

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 5222  
C#: 214

MAILING ADDRESS:

Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Robert A. Altwater, General Contractor Mailing Address: Rt. 1, Box 287-A1 Prince George, VA. 23875

TENANT: Mitchell's Well & Pump Co., Inc. Mailing Address: 16815 Happy Hill Rd. Colonial Heights, VA. 23834

DRILLER: J. J. Mitchell, Jr. Mailing Address: Colonial Heights, VA. 23834

WELL LOCATION: County Prince George Approx.        feet miles (direction) of         
Newstead Farms Rt. 674  
Lot 9, Block C, Section 2 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: March 1978 DATE COMPLETED: March 1978

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 195 feet

WATER LEVEL: Stands 82 feet below surface OR

has NATURAL flow of        gallons per minute.

YIELD TEST: Method Pumped

Drawdown 132 feet of test

pipe used took no air

Rate 12 gal. per min.

Duration 5 hrs.,        min.

WATER ZONES: from        to        feet

from        to        feet

from        to        feet

WATER: Color        Taste       

Odor        Temp.        °F

WELL TO SUPPLY: (check one) Home

Farm        Town        School       

Industry        Other       

WATER ANALYSIS AVAILABLE: Yes        No

DRILL CUTTINGS SAVED: 20 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:       

HOLE SIZE: 7½ inches from 0 to 15 feet

4 inches from 15 to 195 feet

       inches from        to        feet

SCREEN SIZE:        inches from        to        feet

       inches from        to        feet

       inches from        to        feet

CASE SIZE: 4 inches from +1 to 191'10" feet

       inches from        to        feet

       inches from        to        feet

GROUTING: Method Poured in

Material Cement, sand Depth 15 feet  
and gravel

PUMP: Type       

Capacity        gal per min

Depth of intake        feet

FURNISHED BY: Mitchell's Well & Pump

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	Orange earth	
10	30	Orange earth	
30	60	Gray mud-shell fragments	
60	130	Gray shell fragments	
130	140	Light gray	
140	160	Sand & gravel	
160	170	Brown mud	
170	180	Gray	
180	195	Sand & gravel	

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

INTERVAL SHEET

Page 1 of 1

Well Repository No: W#: 5222

Date rec'd: 7/6/78 Date Processed: 7/8/78

C#: 214  
Sample Interval: from: 0 to: 200

PROPERTY: Robert Atwater

Number of samples: 20

COMPANY: Mitchell

Total Depth: 195'

COUNTY: Prince George (Pr. George CH)

Oil or Gas: Water: X 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 - 195	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples.

OWNER: Robert Atwater  
DRILLER: Mitchell W & P Co.  
COUNTY: Prince George

W#: 5222  
C#: 204  
TOTAL DEPTH: 195'  
QUAD: Prince George

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Sand — grayish orange; moderate clay; medium to very coarse grained, 5% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 10-20 Sand — dark yellowish orange; moderately stained; moderate clay; fine to medium grained; subangular to subrounded; well sorted; quartz; feldspar; some opaques.
- 20-30 Sand — dark yellowish orange; moderate clay; medium to very coarse grained, some fine grains, 5% granules, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 3% ferricrete; few opaques.
- 30-40 Clay — olive light gray; moderate sand; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; 10% marl and sandy limestone fragments; few spines; few grains of feldspar; ferricrete.
- 40-50 Clay — olive light gray; moderate sand; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; 15% marl and sandy limestone fragments; some black phosphatic material; few grains of glauconite; feldspar; few spines.
- 50-60 Sand — olive light gray; abundant clay; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 2% black phosphatic material; some shell fragments; few grains of glauconite.
- 60-70 Sand — greenish gray; abundant clay; very fine to medium grained; subangular to rounded; moderately well sorted; quartz; 35% glauconite (black, green); some shell fragments; some black phosphatic material.
- 70-80 As above except 25% glauconite; forams (inc. Nodesaria and Robulus).
- 80-90 Sand — olive light gray; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 3% black phosphatic material; 2% glauconite; 2% shell fragments.
- 90-100 Sand — greenish gray; abundant clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 20% glauconite; 2% black phosphatic material; 2% shell fragments; few spines; ostracode.

Depth  
(feet)

- 100-110 Sand — dark greenish gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 45% glauconite; few shell fragments; pyrite.
- 110-120 Clay and sand — medium gray; abundant clay; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; glauconite 60% of sand sized fraction; quartz; 20% shell fragments; 3% sandy limestone fragments; ostracodes; forams (inc. Robulus).
- 120-130 Sand — light gray; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; muscovite; few grains of garnet.
- 130-140 Sand — light gray; slightly clayey; fine to coarse grained, 15% granules, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 7% glauconite; some shell fragments; muscovite.
- 140-150 Sand — off white; medium to coarse grained, 10% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite.
- 150-160 As above except 3% glauconite; few grains of garnet.
- 160-170 Clay — light brown; moderate sand; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; glauconite 40% of sand sized fraction; feldspar; muscovite; few shell fragments.
- 170-180 Clay — olive light gray, light brown; some quartz; some feldspar; some glauconite; muscovite.
- 180-190 Sand — white; coarse to very coarse grained, some medium grains, some granules, few pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 190-195 As above except medium to coarse grained, few granules; few grains of garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Thickness (feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-30	30	Moorings "Unit"	Pleistocene
30-60	30	Calvert Formation	Miocene-Eocene
60-120	60	Nanjemoy-Mattaponi Formation	Eocene-Cretaceous
120-195	75+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
September 21, 1978