

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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

TENANT: Chesterfield Receiving Plant Well #3 Mailing Address: P. O. Box 31, Petersburg, VA 23803

DRILLER: Mitchell's Well & Pump Company Mailing Address: Rt. 1, Box 110, Col. Hgts., VA 23834

WELL LOCATION: County Chesterfield Approx. ^{feet}/_{miles} (direction) of
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: July, 1969 DATE COMPLETED: August, 1969

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 224'10" feet

WATER LEVEL: Stands 30 feet below surface OR

has NATURAL flow of gallons per minute.

YIELD TEST: Method pumped

Drawdown 78 feet

when pumped at Rate of 240 gal. per min.

Duration 75 hrs., 20 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: 22 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 set of several intervals

HOLE SIZE: 8 inches from 0 to 224'10" 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 224'10" 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 189 feet

LOG

FURNISHED BY: Mitchell's Well & Pump Company

DATE: August, 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	Red mud	
10	20	Red mud and sand	
20	30	Same	
30	40	Blue mud, some shell, sand and gravel	
40	50	Yellow mud, sand and gravel	
50	60	Yellow sand and gravel	
60	70	Same	
70	80	White sand and gravel	
80	90	Same	
90	100	Same	
100	110	"	
110	120	"	
120	130	"	
130	140	"	
140	150	"	
150	160	"	
160	170	"	
170	180	"	
180	190	"	
190	200	"	
200	210	"	
210	224'10"	"	

(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#: 2669
 C#: 189

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

Sample Interval: from:0 to: 224'10"

PROPERTY: Allied Chemicals Corp.
 (Well #3)

Number of samples: 22

COMPANY: Mitchell's Well & Pump Co.

Total Depth: 225'

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 - 200	-	-	-
200 - 210	-	-	-
210 - 224'10"	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed & unwashed samples.

OWNER: Allied Chem. Corp. #3
DRILLER: Mitchell's W & P
COUNTY: Chesterfield

W#: 2669
C#: 189
TOTAL DEPTH: 224'10"
QUAD.: Hopewell
ELEV.: 15'

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand — dark yellowish orange; moderately stained; abundant clay; fine to coarse grained, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; moderately sorted; quartz; feldspar; some opaques; some muscovite; few grains of glauconite; few flakes of biotite.
- 10-20 Sand — grayish orange; slightly clayey, medium grained to granular, 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; few grains of glauconite; muscovite.
- 20-30 As above except dark yellowish orange; moderate clay.
- 30-40 Sand — olive light gray; abundant clay; coarse grained to granular, 15% pebbles; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 40-50 Sand — off white; slightly clayey; coarse grained to granular, 5% pebbles; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 50-60 As above plus few grains of garnet.
- 60-70 As above.
- 70-80 Sand — white; coarse grained to granular, 7% pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 80-90 As above except slightly clayey.
- 90-100 Sand — white; coarse grained to gravel (25%); subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 100-110 As above.
- 110-120 As above except 35% pebbles.
- 120-130 Sand and gravel — white; coarse grained to granular, 50% pebbles; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 130-140 As above.

Depth
(feet)

- 140-150 As above plus few flakes of muscovite.
- 150-160 Sand — white; coarse grained to granular, some medium grains, 20% pebbles; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 160-170 As above.
- 170-180 Sand and gravel — white; coarse grained to granular, 55% pebbles; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 180-190 As above except sand; 30% pebbles.
- 190-200 As above.
- 200-210 Sand — white; coarse to very coarse grained, some medium grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 210-224'10 As above except 10% granules; some garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Thickness (feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-30	30	Norfolk Formation	Pleistocene
30-224	194	Patuxent Formation	Cretaceous

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