

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B-3667  
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

12020 Old Stage Rd.

OWNER: Friend Sand & Gravel Co.

Mailing Address: Chester, VA. 23831

TENANT: \_\_\_\_\_

Mailing Address: 16815 Happy Hill Rd.

DRILLER: Mitchell' Well and Pump Co.

Mailing Address: Colonial Hgts., VA. 23834

WELL LOCATION: County Chesterfield

Approx. 2 3/4 ~~feet~~ miles E (direction) of

Chester and 1/4 ~~xxx~~ miles N (direction) of SR 10, on East side of SR 732 (100 yds. from R. R.)  
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: January 1977

DATE COMPLETED: March 1977

TYPE OF DRILL RIG USED: Combination

TOTAL DEPTH 152 feet

WATER LEVEL: Stands 39 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method \_\_\_\_\_

Drawdown 71 feet

Rate 12 gal. per min.

Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

HOLE SIZE: 12 inches from 0 to 50 feet

6 inches from 50 to 152 feet

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

SCREEN SIZE: 6 inches from 67 to 87 1/2 feet

Slotted pipe 4 inches from 131 to 152 feet

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

CASE SIZE: 6 inches from +1 to 67 feet

6 inches from 87 1/2 to 99 1/2 feet

4 inches from 99 1/2 to 131 feet

WATER ZONES: from 67 to 87 1/2 feet

from 131 to 152 feet

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

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_

Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

GROUTING: Method \_\_\_\_\_

Material \_\_\_\_\_ Depth 50 feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry X Other \_\_\_\_\_

PUMP: Type \_\_\_\_\_

Capacity \_\_\_\_\_ gal. per min

Depth of intake \_\_\_\_\_ feet

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

DRILL CUTTINGS SAVED: 16 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: J. J. Mitchell, III 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	Orange top soil	
	10	Orangish & gray dirt	
	20	Gray & orange dirt	
	30	Gray dirt	
	40	Gray sand	
	50	Gray sand	
	60	Gray sand	
	70	Gray dirt	
	80	Gray gravel	
	90	Gray mud	
	100	Gray mud	
	110	Gray mud	
120	140	Gray dirt and gravel	
	152	Gray sand & gravel	Gravel in bottom

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No: W# 4903  
C# 222

Date rec'd: 8/29/77 Date Processed: 10/14/77 Sample Interval: from 0 to: 152

PROPERTY: Friend Sand & Gravel Co.

Number of samples: 16

COMPANY: J. J. Mitchell

Total Depth: 152'

COUNTY: Chesterfield (Chester-E)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 0	-	-	-
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	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples.

Owner: Friend Sand & Gravel Co.  
Driller: J. J. Mitchell  
County: Chesterfield

W# 4903  
C# 222  
Total depth: 152'  
Quad.: Chester

Depth  
(feet)

GEOLOGIC LOG

- 0 Sand - dark yellowish orange; moderately stained; slightly clayey; fine grained; subangular to subrounded; well sorted; quartz; feldspar; some opaques.
- 0-10 Sand - grayish orange; abundant clay (some clasts) - dark yellowish orange, olive light gray; yellowish gray; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; few grains of feldspar; few shell fragments; glauconite; few opaques.
- 10-20 Sand - olive light gray; abundant clay - olive light gray, dark yellowish orange; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; some shell fragments; feldspar; few black phosphatic fragments; muscovite.
- 20-30 Sand - grayish olive; moderate clay; fine to medium grained, some very coarse grains; subangular to subrounded; moderately well sorted; quartz; 5% glauconite; some muscovite.
- 30-40 Sand - off white; slightly clayey; coarse grained to granular, some medium grains; angular to subrounded; moderately sorted; quartz; feldspar (some very rotten); 2% glauconite; muscovite.
- 40-50 As above except few grains of glauconite.
- 50-60 As above.
- 60-70 Sand - white; slightly clayey; medium to coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 70-80 Sand and granules - off white; coarse to very coarse grained, 40% granules, 5% pebbles; subrounded; moderately sorted; quartz; feldspar.
- 80-90 Sand - light olive gray; abundant clay (mostly clasts); medium grained to gravel; subrounded; poorly sorted; quartz; feldspar; muscovite.
- 90-100 Sand - light olive gray; moderate clay - light olive gray, medium gray; medium grained to gravel; angular to subrounded; poorly sorted; quartz; feldspar; muscovite.
- 100-110 Clay and sand - light greenish gray; abundant clay; moderate sand; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; muscovite.

Depth  
(feet)

- 110-120 Sand - greenish gray; moderate clay; medium grained to granular, some fine grains, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some biotite; muscovite.
- 120-130 As above.
- 130-140 As above except abundant clay.
- 140-152 Sand - white; coarse grained to granular, some medium grains, few pebbles; subrounded; moderately sorted; quartz; feldspar; some biotite; glauconite; muscovite; few grains of garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-10	10	Columbia Group	Pleistocene
10-30	20	Yorktown Formation	Pliocene-Miocene
30-152	122	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
November 20, 1978