

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 3411  
C# 198

MAILING ADDRESS:  
B 3667  
Charlottesville, VA 22903

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

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

OWNER: Allied Chemical Fiber Division Mailing Address: P.O. Box 31 Petersburg, VA 23803

TENANT: Allied Chemical - Bermuda Hundred #5 Mailing Address: Chesterfield County, Virginia P.O. Box 27186

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: Richmond, Va. 23261

WELL LOCATION: County Chesterfield Hundred (Bermuda) Approx. 1800 <sup>feet</sup> ~~miles~~ East (direction) of Sydnor Well #1 and 1500 <sup>feet</sup> ~~miles~~ South (direction) of State rd. 827

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

DATE STARTED: 1-6-72 DATE COMPLETED: 1-31-72

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 294 feet

WATER LEVEL: Stands 31 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Turbine

Drawdown 102 feet

Rate 420 gal. per min.

Duration 10 hrs., \_\_\_\_\_ min.

WATER ZONES: from 150 to 162 feet

172 186

from 186 to 204 feet

from 224 to 244 feet

WATER: Color clear Taste \_\_\_\_\_

Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry X Other \_\_\_\_\_

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

DRILL CUTTINGS SAVED: Yes X 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 Ran by driller, Depth of completed well 250 feet

HOLE SIZE: 16 inches from 0 to 260 feet

9 7/8 inches from 260 to 294 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 8 inches from 150 to 162 feet

6 172 182

6 inches from 186 to 204 feet

6 inches from 224 to 244 feet

CASE SIZE: 8 inches from +2 to 150 feet

8 162 172

6 inches from 182 to 186 feet

6 204 224

6 inches from 244 to 250 feet

GROUTING: Method Pressure

Material Cement & Water Depth 50 feet

PUMP: Type \_\_\_\_\_

Capacity \_\_\_\_\_ gal per min

Depth of intake \_\_\_\_\_ feet

# LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: Jan. 31, 1972

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	10	Brown and red sandy clay	
10	20	Brown sand and gravel mix	
20	40	Big Gravel - All colors	
40	55	White clay, gray, yellow and gravel mix	
55	70	Gray and white sandy clay	
70	85	White, gray and yellow clay and gravel	
85	130	White and gray clay, gravel mix	
130	145	Gravel, dark gray clay and white mix	
145	190	White and gray clay, gravel	
190	260	Light gray sandy caly with streaks of gravel	
260	280	Dark gray and brown clay mixed	
280	285	Gray clay	
285	294	Rock	

(Use additional forms if necessary)

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

INTERVAL SHEET

W# 3411

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Well Repository No:

Date rec'd: 2/22/72 Date Processed: 3/29/72

Sample Interval: from 0 to: 290

PROPERTY: Allied Chemical Fiber Division  
 Allied Chemical-Bermuda Hundred #5

Number of samples: 29

COMPANY: Sydnor Hydrodynamics, Inc.

Total Depth: 294'

COUNTY: Chesterfield, (Richmond)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 260	-	-
10 - 20	260 - 270	-	-
20 - 30	270 - 280	-	-
30 - 40	280 - 290	-	-
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	-	-	-

All intervals have both washed and unwashed samples.

Owner: Allied Chemical Fiber Div.  
(Bermuda Hundred)<sup>#5</sup>  
Driller: Sydnor Hydrodynamics  
County: Chesterfield  
(Richmond)

W# 3411  
C# 198  
Total Depth: 290'  
Quad.: Hopewell

Depth  
(feet)

GEOLOGIC LOG

- 0-10 Sand - grayish orange; slightly clayey; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; 7% subangular granite fragments; some biotite; muscovite; some opaques.
- 10-10 Granules - dark yellowish orange; slightly stained; moderate coarse to very coarse grained sand, some pebbles; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 20-30 Granules and gravel - grayish orange; slightly stained; some very coarse grained sand; subrounded; moderately sorted; quartz; feldspar.
- 30-40 As above plus few flakes of muscovite.
- 40-50 Sand - yellowish gray; moderate clay (some clasts) - yellowish gray, dark yellowish orange; very coarse grained to granular, 5% pebbles; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 50-60 As above except coarse grained to granular, 15% pebbles; poorly sorted.
- 60-70 As above except 10% pebbles.
- 70-80 As above except coarse grained to gravel (20%), some medium grains.
- 80-90 As above.
- 90-100 As above plus few grains of garnet.
- 100-110 Sand - light yellowish gray; moderate clay; coarse grained to granular, some medium grains, 5% angular to subrounded pebbles; subrounded; poorly sorted; quartz; feldspar; some muscovite.
- 110-120 Granules and gravel - yellowish gray; moderate clay; moderate coarse to very coarse grained sand; subrounded; moderately sorted; quartz; feldspar; some muscovite.
- 120-130 As above except angular to subrounded gravel.
- 130-140 Sand - yellowish gray; moderate clay - yellowish gray, medium gray (clasts), coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 140-150 As above.

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Depth  
(feet)

- 150-160 As above except light gray.
- 160-170 Sand - light gray; moderate clay; coarse grained to granular, 15% pebbles; subrounded; poorly sorted; quartz; feldspar; some muscovite.
- 170-180 As above except 5% angular to subrounded pebbles.
- 180-190 Sand - light gray; moderate clay; coarse grained to gravel (25%); subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite.
- 190-200 As above except 20% pebbles.
- 200-210 Granules and gravel - light gray; moderate clay; some coarse to very coarse grained sand; subangular (gravel) to subrounded; moderately sorted; quartz; feldspar; muscovite.
- 210-220 As above.
- 220-230 Sand - light gray; abundant clay; coarse grained to gravel (20%); subrounded; poorly sorted; quartz; feldspar; some muscovite.
- 230-240 As above except coarse grained to granular, some pebbles.
- 240-250 As above except coarse grained to gravel (30%).
- 250-260 Clay and sand - light gray; abundant clay; moderate sand; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar. (washed sample only).
- 260-270 Clay - dark gray, light gray; moderate sand; coarse grained to granular, some medium grains; subrounded; moderately sorted; quartz; feldspar; some muscovite. (washed sample only).
- 270-280 As above except abundant sand (washed sample only).
- 280-290 Sand - light olive gray; abundant clay; coarse grained to gravel (25%); angular (gravel) to subrounded; poorly sorted; quartz; feldspar; some muscovite.

Logged by: Michael T. Currie 1978