

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 3736
C# 175

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Prince George Woods Estates Mailing Address: 1001 Hamilton Ave. Col. Hgts. Va.

TENANT: Sub-division Mailing Address: Prince George, Va. 23834

DRILLER: Mitchell's Well & Pump Co. Mailing Address: Rt. # 1, Box 110, Col. Hgts. Va.

WELL LOCATION: County Prince George County Approx. 1.3 ^{feet}/_{miles} off Rt. 460 (direction) of on Rt. 630 adjacent to Fort Lee Drop Zone. ^{feet}/_{miles} (direction) of _____

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: August 1972 DATE COMPLETED: September 1972

TYPE OF DRILL RIG USED: Cable Tool TOTAL DEPTH 181 feet

WATER LEVEL: Stands 47 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped
Drawdown 61 feet
Rate 116 gal. per min.
Duration 24 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 50 feet
6 inches from _____ to 181 feet
_____ inches from _____ to _____ feet

SCREEN SIZE: 5 inches from 161 to 181 feet
with blank above

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color clear Taste good
Odor none Temp. _____ °F

CASE SIZE: 6 inches from _____ to 149' 3 1/2" feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other _____
Sub-division

GROUTING: Method Pumped under pressure
Material cement & water pump 50 feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____
20

PUMP: Type Submersible
Capacity _____ gal. per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: Yes X No _____

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: _____

LOG

FURNISHED BY: Mitchell's Well & Pump Company

DATE: October 25, 1972

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	3	Top Soil	Sample 1
3	10	Red Clay	2
10	20	Reddish Clay	3
27	30	Bluish Clay	4
30	40	Ditto	5
42	50	Bluish clay with some shells	6
50	60	Bluish clay with sand and shells	7
60	70	Ditto	8
70	80	Ditto	9
80	90	Bluish sandy clay	10
90	100	Ditto	11
105	110	Whitish gray sand with clay	12
114	120	Bluish clay with sand	13
127	130	Whitish sand, clay with few shells	14
130	140	Whitish sand with some clay	15
147	150	Bluish clay	16
153	160	Whitish sand	17
160	170	Whitish sand with small gravel	18
170	181	Whitish sand with few shells	19
		Samples retained in our office for pickup by personnel of Division of Mineral Resources.	

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

INTERVAL SHEET

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Well Repository No W#3736
C#175

Date rec'd: 11-27-72 Date Processed: 5/1/73

Sample Interval: from:0 to:181

PROPERTY: Prince George Woods Est.

Number of samples: 20

COMPANY: Mitchell's Well and Pump Co.

Total Depth: 181'

COUNTY: Prince George (Pr. Geo. CH)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
-	-	-	-
0 - 3	-	-	-
3 - 10	-	-	-
10 - 20	-	-	-
27 - 30	-	-	-
30 - 40	-	-	-
-	-	-	-
-	-	-	-
42 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
-	-	-	-
-	-	-	-
90 - 100	-	-	-
105 - 110	-	-	-
114 - 120	-	-	-
127 - 130	-	-	-
130 - 140	-	-	-
-	-	-	-
-	-	-	-
147 - 150	-	-	-
153 - 160	-	-	-
160 - 170	-	-	-
170 - 181	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Unwashed only.

OWNER: Prince George Woods Est.
DRILLER: Mitchell's
COUNTY: Prince George

W# 3736
C# 175
Total Depth: 181'

GEOLOGIC LOG

Depth
(feet)

MOORINGS "UNIT" (0-20')

- 0-3 Clay - very pale orange; moderate sand; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; some feldspar.
- 3-10 Sand - grayish orange; slightly clayey; coarse grained to granular, some medium grains, some pebbles; subrounded; moderately sorted; quartz; feldspar; few opaques.
- 10-20 As above except dark yellowish orange.
- 20-27 No sample.

YORKTOWN FORMATION (27-40')

- 27-30 Sand - yellowish gray; moderate clay; medium grained; subangular to subrounded; well sorted; quartz; feldspar; some opaques.
- 30-40 As above except fine to medium grained.
- 40-42 No sample.

CALVERT FORMATION (42-100')

- 42-50 Sand - olive light gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 7% shell fragments; few spines; few black phosphatic fragments; forams (inc. Textularia).
- 50-60 Sand - olive light gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 3% shell fragments; spines; black phosphatic material; forams; (inc. Robulus); ostracodes.
- 60-70 As above plus Textularia.
- 70-80 Sand - greenish gray; moderate clay; very fine to fine grained; subangular to subrounded; moderately well sorted; quartz; 2% black phosphatic material; some shell fragments; few grains of glauconite; foram; ostracode.

Depth
(feet)

80-90 Sand - greenish gray; slightly clayey; very fine to fine grained; subangular to subrounded; well sorted; quartz; 3% black phosphatic material; few grains of glauconite; few shell fragments.

90-100 As above plus some muscovite.

PATUXENT FORMATION (100-181')

100-110 Sand - white; slightly clayey; coarse to very coarse grained, some medium grains, some granules; subrounded; moderately well sorted; quartz; feldspar; few grains of pyrite.

110-114 No sample.

114-120 Sand - medium gray; slightly clayey; medium to very coarse grained, few granules; subrounded; moderately sorted; quartz; feldspar.

120-127 No sample.

127-130 Sand - white; slightly clayey; medium to very coarse grained; 10% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few shell fragments.

130-140 As above except coarse grained to granular, few pebbles; no shell fragments.

140-147 No sample.

147-150 Sand - light gray; abundant clay; coarse grained to granular, few pebbles; subrounded; moderately sorted; quartz; feldspar.

150-153 No sample.

153-160 Sand - white; coarse grained to granular (25%), 10% pebbles; subrounded; moderately sorted; quartz; feldspar.

160-170 As above except 35% granules, 15% pebbles.

170-181 As above except 20% granules, some pebbles; few shell fragments.

Logged by Michael T. Currie

GEOLOGIC SUMMARY

<u>Thickness (feet)</u>	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
20 +	Moorings "Unit"	Pleistocene
7	No sample	
13 +	Yorktown Formation	Pliocene - Miocene
2	No Sample	
58 +	Calvert Formation	Miocene - Eocene
81 +	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
August 9, 1978