

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 2668
C#: 188

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 Corporation Mailing Address: P. O. Box 31, Petersburg, VA 23803

TENANT: Chesterfield Receiving Plant Well #2 Mailing Address: P. O. Box 31, Petersburg, VA 23803

DRILLER: Mitchell's Well & Pump Company Mailing Address: Rt. #1, Box 110, Col. Hgts, VA 23830

WELL LOCATION: County Chesterfield Approx. feet miles (direction) of
on Bermuda Hundred Road and feet miles (direction) of

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

DATE STARTED: June 1969 DATE COMPLETED: July 1969

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 197'3" feet

WATER LEVEL: Stands 15 feet below surface OR

has NATURAL flow of gallons per minute.

YIELD TEST: Method pumped

Drawdown 52 feet

When pumped at Rate 200 gal. per min.

Duration 69 hrs., 35 min.

not continual; developing & testing

WATER ZONES: from to feet

from * to feet

from to feet

WATER: Color clear Taste good

Odor none Temp. °F

WELL TO SUPPLY: (check one) Home

Farm Town School

Industry X Other

WATER ANALYSIS AVAILABLE: Yes No X

DRILL CUTTINGS SAVED: 20 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: *Screens at several intervals - 30' total

HOLE SIZE: 8 inches from 0 to 197 1/2 feet

 inches from to feet

 inches from to feet

SCREEN SIZE: 6 inches from * to feet

 inches from to feet

 inches from to feet

CASE SIZE: 6 inches from 0 to 197 1/2 feet
including screen

 inches from to feet

 inches from to feet

GROUTING: Method

Material Depth feet

PUMP: Type Submersible

Capacity 15 HP gal. per min

Depth of intake 148' feet

LOG

FURNISHED BY: Mitchell's Well & Pump Company DATE: July 1969

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	Top soil and red mud	
10	20	Red mud and sand	
20	30	Yellow mud and sand	
30	40	Gray sand and gravel	
40	50	Red sand and mud	
50	60	Sand, mud and small rocks	
60	70	Sand and mud	
70	80	Sand and mud, some gravel	
80	90	Ditto	
90	100	Ditto	
100	110	Sand and gravel	
110	120	Sand and gravel	
120	130	Ditto	
130	140	Ditto	
140	150	Ditto	
150	160	Ditto	
160	170	Ditto	
170	180	Ditto	
180	190	Ditto	
190	197 $\frac{1}{4}$	Ditto	

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1

Well Repository No: W#: 2668
 C#: 188

Date rec'd: 9-23-69 Date Processed:

Sample Interval: from:0to: 197'3"

PROPERTY: Allied Chemicals Corp.
 (Well #2)

Number of samples: 20

COMPANY: Mitchell's Well & Pump Co.

Total Depth: 197'3"

COUNTY: Chesterfield

Oil or Gas: Water: Exploratory:

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 - 197'3"	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed & unwashed samples.

OWNER: Allied Chem. Corp. #2
DRILLER: Mitchell's W & P
COUNTY: Chesterfield

W#: 2668
C#: 188
TOTAL DEPTH: 197 $\frac{1}{4}$ '
QUAD.: Hopewell
ELEV.: 18'

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand — very light olive brown; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; feldspar; 2% opaques.
- 10-20 Sand — dusky yellow; moderate clay; coarse grained to granular, some fine grains, some medium grains, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; muscovite.
- 20-30 As above except very light olive brown; slightly clayey; few opaques; few grains of glauconite.
- 30-40 Sand — yellowish gray; moderate clay; medium to very coarse grained, 10% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet; muscovite.
- 40-50 Sand — dark yellowish orange; 50% moderately to heavily stained grains; slightly clayey; coarse grained to granular, some medium grains, 2% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; muscovite; few grains of glauconite; few grains of hornblende; few grains of jasper.
- 50-60 Sand — off white; abundant clay; fine to coarse grained, few granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some muscovite.
- 60-70 Sand — off white; slightly clayey; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar.
- 70-80 As above except moderate clay; 7% pebbles; poorly sorted.
- 80-90 Sand — white; slightly clayey; coarse grained to gravel (30%); subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 90-100 Sand — white; moderate clay; coarse grained to granular, 3% pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 100-110 As above except 15% pebbles; poorly sorted.
- 110-120 As above.

Depth
(feet)

- 120-130 Sand and gravel — white; coarse grained to granular, 40% pebbles; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 130-140 As above.
- 140-150 As above except sand; coarse grained to granular, 15% pebbles.
- 150-160 As above plus some heavily iron stained grains.
- 160-170 As above except 10% pebbles; few stained grains.
- 170-180 Sand and gravel — white; few heavily iron stained grains; very coarse grained to granular, 50% pebbles; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 180-190 Sand — white; coarse to very coarse grained, 10% granules, 7% pebbles; subrounded; moderately sorted; quartz; feldspar; some garnet.
- 190-197½ Sand — white; coarse grained to gravel (25%), some medium grains; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-50	50	Norfolk Formation	Pleistocene
50-197	147	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
December 14, 1978