

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4243
C-176

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: Walnut Grove Development Corporation Mailing Address: P. O. Box 37
Mechanicsville, Virginia

TENANT: Walnut Grove Well #2 Mailing Address: _____

DRILLER: Sydnor Hydrodynamics, Incorporated Mailing Address: P. O. Box 27186
Richmond, Virginia 23261

WELL LOCATION: County Hanover Approx. 700 ^{feet}/_{miles} west (direction) of _____
State Road 643 and 1600 ^{feet}/_{miles} north (direction) of State Route 156

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

DATE STARTED: June 4, 1974 DATE COMPLETED: June 18, 1974

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 350 feet

WATER LEVEL: Stands 176'4" feet below surface OR Completed at 342 feet

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method submersible pump

Drawdown 35 feet

Rate 100 gal. per min.

Duration 24 hrs., _____ min.

WATER ZONES: from 265 to 280 feet

from 321 to 336 feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other subdivision

WATER ANALYSIS AVAILABLE: Yes No _____

DRILL CUTTINGS SAVED: Yes 35 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: Electric log by driller.

HOLE SIZE: 12 1/4 inches from 0 to 350 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 265 to 280 feet

_____ inches from 321 to 336 feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from +2 to 265 feet

6 inches from 280 to 321 feet

6 inches from 336 to 342 feet

GROUTING: Method pressure

Material cement water Depth 50 feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

LOG

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	1	Top soil	
1	5	Brown clay	
5	10	Brown sandy clay	
10	55	Brown sand	
55	70	Yellow sandy clay	
70	95	Brown sand	
95	130	Black sand	
130	131	Rock	
131	140	Black sand	
140	201	Gray clay	
201	205	Gravel, clay and rock streaks	
205	220	Hard gray sand	
220	248	Gray sand	
248	260	Hard brown clay and sand	
260	295	Gray sand	
295	310	Gray sand- some clay	
310	340	Gray sand	
340	350	Gray sand- clay	

(Use additional forms if necessary)

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

INTERVAL SHEET

C-176

Page 1 of 1

Well Repository No.: W-4243

Date rec'd: 07/18/74 Date Processed: 08/25/75

Sample Interval: from 0 to: 350

PROPERTY: Walnut Grove Development Corporation #2

Number of samples: 35

COMPANY: Sydnor Hydrodynamics, Incorporated

Total Depth: 350'

COUNTY: Hanover (Mechanicsville)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-10	-	-	-
10-20	10-20	-	-	-
20-30	20-30	-	-	-
30-40	30-40	-	-	-
40-50	40-50	-	-	-
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	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-300	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

All intervals have both washed and unwashed samples

OWNER : Walnut Grove Development Corporation #2 W# : 4243
DRILLER: Sydnor Hydrodynamics, Incorporated C# : 176
COUNTY : Hanover (Mechanicsville) TOTAL DEPTH: 350'
QUAD : Seven Pines

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand- light orange brown; slightly clayey; coarse to very coarse grained, some medium grains, some granules, 2% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 10-20 Sand- grayish-orange; moderately stained; coarse grained, some very coarse grains, some granules; subangular to subrounded; well sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 20-30 Sand- light orange brown; slightly to heavily stained; coarse to very coarse grained, some medium grains, 5% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 30-40 Sand- dark yellowish-orange; moderately to heavily stained; coarse to very coarse grained, 3% granules; subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 40-50 As above plus some medium grains; moderately sorted.
- 50-60 Sand- light grayish-orange; fine to medium grained, 5% granules; subangular to subrounded; well sorted; quartz; feldspar; few opaques.
- 60-70 As above.
- 70-80 Sand- light grayish-orange; medium to very coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 80-90 As above except medium to coarse grained, some very coarse grains, 2% granules.
- 90-100 As above except dusky yellow; some opaques.
- 100-110 Sand- light olive gray; slightly clayey; medium to very coarse grained; subangular to rounded; moderately sorted; quartz; 15% glauconite; some feldspar; few flakes of muscovite.

Depth
(feet)

- 110-120 Sand- olive gray; medium grained, some coarse grains, few granules; subangular to rounded; well sorted; 60% glauconite; quartz; few shell fragments; muscovite.
- 120-130 As above plus some very coarse grains; 50% glauconite.
- 130-140 Sand- light olive gray; medium grained, 5% granules; subangular to rounded; moderately well sorted; quartz; 40% glauconite; 2% sandy limestone and shell fragments; few flakes of muscovite.
- 140-150 Sand and clay- olive light gray, very light gray; moderate clay; abundant sand; fine to medium grained, 3% granules; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 2% sandy limestone and shell fragments; few flakes of muscovite.
- 150-160 As above except no granules; 10% glauconite; some muscovite; few shell fragments.
- 160-170 Clay- light olive gray; moderate sand; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; some glauconite; muscovite; few shell fragments.
- 170-180 As above except abundant sand; some shell fragments.
- 180-190 Sand- olive light gray; abundant clay; fine grained; subangular to subrounded; well sorted; quartz; 10% glauconite; some shell fragments; muscovite.
- 190-200 Sand and clay- olive light gray; moderate clay; abundant sand; fine grained, some medium grains, some very coarse grains, 5% granules, few pebbles; subangular to rounded; moderately sorted; quartz; 15% glauconite; 10% shell fragments; some muscovite; few black phosphatic fragments.
- 200-210 Granules- light olive gray; moderate sand; fine to coarse grained, 10% pebbles; angular to subrounded; moderately sorted; quartz; 15% glauconite; 3% shell fragments; some feldspar; few flakes of muscovite.
- 210-220 As above except 20% pebbles.
- 220-230 Sand- off-white; coarse grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar; 3% glauconite; few shell fragments; muscovite.

Depth
(feet)

- 230-240 As above except some glauconite.
- 240-250 As above plus 5% pebbles.
- 250-260 Sand- light yellowish-brown; coarse to very coarse grained, 15% granules; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 260-270 As above except off-white.
- 270-280 Sand and granules- off-white; coarse to very coarse grained, 40% granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; some muscovite.
- 280-290 As above except coarse to very coarse grained, some granules; some glauconite.
- 290-300 As above except 5% granules; few shell fragments.
- 300-310 As above except yellowish-gray.
- 310-320 As above.
- 320-330 Sand- yellowish-gray; medium to coarse grained, some fine grains, 3% granules; subangular to subrounded; moderately sorted; quartz; feldspar; 5% glauconite; some muscovite.
- 330-340 Granules- yellowish-gray; abundant sand; medium to very coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; muscovite.
- 340-350 Sand- yellowish-gray; coarse to very coarse grained, 10% granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; muscovite.

Logged by: Michael T. Currie
May 23, 1979