foot Compressive strength: 1.1 tons per square foot
	56.0-58.0	2.0	Flush Interval
Yorktown ?	58.0-59.0	1.0	Flush Interval
	59.0-61.0	2.0	Coquinite - concretionary, pale-gray, some shell fragments, silty matrix (20 percent) 59.0-60.0' - 47 blows per foot 60.0'-61.0' - 23 blows per foot Compressive strength: no reading <i>-d</i>

