

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5814
C-159

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

Millers Square

OWNER: Sydnor Hydrodynamics, Inc. Well #1 Mailing Address: P.O. Box 27181, Richmond VA 23261

TENANT: _____ Mailing Address: _____

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

WELL LOCATION: County Essex Co. (Millers Tavern) Approx. 2000 ^{feet}~~miles~~ south (direction) of
Route 360 and 500 ^{feet}~~miles~~ north (direction) of Rt. 620 (Essex Co.)

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

DATE STARTED: 11-15-79 DATE COMPLETED: 12-5-79

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 300 feet

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

YIELD TEST: Method _____
Drawdown _____ feet
Rate 13 gal. per min.
Duration 6 hrs., _____ min.

WATER ZONES: from 244 to 249 feet
from 270 to 275 feet
from _____ to _____ feet

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

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

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: _____

HOLE SIZE: 8 inches from 0 to 300 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 4 inches from 244 to 249 feet

4 inches from 270 to 275 feet

_____ inches from _____ to _____ feet

CASE SIZE: 4 inches from +2 to 244 feet

4 inches from 249 to 270 feet

4 inches from 275 to 283 feet

GROUTING: Method _____

Material cement Depth 50 feet

PUMP: Type _____

Capacity _____ gal. per min.

Depth of intake _____ feet

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	2	Light brown sandy clay	
2	17	White sand clay	
17	22	Brown sand, pink clay	
22	34	Fine white sand	
34	40	Fine gray sand	
40	53	Soft gray clay	
53	78	Shells	
78	92	Fine gray sand	
92	243	Soft gray clay	
243	246	Shells	
246	250	Gray clay	
250	261	Shells	
261	271	Gray clay	
271	280	Shells	
280	282	Gray clay	
282	290	Shells	
290	300	Gray 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.: C-159
 W-5814

Date rec'd: Date Processed: 5-5-80

Sample Interval: from 0 to: 300

PROPERTY: Millers Square #1

Number of samples: 30

COMPANY: Sydnor Hydrodynamics, Inc.

Total Depth: 300

COUNTY: Essex (Millers Tavern)

Oil or Gas: Water: XX 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	-	-	-	-
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	-	-	-	-
250-260	-	-	-	-
260-270	-	-	-	-
270-280	-	-	-	-
280-290	-	-	-	-
290-300	-	-	-	-

Split-wash

Owner: Millers Square #1
Company: Sydnor
County: Essex

W# 5814
C# 159
Total Depth: 300
Quad: Millers Tavern
Elev: 173

Depth
(feet)

WELL LOG

0-10 Sand - pale orange (10YR 7/2); sparse clay; medium to very coarse, subangular, moderate sorting; quartz; 1% fine black phosphatic fragments.

10-20 Sand - as above.

20-30 Sand - light olive gray (5Y 6/1) and dark yellowish orange (10YR 6/6); abundant sand clasts with ^{sparse} ~~clays of above~~; 5% phosphatic fragments.

30-40 Clay, Sandy ~~Clay~~ is light olive gray (5Y 5/1); Sand is (5Y 6/2); abundant clay in clasts; abundant sand; medium to very coarse; large pebble; moderate sorting; 1% fine phosphatic fragments; garnet chips.

40-50 Clay, Sandy - as above, except: poor sorting; some shell fragments.

50-60 Shell Hash - salt and pepper; 50% reworked shell fragments; moderate clay; sand as above.

60-70 Shell Hash - as above, except: 80% shell fragments.

70-80 Shell Hash - as above, except: 50% shell fragments; 7% phosphatic and dark green glauconite.

80-90 Sand - medium olive gray (5Y 5/1); sparse clay; medium to very coarse, subrounded, poorly sorted; quartz; 5% glauconite; 10% shell fragments - Paranomia.

90-100 Sand, Clayey - as above, except: moderate clay and clasts; shell - mollusk - Crepidula.

100-110 Clay - as above, except: moderate sand; 1% shell fragments.

110-120 Clay - as above.

120-130 Clay - as above.

130-140 Clay - as above.

140-150 Clay - as above.

Owner: Millers Square #1

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Depth
(feet)

- 150-160 Sand - olive gray (5Y 4/1); moderate clay - grains; sand - as above; 1% black phosphatic fragments; no glauconite; garnet chips.
- 160-170 Sand - as above, except: abundant clay.
- 170-180 Sand - as above, except: no shell fragments.
- 180-190 Clay - moderate olive gray (5Y 5/1); as above, except: sparse sand.
- 190-200 Clay - as above.
- 200-210 Clay - as above.
- 210-220 Clay - as above, except: light olive gray (5Y 5/2); moderate sand.
- 220-230 Clay - as above.
- 230-240 Clay - as above, except: 10% phosphatic fragments; some shell fragments; chert; garnet.
- 240-250 Shell Hash - salt and pepper; 50% fine shell fragments; 3% forams - Nonion, Robulus L, Textularia, Gyroidina; some ostracods; echinoderm spines; some glauconite.
- 250-260 Shell Hash - salt and pepper; sand clasts cemented with calcite; clay clasts; sand - moderate amount, as above; 30% shell fragments; phosphatic fragments as above; forams and ostracods.
- 260-270 Sand - salt and pepper; moderate pellet clay; sand - as above; 30% fine dark green glauconite; 1%+ forams - Nonion, Robulus.
- 270-280 Sand - as above, except: clay and sand clasts with glauconite; pellet clay; limestone fragments; 30% large green lobed glauconite; forams; pyrite; garnet.
- 280-290 Sand - as above, except: medium olive gray (5Y 5/1); abundant clay; more clasts.
- 290-300 Sand - medium olive gray (5Y 5/1); moderate clay in pellets; fine to very coarse, subangular, poorly sorted; quartz; 1% glauconite; some shell fragments; forams; ostracods.

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