

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4391
C-179

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, Incorporated Mailing Address: 2111 Magnolia Street
Richmond, Virginia 23223

TENANT: Mayfield Farms #3 Mailing Address: _____

DRILLER: Sydnor Hydrodynamics Mailing Address: Same as above

WELL LOCATION: County Hanover Approx. 1485 ^{feet}/_{miles} southwest (direction) of
State Road 640 and 100 ^{feet}/_{miles} southeast (direction) of State Road 627

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

DATE STARTED: March 18, 1975 DATE COMPLETED: April 22, 1975

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 320 feet

WATER LEVEL: Stands 186 feet below surface OR Completed at 300 feet
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pump
Drawdown 16 feet
Rate 40 gal. per min.
Duration 48 hrs., _____ min.

HOLE SIZE: 12 1/4 inches from 0 to 320 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
SCREEN SIZE: 6 inches from 206 to 276 feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
CASE SIZE: 6 inches from +2 to 206 feet
6 inches from 276 to 300 feet
_____ inches from _____ to _____ feet

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

GROUTING: Method yes
Material _____ Depth 50 feet

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

PUMP: Type _____
Capacity _____ gal. per min.
Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes No _____
By: State Lab
DRILL CUTTINGS SAVED: Yes 32 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.

LOG

FURNISHED BY: Charles Mitchell

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	15	Hard brown clay	
15	23	Mixed colors of clay- brown, red, pink, and white	
23	35	Brown sand clay with some gravel	
35	43	Brown gravel	
43	46	Brown clay	
46	60	Brown gravel	
60	68	Brown clay	
68	150	Blue clay	
150	152	Hard streak-like rock	
152	175	Dark gray clay	
175	200	Gray sand clay and clay streaks	
200	217	Gray clay and shells	
217	237	Hard gray sand	
237	247	Soft gray sand	
247	252	Hard gray sand	
252	255	Green clay	
255	265	Gray sand	
265	280	Hard gray sand	
280	300	Hard green clay	
300	310	Hard green clay, some white	
310	316	Gray, green, and white clay	
316	320	Soft gray granite	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No.: W-4391

Date rec'd: 07/01/75 Date Processed: 07/01/76

Sample Interval: from 0 to: 320

PROPERTY: Sydnor Hydrodynamics
 (Mayfield Farms #3)

Number of samples: 32

COMPANY: Sydnor Hydrodynamics

Total Depth: 320'

COUNTY: Hanover (Ellerson)

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	-	-	-	-
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	-	-	-	-
-	Contains both washed and unwashed samples	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

(Mayfield Farms #3)
OWNER : Sydnor Hydrodynamics
DRILLER: Sydnor Hydrodynamics
COUNTY : Hanover (Ellerson)

W# : 4391
C# : 179
TOTAL DEPTH: 320'
QUAD : Yellow Tavern

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand- dark yellowish-orange; slightly clayey; very fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 10-20 Sand- dark yellowish-orange; slightly clayey; slightly silty; very fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few flakes of biotite.
- 20-30 As above plus some moderately to heavily stained grains; some ferricrete.
- 30-40 Sand- grayish-orange; slightly clayey; medium grained to gravel (20%), some fine grains; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; few ferricrete fragments.
- 40-50 As above.
- 50-60 Gravel- grayish-orange; slightly sandy; coarse grained to granular; subrounded; moderately sorted; quartz; feldspar; few opaques.
- 60-70 Sand and gravel- grayish-orange; coarse grained to granular, some medium grains, 35% gravel; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
- 70-80 As above except yellowish-gray; some light olive gray clay.
- 80-90 Sand- light olive gray; slightly clayey; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; some feldspar; few opaques; few grains of glauconite.
- 90-100 Sand- light olive gray; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; few opaques; glauconite; garnet; muscovite.
- 100-110 As above plus some fine grains; some opaques; no glauconite.
- 110-120 As above except no clay.

Depth
(feet)

- 120-130 Sand- light olive gray; moderate clay; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; few opaques; muscovite.
- 130-140 As above plus some fine grains; few black phosphatic fragments.
- 140-150 Sand- light olive gray; moderate clay; fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; 15% glauconite; some black phosphatic material; some feldspar; few limestone fragments; few grains of garnet; muscovite.
- 150-160 As above plus few grains of pyrite; no feldspar.
- 160-170 As above plus shark's teeth.
- 170-180 Sand- olive light gray; moderate clay- olive light gray, white, moderate orange pink; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; 2% black phosphatic material; some glauconite; few flakes of muscovite; forams rare (inc. Nodosaria).
- 180-190 As above except 5% glauconite; some black phosphatic material; no Nodosaria.
- 190-200 Sand- olive light gray; moderate clay- olive light gray, light gray; fine to medium grained, some coarse grains, few granules; subangular to subrounded; moderately sorted; quartz; 7% glauconite; some black phosphatic material; some limestone and shell fragments; few flakes of muscovite.
- 200-210 Sand- olive light gray; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 10% glauconite; 7% shell fragments; few limestone fragments; few flakes of muscovite; feldspar.
- 210-220 Sand- off-white; coarse grained, some medium grains; subangular to subrounded; well sorted; quartz; feldspar; 3% glauconite; few shell fragments; muscovite.
- 220-230 Sand- off-white; coarse grained to granular; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; few shell fragments; muscovite.

(Mayfield Farms #3)

OWNER: Sydnor Hydrodynamics

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W#: 4391

Depth
(feet)

- 230-240 As above plus some fine grains, some medium grains; poorly sorted.
- 240-250 Sand- off-white; coarse grained to granular, some medium grains; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 250-260 Sand- off-white; very coarse grained to granular; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 260-270 As above except coarse grained to granular; moderately sorted.
- 270-280 As above.
- 280-290 Sand and granules- yellowish-gray; coarse to very coarse grained, 35% granules; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 290-300 Gravel- yellowish-gray; moderately sandy; coarse to very coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 300-310 As above except slightly clayey; some granules; few shell fragments.
- 310-320 Sand- off-white; coarse grained to granular, some fine grains, some medium grains; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; muscovite.

Logged by: Michael T. Currie
May 29, 1979