

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

B 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Allied Chemical Fibers Division Mailing Address: P.O. Box 31
Petersburg, Virginia 23803

TENANT: Allied Chemical - Bermuda Hundred # 4 Mailing Address: Chesterfield County, Virginia
P.O. Box 1476

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: Richmond, Virginia 23212

WELL LOCATION: County Chesterfield County Approx. 2,000 feet south (direction) of
State Road 827 and 4,000 feet west (direction) of James River

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

DATE STARTED: 6/16/70 DATE COMPLETED: 7/9/70

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 278 feet

WATER LEVEL: Stands 25 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Turbine pump
Drawdown 81' 7" feet
Rate 400 gal. per min.
Duration 10 hrs., _____ min.

HOLE SIZE: 1 1/4 inches from 0 to 250 feet
9 7/8 inches from 250 to 278 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 130 to 146 feet
from 160 to 200 feet
from 225 to 235 feet

SCREEN SIZE: 8 inches from 130 to 146 feet
6 inches from 160 to 200 feet
6 inches from 225 to 235 feet

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

CASE SIZE: 8 inches from +3 to 130 feet
8 inches from 146 to 160 feet
6 inches from 200 to 225 feet
6 inches from 235 to 240 feet

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

GROUTING: Method Pressure
Material Cement & Water Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes X No _____

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

DRILL CUTTINGS SAVED: 28 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

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: 7/9/70

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	5	Brown soil	
5	12	Gray and brown clay	
12	20	Green sand	
20	30	Green and gray sand	
30	40	Brown sand	
40	50	Gray sand	
50	70	Brown sand	
70	182	Hard brown gravel - drilled like rock	
182	214	White sand clay - hard	
214	243	White sand clay	
243	257	Gray sand clay	
257	261	Gray and blue clay	
261	262 ½	Hard Rock	
262 ½	278	Soft black rock - mica	

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1
Date rec'd: 8/17/70 Date Processed: 1/26/71
PROPERTY: Allied Chemical Corp. #4
(Fibers Division)
COMPANY: Sydnor Hydrodynamics
COUNTY: Chesterfield
Well Repository No: W#: 3066 C#: 194
Sample Interval: from: 0 to: 278'
Number of samples: 28
Total Depth: 278'
Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0-10	250-260	-	-
10-20	260-270	-	-
20-30	270-278	-	-
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	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Allied Chemical Corp.
(Fibers Division)
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Chesterfield

W#: 3066
C#: 194
TOTAL DEPTH: 278'
QUAD: Hopewell
ELEV: 11'

GEOLOGIC LOG

Depth
(feet)

0-10 Sand — grayish orange; moderate clay — grayish orange, yellowish gray; fine to medium grained, some coarse grains, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few opaques; muscovite.

10-20 Sand — off-white; medium to coarse grained; subangular to subrounded; well sorted; quartz; feldspar; some garnet; few grains of glauconite.

20-30 Sand — yellowish gray; slightly clayey — yellowish gray, light brown; coarse grained to granular, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; garnet; muscovite.

30-40 Sand — off-white; coarse grained; subangular to subrounded; well sorted; quartz; feldspar; few flakes of muscovite.

40-50 As above plus some medium grains.

50-60 As above.

60-70 As above plus few grains of garnet.

70-80 Granules — off-white; moderate coarse grained sand, 5% angular pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; some garnet; muscovite.

80-90 Granules — off-white; slightly sandy; coarse to very coarse grained, few pebbles; angular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.

90-100 As above except no sand; well sorted.

100-110 Granules — off-white; abundant sand; coarse to very coarse grained, some pebbles; angular to subrounded; moderately sorted; quartz; feldspar.

110-120 As above.

Depth
(feet)

- 120-130 Sand — off-white; slightly clayey; coarse grained to granular, few pebbles; subrounded, moderately sorted; quartz; feldspar; few grains of garnet.
- 130-140 As above except coarse grained to gravel (20%); poorly sorted.
- 140-150 As above except 35% gravel.
- 150-160 Gravel — off-white; 5% granules; angular to subrounded; moderately well sorted; quartz; feldspar.
- 160-170 As above plus some coarse to very coarse grained sand.
- 170-180 Sand — off-white; slightly clayey; coarse grained to gravel (25%); angular to subrounded; poorly sorted; quartz; feldspar; few grains of garnet; muscovite.
- 180-190 Sand and gravel — off-white; slightly clayey; coarse grained to granular, 40% gravel; subangular to subrounded; poorly sorted; quartz; feldspar; some muscovite.
- 190-200 As above.
- 200-210 As above plus few grains of garnet.
- 210-220 As above except no garnet.
- 220-230 Sand — light olive gray; slightly clayey; medium to coarse grained, 10% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 230-240 Sand — light olive gray; slightly clayey; coarse grained to granular, some medium grains, some pebbles; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 240-250 Sand and granules — off-white; coarse to very coarse grained, 50% granules; subrounded; moderately sorted; quartz; feldspar; few grains of garnet; muscovite.
- 250-260 Sand — off-white; coarse to very coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar.

OWNER: Allied Chemical Corp.
(Fibers Division)

-3-

W#: 3066

Depth
(feet)

260-270	Granite (heavily weathered) — olive light gray; moderate clay; quartz; feldspar; 3% weathered biotite; some muscovite.
270-278	As above except light olive gray; slightly clayey — light olive gray, dusky yellow, moderate red.

Logged by: Michael T. Currie