

INTERVAL SHEET

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VDMR WELL NO. 611

Sample Interval: from 5 to 200

PROP: Richmond National Battlefield Park  
(Watt House)

Total Depth 200'

COMP: Sydnor

Oil      Gas      Water x Exploratory     

COUNTY: Hanover

Cuttings x Core      Other     

From-To	From-To	From-To	WASHED SAMPLES From-To	From-To
-	5 -	155 -	Complete set of sampled intervals	-
-	10 -	160 -		-
-	15 -	165 -		-
-	20 -	170 -		-
-	25 -	175 -		-
-	30 -	180 -	-	-
-	35 -	185 -	-	-
-	40 -	190 -	-	-
-	45 -	195 -	-	-
-	50 -	200 -	-	-
-	55 -	-	-	-
-	60 -	-	-	-
-	65 -	-	-	-
-	70 -	-	-	-
-	75 -	-	-	-
-	80 -	-	-	-
-	85 -	-	-	-
-	90 -	-	-	-
-	95 -	-	-	-
-	<u>100</u> -	-	-	-
-	105 -	-	-	-
-	110 -	-	-	-
-	115 -	-	-	-
-	120 -	-	-	-
-	125 -	-	-	-
-	130 -	-	-	-
-	135 -	-	-	-
-	140 -	-	-	-
-	145 -	-	-	-
-	150 -	-	-	-

Owner: Richmond National Battlefield Park Service  
Driller: Sydnor Pump & Well Co.  
County: Hanover

VDMR #611  
WWCR #30  
Depth 200'

SAMPLE EXAMINATION  
(washed)

5 - 10	Sand, fine-medium, sub-rounded-rounded, white-clear, with some tan brown clay.
10 - 15	Sand, medium, sub-rounded, round, white-clear.
15 - 20	Sand, as above with some tan clay.
20 - 25	Sand, as above, some very coarse rounded grains.
25 - 30	Sand, poorly sorted, fine-very coarse, rounded-angular, white-clear-gray-yellow, some brown clay.
30 - 35	Sandstone, poorly consolidated, fine grained, micaceous, white-dark gray, some dark gray-black mafic material.
35 - 40	Sand, fine grained as above.
40 - 45	Sand as above with traces of gray feldspar.
45 - 50	Sand, very poorly sorted, fine-pebble size angular-rounded grains, white-green-gray, traces of gray feldspar, mica, black mafic material, dolomite concretion with pyrite specks.
50 - 55	Sand as above.
55 - 60	Sand as above.
60 - 65	Sand as above.
65 - 70	Sand as above.
70 - 75	Sand, fine grained-coarse, clear-light gray with fragments of biotite gneiss and some light green clay material.
75 - 80	Sand with biotite gneiss fragments as above.
80 - 85	Sand as above.
85 - 90	Sand as above.
90 - 95	Sand as above.

- 95 - 100 Sand, medium-coarse, very glauconitic, white-clear grains, sub-angular, trace of fossil fragments and considerable black, vitreous dolomite, conchoidal fracturing, some silvery phyllite fragments. (TOP OF PAMUNKEY GROUP)
- 100 - 105 Greensand, medium grained, considerable fossil fragments, and mica flakes.
- 105 - 110 Greensand and fossil fragments, increase in mica content.
- 110 - 115 Greensand as above with some biotite gneiss and phyllite fragments.
- 115 - 120 Greensand, with considerable amounts of fossil fragments, sharks teeth, and black, concretionary, vitreous dolomitic material, traces of gneiss and phyllite.
- 120 - 125 Greensand with fossil fragments, coarse quartz grains, and black dolomitic material - about 90% glauconite.
- 125 - 130 Greensand, with fossil fragments and gray siltstone, mica.
- 130 - 135 Greensand as above.
- 135 - 140 Greensand as above.
- 140 - 145 Greensand as above.
- 145 - 150 Clay, pink, with glauconite and quartz grains imbedded in it.
- 150 - 155 Greensand, fossil fragments, coarse quartz grains.
- 155 - 160 Greensand as above.
- 160 - 165 Clay, pink, with quartz grains and glauconite imbedded in it.
- 165 - 170 Greensand, fine grained, micaceous, some fossil fragments, with traces of buff silty clay.
- 170 - 175 Greensand as above.
- 175 - 180 Greensand as above with considerable fossil fragments.
- 180 - 185 Greensand as above with some silty gray clay.

- 185 - 190 Sand, medium-very coarse grained, sub-angular, white-clear, arkosic, traces of fossils and glauconite (TOP OF POTOMAC GROUP) - probably a good water sand.
- 190 - 195 Sand, coarse-very coarse, white-buff-yellow, sub-angular, arkosic, - probably a good water sand.
- 195 - 200 Sand as above, - with uphole cavings.
- 200 - TD Sand, arkosic as above, many uphole cavings of fossil fragments and glauconite etc.

GEOLOGIC SUMMARY

Chesapeake Gp - surf  
Pamunkey Gp - 95 feet  
Potomac Gp - 185 feet

VIRGINIA DIVISION OF MINERAL RESOURCES  
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