

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

Roanoke Construction Co. Contractors

OWNER: Southampton Co. Water Sewage Auth. #2 Mailing Address: Branchville, VA

TENANT: _____ Mailing Address: _____

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 2111 Magnolia St., Richmond VA 23223

WELL LOCATION: County Southampton Approx. 1100 ^{feet} ~~xxxx~~ East (direction) of
Branchville and 400 ^{feet} ~~xxxx~~ North (direction) of Rt. 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: 2/25/75 DATE COMPLETED: 3/31/75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 306 feet

WATER LEVEL: Stands 44'3" feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible

Drawdown 117'5" feet

Rate 100 gal. per min.

Duration 48 hrs., _____ min.

HOLE SIZE: 16 inches from 0 to 75 feet

12 inches from 75 to 300 feet

10 inches from 300 to 306 feet

SCREEN SIZE: 6 inches from 236 to 246 feet

6 inches from 266 to 286 feet

_____ inches from _____ to _____ feet

CASE SIZE: 12 inches from +1 to 75 feet

6 inches from +2 to 236 feet

6 inches from 246 to 266 feet

6 inches from 286 to 290 feet

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

GROUTING: Method _____

Material _____ Depth 75 feet

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other County

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: Yes XX 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: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	12	Tough light gray clay	
12	35	Sand, shells	
35	75	Tough dark blue clay	
75	276	Sand, medium coarse with some clay streaks	
276	286	Sand and gravel	
286	306	Mixed colors of clay	

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

INTERVAL SHEET

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Well Repository No.: C-415
 W- 4355

Date rec'd: 4/28/75 Date Processed: 2/6/76

Sample Interval: from 0 to: 306

PROPERTY: Southampton County Water
 Sewage Authority #2

Number of samples: 31

COMPANY: Sydnor Hydrodynamics

Total Depth: 306'

COUNTY: Southampton (Branchville)

Oil or Gas: Water:XX Exploratory:

From-To	From-To	From-To	From-To	From-To
0-12	286-306	-	-	-
12-22	-	-	-	-
22-32	-	-	-	-
32-35	-	-	-	-
35-45	-	-	-	-
45-55	-	-	-	-
55-65	-	-	-	-
65-75	-	-	-	-
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	-	-	-	-
285-286	-	-	-	-

Both washed and unwashed samples.

Owner: Southampton County Water
Authority #2
Driller: Sydnor
County: Southampton (Branchville)

W# 4355
C# 415
Total Depth: 306'
Quad: Boykins
Elev: 42'

Depth
(feet) WELL LOG

- 0-12 Clay - yellow gray (5Y 7/2); very sparse sand; very fine, sub-angular, undetermined sorting; some iron staining.
- 12-32 Gravel, Shell - light and dark gray; sparse clay in clasts; very fine to medium, subangular, moderate sorting; 50% shell fragments; bryozoa - Discoporella; echinoderm spines; 22-32 - some bryozoa.
- 32-35 Gravel, Shell - light and dark gray; sparse clay; fine to coarse, subangular, poor sorting; 50% shell fragments; 2% bryozoa; garnet; chela of crab; 3% phosphatic fragments.
- 35-55 Gravel, Shell - light and dark gray; abundant clay; moderate amount sand; fine to very coarse, some pebbles, subangular, poor sorting; 50% shell fragments; rare phosphatic nodules.
- 55-65 Sand - yellowish gray (5Y 6/2); abundant clay; fine to very coarse, angular and subangular, poor sorting; 1% shell fragments; phosphate nodules.
- 65-75 Clay, Gravelly - yellow gray (5Y 6/2); abundant clay; sparse? gravel, very fine to fine, subangular, undetermined sorting; some large (30mm) pebbles in clay; coral stems; very fine mica.
- 75-85 Sand - yellowish gray (5Y 7/2); moderate clay; very fine to very coarse, angular and subangular, poor sorting; fuschite.
- 85-95 Sand - yellowish gray (5Y 7/2); sparse clay; very fine to very coarse, angular and subangular, well sorted; very rare fuschite; feldspar.
- 95-115 Sand, Clayey - light olive gray (5Y 6/1); abundant clay in pellets, large gray pellets at 105-115; very fine to very coarse, mostly coarse, angular and subangular, poor sorting; abundant muscovite, grain size; fuschite also; occasional shell fragment.
- 115-175 Sand - light olive gray (5Y 6/1); clay varies from moderate to very sparse; very fine to very coarse with some granules, angular and subangular, poorly sorted; rare feldspar, garnet; 145-155 - rose quartz.

Owner: Southampton County Water
Authority #2

W# 4355
C# 415

Depth
(feet)

175-195 Sand - light olive gray (5Y 6/1); rare clay; very fine to very coarse with some granules; mostly medium grained; angular and subangular, moderate sorting; rare garnet; 185-195 - no clay.

195-215 Gravel, Sandy - mixed colors; very fine to small granule and 5mm granules, few angular, subangular and rounded, poor sorting.

215-225 Sand - mixed colors; very fine to very coarse, subangular, moderate sorting; garnets; 1-2 shell fragments.

225-235 Sand, Gravelly - mixed colors; sparse clay; very fine to granule, mostly granules, angular and subangular, poor sorting.

235-245 Sand - moderate yellowish gray (5Y 7/1); coarse grained, angular and subangular, well sorted; very rare feldspar; phosphate fragment.

245-255 Sand - moderate yellowish gray (5Y 7/1); sparse clay; coarse, angular and subangular, well sorted; very rare garnets.

255-265 Sand - moderate yellowish gray (5Y 7/1); very fine to granule, some angular, subangular, poorly sorted; iron oxide staining.

265-275 Gravel - light and dark gray; fine to granule, subangular, some angular, poor sorting; garnet; rare feldspar.

275-285 Sand - moderate yellowish gray (5Y 7/1); fine to granule, subangular, some angular, poor sorting; garnet; pyrite; feldspar; phosphatic fragments.

285-306 Sand - light olive gray (5Y 6/1); very fine to granules, subangular, some angular, poor sorting; 285-306 - moderate clay; garnets; iron oxide fragments; phosphate fragment.

Logged by: J. K. Polzin
August 4, 1980