

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5139  
C-194

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: County of Hanover Mailing Address: Route 4, Box 62  
Ashland, Virginia 23005

TENANT: Totopotomy #6 Mailing Address: \_\_\_\_\_

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

WELL LOCATION: County Hanover Approx. 300 <sup>feet</sup>/<sub>miles</sub> east (direction) of \_\_\_\_\_  
Kitopenke St. - 1266 and 50 <sup>feet</sup>/<sub>miles</sub> north (direction) of Chotank - Rt. 1269

(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 5, 1977 DATE COMPLETED: August 20, 1977

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 210' feet

WATER LEVEL: Stands 24 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method \_\_\_\_\_  
Drawdown \_\_\_\_\_ feet  
Rate 1 gal. per min.  
Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

HOLE SIZE: 10 inches from 0 to 210 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

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

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

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

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal per min  
Depth of intake \_\_\_\_\_ feet

DRILL CUTTINGS SAVED: Yes 20 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. Casing and screen pulled; well abandoned.

# LOG

FURNISHED BY: John Mitchell

DATE: \_\_\_\_\_

2111 Magnolia Street  
Richmond, Virginia 23223

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 and red clay	#1 screen setting
10	20	Yellow and pink clay	145'-153' 158'-168'
20	50	Yellow clay and silty sand	180'-190'
50	60	Gray clay	Developed less than 1 gpm
60	80	Gray clay, shells, and sand	Static level 140'8"
80	150	Tough gray clay	#2 screen setting
150	155	Sand and coarse gravel	56'-76'
155	165	Gray clay	Developed less than 1 gpm
165	175	Gray clay and gravel	Static level 24'3½"
175	205	Brown clay, some sand and mica	Well abandoned and groute sealed
205	210	Gray and black slate	

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

INTERVAL SHEET

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Well Repository No.: W-5139

Date rec'd: 3/17/78 Date Processed: 5/15/78

Sample Interval: from 0 to: 210

PROPERTY: County of Hanover (Totopotomy #6)

Number of samples: 20

COMPANY: Sydnor Hydrodynamics

Total Depth: 210'

COUNTY: Hanover (Poindexters)

Oil or Gas: Water:x Exploratory:

From-To	From-To	From-To	From-To	From-To
0- 10	-	-	-	-
10- 20	-	-	-	-
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	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Washed and unwashed samples

(Topopotomy #6)  
OWNER : County of Hanover W# : 5139  
DRILLER: Sydnor Hydrodynamics C# : 194  
COUNTY : Hanover TOTAL DEPTH: 210'  
QUAD : Yellow Tavern

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Sand- dark yellowish-orange; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; some feldspar; few opaques.
- 10-20 Sand- pale red; moderate clay; moderate silt; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques.
- 20-30 Sand- dark yellowish-orange; moderate clay; medium to coarse grained, 3% granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; some ferricrete.
- 30-40 As above except medium grained, some coarse grains, few pebbles; well sorted.
- 40-50 Sand- grayish-orange; moderate clay; medium grained to granular, 7% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; few fragments of ferricrete.
- 50-60 Sand- light olive gray; abundant clay; slightly silty; fine to medium grained; subangular to subrounded; well sorted; quartz; some muscovite; few opaques.
- 60-70 Sand- yellowish-gray; fine grained, some medium grains, some coarse grains, few granules; subangular to subrounded; moderately well sorted; quartz; 7% shell fragments; some glauconite; few black phosphatic fragments; muscovite.
- 70-80 Sand- yellowish-gray; fine to coarse grained, some very coarse grains, few granules; subangular to subrounded; poorly sorted; quartz; 10% shell fragments; some opaques; few grains of glauconite; few black phosphatic fragments.
- 80-90 Sand and clay- olive light gray; moderate clay; abundant sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 3% shell fragments; some glauconite; few flakes of muscovite.
- 90-100 Clay- light olive gray; abundant sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 2% shell fragments; few grains of glauconite; muscovite.

(Topopotomy #6)  
OWNER: County of Hanover

W#: 5139

Depth  
(feet)

- 100-110 Clay and sand- olive light gray; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some shell fragments; some black phosphatic material; few grains of glauconite.
- 110-120 Clay- yellowish-gray; some silt; some fine to coarse grained quartz sand; some shell fragments; few black phosphatic fragments.
- 120-130 Clay- yellowish-gray; some fine to medium grained quartz sand; few shell fragments; few diatoms.
- 130-140 As above plus few black phosphatic fragments.
- 140-150 As above.
- 150-160 Gravel- light olive gray; some coarse grained sand, 20% granules; subangular to subrounded; poorly sorted; quartz; some feldspar; few black phosphatic fragments inc. shark's tooth; muscovite; few shell fragments; glauconite.
- 160-170 Gravel- multicolored; some granules; subangular to subrounded; well sorted; quartz; feldspar.
- 170-180 Sand- white; coarse grained, some medium grains, few granules; subangular to subrounded; well sorted; quartz; feldspar; some black phosphatic material; some glauconite; few shell fragments; garnet.
- 180-190 Sand- off white; slightly clayey; medium to very coarse grained, 5% granules; subangular to subrounded; moderately sorted; quartz; feldspar; some muscovite; some glauconite; few black phosphatic fragments; few shell fragments; biotite.
- 190-200 Granite (highly weathered)- light olive gray; slightly clayey; quartz; white potassic feldspar; 3% biotite; 3% muscovite.
- 200-210 As above except 10% biotite.

Logged by: Michael T. Currie  
July 9, 1979