

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: Mr. W. B. Smith Mailing Address: Route #1
Prince George, Va. 23875

TENANT: Smith's Trailer Court Mailing Address: Same
Route #1, Box 110

DRILLER: Mitchell's Well & Pump Company Mailing Address: Col. Hgts., Va. 23834

WELL LOCATION: County Prince George Approx. 0.6 miles on Rt. #629 (direction) of
or Hickory Hill Road (road-back
entrance to Fort Lee) and 0.6 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: November 1969 DATE COMPLETED: November 1969

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 175 feet

WATER LEVEL: Stands 45 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pumped HOLE SIZE: 0 inches from 0 to 25 feet
Drawdown 25 feet
Rate 30 gal. per min.
Duration 11 hrs., _____ min.

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

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

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other trailer court

WATER ANALYSIS AVAILABLE: Yes _____ No _____
DRILL CUTTINGS SAVED: Yes 17 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: Samples retained at our office for pickup by personnel Division of Mineral Resources.
cc: State Health Department; Prince George Health Department

Hard formation; well termination.

LOG

FURNISHED BY: _____ DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	white sand and mud	
10	20	red mud and sand	
20	30	gray mud and sand and shell	
30	40	ditto	
40	50	ditto	
50	60	gray mud and clay	
60	70	ditto	
70	80	gray mud, sand and clay	
80	90	gray sand and mud	
90	100	ditto	
100	110	ditto	
110	120	ditto	
120	130	white looking mud, clay and sand	
130	140	gray-white mud, clay and sand	
140	150	white sand and gravel	
150	160	ditto	
160	175	ditto	

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INTERVAL SHEET

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Well Repository No: W-2728
C- 169

Date rec'd: 1/20/70 Date Processed: 1/26/70

Sample Interval: from:0to:175

PROPERTY: W. B. Smith
Smiths Trailer Court
COMPANY: Mitchell's Well & Pump Co.

Number of samples: 17

Total Depth: 175'

COUNTY: Prince George (New Bohemia)

Oil or Gas: Water: XExploratory:

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 - 175	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed & unwashed samples.

OWNER: W. B. Smith
Smith Trailer Court
DRILLER: Mitchell's
COUNTY: Prince George

W#: 2728
C#: 169
TOTAL DEPTH: 175'

GEOLOGIC LOG

Depth (feet)

MOORINGS "UNIT" (0-20')

- 0-10 Sand — white; abundant clay; medium grained to granular with some fine grains, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
- 10-20 Sand — pale yellowish orange; fine to coarse grained, some granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.

CALVERT FORMATION (20-100')

- 20-30 Sand — light olive gray; abundant clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 30% shell fragments; 2% black phosphatic material; spines; foram.
- 30-40 Sand — light olive gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 35% shell fragments; some black phosphatic material; spines; forams (inc. Quinqueloculina); ostracode.
- 40-50 Sand and clay — olive light gray; moderate clay; abundant sand; very fine to fine grained; subangular to subrounded; well sorted; quartz; 2% shell fragments; some black phosphatic material; spines; forams (inc. Nonion and Quinqueloculina).
- 50-60 Clay — light olive gray; slightly sandy; fine grained; subangular; well sorted; quartz; muscovite; few black phosphatic fragments; foram.
- 60-70 Clay — olive light gray; abundant sand; very fine to fine grained; subangular to subrounded; well sorted; quartz; 2% black phosphatic material; few grains of glauconite.
- 70-80 Clay — olive light gray; slightly sandy; very fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; few grains of glauconite.
- 80-90 Sand — olive light gray; moderate clay; fine grained; subangular to subrounded; well sorted; quartz; 2% black phosphatic material; few shell fragments; glauconite; muscovite.
- 90-100 Sand — olive light gray; abundant clay; fine grained with some medium and some coarse grains; subangular to subrounded; moderately sorted; quartz; 7% black phosphatic material; some glauconite; few shell fragments; few grains of garnet; foram.

Depth (feet)

NANJEMOY FORMATION (100-140')

- 100-110 Sand and clay — olive light gray; moderate clay; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 35% glauconite; muscovite.
- 110-120 Sand — olive light gray; abundant clay; very fine grained to granular, few pebbles; subangular to rounded; poorly sorted; quartz; glauconite 25% of sand fraction; muscovite; feldspar; few grains of garnet.
- 120-130 Clay — yellowish gray; slightly sandy; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; muscovite.
- 130-140 As above except light olive gray.

PATUXENT FORMATION (140-175')

- 140-150 Sand — white; coarse to very coarse grained with some medium grains; some granules; subrounded; moderately well sorted; quartz; feldspar.
- 150-160 Sand — white; medium to coarse grained with some fine grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some garnet.
- 160-175 Sand — white; slightly clayey; medium grained to granular, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Thickness (feet)	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
20	Moorings "Unit"	Pleistocene
80	Calvert Formation	Miocene-Eocene
40	Nanjemoy Formation	Eocene
35+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
August 11, 1978