

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: John Smith Mailing Address: 500 Jamestown Road  
Williamsburg, VA. 23825

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: H. H. Shaw Mailing Address: 3501 Jackson Farm Rd.  
Hopewell, VA. 23860

WELL LOCATION: County James City Approx. 5 ~~km~~ miles East (direction) of  
Williamsburg and \_\_\_\_\_ 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: Oct. 14, 1974 DATE COMPLETED: Oct. 28, 1974

TYPE OF DRILL RIG USED: \_\_\_\_\_ TOTAL DEPTH 300 feet

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

YIELD TEST: Method Bucket  
Drawdown \_\_\_\_\_ feet  
Rate 10 gal. per min.  
Duration 24 hrs., \_\_\_\_\_ min.

HOLE SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WELL TO SUPPLY: (check one) Home   
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other \_\_\_\_\_

GROUTING: Method \_\_\_\_\_  
Material \_\_\_\_\_ Depth \_\_\_\_\_ feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No \_\_\_\_\_

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal. per min.  
Depth of intake \_\_\_\_\_ feet

DRILL CUTTINGS SAVED: Yes  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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

INTERVAL SHEET

Page 1 of 1

Well Repository No.: W-4341  
C- 173

Date rec'd 4/25/75 Date Processed: 2/8/76

Sample Interval: from 0 to: 227'

PROPERTY: John Smith

Number of samples: 22

COMPANY: H. H. Shaw

Total Depth: 300'

COUNTY: James City (Grove)

Oil or Gas: Water:Exploratory:

From-To	From-To	From-To	From-To
0 -10	-	-	-
10 -20	-	-	-
20 -30	-	-	-
30 -40	-	-	-
40 -50	-	-	-
50 -60	-	-	-
60 -70	-	-	-
70 -80	-	-	-
80 -90	-	-	-
90 -100	-	-	-
100 -110	-	-	-
110 -120	-	-	-
120 -130	-	-	-
130 -140	-	-	-
140 -150	-	-	-
150 -160	-	-	-
160 -170	-	-	-
170 -180	-	-	-
180 -190	-	-	-
190 -200	-	-	-
200 -210	-	-	-
-	-	-	-
220 -227	-	-	-
-	-	-	-
-	-	-	-

Unwashed only.

OWNER: John Smith  
DRILLER: H. H. Shaw  
COUNTY: James City (Grove)

W#: 4341  
C#: 173  
TOTAL DEPTH: 300'

GEOLOGIC LOG

Depth  
(feet)

YORKTOWN FORMATION (0-110)

- 0-10 Sand - grayish brown; moderate clay; fine to medium grained; subangular; moderately well sorted; quartz; some weathered shell fragments; black phosphatic material; spines; forams (inc. Nonion).
- 10-20 As above except 2% shell fragments; no forams observed; ostracode.
- 20-30 As above except 3% shell fragments; glauconite; forams rare; no ostracode.
- 30-40 As above except minor silty gray clay; some shell fragments.
- 40-50 As above except 2% shell fragments; no gray silty clay; ostracodes.
- 50-60 As above plus forams rare; no ostracodes.
- 60-70 As above except forams scarce.
- 70-80 As above (inc. Buccella).
- 80-90 As above except (Buccella not observed).
- 90-100 As above (inc. Buccella); ostracode.
- 100-110 As above except (Buccella not observed).

CALVERT FORMATION (110-227)

- 110-120 Clay - dark gray; abundant sand; fine to medium subangular to subrounded quartz grains; some shell fragments; black phosphatic material; spines; forams (inc. Nonion and Siphogenerina).
- 120-130 Sand and clay - brown to dark gray; abundant clay; abundant sands; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 2% shell fragments; black phosphatic material; glauconite; spines; forams scarce.

Depth  
(feet)

- 130-140 Clay - dark gray; abundant sand; fine to medium sub-angular to subrounded quartz; 2% shell fragments; black phosphatic material; spines; forams (inc. Siphogenerina, Nonion and Buccella); ostracodes.
- 140-150 Sand and clay - gray; abundant clay; abundant sand; fine to medium subangular to subrounded quartz; 2% shell fragments; black phosphatic material; spines; forams (inc. Siphogenerina, Bulimina and Textularia).
- 150-160 Clay - gray; abundant sand; fine to medium grained; sub-angular to subrounded; quartz; 2% shell fragments; phosphatic material; spines; forams (inc. Siphogenerina, Buccella, Bulimina and Textularia).
- 160-170 As above except some shell fragments; (Buccella and Textularia not observed, however Nonion was observed); ostracode.
- 170-180 As above except (Siphogenerina, Bulimina, Nonion, Robulus and Discorbis observed); no ostracode.
- 180-190 Sand and clay - gray; abundant clay; abundant sand; fine to medium; subangular to subrounded; moderately well sorted; quartz; some shell fragments; phosphatic material; spines; forams (inc. Bulimina, Siphogenerina and Buccella); few grains glauconite.
- 190-200 As above except (only Nonion observed).
- 200-210 Sand - gray; abundant clay; fine to medium grained; sub-angular to subrounded; moderately well sorted; quartz; some shell fragments; phosphatic material; spines; forams (Robulus and Siphogenerina); few grains of glauconite.
- 210-220 No Sample.
- 220-227 Sand - gray; abundant clay; fine to coarse grained; sub-angular to subrounded; moderately sorted; quartz; 3% shell fragments; phosphatic material; limestone fragments; few grains glauconite; forams (inc. Siphogenerina and Nonion); pyrite.
- 227-300 No samples.

GEOLOGIC SUMMARY

<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
110	Yorktown Formation	Pliocene-Miocene
117+	Calvert Formation	Miocene-Eocene

Virginia Division of Mineral Resources  
David A. Hubbard, Jr., Geologist  
June 14, 1978