

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

OWNER: David Smith
D. & S. Builders, Inc. Mailing Address: 4925 Empire Parkway
Chester, Va. 23831

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

WELL LOCATION: County Prince George Approx. 1/4 ~~XXXX~~ miles on left of Rt. 674 (direction) of
(Newstead Farms Lot 5, Blk. c Sec. 2)
Go Rt. 156 & turn left on 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: Jan. 1978 DATE COMPLETED: Jan. 1978

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 193 feet

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

YIELD TEST: Method Pumped
Drawdown 130 feet
Rate 10 of pump pipe used gal. per min.
Duration 4 hrs., _____ min.

HOLE SIZE: 7 1/2 inches from 0 to 15 feet
4 inches from 15 to 193 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 191'9" feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home X
Farm _____ Town _____ School _____
Industry _____ Other _____

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

WATER ANALYSIS AVAILABLE: Yes _____ No X

PUMP: Type _____
Capacity _____ gal. per min.
Depth of intake _____ feet

DRILL CUTTINGS SAVED: 19 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: 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	Tan mud	
20	30	Orange mud	
30	60	Gray mud	
60	70	Dark gray mud	
70	80	Dark gray mud - shells	
80	90	Gray mud	
90	100	Dark gray mud	
100	110	Dark gray mud - shells	
110	120	Gray sand	
120	130	Gray sand & gravel	
130	150	" " " "	
150	160	Tan sand & gravel	
160	180	Gray sand & gravel	
180	193	Gray - tan sand & gravel	

(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#: 5137
 C#: 212

Date rec'd: 3/17/78 Date Processed: 5/15/78

Sample Interval: from:0 to:193

PROPERTY: D. & S. Builders, Inc.

Number of samples: 19

COMPANY: Mitchell W & P Co.

Total Depth: 193'

COUNTY: Prince George (Pr. George)

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 -193	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples.

OWNER: D & S Builders, Inc.
DRILLER: Mitchell W & P Co.
COUNTY: Prince George

W#: 5137
C#: 212
TOTAL DEPTH: 193'
QUAD: Prince George

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand — grayish orange; moderately clay; medium to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 10-20 As above except no pebbles.
- 20-30 Sand — dark yellowish orange; heavily stained; slightly clayey; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; feldspar; some glauconite; few opaques.
- 30-40 Sand — olive light gray; moderate clay; fine to medium grained, some coarse grains, few granules; subangular to subrounded; moderately sorted; quartz; some black phosphatic material; some glauconite; few grains of feldspar.
- 40-50 As above except no granules; 2% black phosphatic material.
- 50-60 Sand — olive light gray; abundant clay; medium grained; subangular to subrounded; well sorted; quartz; some black phosphatic material; some shell fragments; few grains of glauconite.
- 60-70 Sand — greenish gray; slightly clayey; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 30% glauconite; few shell fragments; muscovite.
- 70-80 Sand — greenish gray; moderate clay; very fine to medium grained; some coarse grains, some granules; subangular to rounded; moderately sorted; quartz; 25% glauconite (black, green); some shell fragments; muscovite; forams (inc. Robulus); ostracode.
- 80-90 Sand — light greenish gray; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; some glauconite; some shell fragments; muscovite.
- 90-100 Sand — dark greenish gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; 70% glauconite; quartz; muscovite; few shell fragments.
- 100-110 Sand and clay — medium dark gray; moderate clay; abundant sand; very fine to medium grained; subangular to rounded; moderately sorted; 45% glauconite; quartz; 15% shell fragments; forams common; muscovite; ostracodes.

Depth
(feet)

- 110-120 Sand — light gray; moderate clay; medium to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; 5% glauconite; muscovite.
- 120-130 Sand — off white; slightly clayey (clasts); coarse to very coarse grained, some medium grains, 10% granules, some pebbles; subrounded; moderately sorted; quartz; feldspar; 2% glauconite; muscovite.
- 130-140 As above except some glauconite.
- 140-150 Sand — pale yellow; slightly clayey; medium to very coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 150-160 Sand and clay — reddish brown; moderate clay (clasts) — reddish brown, dusky yellow; abundant sand; coarse to very coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 160-170 Sand — pale yellow; slightly clayey (clasts); medium to very coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 170-180 Sand — white; coarse to very coarse grained, 7% granules; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 180-193 Sand — white; very coarse grained to granular, some coarse grains, some angular pebbles; angular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.

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
60-110	50	Nanjemoy-Mattaponi Formation	Eocene-Cretaceous
110-193	83+	Patuxent Formation	Cretaceous