

Net No. 1

PROP: W. H. WASHINGTON  
COMP: LEAZER WELL & PUMP  
COUNTY: KING GEORGE  
VDMR WELL NO.: 0256  
FROM: TO:

VDMR WELL NO. 0256

Sample Interval 0-720

Total Depth 720

Oil \_\_\_ Gas \_\_\_ Water  Exploratory \_\_\_

Cuttings  Core \_\_\_ Other \_\_\_

*See Scinnot's manuscript on  
wells in Northern Neck -  
Table 13*

From-To	From-To	From-To	From-To	From-To
0 - 10	190 - 200	390 - 400	580 - 590	-
10 - 20	200 - 210	400 - 410	590 - 600	-
20 - 30	210 - 220	410 - 420	600 - 610	-
30 - 40	220 - 230	420 - 430	610 - 620	-
40 - 50	230 - 240	430 - 440	620 - 630	-
50 - 60	240 - 250	440 - 450	630 - 640	-
60 - 70	250 - 260	450 - 460	640 - 650	-
70 - 80	260 - 270	460 - 470	650 - 660	-
80 - 90	270 - 280	470 - 480	660 - 670	-
90 - 100	280 - 290	480 - 490	670 - 680	-
100 - 110	290 - 300	490 - 500	680 - 690	-
110 - 120	310 - 320	500 - 510	690 - 700	-
120 - 130	320 - 330	510 - 520	700 - 710	-
130 - 140	330 - 340	520 - 530	710 - 720	-
140 - 150	340 - 350	530 - 540	-	-
150 - 160	350 - 360	540 - 550	-	-
160 - 170	360 - 370	550 - 560	-	-
170 - 180	370 - 380	560 - 570	-	-
180 - 190	380 - 390	570 - 580	-	-

OWNER: W.H. Washington  
DRILLER: Leazen P.&W. Co.  
COUNTY: King George (Dahlgren)

VDMR # 256  
WWCR # 7  
TOTAL DEPTH : 720

GEOLOGIC LOG

Calvert formation (0-70)

0-10 Sand - light tan, fine grained, angular, trace of iron, silt, and coarse grained sand

10-20 Sand - tan, coarse to fine grained, angular to sub-angular, trace of silt and iron

20-30 Sand - tan, coarse to fine grained, angular to sub-angular, very ferruginous, trace of silt and gravel

30-40 As above

40-50 Sand - light gray, fine grained, angular, trace of silt, clay and iron

50-60 Sand - light gray, fine grained, angular, trace of silt, clay, iron, and gravel

60-70 Sand - light gray, fine grained, angular, trace of silt, clay, gravel, iron, and collophane

Pamunkey group (70-410)

70-80 Sand - gray to green, medium to fine grained, angular to subangular, slightly glauconitic, trace of collophane, large number of shell fragments

80-90 Sand - gray to green, fine grained, angular, slightly glauconitic, and silty, trace of iron and clay, small number of shell fragments

90-100 Sand - gray to green, medium to fine grained, very glauconitic, large number of shell fragments, trace of collophane

100-110 Sand - gray to green, coarse to fine grained, very glauconitic, large number of shell fragments, trace of collophane, and limestone

110-120 Sand - green, fine grained, very glauconitic, small number of shell fragments

120-130 Sand - green, fine grained, very glauconitic, small number of shell fragments, slightly micaceous

OWNER: W.H. Washington (continued)

130-140	As above
140-150	As above
150-160	As above
160-170	As above
170-180	Sand - gray to green, fine grained, angular, very glauconitic, slightly silty and micaceous, small number of shell fragments
180-190	As above
190-200	As above
200-210	Sand - gray, fine grained, angular, slightly glauconitic, silty and micaceous, small number of shell fragments
210-220	Sand - gray, fine grained, angular, slightly glauconitic, silty, and micaceous, small number of shell fragments
220-230	Sand - gray, fine grained, angular, slightly glauconitic and micaceous, small number of shell fragments, and calcareous sandstone fragments
230-240	Sand - gray to green, medium to fine grained, angular to subangular, very glauconitic, slightly micaceous, small number of shell fragments
240-250	Sand - dark gray, fine grained, angular, very silty, slightly glauconitic and argillaceous, trace of shell fragments
250-260	Sand - gray to green, medium to fine grained, angular to subangular, very glauconitic, trace of mica and clay, large number of shell fragments
260-270	As above
270-280	Sand - gray to green, medium to fine grained, angular to subangular, very glauconitic, slightly silty, trace of mica and clay, large number of shell fragments
280-290	Sand - gray to green, medium to fine grained, angular to subangular, very glauconitic, trace of mica, large number of shell fragments

OWNER: W.H. Washington (continued)

- 290-300 Sand - gray to green, medium to fine grained, angular to subangular, very glauconitic, slightly silty, trace of mica, large number of shell fragments
- 300-310 Sand - gray to green, medium to fine grained, angular to subangular, very glauconitic, trace of silt, clay, and mica, large number of shell fragments
- 310-320 As above
- 320-330 As above
- 330-340 As above
- 340-350 Clay - tan to gray, very sandy and glauconitic, trace of mica, medium to fine grain, angular to subangular
- 350-360 Sand - tan, very argillaceous, slightly glauconitic and silty, trace of mica
- 360-370 As above
- 370-380 Sand - tan to gray, medium to fine grained, angular to subangular, very glauconitic and argillaceous, slightly silty, trace of mica and shell fragments
- 380-390 Sand - tan to gray, medium to fine grained, angular to subangular, very glauconitic, slightly argillaceous and silty, trace of mica and shell fragments
- 390-400 Sand - tan to gray, medium to fine grained, angular to subangular, very argillaceous and silty, slightly glauconitic, trace of shell fragments
- 400-410 As above
- Potomac group (410-720)
- 410-420 Sand - gray, coarse to fine grained, angular to subangular, slightly glauconitic, arkosic and silty
- 420-430 Sand - tan, medium to fine grained, angular to subangular, slightly silty, argillaceous, and glauconitic, trace of mica
- 430-440 Clay - gray to brown, very sandy and silty, slightly glauconitic and micaceous
- 440-450 Sand - tan to gray, medium to fine grained, angular to subangular, very glauconitic, slightly silty, and argillaceous, trace of shell fragments and mica

OWNER: W.H. Washington (continued)

- 450-460 As above
- 460-470 As above
- 470-480 Sand - tan to gray, medium to fine grained, angular to subangular, slightly glauconitic, silty, and argillaceous, trace of shell fragments and mica
- 480-490 Sand - gray, medium to fine grained, angular to subangular, very glauconitic, slightly silty, trace of shell fragments and mica
- 490-500 As above
- 500-510 Sand - gray, coarse to fine grained, angular to subangular, slightly silty and arkosic, trace of glauconite and mica
- 510-520 Sand - gray, medium to fine grained, angular to subangular, slightly glauconitic, silty, and argillaceous, small amount of shell fragments and gravel, trace of mica
- 520-530 Sand - tan to gray, coarse to fine grained, angular to subangular, very glauconitic, slightly silty and argillaceous, small number of shell fragments, large number of quartz granules
- 530-540 Sand - tan to gray, coarse to fine grained, angular to subangular, very glauconitic, slightly silty, small number of shell fragments, trace of mica
- 540-550 As above
- 550-560 As above
- 560-570 Silt - brown, very sandy and argillaceous, slightly glauconitic and micaceous, trace of shell fragments
- 570-580 Sand - tan to gray, medium to fine grained, angular to subangular, very glauconitic, slightly silty and argillaceous, small number of shell fragments and quartz granules, trace of mica
- 580-590 Sand - brown, medium to fine grained, angular to subangular, very silty and argillaceous, trace of glauconite and mica

OWNER: W.H. Washington (continued)

- 590-600 Sand - brown, medium to fine grained, angular to subangular, slightly silty, argillaceous, and glauconitic, trace of shell fragments and mica
- 600-610 As above
- 610-620 As above
- 620-630 Sand - tan to gray, medium to fine grained, angular to subangular, very glauconitic, slightly silty and argillaceous, trace of shell fragments and mica
- 630-640 As above
- 640-650 Sand - gray to green, medium to fine grained, angular to subangular, very glauconitic, slightly silty, argillaceous and micaceous, small number of shell fragments
- 650-660 Sand - tan to gray, medium to fine grained, angular to subangular, very silty and argillaceous, slightly glauconitic, trace of shell fragments
- 660-670 As above
- 670-680 As above
- 680-690 Sand - white, medium to fine grained, angular to subangular, slightly arkosic, trace of glauconite, silt, and clay
- 690-700 Sand - gray, medium to fine grained, angular to subangular, slightly arkosic, silty and argillaceous, trace of glauconite and shell fragments
- 700-710 Sand - gray, medium to fine grained, angular to subangular, slightly arkosic, trace of glauconite, silt and clay
- 710-720 As above

GEOLOGIC SUMMARY

	<u>AGE</u>	<u>ROCK UNIT</u>
0-70	Miocene	Calvert formation
70-410	Eocene	Pamunkey group
410-720	Lower Cretaceous	Potomac group

Virginia Division of Mineral Resources  
James L. Ruhle - Geologist  
August 21, 1963