

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4397

C#: 212

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Allied Chemical Co. #6 Mailing Address: P.O. Box 31 Petersburg VA 23803

TENANT: _____ Mailing Address: _____

DRILLER: Sydnor Hydrodynamics Inc. Mailing Address: 2111 Magnolia Street Richmond, VA 23223

WELL LOCATION: County Chesterfield Approx. 200 ^{feet}/_{miles} South (direction) of _____
Route 827 and 4000 ^{feet}/_{miles} 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: 5/7/75 DATE COMPLETED: 5/30/75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 292' feet

WATER LEVEL: Stands 17 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pump HOLE SIZE: 17 inches from 0 to 260 feet
Drawdown 67'6" feet 9 7/8 inches from 260 to 290 feet
Rate 400 gal. per min. _____ inches from _____ to _____ feet
Duration 24 hrs., _____ min. SCREEN SIZE: 8 inches from 140 to 150 feet
8 inches from 158 to 168 feet
8 inches from 174 to 184 feet
8 inches from 190 to 210 feet
8 inches from 236 to 246 feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet
CASE SIZE: 8 inches from +2 to 140 feet
8 inches from 150 to 158 feet
8 inches from 168 to 174 feet
8 X 184-190, 210-236, 246-252

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

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry XXX Other _____
GROUTING: Method _____
Material _____ Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes XX No _____
PUMP: Type _____
Capacity _____ gal. per min.
Depth of intake _____ feet

DRILL CUTTINGS SAVED: 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: _____

LOG

Sydnor Hydrodynamics, Inc. (C.P. Brooken)

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	15	Red clay	
15	20	Brown sand, gravel	
20	30	Green sand - some clay	
30	40	Green, white sand clay	
40	50	Coarse white sand clay	
50	70	Coarse white sand clay and gravel	
70	80	Coarse Brown Sand, Gravel and clay	
80	90	White sand, trace of clay and gravel	
90	100	White sand, gravel with trace of brown and white clay	
100	110	Coarse white sand and gravel	
110	120	White sand, gravel and clay	
120	130	White sand, gravel, green clay	
130	140	White sand gravels	
140	150	White sand	
150	220	White sand, clay and gravel	
220	230	Gravels, Sand clay	
230	250	Gray, green clay, sand and gravel	
250	260	Sand, gravel trace of white clay	
260	270	Gravel, green and white clay with sand	
270	280	Green clay, gravel and sand	
280	290	Green clay and gravel	
290	292	Hard Rock	

(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#: 4397

Date rec'd: 7/1/75 Date Processed: 7/8/76

C#: 212

Sample Interval: from: to:
 0 292'

PROPERTY: Allied Chemical Co. #6

Number of samples: 30

COMPANY: Sydnor Hydrodynamics

Total Depth: 292'

COUNTY: Chesterfield
 (Bermuda Hundred)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	50 - 60	-	-
10 - 20	60 - 70	-	-
20 - 30	70 - 80	-	-
30 - 40	80 - 90	-	-
40 - 50	90 - 292	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 200	-	-	-
200 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-

Washed and unwashed samples

OWNER: Allied Chem. Co. #4
DRILLER: Sydnor Hydrodynamics
COUNTY: Chesterfield
(Bermuda Hundred)

W#: 4397
C#: 212
TOTAL DEPTH: 292'
QUAD: Hopewell
ELEV: 18'

GEOLOGIC LOG

Depth
(feet)

0 - 10 Sand -- dark yellowish orange; abundant clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few opagues; muscovite.

10 - 20 Sand -- grayish orange; coarse grained to granular, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few grains of glauconite; garnet.

20 - 30 As above except very coarse grained, 3% granules; well sorted.

30 - 40 Sand -- light grayish orange; coarse grained to granular, 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite.

40 - 50 As above except some pebbles.

50 - 60 Sand -- light grayish orange; coarse to very coarse grained, 10% granules; subrounded; moderately well sorted; quartz; feldspar; some muscovite.

60 - 70 As above except coarse grained to granular, some pebbles; moderately sorted.

70 - 80 As above plus few grains of garnet.

80 - 90 Sand -- off white; slightly clayey; coarse grained to granular, few pebbles; angular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet; muscovite.

90 - 100 Sand -- off white; coarse grained to gravel; subrounded; poorly sorted; quartz; feldspar; few grains of garnet.

100 - 110 Sand and gravel -- off white; slightly clayey; coarse grained to granular, 40% pebbles; angular to subrounded; poorly sorted; quartz; feldspar.

110 - 120 Gravel -- off white; slightly clayey; moderate coarse to very coarse grained sand, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.

120 - 130 Sand -- off white; very coarse grained, some granules; subangular to subrounded; well sorted; quartz; feldspar.

130 - 140 Sand -- off white; coarse grained to gravel; subrounded; poorly sorted; quartz; feldspar; few grains of garnet; muscovite.

Depth
(feet)

- 140 - 150 As above except coarse to very coarse grained, 7% granules, some pebbles; moderately sorted.
- 150 - 160 Gravel - off white; some coarse to very coarse grains, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of garnet; muscovite.
- 160 - 170 Gravel - off white; some coarse to very coarse grains, some granules; angular to subrounded; moderately sorted; quartz; feldspar.
- 170 - 180 As above.
- 180 - 190 As above except slightly clayey.
- 190 - 200 Sand - off white; coarse grained to gravel; angular to subrounded; poorly sorted; quartz; feldspar; some garnet.
- 200 - 210 Gravel - off white; angular to subrounded; moderately well sorted; quartz; feldspar.
- 210 - 220 As above except slightly clayey; abundant coarse sand and granules; few grains of garnet.
- 220 - 230 Gravel - off white; slightly clayey (medium gray clasts); angular to subrounded; well sorted; quartz; feldspar.
- 230 - 240 As above plus moderate coarse to very coarse sand and granules.
- 240 - 250 As above except slightly sandy, some granules.
- 250 - 260 Sand and gravel - off white; slightly clayey; coarse grained to granular, 60% pebbles; angular to subrounded; poorly sorted; quartz; feldspar; few grains of garnet; muscovite.
- 260 - 270 As above except moderate medium gray clay (some clasts).
- 270 - 280 Granite (heavily weathered) - dusky yellow; moderate clay; quartz; feldspar; 2% weathered biotite; few flakes of muscovite.
- 280 - 290 As above except 3% biotite.
- 290 - 292 As above.

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 - 30	30	Norfolk Formation	Pleistocene
30 - 270	240	Patuxent Formation	Cretaceous
270 - 292	22	Petersburg Granite	Paleozoic (?)

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
December 26, 1978