

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 5014  
C# 228

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Austin Process & Industrial Mailing Address: 4000 Bermuda Hundred Road  
Chester, VA. 23831

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Hydrodyanmics Mailing Address: P.O. Box 27186  
Richmond, VA. 27186

WELL LOCATION: County Chesterfield Approx. 100 ~~feet~~ xxxxx East (direction) of  
existing well and 1000 ~~feet~~ xxxxx North (direction) of St/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: 9/19/77 DATE COMPLETED: 10/25/77

TYPE OF DRILL RIG USED: \_\_\_\_\_ TOTAL DEPTH 110 <sup>\*</sup> feet

WATER LEVEL: Stands 22'10" feet below surface OR  
has NATURAL flow of 3 gallons per minute.

YIELD TEST: Method pump  
Drawdown 5' 9 1/4" feet  
Rate 63 gal. per min.  
Duration 3 3/4 hrs., \_\_\_\_\_ min.

HOLE SIZE: 8 inches from 0 to 110 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
SCREEN SIZE: 4 inches from 50 to 65 feet

WATER ZONES: from 50 to 65 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
CASE SIZE: 4 inches from +2 to 50 feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

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

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other test well

GROUTING: Method \_\_\_\_\_  
Material \_\_\_\_\_ Depth \_\_\_\_\_ feet

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

PUMP: Type \_\_\_\_\_ Capacity \_\_\_\_\_ gal. per min

DRILL CUTTINGS SAVED: Yes \_\_\_\_\_ No \_\_\_\_\_

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

(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: <sup>\*</sup> Depth of completed well 65'

FURNISHED BY: Charles Mitchell 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	12	Brown Clay	
12	16	Silty Brown Sand	
16	22	Brown Sand	
22	27	Brown Clay	
27	47	Gray Clay	
47	60	Gray Sand	
60	70	Coarse brown sand and gravel	
70	79	Small boulders and gravel	
79	87	Hard sand clay	
87	95	Hard gravel and sand	
95	98	Small boulders	
98	110	White sand clay	

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

INTERVAL SHEET

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Well Repository No: W# 5014  
 C# 228

Date rec'd: 1/31/78 Date Processed: 3/2/78

Sample Interval: from: 0 to: 110

PROPERTY: Austin Process & Industrial Co.

Number of samples: 11

COMPANY: Sydnor

Total Depth: 110'

COUNTY: Chesterfield (Bermuda 100)

~~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	-	-	-
- 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples.

Owner: Austin Process & Ind. Co.  
Driller: Sydnor  
County: Chesterfield  
(Bermuda Hundred)

W# 5014  
C# 228  
Total depth: 110'  
Quad: Hopewell

Depth  
(feet)

GEOLOGIC LOG

- 0-10 Clay - dark yellowish orange; abundant sand; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 10-20 Sand - dark yellowish orange; slightly stained; slightly clayey; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; feldspar; some opaques; muscovite.
- 20-30 Clay - olive light gray, light olive gray; abundant sand; fine to medium grained, some coarse grains, 5% slightly stained pebbles; subangular to subrounded; poorly sorted; quartz; few grains of glauconite; feldspar; muscovite.
- 30-40 Clay and sand - light olive gray; abundant clay; moderate sand; very fine to medium grained, some coarse grains, some granules, few pebbles; subangular to subrounded; poorly sorted; quartz; some glauconite; muscovite; few grains of feldspar.
- 40-50 Sand - off white; slightly clayey; coarse grained, some very coarse grains; subrounded; well sorted; quartz; feldspar; some glauconite; few grains of garnet.
- 50-60 As above plus few granules.
- 60-70 Sand - light olive gray; slightly clayey; coarse grained to granular; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 70-80 As above plus few grains of garnet.
- 80-90 As above plus some medium grains.
- 90-100 Sand - off white; slightly clayey; coarse grained to granular, some medium grains, 5% pebbles, subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 100-110 As above.

Logged by: Michael T. Currie

OWNER: Austin Process and Industrial Co.

W#: 5014

GEOLOGIC SUMMARY

<u>DEPTH</u> <u>(feet)</u>	<u>THICKNESS</u> <u>(feet)</u>	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0 - 40	40	Norfolk Formation	Pleistocene
40 - 110	70	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
November 20, 1978