

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 3637  
C#: 151

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: Avondale Corporation Mailing Address: Rt. 2, Box 104 Mechanicsville, VA 23111

TENANT: Avondale Subdivision - Well #2 Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Hydrodynamics, Inc Mailing Address: Box 27186 Richmond, VA 23261

WELL LOCATION: County Hanover Approx. 800 <sup>feet</sup>/<sub>miles</sub> North (direction) of \_\_\_\_\_  
St. Rd. 606 and 2 <sup>feet</sup>/<sub>miles</sub> East (direction) of St. Rd. 640

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

DATE STARTED: 6/30/72 DATE COMPLETED: 7/26/72

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 362 feet

WATER LEVEL: Stands 143 feet below surface OR \_\_\_\_\_  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Submersible pump HOLE SIZE: 12 1/4 inches from 0 to 362 feet  
Drawdown 105 feet \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
Rate 100 gal. per min. \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
Duration 24 hrs., \_\_\_\_\_ min.

WATER ZONES: from 246 to 256 feet \_\_\_\_\_ 6 inches from 246 to 256 feet  
from 280 to 300 feet \_\_\_\_\_ 6 inches from 280 to 300 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color Clear Taste \_\_\_\_\_ 6 inches from 256 to 280 feet  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F 6 inches from 300 to 305 feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_ GROUTING: Method Pressure  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_ Material Cement-water Depth 50 feet  
Industry \_\_\_\_\_ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes XX No \_\_\_\_\_ PUMP: Type \_\_\_\_\_ Capacity \_\_\_\_\_ gal. per min.  
DRILL CUTTINGS SAVED: <sup>35</sup> Yes XX 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: Electric log ran by driller.

WA: 3637  
 CF: 121

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: 7/26/72

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	Yellow sand-clay	
10	30	Orange clay-sand	
30	60	Blue clay	
60	137	Blue green-sand clay	
137	144	Green clay-some sand	
144	145	Rock	
145	187	Clay, sand gray streaks of shale material	
187	196	Gray clay-some fine sand	
196	200	Gray clay, sand, some shells	
200	213	Gray hard clay	
213	215	Soft gravel sand	
215	224	Hard sand clay, green	
224	238	Soft green sand-clay	
238	262	Gravel and sand clay	
262	307	Soft gravel and sand-some clay	
307	310	Tough hard sand clay, dark gray	
310	320	Soft sand, gravel, clay, dark gray	
320	322	Tough clay	
322	362	Dark gray sand-clay	

(Use additional forms if necessary)

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3631  
C-151  
W-3637

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Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER  
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

OWNER: Avondale Corporation Mailing Address: Rt. 2, Box 104, Mechanicsville, Va. 23111

TENANT: Avondale Subdivision - Well # 2 Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: Box 27186, Richmond, Va. 23261

WELL LOCATION: County Hanover Approx. 800 <sup>feet</sup>/<sub>miles</sub> North (direction) of  
Rt. 606 and 2 <sup>feet</sup>/<sub>miles</sub> East (direction) of 640

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

DATE STARTED: 6-30-72 DATE COMPLETED: 7-26-72

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 362 feet

WATER LEVEL: Stands 143 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Submersible  
Drawdown 105 feet  
Rate 100 gal. per min.  
Duration 24 hrs., \_\_\_\_\_ min.

HOLE SIZE: 12-1/4 inches from 0 to 362 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 246 to 256 feet  
from 280 to 300 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 6 inches from 246 to 256 feet  
6 inches from 280 to 300 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

CASE SIZE: 6 inches from +2 to 246 feet  
6 inches from 256 to 280 feet  
6 inches from 300 to 305 feet

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

GROUTING: Method Pressure  
Material Cement-Water Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes  No \_\_\_\_\_  
DRILL CUTTINGS SAVED: Yes  No \_\_\_\_\_

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal. per min.  
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: Electric Log Ran. STUDLEY QUADRANGLE  
W# 3546 @ 1770 Elevat 163 topo  
ELEV. : 162'

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

INTERVAL SHEET

Page 1 of 1

Well Repository No: W#: 3637  
 C#: 151  
 Sample Interval: from: 0 to: 350

Date rec'd: 8/21/72 Date Processed: 11/26/72

PROPERTY: Avondale Corporation

Number of samples: 35

COMPANY: Sydnor Hydrodynamics

Total Depth: 362'

COUNTY: Hanover  
 (Rural Point)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 60	-	-
10 - 20	260 - 70	-	-
20 - 30	270 - 80	-	-
30 - 40	280 - 90	-	-
40 - 50	290 - 300	-	-
50 - 60	300 - 10	-	-
60 - 70	310 - 20	-	-
70 - 80	320 - 30	-	-
80 - 90	330 - 40	-	-
90 - 100	340 - 50	-	-
100 - 10	-	-	-
110 - 20	-	-	-
120 - 30	-	-	-
130 - 40	-	-	-
140 - 50	-	-	-
150 - 60	-	-	-
160 - 70	-	-	-
170 - 80	-	-	-
180 - 90	-	-	-
190 - 200	-	-	-
200 - 10	-	-	-
210 - 20	-	-	-
220 - 30	-	-	-
230 - 40	-	-	-
240 - 50	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Avondale Corp.  
DRILLER: Sydnor Hydrodynamics  
COUNTY: Hanover  
(Rural Point)

W#: 3637  
C#: 151  
TOTAL DEPTH: 362'  
QUAD: Studley

GEOLOGIC LOG

Depth  
(feet)

- 0 - 10 Sand -- very dark yellowish orange; some heavily stained grains; slightly clayey; medium to coarse grained; subangular to subrounded; well sorted; quartz; feldspar; few opaques.
- 10 - 20 As above except grayish orange; some granules.
- 20 - 30 Sand -- very pale orange; moderate clay; medium grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; few grains of glauconite.
- 30 - 40 Sand -- light olive gray; moderate clay -- light olive gray, dark yellowish orange; fine grained to gravel (30%); subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; few flakes of muscovite.
- 40 - 50 Sand -- light olive gray; moderate clay; fine grained; subangular to subrounded; well sorted; quartz; some shell fragments; few black phosphatic fragments; few opaques; glauconite.
- 50 - 60 Sand -- olive light gray; moderate clay; fine grained, some coarse grains, some granules; subangular to subrounded; moderately sorted; quartz; some shell fragments; some ferricrete; few black phosphatic fragments; feldspar; muscovite.
- 60 - 70 Sand -- olive light gray; abundant clay; very fine to fine grained; subangular to subrounded; well sorted; quartz; 15% shell fragments; few black phosphatic fragments; muscovite.
- 70 - 80 Clay -- olive light gray; abundant sand; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; 3% shell fragments; few fragments of ferricrete.
- 80 - 90 As above except 5% shell fragments; few black phosphatic fragments; glauconite.
- 90 - 100 Sand -- olive light gray; abundant clay; fine to medium grained, 3% granules, few pebbles; subangular to rounded; moderately sorted; quartz; 10% glauconite; some black phosphatic material; some shell fragments; few flakes of muscovite.
- 100 - 110 Sand -- olive light gray; slightly clayey; fine to medium grained, some coarse grains, few granules; subangular to rounded; moderately well sorted; quartz; 40% glauconite; some muscovite; some shell fragments.

Depth  
(feet)

- 110 - 120 As above plus some pebbles; 30% glauconite.
- 120 - 130 As above except few flakes of muscovite.
- 130 - 140 Clay -- olive light gray; abundant sand; fine to medium grained, some coarse, some granules, some pebbles; subangular to rounded; moderately sorted; quartz; 20% glauconite; some muscovite; some shell fragments; few black phosphatic fragments.1
- 140 - 150 As above except 5% granules, 5% pebbles; some feldspar.
- 150 - 160 Clay -- olive light gray, abundant sand; fine to medium grained, some granules; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 10% limestone and shell fragments; some muscovite; few black phosphatic fragments.
- 160 - 170 Clay -- olive light gray; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 7% limestone fragments; 5% glauconite; some muscovite; some black phosphatic material; few shell fragments.
- 170 - 180 As above except 10% limestone and shell fragments; forams (inc. Robulus).
- 180 - 190 Clay -- olive light gray; abundant sand; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 10% glauconite; 2% muscovite; 2% shell fragments; few black phosphatic fragments.
- 190 - 200 Gravel -- olive light gray; moderate clay; abundant sand; fine to medium grained, some granules; angular to subrounded; poorly sorted; quartz; 10% shell fragments; 3% glauconite; some black phosphatic material; some muscovite.
- 200 - 210 As above except 20% granules; 3% shell fragments.
- 210 - 220 Sand and gravel -- light brown, medium dark gray; abundant clay; coarse grained to granular, 50% pebbles; subangular to subrounded; poorly sorted; quartz; 7% shell fragments; 3% glauconite; feldspar; few black phosphatic fragments.
- 220 - 230 Sand -- very light gray; moderate clay; fine to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some biotite; muscovite; glauconite; few shell fragments.
- 230 - 240 Sand -- very light gray; moderate clay; medium to coarse grained, some fine grains, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; biotite; muscovite; few shell fragments; few black phosphatic fragments.

Depth  
(feet)

- 240 - 250 Gravel -- light olive gray; slightly clayey; abundant sand; medium grained to granular; angular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite; some muscovite; few shell fragments; few black phosphatic fragments.
- 250 - 260 As above except 2% glauconite; no black phosphatic fragments.
- 260 - 270 As above except moderate sand.
- 270 - 280 As above except slightly sandy.
- 280 - 290 Sand and granules -- light olive gray; coarse to very coarse grained, 40% granules, 20% pebbles; subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few shell fragments; muscovite.
- 290 - 300 Sand and gravel -- light olive gray; slightly clayey; coarse grained to granular, 40% pebbles; subrounded; poorly sorted; quartz; feldspar; some glauconite; muscovite.
- 300 - 310 Gravel -- light olive gray; some very coarse grains, some granules; sub-angular to subrounded; moderately well sorted; quartz; feldspar; black phosphatic pebble .
- 310 - 320 As above except no phosphatic material.
- 320 - 330 Sand -- light olive gray; medium to coarse grained, some granules; subrounded; well sorted; quartz; feldspar; 3% glauconite; few flakes of muscovite.
- 330 - 340 As above plus few angular pebbles; moderately well sorted.
- 340 - 350 As above except medium to very coarse grained, some granules, few pebbles.
- 350 - 362 No sample.

Logged by: Michael T. Currie  
Jan. 26, 1979