

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 5221  
C#: 213

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

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JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

George Christofferson  
OWNER: L. S. Building Contractor, Inc. Mailing Address: 3508 Oaklawn Boulevard  
Hopewell, VA. 23860

TENANT: J. J. Mitchell, Jr. Mailing Address: 16815 Happy Hill Rd.

DRILLER: Mitchell's Well & Pump Co., Inc. Mailing Address: Colonial Heights, VA. 23834

WELL LOCATION: County Prince George Approx. \_\_\_\_\_ feet \_\_\_\_\_ miles (direction) of  
Newstead Farms Rt. 674 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: Feb. 1978 DATE COMPLETED: Feb. 1978

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 170 feet

WATER LEVEL: Stands 80 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pumped  
Drawdown 130 feet test pipe used, took no air  
Rate 18-20 gal. per min.  
Duration 7 hrs., \_\_\_\_\_ min.

HOLE SIZE: 7 1/2 inches from 0 to 15 feet  
4 inches from 15 to 170 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

CASE SIZE: 4 inches from +1 to 149'4" feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WELL TO SUPPLY: (check one) Home   
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other \_\_\_\_\_

GROUTING: Method \_\_\_\_\_  
Material Cement, sand Depth 15 feet  
and gravel

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

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal per min  
Depth of intake \_\_\_\_\_ feet

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: Back-filled with gravel.

# 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	10	Tan earth	
10	20	Ditto	
20	30	Orangeish	
30	40	Gray mud - shells	
40	50	Gray mud - shells	
50	130	Gray mud	
130	150	Gray	
150	170	Gray sand & gravel	



OWNER: George Christofferson  
(L. S. Bldg. Conts., Inc.)  
DRILLER: Mitchell W & P Co.  
COUNTY: Prince George

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TOTAL DEPTH: 170'  
QUAD: Hopewell

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Sand — grayish orange; moderate clay; medium grained to granular, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar.
- 10-20 Sand — grayish orange; slightly clayey; medium to coarse grained, some fine grains, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 20-30 Sand — dark yellowish orange; moderately stained; moderate clay; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; feldspar; some opaques; some glauconite.
- 30-40 No sample.
- 40-50 Clay — olive light gray; moderate sand; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 7% shell fragments; some black phosphatic material; some glauconite; few grains of feldspar.
- 50-60 As above except some shell fragments; few spines; no feldspar.
- 60-70 Sand — olive light gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; some shell fragments; few spines.
- 70-80 As above except few shell fragments; few grains of glauconite.
- 80-90 As above except 2% black phosphatic material.
- 90-100 Sand — dark greenish gray; moderate clay; very fine to medium grained; subangular to rounded; moderately sorted; 50% glauconite; quartz; muscovite; few shell fragments; foram.
- 100-110 As above
- 110-120 Sand — light gray; abundant clay; fine to coarse grained, few granules; subangular to rounded; moderately sorted; quartz; 25% glauconite; some shell fragments; muscovite; few grains of garnet; few spines; pyrite; forams.
- 120-130 Clay and gravel — yellowish gray; moderate coarse to very coarse grained sand, 20% granules; 40% gravel; angular to subrounded; moderately sorted; quartz; feldspar, few grains of glauconite; pyrite.

OWNER: George Christofferson -2-

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Depth  
(feet)

- 130-140 Sand — off white; moderate clay; medium to very coarse grained, some granules; subrounded; moderately sorted; quartz; feldspar; 3% glauconite; few shell fragments.
- 140-150 As above except 2% glauconite.
- 150-160 Sand and gravel — pale yellow; coarse grained to granular, 35% pebbles; subrounded; poorly sorted; quartz; feldspar; large sandy limestone fragment.
- 160-170 No Sample.

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
30-40	10	No Sample	
40-90	50	Calvert Formation	Miocene-Eocene
90-120	30	Nanjemoy-Mattaponi Formation	Eocene-Cretaceous
120-160	40+	Patuxent Formation	Cretaceous

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