

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4889 ✓  
C#: 204

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: George Christofferson 3508 Oaklawn Blvd.  
L. S. Building Contractor Mailing Address: Hopewell, Va. 23860

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

DRILLER: J. J. Mitchell, III Mailing Address: 16815 Happy Hill Rd.  
Colonial Heights, Va. 23834

WELL LOCATION: County Prince George Approx. \_\_\_\_\_ feet miles \_\_\_\_\_ (direction) of \_\_\_\_\_  
Prince George Country Club Estates  
Lot 8, Block A, Section 1 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: June 1977 DATE COMPLETED: June 1977

TYPE OF DRILL RIG USED: Combination TOTAL DEPTH 168'6" feet

WATER LEVEL: Stands 44 feet below surface OR

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

YIELD TEST: Method Pumped

Drawdown 88 feet pump pipe

Rate 12 took no air gal. per min.

Duration 8 hrs., \_\_\_\_\_ min.

HOLE SIZE: 7½ inches from 0 to 14 feet

5½ inches from 14 to 146 feet

4 inches from 146 to 168'6" feet

SCREEN SIZE: 4 inches from 147'4" to 168'6" feet

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

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

CASE SIZE: 4 inches from +1 to 168'6" 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

WELL TO SUPPLY: (check one) Home

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

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

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

Material \_\_\_\_\_ Depth 14 feet

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

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

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

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

DRILL CUTTINGS SAVED: 17 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: 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	Orange top soil	
	10	Orange mud	
	20	Ditto	
	30	Gray mud	
40	130	Gray mud & shell	
140	150	Gray sand & gravel	
	168'6"	Gray sand & shell	

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

INTERVAL SHEET

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Well Repository No: W#: 4889

C#: 204

Date rec'd: 8/29/77 Date Processed: 9/19/77

Sample Interval: from:0to:160

PROPERTY: Prince George Country Club Est.  
(G. Christofferson)

Number of samples: 17

COMPANY: J. J. Mitchell

Total Depth: 168½'

COUNTY: Prince George (Pr. Geo. C. H.)

Oil or Gas: Water: xExploratory:

From-To	From-To	From-To	From-To
- 0	-	-	-
- 10	-	-	-
- 20	-	-	-
- 30	-	-	-
- 40	-	-	-
- 50	-	-	-
- 60	-	-	-
- 70	-	-	-
- 80	-	-	-
- 90	-	-	-
- 100	-	-	-
- 110	-	-	-
- 120	-	-	-
- 130	-	-	-
- 140	-	-	-
- 150	-	-	-
- 160	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples.

OWNER: Prince George Country Club Est.  
DRILLER: Mitchell's  
COUNTY: Prince George

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TOTAL DEPTH: 168'6"  
QUAD.: Prince George

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Sand — dark yellowish orange; moderate clay; silty; very fine to medium grained, some coarse grains; subangular to subrounded; poorly sorted; quartz; some feldspar; some opaques.
- 10-20 Clay — dark yellowish orange; slightly sandy; medium to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; few grains of glauconite.
- 20-30 Clay — dark yellowish orange, light gray, light olive gray; few grains of quartz.
- 30-40 Sand — light olive gray; moderate clay-light olive gray, dark yellowish orange; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; some glauconite; few black phosphatic fragments; biotite; muscovite.
- 40-50 Shell hash — light grayish brown; slightly clayey; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; 60% shell fragments; quartz; 3% glauconite (black, green); 3% black phosphatic material; some spines; few flakes of biotite.
- 50-60 Sand — olive light gray; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 25% shell fragments; 3% glauconite; 2% black phosphatic material; some spines; forams (inc. Buccella).
- 60-70 Sand — olive light gray; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 35% shell fragments; 3% black phosphatic material; some glauconite; spines; ostracodes; foram.
- 70-80 Shell hash and sand-light olive gray; slightly clayey; fine to medium grained; well sorted; 50% shell fragments; quartz; 5% glauconite; some black phosphatic material; spines.
- 80-90 As above plus some coarse grains; moderately sorted; 45% shell fragments.
- 90-100 Shell hash — olive light gray; slightly clayey; abundant sand; fine to coarse grained, some granules; subangular to subrounded; poorly sorted; 65% shell fragments; quartz; 3% glauconite; 2% black phosphatic material; some spines.

Depth  
(feet)

- 100-110 Sand — olive light gray; slightly clayey; fine grained to gravel; subangular to subrounded; poorly sorted; quartz; 20% shell fragments; 3% glauconite (black, green); 2% black phosphatic material; feldspar; spines; garnet.
- 110-120 Sand — olive light gray; slightly clayey; fine to coarse grained, 5% granules; some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 7% shell fragments; 5% glauconite; some black phosphatic material; spines; garnet.
- 120-130 Sand — light brownish gray; slightly clayey; granular, some coarse grains, some pebbles; angular to subrounded; moderately sorted; quartz; feldspar; some shell fragments.
- 130-140 As above except coarse grained to granular; subrounded.
- 140-150 Sand — off white; slightly clayey; medium to coarse grained, few granules, some pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 150-160 Sand — white; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some pyrite; garnet.
- 160-168'6" As above except slightly clayey; 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>
0-30	30	Moorings "Unit"	Pleistocene
30-120	90	Calvert Formation	Miocene-Eocene
120-168'6"	48'6"+	Patuxent Formation	Cretaceous

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