

W-4356
C-414

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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

Southampton Co. Water & Sewage Auth.

OWNER: Roanoke Construction Co. (Contractors) Mailing Address: Branchville, Virginia

TENANT: _____ Mailing Address: _____

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 2111 Magnolia Road
Richmond, Virginia 23223

WELL LOCATION: County Southampton (Branchville) Approx. 1000 ^{feet}~~yards~~ east (direction) of
Branchville and 400 ^{feet}~~yards~~ north (direction) of 186 (195).

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

DATE STARTED: 1/16/75 DATE COMPLETED: 2/21/75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 306 feet

WATER LEVEL: Stands 42 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method submersible
Drawdown 87' 4" feet
Rate _____ gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 16 inches from 0 to 75 feet
12 inches from 75 to 285 feet
10 inches from 285 to 306 feet

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

SCREEN SIZE: 6 inches from 224 to 234 feet
6 inches from 240 to 250 feet
6 inches from 262 to 272 feet

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

CASE SIZE: 12 inches from +1 to 75 feet
6 inches from +2 to 224 feet
6 inches from 234 to 240 feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes X No _____

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

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: _____

LOG

FURNISHED BY: _____

 DATE: September 9, 1980

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	Light gray clay	
10	25	Brownish clay	
25	37	Sand, shells, some gravel	
37	55	Tough blue clay	
55	73	Sandy clay	
73	77	Tough blue clay	
77	216	Mixed sand medium to coarse white gray and brown with traces of shell and some clay streaks	
216	260	Sand and gravel	
260	270	Sand and clay	
270	291	Sand and gravel	
291	306	Mixed colors of clay	

(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- 4356
 C- 414

Date rec'd: 4/28/75 Date Processed: 2/20/76

Sample Interval: from 0 to:306

PROPERTY: Southampton County Water Sewage
 authority #1

Number of samples: 30

COMPANY: Sydnor Hydrodynamics Inc.

Total Depth: 306

COUNTY: Southampton (Branchville)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	-	-	-	-
10-20	-	-	-	-
20-30	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
75-85	-	-	-	-
85-95	-	-	-	-
95-105	-	-	-	-
105-115	-	-	-	-
115-125	-	-	-	-
125-135	-	-	-	-
135-145	-	-	-	-
145-155	-	-	-	-
155-165	-	-	-	-
165-175	-	-	-	-
175-185	-	-	-	-
185-195	-	-	-	-
195-205	-	-	-	-
205-215	-	-	-	-
215-225	-	-	-	-
225-235	-	-	-	-
235-245	-	-	-	-
245-255	-	-	-	-
255-265	-	-	-	-
265-275	-	-	-	-
275-285	-	-	-	-
285-295	-	-	-	-
295-306	-	-	-	-

Both washed and unwashed samples.

Owner: Southampton City Water Authority #1
Driller: Sydnor
County: Southampton (Branchville)

W# 4356
C# 414
Total depth: 306'
Quad: Boykins
Elev: 39'

Depth
(feet)

WELL LOG

- 0-10 Sand - yellowish gray (5y 7/2); abundant clay; very fine to coarse, subangular and angular, moderate sorting; clay is in fine pellets.
- 10-20 Sand - grayish orange (10yr 7/4); moderate clay in clasts; very fine to coarse, subangular and angular, moderate sorting; phosphate fragments, iron oxide.
- 20-50 Gravel, Shell - light and dark gray - sparse clay in clasts; fine to granule, angular and subangular, poor sorting; shell fragments 50%; ostracods; garnet; phosphatic nodules; 30-40 moderate clay; 75% shell fragments; 40-50 moderate clay; 60% shell fragments.
- 50-60 Sand - pale yellow brown (10yr 6/2); moderate clay in clasts of different colors; fine to granule, angular to subangular, poor sorting; 20% shell fragments; garnet; phosphate fragment (?).
- 60-85 Sand - pale yellowish brown - (10yr 6/2); clay of moderate brown color and abundant; fine to granule, angular and subangular, poor sorting, 3% shell fragments; 1% fuschite and a fuschite clast.
- 85-95 Sand - yellowish gray (5y 7/2); sparse clay; very fine to very coarse, angular and subangular, moderate sorting; very rare fuschite.
- 95-115 Sand - light olive gray (5y 7/1); medium to very coarse, angular and subangular, moderate sorting; rare feldspar; mica; rare phosphatic fragments. 105-115 1% phosphatic fragments.
- 115-125 Sand - light olive gray (5y 7/1); coarse to very coarse, angular to subangular, well sorted; rare feldspar; mica; very rare phosphatic fragments.
- 125-135 Sand - light olive gray (5y 7/1); very sparse clay in clasts; medium to very coarse, angular and subangular, moderate sorting; rare feldspar.
- 135-155 Sand - light olive gray (5y 7/1); fine to granule, angular and subangular, poor sorting; rare feldspar; garnet; very sparse mica.
- 155-165 Sand - light olive gray (5y 7/1); fine to coarse, some very coarse; angular and subangular, moderate sorting; rare feldspar; very rare mica.

Depth
(feet)

- 165-175 Gravel - mixed colors; sparse clay; very fine to granule, subangular and angular, poor sorting; foram-Quinqueloculina; very rare garnet; rare feldspar.
- 175-195 Sand, Gravelly - mixed colors; sparse clay; very fine to granule, subangular and angular, poor sorting; 35% gravel; rare feldspar; very rare feldspar.
- 195-215 Sand - light olive gray (5y 7/1); sparse clay; fine to granule, angular and subangular, moderate sorting; rare garnet, feldspar.
- 215-235 Sand - light olive gray (5y 7/1); sparse clay; very fine to granule, subangular and angular, poor sorting; garnet; feldspar; 225-235 No clay.
- 235-255 Sand - light olive gray (5y 7/1); medium to very coarse, angular to subangular, moderate sorting; rare feldspar.
- 255-275 Sand - light olive gray (5y 7/1); fine to very coarse, angular and subangular, poor sorting; rare feldspar; some iron staining.
- 275-285 Sand - light olive gray (5y 7/1); very sparse clay; fine to granule, angular and subangular, poor sorting; 2 shell fragments; rare feldspar; garnet; copper staining (green).
- 285-295 Gravel - mixed colors; fine to granule; angular and subangular, poor sorting; feldspar.
- 295-305 Sand - light olive gray (5y 7/1); very sparse clay; fine to small granules, angular and subangular, poor sorting; feldspar; garnet.

Logged by: J. K. Polzin
August 1, 1980