

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4227  
C#: 171

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: Sydnor Hydrodynamics, Inc. Mailing Address: P.O. Box 27181  
Richmond, VA

TENANT: Colonial Forrest Well #2 Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: As above

WELL LOCATION: County Hanover Approx. .6 <sup>feet</sup>/<sub>miles</sub> North (direction) of \_\_\_\_\_  
St. Rd. 643 and 1024 <sup>feet</sup>/<sub>miles</sub> West (direction) of St. Rd. 651

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

DATE STARTED: 4/26/74 DATE COMPLETED: 5/17/74

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 330 feet

WATER LEVEL: Stands 157'4" feet below surface OR (well completed at 322')  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Submersible pump  
Drawdown 16 feet  
Rate 80 gal. per min.  
Duration 24 hrs., \_\_\_\_\_ min.

WATER ZONES: from 256 to 276 feet  
from 296 to 316 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes XX No \_\_\_\_\_

DRILL CUTTINGS SAVED: <sup>28</sup> 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: Electric log by driller.

HOLE SIZE: 12 1/4 inches from 0 to 330 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 6 inches from 256 to 276 feet  
6 inches from 296 to 316 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from +2 to 256 feet  
6 inches from 276 to 296 feet  
6 inches from 316 to 322 feet

GROUTING: Method Pressure  
Material Cement-water Depth 100 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	1	Top soil	
1	15	Yellow and red clay	
15	17	White, red, gray clay, gravel	
17	30	Brown sand, white clay, gravel	
30	45	Brown sand, gravel	
45	50	Blue clay, red sand and white clay	
50	80	Blue clay, shell	
80	113	Blue clay, shells and black sand	
113	114	Shell rock	
114	140	Gray clay	
140	150	Gray clay, shells, black sand and gravel	
150	160	Gray clay	
160	170	Gray clay, streak of rock	
170	210	Gray clay, shells	
210	220	Gray clay, shells and black sand	
220	240	Green sand, clay and shells	
240	250	Green sand, clay, shells and gravel	
250	270	Sand, gravel	
270	290	White clay and gravel	
290	315	Sand, gravel with some clay	
315	330	Sand, clay and gravel	

(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#: 4227

Date rec'd: 6/15/74 Date Processed: 7/18/75

C#: 171  
 Sample Interval: from: to:  
 0 330'

PROPERTY: Sydnor Hydrodynamics  
 (Colonial Forest #2)

Number of samples: 27

COMPANY: Sydnor Hydrodynamics

Total Depth: 330'

COUNTY: Hanover  
 (Pearson's Cornor)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 15	60 - 70	-	-
15 - 30	70 - 80	-	-
30 - 40	80 - 90	-	-
40 - 50	90 - 300	-	-
50 - 60	300 - 10	-	-
60 - 70	10 - 20	-	-
0 - 80	20 - 30	-	-
-	-	-	-
90 - 100	-	-	-
100 - 10	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
-	-	-	-
90 - 200	-	-	-
200 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-

Both washed and unwashed samples.

OWNER: Sydnor Hydrodynamics  
(Colonial Forest #2)  
DRILLER: Sydnor Hydrodynamics  
COUNTY: Hanover  
(Pearson's Corner)

W#: 4227  
C#: 171  
TOTAL DEPTH: 330'  
QUAD: Studley

GEOLOGIC LOG

Depth  
(feet)

- 0 - 15 Sand - dark yellowish orange; moderate clay; fine to medium grains, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques; few flakes of biotite.
- 15 - 30 Sand and granules - yellowish gray; moderate clay; medium to coarse grained, some fine grains, 50% granules, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; muscovite.
- 30 - 40 Sand - light grayish yellow; medium grained to granular, 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; biotite.
- 40 - 50 Sand and granules - dark yellowish orange; slightly clayey; medium to coarse grained, some fine grains, 40% granules; subangular to subrounded; poorly sorted; quartz; feldspar; few flakes of biotite.
- 50 - 60 Sand - white; medium to coarse grained, 25% granules; subangular to subrounded; moderately sorted; quartz; feldspar; 3% opaques; few flakes of muscovite.
- 60 - 70 Sand - light olive gray; moderate clay; fine to medium grained, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar (granules); some muscovite; few flakes of biotite.
- 70 - 80 Sand - light olive gray; slightly clayey; fine to medium grained, 3% granules; subangular to subrounded; moderately well sorted; quartz; 10% shell fragments; few flakes of muscovite; few black phosphatic fragments; biotite.
- 80 - 90 No sample.
- 90 - 100 As above except fine grained, some medium grains; moderately well sorted.
- 100 - 110 Sand - light olive gray; moderate clay; fine grained, some medium grains, 5% granules, 3% pebbles; subangular to subrounded; moderately sorted; quartz; 7% shell fragments; feldspar; some glauconite; few flakes of muscovite.
- 110 - 140 No sample.

Depth  
(feet)

- 140 - 150 Sand -- olive light gray; moderate clay; fine to medium grained, 5% granules, 5% pebbles; subangular to rounded; moderately sorted; quartz; 35% glauconite; 3% shell fragments; 2% black phosphatic material; some feldspar; few flakes of muscovite; bone fragment.
- 150 - 160 Sand -- olive light gray; moderate clay; fine to medium grained, 3% pebbles; subangular to rounded; moderately well sorted; quartz; 15% glauconite; some muscovite; few shell fragments; few black phosphatic fragments; pyrite.
- 160 - 170 Sand -- olive light gray; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; 2% glauconite; 2% black phosphatic material; some muscovite; few shell fragments.
- 170 - 180 Sand -- olive light gray; moderate clay; fine to coarse grained, few granules, some pebbles; subangular to subrounded; moderately sorted; quartz; 7% glauconite; 5% shell fragments; 3% black phosphatic material; few flakes of muscovite; forams rare (inc. Dentalina ?).
- 180 - 190 No sample.
- 190 - 200 Sand -- olive light gray; moderate clay; fine grained; subangular to rounded; well sorted; quartz; 20% glauconite; 2% shell fragments; some muscovite; forams (inc. Dentalina, Nodosaria, and Robulus).
- 200 - 210 Sand -- olive light gray; moderate clay; fine grained, some medium grains, some granules; subangular to subrounded; moderately well sorted; quartz; 15% shell fragments; 10% glauconite; some muscovite; shark's teeth; forams rare (inc. Robulus).
- 210 - 220 As above except no shark's teeth; no Robulus.
- 220 - 230 Sand -- olive light gray; moderate clay; fine to medium grained, some coarse grains, few pebbles; subangular to rounded; moderately sorted; quartz; 40% glauconite; 15% shell fragments; few flakes of muscovite.
- 230 - 240 Sand -- yellowish gray; moderate clay; fine to coarse grained, 7% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; some muscovite; few flakes of biotite; few shell fragments.
- 240 - 250 As above plus 30% granules; poorly sorted.
- 250 - 260 As above except slightly clayey; 10% granules; 20% pebbles.
- 260 - 270 Sand and gravel -- off white; coarse grained to granular, 40% pebbles, subrounded; poorly sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite.

Depth  
(feet)

- 270 - 280 As above except 60% pebbles; few grains of glauconite.
- 280 - 290 Gravel -- dusky yellow; slightly clayey; some granules; subrounded; well sorted; quartz; feldspar; some muscovite.
- 290 - 300 Sand and gravel -- off white; coarse grained to granular, 60% pebbles; subrounded; poorly sorted; quartz; feldspar; few grains of glauconite.
- 300 - 310 Gravel -- yellowish gray; slightly sandy; coarse grained to granular; subrounded; moderately sorted; quartz; feldspar.
- 310 - 320 As above.
- 320 - 330 Sand and gravel -- off white; coarse grained to granular, 60% pebbles; angular to subrounded; poorly sorted; quartz; feldspar, few grains of glauconite; muscovite.

Logged by: Michael T. Currie