

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5316
C-198

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: Cold Harbor Association #2 Mailing Address: 9135 A Derbyshire Road
Richmond, Virginia 23229

TENANT: _____ Mailing Address: _____

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

WELL LOCATION: County Hanover Approx. 500 feet south (direction) of
State Route 156 and 2,000 feet east (direction) of U.S. Highway 360

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

DATE STARTED: February 27, 1978 DATE COMPLETED: March 30, 1978

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 310' feet
(completed at 300')

WATER LEVEL: Stands 161'2 1/2" feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pump HOLE SIZE: 12 inches from 0 to 310 feet
Drawdown 37'5" feet _____ inches from _____ to _____ feet
Rate 70 gal. per min. _____ inches from _____ to _____ feet
Duration 48 hrs., _____ min. SCREEN SIZE: 6 inches from 216 to 236 feet
_____ inches from 244 to 249 feet
_____ inches from 280 to 295 feet

WATER ZONES: from _____ to _____ feet
_____ inches from _____ to _____ feet
from _____ to _____ feet
_____ inches from _____ to _____ feet
from _____ to _____ feet
CASE SIZE: 6 inches from +2 to 216 feet
_____ inches from 236 to 244 feet
_____ inches from 249 to 280 feet
_____ inches from 295 to 300 feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

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

WATER ANALYSIS AVAILABLE: Yes X No _____
By State Lab and Froehling and Robertson
DRILL CUTTINGS SAVED: Yes 31 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 logs by driller.

LOG

FURNISHED BY: Charles 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	3	Yellow clay	
3	5	Hard pan- silty sand	
5	17	Red- brown sand	
17	26	Coarse sand and gravel	
26	31	Brown clay	
31	95	Blue clay	
95	125	Dark gray clay	
125	155	Blue and gray clay with shells	
155	165	Black sand clay with shells	
165	178	Shell rock and gray sand	
178	180	Hard green clay	
180	183	Hard coarse sand	
183	185	Green clay	
185	250	Hard gravel and sand with some clay	
250	260	Yellow clay	
260	275	Hard light blue silty clay	
275	300	Hard white and gray sand clay	
300	307	Hard clay with mica	
307	310	Rock	

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

INTERVAL SHEET

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Well Repository No.: W-5316

Date rec'd: 8/28/78 Date Processed: 10/26/78

Sample Interval: from 0 to: 310

PROPERTY: Cold Harbor Association #2

Number of samples: 31

COMPANY: Sydnor Hydrodynamics

Total Depth: 310'

COUNTY: Hanover (Mechanicsville)

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	-	-	-	-
100-110	-	-	-	-
110-120	-	-	-	-
120-130	-	-	-	-
130-140	-	-	-	-
140-150	-	-	-	-
150-160	-	-	-	-
160-170	-	-	-	-
170-180	-	-	-	-
180-190	-	-	-	-
190-200	-	-	-	-
200-210	-	-	-	-
210-220	-	-	-	-
220-230	-	-	-	-
230-240	-	-	-	-
240-250	-	-	-	-
250-260	-	-	-	-
260-270	-	-	-	-
270-280	-	-	-	-
280-290	-	-	-	-
290-300	-	-	-	-
300-310	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

All intervals have both washed and unwashed samples

OWNER :	Cold Harbor Association #2	W# :	5316
DRILLER:	Sydnor Hydrodynamics, Inc.	C# :	198
COUNTY :	Hanover (Mechanicville)	TOTAL DEPTH:	310'
		QUAD :	Seven Pines

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand- dark yellowish-orange; slightly clayey; medium grained to granular, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
- 10-20 Sand and granules- grayish-orange; slightly clayey; coarse to very coarse grained, 50% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 20-30 As above except off-white; no clay; 40% granules.
- 30-40 Sand and clay- light olive gray; moderate clay; abundant sand; moderate silt; fine to medium grained, some granules; subangular to subrounded; moderately well sorted; quartz; 10% ferri-crete; few flakes of muscovite.
- 40-50 Sand- olive light gray; moderate clay; fine grained; subangular to subrounded; well sorted; quartz; some ferricrete; few flakes of muscovite.
- 50-60 { Clay- light olive gray; slightly silty; slightly sandy; fine grained; subangular to subrounded; well sorted; quartz; few grains of glauconite.
- 60-70 Clay- light olive gray; abundant sand; fine grained; subangular to subrounded; well sorted; quartz; some glauconite; few black phosphatic fragments.
- 70-80 Clay- light olive gray; slightly silty; slightly sandy; very fine to fine grained; subangular to subrounded; well sorted; quartz; few black phosphatic fragments; few grains of glauconite.
- 80-90 Clay- light olive gray; abundant sand; medium to very coarse grained, some fine grains; subangular to subrounded; moderately sorted; quartz; 2% black phosphatic material; some feldspar; some glauconite; few flakes of muscovite.
- 90-100 Clay- light olive gray; moderate silt; abundant sand; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; glauconite 40% of sand fraction; some black phosphatic material; muscovite.

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Depth
(feet)

- 100-110 Clay and sand- light olive gray; abundant clay- light olive gray, very light gray; moderate sand; medium grained, some fine grains; subangular to rounded; well sorted; quartz; glauconite 30% of sand fraction; some black phosphatic material; few flakes of muscovite.
- 110-120 As above except 40% glauconite; no black phosphatic material.
- 120-130 Sand- olive light gray; moderate clay- olive light gray, very light gray; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; 7% glauconite; some black phosphatic material inc. shark's tooth; some muscovite.
- 130-140 Clay- olive light gray, very light gray; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; glauconite 10% of sand fraction; some black phosphatic material; few grains of pyrite.
- 140-150 Sand- olive gray; abundant clay; fine grained, some coarse grains, few granules; subangular to subrounded; moderately sorted; quartz; 20% shell fragments; 7% glauconite; few flakes of muscovite; few black phosphatic fragments; pyrite; forams (inc. Robulus and Nodosaria).
- 150-160 Sand- olive gray; abundant clay; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 2% shell fragments; some muscovite; few black phosphatic fragments inc. shark's tooth; forams scarce (inc. Robulus).
- 160-170 Granules- light olive gray; slightly clayey; abundant sand; fine to coarse grained; angular to subangular; moderately sorted; quartz; 10% shell fragments; 3% glauconite; few flakes of muscovite.
- 170-180 Sand and granules- off white; very coarse grained, 35% granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 180-190 Granules- off white; moderate sand; coarse to very coarse grained, some pebbles; angular to subrounded; moderately sorted; quartz; feldspar; few shell fragments.
- 190-200 Granules- off white; slightly sandy; very coarse grained, few pebbles; subrounded; moderately well sorted; quartz; feldspar.

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Depth
(feet)

- 200-210 As above except moderate sand.
- 210-220 Sand and granules- off white; very coarse grained, 35% granules; subrounded; well sorted; quartz; feldspar.
- 220-230 As above except 50% granules; moderately well sorted.
- 230-240 As above.
- 240-250 Sand and granules- off white; coarse to very coarse grained, 5% pebbles; angular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 250-260 Granules- dusky yellow; slightly clayey; some very coarse grains, 15% pebbles; angular to subrounded; moderately well sorted; quartz; feldspar.
- 260-270 Sand- off white; slightly clayey; coarse grained to gravel; angular to subrounded; poorly sorted; quartz; feldspar.
- 270-280 As above except coarse grained to granular, 10% pebbles.
- 280-290 Sand- off white; coarse grained, some medium grains, some very coarse grains, 10% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 290-300 Sand and granules- off white; coarse to very coarse grained, 35% granules, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite.
- 300-310 As above except slightly clayey.

Logged by: Michael T. Currie
July 11, 1979