

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 3793
C#: 156

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: Sydnor Hydrodynamics, Inc. Mailing Address: P.O. Box 27186
Richmond, VA 23261

TENANT: Hanover Farm, Well #2 Mailing Address: _____

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: As above

WELL LOCATION: County Hanover Approx. 67 ^{feet}/_{miles} East (direction) of
Camille Drive (Rt. 1516) and 600 ^{feet}/_{miles} South (direction) of Route 1518

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

DATE STARTED: 10/12/72 DATE COMPLETED: 11/10/72

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 346 feet

WATER LEVEL: Stands 143 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible pump HOLE SIZE: 12-1/4 inches from 0 to 50 feet
Drawdown 105 feet 10 inches from 50 to 346 feet
Rate 22 gal. per min. _____ inches from _____ to _____ feet
Duration 24 hrs., _____ min.

WATER ZONES: from 223 to 228 feet
from 270 to 280 feet
from 290 to 300 feet
from 312 to 322 feet
from 322 to 342 feet

SCREEN SIZE: 6 inches from 223 to 228 feet
6 inches from 270 to 280 feet
6 inches from 290 to 300 feet
6 inches from 312 to 322 feet
6 inches from 332 to 342 feet

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

CASE SIZE: 6 inches from 42 to 223 feet
6 inches from 228 to 270 feet
6 inches from 280 to 290 feet
6 inches from 300 to 312 feet
6 inches from 322 to 332 feet
6 inches from 342 to 344 feet

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

GROUTING: Method Pressure
Material Cement & water depth 50 feet

WATER ANALYSIS AVAILABLE: Yes _____ No XX

DRILL CUTTINGS SAVED: 35
Yes XX 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 ran by driller.

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: 11/13/72

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 sand-clay	
10	20	Sand, gravel and some clay	
20	96	Blue-green clay and sand	
96	108	Blue clay	
108	117	Hard blue clay	
117	121	Brown clay	
121	154	Soft dark gray clay, some gravel	
154	166	Shells, black and gray sand	
166	202	Coarse gray sand and gravel	
202	206	Clay	
206	228	Hard gray sand and gravel	
228	230	Clay	
230	234	Gray sand	
234	257	Gray clay	
257	281	Coarse gray sand, hard and soft streaks with thin gray streaks.	
281	330	Sand and gravel with streaks of clay	
330	346	Tough gray sand clay, streaks of gravel	

(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#: 3793

Date rec'd 11/27/72 Date Processed: 8/7/73

C#: 156
 Sample Interval: from: 0 to: 346

PROPERTY: Sydnor Hydrodynamics
 (Hanover Farms #2)

Number of samples: 35

COMPANY: Sydnor Hydrodynamics

Total Depth: 346'

COUNTY: Hanover

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 - 30*	-	-
80 - 90	330 - 40*	-	-
90 - 100	340 - 46*	-	-
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*	-	-	-

* Unwashed only rest have washed and unwashed samples.

OWNER: Sydnor Hydrodynamics
(Hanover Farms #2)
DRILLER: Sydnor Hydrodynamics
COUNTY: Hanover

W#: 3793
C#: 156
TOTAL DEPTH: 346'
QUAD: Seven Pines

GEOLOGIC LOG

Depth
(feet)

- 0 - 10 Sand -- grayish orange; some slightly stained grains; slightly clayey; coarse grained to granular, some medium grains, 3% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 10 - 20 Sand -- yellowish gray; moderate clay - yellowish gray, dark yellowish orange; fine grained, some medium grains, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few opaques; muscovite.
- 20 - 30 Sand -- light olive gray; slightly clayey; fine to coarse grained, 10% granules, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar (granules, pebbles); some glauconite; few opaques; few black phosphatic fragments.
- 30 - 40 Clay and sand -- light olive gray; abundant clay; moderate sand; fine to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite (black, green, brown); few opaques; few grains of garnet.
- 40 - 50 Sand -- light olive gray; abundant clay; fine grained, few pebbles; subangular to subrounded; well sorted; quartz; feldspar (pebbles); few grains of glauconite; few black phosphatic fragments; biotite.
- 50 - 60 As above plus few shell fragments.
- 60 - 70 As above plus 3% granules, some pebbles; moderately well sorted.
- 70 - 80 Sand -- light olive gray; moderate clay; fine to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; 2% glauconite; some black phosphatic material; some feldspar; few flakes of muscovite; garnet.
- 80 - 90 Sand -- light olive gray; abundant clay -- light olive gray, light olive brown; medium to very coarse grained, 10% granules, 5% pebbles; subangular to rounded; poorly sorted; quartz; 10% glauconite; 7% black phosphatic material; 2% shell fragments; feldspar; few flakes of muscovite; garnet; bone fragment.
- 90 - 100 Sand -- light olive gray; moderate clay; medium to coarse grained, some fine grains, 10% granules, 3% pebbles; subangular to rounded; poorly sorted; quartz; 25% glauconite; 5% black phosphatic material; feldspar; some muscovite; few shell fragments; forams (inc. Robulus and Buccella); few grains of garnet.

GEOLOGIC LOGDepth
(feet)

- 100 - 110 As above except some shell fragments.
- 110 - 120 Sand -- light olive gray; moderate clay - light olive gray, moderate orange pink; medium grained to gravel; subangular to rounded; poorly sorted; quartz; 15% glauconite; 7% black phosphatic material; some muscovite; some shell fragments; forams rare (inc. Robulus).
- 120 - 130 Gravel and sand -- olive light gray; abundant clay - olive light gray, moderate orange pink; very fine to fine grained, 60% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 3% glauconite; 3% black phosphatic material; some muscovite; some shell fragments.
- 130 - 140 As above except sand; 15% pebbles; 20% glauconite.
- 140 - 150 Sand -- olive light gray; moderate clay; fine grained, some medium grains, 3% granules, 5% pebbles; subangular to subrounded; moderately sorted; quartz; 10% shell fragments; 3% black phosphatic material; some muscovite; forams (inc. Nodosaria).
- 150 - 160 Coquina -- light gray; slightly clayey; 97% limestone and shell fragments; some quartz; glauconite; few black phosphatic fragments.
- 160 - 170 Sand and granules -- light olive gray; very coarse grained, 40% granules; subrounded; well sorted; quartz; feldspar; some glauconite; some shell fragments; muscovite.
- 170 - 180 As above plus few pebbles; moderately well sorted.
- 180 - 190 As above except 2% pebbles.
- 190 - 200 Sand and gravel -- light olive gray; very coarse grained to granular, 40% pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 200 - 210 As above except sand; coarse grained to gravel (15%).
- 210 - 220 As above except very coarse grained to gravel (30%).
- 220 - 230 As above.
- 230 - 240 Gravel -- light olive gray; abundant sand; coarse grained to granular; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 240 - 250 Granules and gravel -- light olive gray; some very coarse grained sand, 60% granules, 40% gravel; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.

Depth
(feet)

- 250 - 260 Sand -- light olive gray; slightly clayey; coarse grained to granular, some medium grains, some pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite; few grains of garnet; muscovite; biotite.
- 260 - 270 Granules -- light olive gray; slightly clayey; some coarse to very coarse grained sand, 20% pebbles; subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite; glauconite.
- 270 - 280 As above except some glauconite; few shell fragments.
- 280 - 290 As above.
- 290 - 300 Sand -- light olive gray; medium to coarse grained, 10% granules, 3% pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; few shell fragments; muscovite.
- 300 - 310 Gravel -- light olive gray; some coarse grains, 25% granules; subrounded; moderately well sorted; quartz; feldspar; few shell fragments; muscovite.
- 310 - 320 As above except granules and gravel, 50% granules; moderately sorted.
- 320 - 330 As above.
- 330 - 340 Sand -- light olive gray; coarse grained to gravel (20%); subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 340 - 346 Sand and gravel -- light olive gray; slightly clayey; coarse grained to granular, some fine grains, 40% gravel; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; muscovite; garnet.

NOTE: Samples 210 - 346 are unwashed only.

Logged by: Michael T. Currie
Jan. 30, 1979