

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 4950
C# 221

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: County of Henrico Mailing Address: 406 Dabb House Road Richmond, VA. 23261

TENANT: Varina Elementary School Well #2 Mailing Address: _____

DRILLER: Sydnor Hydrodynamics Inc. Mailing Address: P.O. Box 27186 2111 Magnolia St., Richmond, VA. 23261

WELL LOCATION: County Henrico Approx. 4000 ^{feet} ~~xxxxx~~ south (direction) of _____
St. Rt 5 and 500 ^{feet} ~~xxxxx~~ West (direction) of Buffin Rd.

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: 8/30/77 DATE COMPLETED: 9/16/77

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 251' feet

WATER LEVEL: Stands 99 7/4' feet below surface OR _____
has NATURAL flow of _____ gallons per minute

YIELD TEST: Method pump

Drawdown 20' feet

Rate 50 gal. per min.

Duration 24 hrs., _____ min.

WATER ZONES: from 182 to 192 feet

from 198 to 208 feet

from 220 to 230 feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School X

Industry _____ Other _____

WATER ANALYSIS AVAILABLE: Yes X No _____

DRILL CUTTINGS SAVED: (25) 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: _____

HOLE SIZE: 12 inches from 0 to 250 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 182 to 192 feet

6 inches from 198 to 208 feet

6 inches from 220 to 230 feet

CASE SIZE: 6 inches from #2 to 182 feet

6 inches from 192 to 198 feet

6 inches from 208 to 220 feet

6 inches from 230 to 235 feet

GROUTING: Method _____

Material _____ Depth 50 feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

(LOG OF WELL) OVER

LOG

FURNISHED BY: Charles Mitchell

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	2	Top soil	
2	23	Hard Red Clay	
23	41	Hard Gravel	
41	49	Blue Clay	
49	58	Blue and Gray Clay	
58	63	Tough Gray Clay	
63	73	Gray Sand Clay	
73	80	Blue and Green Clay	
80	95	Hard Green Marl and Shells	
95	102	Green Sand Clay	
102	108	White Clay	
108	140	Sand Clay and Gravel	
140	153	Real Hard Gravel	
153	160	Hard Gray Sand	
160	185	Hard Gray Sand Clay	
185	202	Coarse Gray Sand - Drilled Hard	
202	205	Gray Sand Clay	
205	210	Coarse Gray Sand	
210	222	Gray White Sand Clay	
222	233	Gray Sand and Clay Streaks	
233	251	Hard Gray and White Sand Clay	

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

INTERVAL SHEET

W# 4950
 C# 221

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Well Repository No:

Date rec'd: 11/18/77 Date Processed: 1/6/78

Sample Interval: from:0 to:250

PROPERTY: County of Henrico (Varina Elem. Sch.)

Number of samples: 25

COMPANY: Sydnor Hydrodynamics

Total Depth: 250'

COUNTY: Henrico (Griggs Pond)

~~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 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-

washed and unwashed samples

Owner: County of Henrico
Driller: Sydnor Hydrodynamics
County: Henrico
(Griggs Pond)

W# 4950
C# 221
Total depth: 250'
Quad: Dutch Gap

Depth
(feet)

GEOLOGIC LOG

0-10 Clay - dark yellowish orange; slightly sandy; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques; muscovite.

10-20 As above except abundant sand; some opaques; some glauconite.

20-30 Sand- dark yellowish orange; moderate clay; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite; few opaques.

30-40 Sand - grayish orange; slightly clayey; coarse grained to granular, some medium grains, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar, some opaques (inc. magnetite).

40-50 Gravel - dark yellowish orange; slightly stained; slightly clayey; subangular to subrounded; well sorted; quartz; feldspar.

50-60 As above except light olive gray; angular to subrounded; some glauconite.

60-70 Gravel - olive light gray; abundant clay (some clasts) - olive light gray, dark yellowish orange; abundant fine to coarse grained sand; angular to subrounded; moderately sorted; quartz; feldspar; glauconite 15% of sand sized fraction; few black phosphatic fragments; few shell fragments.

70-80 Clay - olive gray; abundant sand; fine grained to gravel (30%); angular to rounded; poorly sorted; quartz; glauconite 20% of sand sized fraction; some feldspar; few black phosphatic fragments; muscovite; few shell fragments.

80-90 As above except 30% glauconite.

90-100 Sand - light olive gray; moderate clay; fine to medium grained, some coarse grains, 7% gravel; subangular to subrounded; moderately sorted; quartz; feldspar; 5% glauconite; muscovite.

100-110 As above except 10% glauconite; few shell fragments.

Depth
(feet)

- 110-120 Sand - light olive gray; moderate clay - light olive gray, olive light gray (clasts); fine to coarse grained, some granules, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 7% glauconite; some muscovite.
- 120-130 Sand - light olive gray; moderate clay; medium to coarse grained, 3% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; muscovite; few grains of garnet.
- 130-140 Sand - light olive gray; slightly clayey; coarse grained, some medium grains, few granules, few pebbles; subrounded; moderately well sorted; quartz; feldspar; some glauconite; some garnet; muscovite.
- 140-150 Sand - light olive gray; slightly clayey - light olive gray, light olive gray (clasts); coarse to very coarse grained, some medium grains, few granules; subrounded; moderately sorted; quartz; feldspar; some glauconite; some muscovite.
- 150-160 Sand - light olive gray; slightly clayey; medium to very coarse grained, some granules, some pebbles; subrounded; moderately sorted; quartz; feldspar; 3% glauconite; some garnet; muscovite.
- 160-170 As above except 5% granules; 3% angular pebbles.
- 170-180 Sand - light olive gray; slightly clayey; coarse grained, some medium grains, few granules; subrounded; well sorted; quartz; feldspar; some glauconite; some garnet.
- 180-190 As above except few grains of glauconite.
- 190-200 Sand - light olive gray; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some garnet; few grains of glauconite; muscovite.
- 200-210 Sand - light olive gray; slightly clayey; coarse grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite; few grains of garnet.
- 210-220 As above except medium grained to granular; poorly sorted.
- 220-230 As above except some garnet.
- 230-240 As above.
- 240-250 Gravel - light olive gray; slightly clayey; moderate medium to coarse grained sand, some granules, 70% pebbles; angular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few grains of garnet; muscovite.

Logged by: Michael T. Currie