W#: 3878
C#: 163

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

TENANT: Avondale Subdivision #3 Mailing Address:

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

WELL LOCATION: County Hanover Approx. 1000 ~~feet~~ ~~miles~~ North (direction) of St. Rd. 606 and 1 ~~feet~~ miles 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: 5/8/73 DATE COMPLETED: 5/28/73

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 325 feet

WATER LEVEL: Stands 163'6" feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible

Drawdown 38'6" feet

Rate 105 gal. per min.

Duration 24 hrs., _____ min.

WATER ZONES: from 242 to 252 feet

from 280 to 300 feet

from _____ to _____ feet

WATER: Color Clear Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes XX No _____

DRILL CUTTINGS SAVED: Yes 33 XX No _____

HOLE SIZE: 12 inches from 0 to 325 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 242 to 252 feet

6 inches from 280 to 300 feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from +2 to 242 feet

6 inches from 252 to 280 feet

6 inches from 300 to 303 feet

GROUTING: Method Pressure

Material Cement & water Depth 50 feet

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 well (by driller)

(LOG OF WELL) OVER

LOG

FURNISHED BY: Sydnor Hydrodnamics Inc. DATE: 5/25/73

DEPTH (feet) FROM	DEPTH (feet) TO	TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
0	1	Top soil	
1	10	Brown sandy clay	
10	20	Yellow clay	
20	45	Brown sand	
45	69	Yellow clay	
69	200	Gray clay	
200	234	Gray clay and shells	
234	323	Gray sand and gravel	
323	325	Gray clay	

(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#: 3878
C#: 163

Date rec'd: 6/19/73 Date Processed: 5/16/74

Sample Interval: from: 0 to: 325

PROPERTY: Avondale Sub#3

Number of samples: 33

COMPANY: Sydnor Hydrodynamics

Total Depth: 325'

COUNTY: Hanover (Atlee)

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- 25	-	-
80- 90	-	-	-
90- 100	-	-	-
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.
(Avondale Sub. #3)
DRILLER: Sydnor Hydrodynamics
COUNTY: Hanover
(Atlee)

W#: 3878
C#: 163
TOTAL DEPTH: 325'
QUAD: Studley

GEOLOGIC LOG

Depth (feet)	
0 - 10	Sand -- grayish orange; moderate clay; fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; some biotite; few fragments of granite.
10 - 20	Clay -- grayish orange, moderate orange yellow, light gray; abundant sand; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; feldspar; few opaques.
20 - 30	Sand -- grayish orange; some moderately stained grains; abundant clay; medium to coarse grained, some fine grains, few granules; quartz; feldspar; few flakes of biotite; few fragments of granite; few fragments of ferricrete; few opaques.
30 - 40	Sand -- light grayish orange; some stained grains; coarse to very coarse grained; subrounded; well sorted; quartz; feldspar; few opaques.
40 - 50	Sand -- light grayish orange; some stained grains; slightly clayey; coarse to very coarse grained, 5% granules, few pebbles; subrounded; moderately well sorted; quartz; feldspar.
50 - 60	Sand -- grayish orange; abundant clay; fine grained to gravel (25%); subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; few flakes of muscovite.
60 - 70	Clay and sand -- grayish orange; abundant clay - grayish orange, light olive gray; moderate sand; fine grained, some coarse grains, 25% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some muscovite; few opaques; few flakes of biotite; few fragments of granite.
70 - 80	As above except abundant clay -- light olive gray, grayish orange; no granite fragments.
80 - 90	Clay -- light olive gray; abundant sand; fine to medium grained, 20% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar (pebbles); 3% shell fragments; few flakes of muscovite; biotite.
90 - 100	Clay -- light olive gray; moderate sand; fine to medium grained, few pebbles; subangular to subrounded; well sorted; quartz; few flakes of muscovite; biotite; few shell fragments.
100 - 110	Clay and sand -- light olive gray; abundant clay; moderate sand; fine to medium grained, some coarse grains, 5% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar (pebbles); 2% shell fragments; few flakes of biotite; muscovite.

Depth (feet)	
110 - 120	Clay - light olive gray; moderate sand; fine to medium grained, few pebbles; subangular to subrounded; moderately well sorted; quartz; 3% shell fragments; few black phosphatic fragments; few flakes of biotite; feldspar (pebbles).
120 - 130	Clay - light olive gray; moderate clay; fine grained; subangular; well sorted; quartz; few shell fragments; few flakes of muscovite; biotite.
130 - 140	Sand - light olive gray; moderate clay; fine to medium grained, some coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; 5% glauconite; some shell fragments; few flakes of muscovite.
140 - 150	Clay - light gray, light olive gray; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; glauconite; 20% of sand sized fraction; few shell fragments; few flakes of biotite; muscovite.
150 - 160	Clay and sand - olive light gray; abundant clay; moderate sand; fine to medium grained; subangular to rounded; well sorted; quartz; 30% glauconite; some muscovite.
160 - 170	As above except 20% glauconite.
170 - 180	Clay - light olive gray, very light gray; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 10% glauconite; few flakes of muscovite.
180 - 190	Sand - olive light gray; moderate clay; very fine to fine grained; subangular to rounded; well sorted; quartz; 10% glauconite; 10% shell fragments; some muscovite; forams (inc. Robulus, Nodosaria, and Buccella); few black phosphatic fragments; ostracode.
190 - 200	As above except forams (inc. Robulus).
200 - 210	Sand - olive light gray; moderate clay; fine grained, some medium grains, some coarse grains; subangular to subrounded; moderately well sorted; quartz; 30% shell fragments; 15% glauconite; some muscovite.
210 - 220	As above except 20% shell fragments; 20% glauconite.
220 - 230	Sand - light olive gray; moderate clay; fine to medium grained, some granules, some pebbles; subangular to subrounded, moderately sorted; quartz; 20% shell fragments; 7% glauconite; some black phosphatic material; few flakes of muscovite.
230 - 240	Sand and gravel - off white; very coarse grained to granular, 50% pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite; few shell fragments.
240 - 250	As above except slightly clayey; some coarse grains.
250 - 260	Granules and gravel - light olive gray; some very coarse grains, 60% granules, 40% pebbles; subrounded; moderately sorted; quartz; feldspar, some glauconite, few flakes of muscovite.

Depth (feet)	
260 - 270	Sand and granules -- light olive gray; coarse to very coarse grained, 50% granules, 15% pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
270 - 280	As above except 10% pebbles.
280 - 290	As above except few grains of glauconite; garnet.
290 - 300	Sand -- light olive gray; coarse to very coarse grained, 10% granules, few pebbles; subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
300 - 310	Sand -- light olive gray; coarse grained to gravel (25%); subrounded; moderately; sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
310 - 320	As above.
320 - 325	As above.

Logged by: Michael T. Currie
Feb 13, 1979