

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: Roy Rogers Development Corporation Mailing Address: 1020 Elm Drive Mechanicsville, Virginia 23111

TENANT: "The Villages" #1 Mailing Address: P. O. Box 27186 Richmond, Virginia 23261

DRILLER: Sydnor Hydrodynamics, Incorporated Mailing Address: Richmond, Virginia 23261

WELL LOCATION: County Hanover Approx. 1500 <sup>feet</sup>/<sub>miles</sub> southwest (direction) of State Route 156 and 250 <sup>feet</sup>/<sub>miles</sub> east (direction) of Catlin Road

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

DATE STARTED: August 1, 1977 DATE COMPLETED: August 22, 1977

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 334 feet  
Completed at 330 feet

WATER LEVEL: Stands 160'1" feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pump  
Drawdown 90'6" feet  
Rate 32½ gal. per min.  
Duration 48 hrs., \_\_\_\_\_ min.

HOLE SIZE: 12 inches from 0 to 334 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
SCREEN SIZE: 4 inches from 284 to 324 feet

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

CASE SIZE: 6 inches from +2 to 284 feet  
4 inches from 324 to 330 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

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

GROUTING: Method yes  
Material \_\_\_\_\_ Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes X No \_\_\_\_\_  
By: Froehling and Robertson (State Lab)  
DRILL CUTTINGS SAVED: Yes 33 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 by driller.

# LOG

FURNISHED BY: T. R. Vires

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	10	Brown and red clay	
10	20	Yellow clay with hard streaks	
20	47	Yellow clay	
47	155	Blue clay	
155	257	Clay, sand and gravel	
257	333	Sand, gravel and some clay	
333	334	Rock	

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

INTERVAL SHEET

C-189

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Well Repository No.: W-4960

Date rec'd: 11/18/77 Date Processed: 01/06/78

Sample Interval: from 0 to: 330

PROPERTY: Roy Rogers Development Corporation  
 (The Villages #1)

Number of samples: 33

COMPANY: Sydnor Hydrodynamics, Incorporated

Total Depth: 334'

COUNTY: Hanover

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	-	-	-	-
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	-	-	-	-
-	Washed and unwashed samples	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

(The Villages #1)  
OWNER : Roy Rogers Development Corporation      W# : 4960  
DRILLER: Sydnor Hydrodynamics                    C# : 189  
COUNTY : Hanover (Mechanicsville)            TOTAL DEPTH: 334'  
QUAD : Seven Pines

GEOLOGIC LOG

Depth  
(feet)

- 0-10      Sand- light brown; slightly clayey; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 10-20     Sand- dark yellowish-orange; moderate clay; medium to coarse grained, 7% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 20-30     Sand- dark yellowish-orange; moderate clay- dark yellowish-orange, light olive gray, light brown; medium to coarse grained, some fine grains, few granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; few flakes of muscovite.
- 30-40     Sand- light olive gray; moderate clay- light olive gray, dark yellowish-orange; fine to medium grained, some coarse grains, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; some ferricrete; few flakes of muscovite; few opaques.
- 40-50     As above plus some pebbles; 2% ferricrete; few grains of glauconite.
- 50-60     As above.
- 60-70     As above except 15% pebbles; poorly sorted.
- 70-80     Clay- light olive gray; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; few flakes of muscovite; few black phosphatic fragments.
- 80-90     Clay and sand- light olive gray; abundant clay; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 20% glauconite; some muscovite; few sandy limestone and shell fragments; few black phosphatic fragments.
- 90-100    As above except 25% glauconite; some sandy limestone and shell fragments.

(The Villages #1)

OWNER: Roy Rogers Development Corporation

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W#: 4960

Depth  
(feet)

- 100-110 Clay and sand- light olive gray; abundant clay; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; few flakes of muscovite; few black phosphatic fragments.
- 110-120 As above plus some light gray clay; some black phosphatic material; few shell fragments.
- 120-130 Sand- olive light gray; abundant clay- olive light gray, very light gray; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 7% glauconite; few flakes of muscovite; few black phosphatic fragments; few sandy limestone and shell fragments.
- 130-140 Clay- olive light gray, very light gray; moderate sand; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 3% glauconite; few shell fragments; muscovite.
- 140-150 As above except 2% shell fragments; forams scarce (inc. Robulus).
- 150-160 Sand and clay- olive light gray; moderate clay; abundant sand; fine to medium grained; subangular to rounded; well sorted; quartz; 15% glauconite; 3% shell fragments; few flakes of muscovite.
- 160-170 Sand- light olive gray; moderate clay; fine grained to gravel; subangular to subrounded; poorly sorted; quartz; 7% glauconite; 5% shell fragments; few flakes of muscovite.
- 170-180 As above except sand and gravel; 40% pebbles; 5% glauconite; some shell fragments.
- 180-190 Gravel- light olive gray; 5% granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.
- 190-200 As above except 15% granules; moderately sorted.
- 200-210 As above except few grains of glauconite.
- 210-220 Sand- light olive gray; coarse grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.

(The Villages #1)

OWNER: Roy Rogers Development Corporation

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W#: 4960

Depth  
(feet)

- 220-230 Gravel- light olive gray; some very coarse grains, 20% granules; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; few shell fragments; muscovite.
- 230-240 As above except granules and gravel; 50% granules; slightly clayey.
- 240-250 Sand- light olive gray; very coarse grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.
- 250-260 Sand- yellowish-gray; coarse to very coarse grained, some medium grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.
- 260-270 As above except 2% glauconite; few grains of garnet.
- 270-280 Sand and granules- yellowish-gray; coarse to very coarse grained, 35% granules; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 280-290 As above except sand; 15% granules.
- 290-300 As above except 10% granules.
- 300-310 As above plus some medium grains; few pebbles.
- 310-320 Sand- yellowish-gray; coarse grained to granular (25%), some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite; garnet.
- 320-330 As above except coarse to very coarse grained, 7% granules, few pebbles; moderately well sorted.
- 330-334 No sample.

Logged by: Michael T. Currie  
June 8, 1979