

VIRGINIA DIVISION OF MINERAL RESOURCES
 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

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Well Repository No.: 5233

Date rec'd Date Processed: 7/31/78

Sample Interval: from 5 to: 176

PROPERTY: VOHT

Number of samples: 34

COMPANY:

Total Depth: 176'

COUNTY: Charles City

Oil or Gas: Water: ~~Exploratory:~~

From-To	From-To	From-To	From-To
5 - 6	30 - 31	-	-
10 - 11	35 - 36	-	-
15 - 16	40 - 41	-	-
20 - 21	45 - 46	-	-
25 - 26	50 - 51	-	-
30 - 31	55 - 56	-	-
35 - 36	60 - 61	-	-
40 - 41	65 - 66	-	-
45 - 46	70 - 71	-	-
50 - 51	75 - 76	-	-
55 - 56	-	-	-
60 - 61	-	-	-
65 - 66	-	-	-
70 - 71	-	-	-
75 - 76	-	-	-
80 - 81	-	-	-
85 - 86	-	-	-
90 - 91	-	-	-
95 - 96	-	-	-
-	-	-	-
103 - 106	-	-	-
10 - 11	-	-	-
15 - 16	-	-	-
20 - 21	-	-	-
25 - 26	-	-	-

washed & unwashed samples

OWNER: VDHT
DRILLER: Va. Dept. of Highways
COUNTY: Charles City

W# 5233
Total Depth: 176'
Quad: Claremont

Depth
(feet)

GEOLOGIC LOG

0-5 No sample.

5-6 Sand - yellowish orange; moderate clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few grains of glauconite.

6-10 No sample.

10-11 Clay - grayish orange; silty; abundant sand; very fine grained; some fine grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some muscovite; few opaques.

11-15 No sample.

15-16 Sand - grayish orange; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; few grains of glauconite.

16-20 No sample.

20-21 Sand - grayish orange; moderately stained; slightly clayey; coarse grained to granular, some medium grains, some pebbles; subrounded; poorly sorted; quartz; feldspar; some opaques.

21-25 No sample.

25-26 As (20-21)

26-30 No sample.

30-31 Sand - grayish orange; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques; few shell fragments.

31-35 No sample.

35-36 Sand - olive light gray; moderate clay; very fine grained; subangular to subrounded; well sorted; quartz; some muscovite; few grains of feldspar; few shell fragments.

36-40 No sample.

40-41 As (35-36) except abundant clay; no feldspar.

41-45 No sample.

45-46 As (40-41) except light gray.

46-50 No sample.

Depth
(feet)

50-51 As (45-46)

51-55 No sample.

55-56 As (40-41) except olive light gray.

56-60 No sample.

60-61 Clay - medium light gray; some medium to coarse grained quartz; muscovite.

61-65 No sample.

65-66 As (60-61)

66-70 No sample

70-71 Clay - medium light gray.

71-75 No sample.

75-76 Sand - olive light gray; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; some shell fragments; some black phosphatic material; few grains of glauconite; ostracodes.

76-80 No sample.

80-81 As (75-76) except 3% shell fragments; some glauconite; few spines.

81-85 No sample.

85-86 Sand - olive light gray; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; forams common (inc. Bulimina, Pyrulina, Bolivina, Uvigerina, and Nonion); few shell fragments; ostracodes.

86-90 No sample

90-91 As (85-86) except forams common (inc. Buccella, Uvigerina, Pyrulina, Textularia, and Nonion); few grains of glauconite (green); few spines.

91-95 No sample.

95-96 Sand - medium light gray; slightly clayey; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 25% sandy limestone and shell fragments; 12% glauconite; forams (inc. Buccella, Nonion, and Robulus); few spines; pyrite.

96-105 No sample.

Depth
(feet)

- 105-106 Sand - olive light gray; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; some glauconite (black, green); some black phosphatic material; few shell fragments; forams scarce (inc. Buccella).
- 106-110 No sample.
- 110-111 Sand - greenish gray; moderate clay; medium grained; rounded; well sorted; 85% glauconite (black, green); quartz; pyrite; forams rare (inc. Robulus).
- 111-115 No sample.
- 115-116 As (110-111) plus muscovite.
- 116-120 No sample.
- 120-121 Sand olive light gray; abundant clay; very fine to medium grained; subangular to subrounded; moderately sorted; 70% glauconite (black-green); quartz; muscovite; pyrite.
- 121-125 No sample.
- 125-126 As (120-212) except 80% glauconite; no pyrite.
- 126-130 No sample.
- 130-131 As (120-121) except moderate clay; forams rare (inc. Robulus).
- 131-135 No sample.
- 135-136 Sand - olive light gray; moderate clay; medium grained; rounded; well sorted; 85% glauconite (black, green); quartz, pyrite.
- 136-140 No sample.
- 140-141 Sand - moderate olive brown; slightly clayey; fine to medium grained; rounded; moderately well sorted; 75% glauconite (black, brown); quartz.
- 141-145 No sample.
- 145-146 As (140-141) plus few large sandy limestone fragments.
- 146-150 No sample.
- 150-151 Sand - moderate olive brown; slightly clayey; silty; very fine to medium grained; subangular to rounded; poorly sorted; 60% glauconite (black, brown, green); quartz; few flakes of muscovite.
- 151-155 No sample.

Owner: VDHT

W# 5233

Depth
(feet)

- 155-156 As (150-151) except moderate clay; medium grained; well sorted.
- 156-160 No sample.
- 160-161 As (155-156) except 50% glauconite.
- 161-165 No sample.
- 165-166 Sand - greenish gray; slightly clayey; fine to medium grained; subangular to rounded moderately well sorted; quartz; 45% glauconite (black,green); some muscovite.
- 166-170 No sample.
- 170-171 As (165-166) except 60% glauconite.
- 171-175 No sample.
- 175-176 Sand - dark greenish gray; slightly clayey; medium grained, some coarse grains; rounded; well sorted; 70% glauconite (black,green,brown); quartz.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Thickness (feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-5	5	No sample	
5-31	26	Bacons Castle Formation	Pleistocene
31-35	4	No sample.	
35-56	21	Yorktown Formation	Pliocene-Miocene
56-60	4	No sample	
60-91	31	Calvert Formation	Miocene-Eocene
91-95	4	No sample	
95-176	81+	Nanjemoy Formation	Eocene

VIRGINIA DIVISION OF MINERAL RESOURCES
 David A. Hubbard, Jr., Geologist
 October 2, 1978