

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5789
C-828

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Virginia American Water Co. P-1 Mailing Address: 2223 Duke St., Alexandria, CA. 22313

TENANT: _____ Mailing Address: _____

DRILLER: Sydnor Hydrodynamics Mailing Address: P.O.Box 27186, Richmond, VA. 23261

WELL LOCATION: County Alexandria (Fairfax) Approx. 500 ^{feet}/_{miles} North (direction) of
Route 236 (Duke Street) and 800 ^{feet}/_{miles} Southwest (direction) of Rt. 7 (King St)

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

DATE STARTED: 3-29-78 DATE COMPLETED: 6-12-78

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 392 feet

WATER LEVEL: Stands 100 feet below surface OR
has NATURAL flow of _____ gallons per minute

YIELD TEST: Method turbine
Drawdown 170 feet
Rate 697 gal. per min.
Duration 48 hrs., _____ min.

HOLE SIZE: 25 inches from 0 to 50 feet
19 inches from 50 to 385 feet
9 7/8 inches from 385 to 392 feet

SCREEN SIZE: 12 inches from 329 to 374 feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet

CASE SIZE: 20 inches from +1 to 50 feet
12 inches from +2 to 329 feet
12 inches from 374 to 380 feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

GROUTING: Method _____
Material _____ Depth 50 feet

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

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

WATER ANALYSIS AVAILABLE: Yes No _____
DRILL CUTTINGS SAVED: 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: Electric Logs Available

LOG

FURNISHED BY: Driller 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	8	Red Clay	
8	23	Large Gravel	
23	35	Gravel with white and red clay	
35	50	Brown and gray clay	
50	77	Brown and gray clay with gravel	
77	99	Brown and gray clay	
99	110	Brown, yellow and gray clay	
110	130	Gray and yellow clay	
130	150	Mixed colors of hard clay	
150	160	Hard clay and gravel	
160	170	Hard clay	
170	180	Sand, clay and gravel	
180	250	Sand with streaks of clay	
250	270	Sand and clay mixed	
270	290	Green clay	
290	340	Green clay and sand	
340	350	Coarse sand	
350	370	Coarse sand and clay	
370	392	Coarse sand and gravel	

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

INTERVAL SHEET

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Well Repository No.: C-828
 W5789

Date rec'd: 3/15/79 Date Processed: 2/29/80

Sample Interval: from 0 to: 380

PROPERTY: VA. AMERICAN WATER COMPANY Well P-1

Number of samples: 36

COMPANY: SYDNOR HYDRODYNAMICS

Total Depth: 392

COUNTY: FAIRFAX, ALEXANDRIA

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0 - 10	300-310	-	-	-
20 - 30	310-320	-	-	-
30 - 40	320-330	-	-	-
-	330-340	-	-	-
40 - 50	340-350	-	-	-
50 - 60	350-360	-	-	-
60 - 70	360-370	-	-	-
70 - 80	370-380	-	-	-
80 - 90	-	-	-	-
90 - 100	-	-	-	-
100 - 110	-	-	-	-
110 - 120	-	-	-	-
120 - 130	-	-	-	-
-	-	-	-	-
140 - 150	-	-	-	-
150 - 160	-	-	-	-
160 - 170	-	-	-	-
170 - 180	-	-	-	-
180 - 190	-	-	-	-
190 - 200	-	-	-	-
200 - 210	-	-	-	-
210 - 220	-	-	-	-
220 - 230	-	-	-	-
230 - 240	-	-	-	-
240 - 250	-	-	-	-
250 - 260	-	-	-	-
260 - 270	-	-	-	-
270 - 280	-	-	-	-
280 - 290	-	-	-	-
290 - 300	-	-	-	-

UNWASHED ONLY -2 BAGS OF EACH SAMPLE

OWNER: VA. American Water Co. - Well P-1

W# 5789

DRILLER: Sydnor Hydrodynamics

C# 828

TOTAL DEPTH: 392

COUNTY: Fairfax (Alexandria)

QUAD: Alexandria

Elev. 140'

GEOLOGIC LOG

DEPTH
(feet)

- 0 - 8 Sand, silty, grayish orange (10YR 7/4), very fine-to medium-grained, poorly sorted with common ferricrete (hematite) fragments, trace of angular pea-sized pebbles.
- 8 - 10 Clay/gravel, sandy, very poorly sorted, grayish orange (10YR 7/4), gravel pea sized and highly angular - consists of broken pink rock fragments, and clay lumps; sand - very fine - to medium-grained.
- 10 - 20 No sample.
- 20 - 30 Gravel, clayey chips consisting of pink sandy (or weathered rock) and angular rock fragments.
- 30 - 40 Gravel, light brown (5 YR 5/6), angular to sub-angular rock fragments averaging - 1.0 cm. diameter.
- 36 - 40 Clay, silty, moderate brown (5YR 4/4) to pale yellowish brown (10YR 6/2) mottled, with mica; trace of gravel.
- 40 - 50 Same as above with 20% gravel; subangular to angular.
- 50 - 60 Same as above with 10% gravel; subangular to angular.
- 60 - 70 Gravel and gobs of clayey sand, moderate yellowish brown (10YR 5/4), gravel 1 cm diameter, angular to rounded; sand-very fine-to medium-grained, very poorly sorted.
- 70 - 80 Sand, silty with a few pebbles, cobbles, maximum size 3 cm. diameter, grayish-orange (10YR 7/4), sand mostly very fine-to medium-grained.
- 80 - 90 Gravel with sand and mud, 60% rounded gravel, 1.0 cm. diameter mixed with loose very fine-to medium-grained sand and clayey or muddy sand lumps.
- 90 - 100 Gravel/sand/mud, very poorly sorted, rounded, rocky fragments up to 2cm. diameter.
- 100 - 110 Same as above, but gravel - 1.0 cm. diameter.
- 110 - 120 Mud, sandy, dark yellowish brown (10YR 4/2), very poorly sorted, very fine-to very coarse-grained, some angular pea-sized or smaller clasts.
- 120 - 130 Same as above with 10% gravel 1.0 cm. diameter.

DEPTH
(feet)

- 130 - 140 No sample.
- 140 - 150 Sand, muddy with gravel (5%), pale yellowish brown (10YR 6/2), very poorly sorted, very fine-to very coarse - grained with granules.
- 150 - 160 Gravel with muddy sand; moderate yellowish brown (10YR 5/4), gravel, angular to rounded, pea-sized to 2 cm. diameter.
- 160 - 170 Sand - muddy with gravel, up to 1 cm. diameter, moderate brown (5 YR 4/4), sand very poorly sorted, fine-to medium-grained.
- 170 - 180 Sand, muddy and silty clay, mottled light brown (5YR 5/6) and yellowish gray (5Y 7/2), very poorly sorted, fine-to medium-grained.
- 180 - 190 Sand, muddy/gravel, sand fraction-fine to medium-grained, poorly sorted; gravel - 1 cm. diameter, 20% angular to rounded, moderate brown (5YR 4/4).
- 190 - 200 Sand with minor mud and gravel, loose, medium-to very coarse-grained, angular to subangular, moderate yellowish brown (10YR 5/4), granules and a few pebbles, poorly sorted.
- 200 - 210 Sand like above, 25% granules and pebbles 0.5 cm. diameter.
- 210 - 220 As above.
- 220 - 230 Sand, slightly silty moderate yellowish brown (10YR 5/4), very fine to very coarse-grained with numerous granules and a few angular pea-sized pebbles, angular to subangular, very poorly sorted.
- 240 - 250 Same as above with rounded pebbles (1 cm, diameter).
- 250 - 260 Same as above - muddy.
- 260 - 270 Sand, same as above, muddy to loose, pale yellowish brown (10YR 6/2), mostly coarse-to very coarse-grained, poorly sorted; numerous granules, angular to subangular.
- 270 - 280 Sand, muddy, gravelly, sand same as above; gravel 1.0 cm. angular to sub-rounded, 15%.
- 280 - 290 Sand, muddy, light olive gray (5Y 6/1), sand and medium-to coarse-grained poorly sorted, angular to subangular, 25% of mud with granules and a few pea sized pebbles.
- 290 - 300 Silty, clay and muddy sand, moderate yellowish brown (10YR 5/4), sand fraction - medium-to coarse-grained, poorly sorted, angular to sub-angular, 25% sand with a few pea-sized pebbles.
- 300 - 310 Sand, muddy with gravel, dark yellowish brown (10YR 4/2), sand: medium-to coarse-grained, poorly sorted, angular to sub-angular, 25% mud, pebbles up to 1.5 cm. diameter.

Depth
(feet)

- 310 - 320 Same as above but also with silty clay chips, 10% rounded and angular gravel.
- 320-330 Same as above
- 330 - 340 Same as above.
- 340-350 Sand, light olive gray (5Y 6/1), loose, very coarse-grained, moderately sorted, angular to sub-rounded, quartz, feldspar, 5% rock fragments, with garnet.
- 350-360 Sand, muddy, dark yellowish brown (10YR 4/2), sand fraction same as above, 5% pebbles.
- 360-370 Sand, gravelly, as above, loose, mud-free, 25% granules and pebbles 1 cm diameter.
- 370-380 Sand, muddy, gravelly, dark yellowish brown (10YR 4/2), sand as above, 25% granules and pebbles, 1 cm diameter.