

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B# 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Mr. John Grimes Mailing Address: 14804 Fox Drive, Col. Hgts. VA. 23834

TENANT: Mr. John Grimes Mailing Address: 14804 Fox Drive, Col. Hgts. VA. 23834

(J.J. Mitchell Jr.)

DRILLER: Mitchell's Well & Pump Co., Inc. Mailing Address: 16815 Happy Hill Rd. Col. Hgts. VA. 23834

WELL LOCATION: County Chesterfield Approx. 0.3 miles (direction) of

14804 Fox Dr (Walthall area) and 0.3 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: December 1977 DATE COMPLETED: December 1977

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 217' feet

WATER LEVEL: Stands 80 feet below surface OR

has NATURAL flow of 12 gallons per minute.

YIELD TEST: Method pumped

173' pipe used

Drawdown took no air feet

Rate 12 gal. per min.

Duration 4 hrs., min.

HOLE SIZE: 7 1/2 inches from 0 to 12 feet

4 inches from 12 to 217 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 217 feet

inches from to feet

inches from to feet

WATER ZONES: from to feet

from to feet

from to feet

WATER: Color Taste

Odor Temp. °F

GROUTING: Method cement, sand & gravel poured in gravel

Material cement, sand, Depth 10+ feet

WELL TO SUPPLY: (check one) Home home

Farm Town School

Industry Other

PUMP: Type

Capacity gal per min

Depth of intake feet

WATER ANALYSIS AVAILABLE: xxx No

DRILL CUTTINGS SAVED: xxx 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:

# 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		
	10	orangish earth	1
	20	orange earth	2
	30	orangish sand and gravel	3
40	60	gray mud- shells	4,5,6
70	90	gray mud	7,8,9
100	120	gray-tan sand and gravel	10,11,12
	130	tan - sand and gravel	13
	140	gray-tan sand and gravel	14
150	160	tan - sand and gravel	15,16
	170	gray-tan sand and gravel	17
	180	gray sand and gravel	18
190	200	gray mud	19,20
210	217	gray sand and gravel	21,22

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

INTERVAL SHEET

W# 5140  
C# 230

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Well Repository No:

Date rec'd: 3/11/78 Date Processed: 5/15/78

Sample Interval: from 0 to 217

PROPERTY: John Grimes

Number of samples: 22

COMPANY: Mitchell W \* P Co.

Total Depth: 217

COUNTY: Chesterfield (Walthall)

~~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	-	-	-
210 - 217	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed & unwashed samples

Owner: John Grimes  
Driller: Mitchell W & P Co.  
County: Chesterfield

W# 5140  
C# 230  
Total depth: 217'  
Quad: Chester

Depth  
(feet)

GEOLOGIC LOG

- 0-10 Sand - grayish orange; slightly clayey; medium to very coarse grained, some fine grains, 5% granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; few grains of glauconite.
- 10-20 As above except very dark yellowish orange; heavily stained.
- 20-30 Sand - pale yellowish orange; slightly clayey; medium to very coarse grained, some granules; angular to subrounded; moderately sorted; quartz; feldspar.
- 30-40 Clay - olive light gray; slightly sandy; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 7% shell fragments; glauconite 10% of sand sized fraction; some black phosphatic material.
- 40-50 Clay - olive light gray; moderate sand; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 20% shell fragments; glauconite 30% of sand sized fraction; some black phosphatic material; foram.
- 50-60 Clay - light gray; slightly sandy; fine to coarse grained; subangular to subrounded; moderately sorted; 15% shell fragments; quartz; glauconite 20% of sand sized fraction; few flakes of muscovite.
- 60-70 As above except glauconite 40% of sand sized fraction; some shell fragments; some muscovite.
- 70-80 Clay - light gray; moderate sand; very fine to fine grained; subangular to subrounded; well sorted; quartz; glauconite 30% of sand sized fraction; 3% shell fragments; muscovite.
- 80-90 Sand - dark greenish gray; moderate clay; very fine grained; some fine grains; subangular to rounded; well sorted; quartz; 35% glauconite; some muscovite.
- 90-100 Sand - salt and pepper; medium grained to granular, some fine grains; angular to subrounded; moderately sorted; quartz; feldspar; 3% glauconite.
- 100-110 Sand - white; coarse grained to granular, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; pyrite.

- 110-120 As above except no pebbles and no pyrite.
- 120-130 Sand - very pale yellow; slightly stained; medium to very coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 130-140 Sand - off white; medium to coarse grained, some fine grains; angular to subrounded; moderately well sorted; quartz; feldspar;
- 140-150 Sand - pale yellow; slightly stained; slightly clayey; coarse grained to granular, some medium grains, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.
- 150-160 As above.
- 160-170 Sand - white; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar.
- 170-180 Sand - light yellowish gray; slightly clayey; medium to coarse grained, 5% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 180-190 Sand - yellowish gray; slightly clayey; medium grained to granular, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar.
- 190-200 Clay - olive light gray; abundant sand; coarse grained to granular; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 200-210 Sand - white; slightly clayey; coarse to very coarse grained, 15% granules; angular to subrounded; moderately sorted; quartz; feldspar; some garnet; muscovite.
- 210-217- Sand - off white; coarse grained to granular, some pebbles; angular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet.

Logged by: Michael T. Currie

#### GEOLOGIC SUMMARY

<u>Depth</u> (feet)	<u>Thickness</u> (feet)	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-30	30	Bacons Castle Formation	Pleistocene
30-90	60	Nanjemoy-Mattaponi Formation	Eocene-Cretaceous
90-217	127+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
September 15, 1978