

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 2479
C#: 62

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

Operations Division

OWNER: Sydnor Hydrodynamics, Inc.

Mailing Address: 1305 Brook Rd., Richmond, VA

TENANT: Ferry Farms well # 7

Mailing Address: Fredericksburg, VA

DRILLER: Sydnor Hydrodynamics, Inc.

Mailing Address: 1305 Brook Rd., Richmond, VA

WELL LOCATION: County Stafford

Approx. 50 ^{feet} ~~miles~~ southwest (direction) of

State Road 1120 and 50 ^{feet} ~~miles~~ northwest (direction) of State Road 1121

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

DATE STARTED: 1/2/69

DATE COMPLETED: 1/22/69

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 352 feet
(completed at 316')

WATER LEVEL: Stands 101 feet below surface OR
has NATURAL flow of _____ gallons per minute

YIELD TEST: Method Airlift

HOLE SIZE: 12 inches from 0 to 352 feet

Drawdown 94 feet

Rate 45 gal. per min.

Duration 5 hrs., _____ min.

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 200 to 210 feet

6 236 246

6 inches from 284 to 294 feet

6 inches from 304 to 314 feet

WATER ZONES: from 200 to 210 feet

236 246

from 284 to 294 feet

from 304 to 314 feet

CASE SIZE: 6 inches from +2 to 200 feet

6 210 236

6 inches from 246 to 284 feet

6 294 304

6 inches from 314 to 316 feet

WATER: Color Clear Taste _____

Odor None Temp. _____ °F

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 _____

Capacity _____ gal per min

DRILL CUTTINGS SAVED: 35 Yes X 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 log ran by driller

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

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	Gravel, sand and clay mixed	
10	20	Gravel & clay	
20	35	White, yellow clay and gravel	
35	50	Yellow clay and black sand	
50	60	Mostly white clay	
60	67	Gray, white clay and sand mixed	
67	71	Gravel and clay mixed	
71	80	Lot of sand with white clay	
80	90	Hard white gray sand and clay	
90	100	Gray sand-some clay	
100	110	Gray clay with brown and some sand	
110	125	Gray, white, brown clay mixed with streaks of sand	
125	145	Sand with gray & white clay mixed	
145	160	Gray sand with white clay mixed	
160	180	Coarse sand and some clay - hard	
180	195	Gray clay and sand mixed	
195	215	Gray, white and brown clay with sand mixed	
215	230	Hard red clay	
230	235	Red clay	
235	240	Red clay and white sandy clay mixed	
240	255	White clay with a lot of gray & black sand mixed	
255	285	Red and gray clay mixed with some sand	
285	300	Gray and white clay mixed with black sand	
300	340	Gray sand and gray clay mixed	
340	350	Mostly clay - some sand	
350	352	Rock-granite	

(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#: 2479
 C#: 62

Date rec'd: 3/27/69 Date Processed:

Sample Interval: from:-to:--
 0 350

PROPERTY: Sydnor Hydrodynamics
 (Ferry Farms #7)

Number of samples: 35

COMPANY: Sydnor Hydrodynamics

Total Depth: 352

COUNTY: Stafford (Falmouth)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 260	-	-
10 - 20	260 - 270	-	-
20 - 30	270 - 280	-	-
30 - 40	280 - 290	-	-
40 - 50	290 - 300	-	-
50 - 60	300 - 310	-	-
60 - 70	310 - 320	-	-
70 - 80	320 - 330	-	-
80 - 90	330 - 340	-	-
90 - 100	340 - 350	-	-
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	-	-	-

* All intervals have both washed & unwashed samples

OWNER: Sydnor Hydrodynamics
(Ferry Farms #7)
DRILLER: Sydnor Hydrodynamics
COUNTY: Stafford (Falmouth)

W#: 2479
C#: 62
TOTAL DEPTH: 352'
QUAD.: Fredericksburg

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand and granules — dark yellowish orange; 50% moderately stained grains; slightly clayey; coarse to very coarse grained, 60% granules; subangular to subrounded; moderately sorted; quartz; feldspar; 3% opaques; few flakes of muscovite.
- 10-20 Granules — multicolored; some stained grains; subangular to subrounded; well sorted; quartz; feldspar.
- 20-30 Sand and granules — white, dark yellowish orange; slightly clayey; fine to medium grained, 40% moderately to heavily stained granules, some angular pebbles; angular to subangular; poorly sorted; quartz; feldspar; 2% opaques; some ferricrete.
- 30-40 Sand — grayish orange; abundant clay; fine to medium grained, 15% granules, few pebbles; subangular; moderately sorted; quartz; 2% glauconite; 2% ferricrete; some opaques.
- 40-50 Sand — grayish orange; moderate clay; fine to coarse grained, 3% granules; subangular to rounded; moderately sorted; quartz; 15% glauconite (green, brown); some ferricrete; few opaques.
- 50-60 Sand — grayish orange; moderate clay; medium grained, some fine grains, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite (brown, green); few flakes of muscovite.
- 60-70 As above plus some light olive gray clay; some glauconite.
- 70-80 Sand — yellowish gray; slightly clayey; coarse grained to granular, some medium grains; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; few opaques.
- 80-90 As above (washed sample only).
- 90-100 As above plus some fine grains; poorly sorted.
- 100-110 Sand and gravel — pale yellowish brown; slightly clayey; medium to coarse grained, some granules, 40% pebbles; angular to subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite.
- 110-120 Sand and clay — light brown; moderate clay; abundant sand; medium to very coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 120-130 Sand — yellowish gray; slightly clayey; medium to coarse ground, some very coarse grains, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.

Depth
(feet)

- 130-140 As above except moderate clay.
- 140-150 Sand — yellowish gray; moderate clay; medium grained, some fine grains; subangular to subrounded; well sorted; quartz; feldspar; some opaques.
- 150-160 Sand — yellowish gray; slightly clayey; medium to very coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; few flakes of muscovite.
- 160-170 As above except coarse to very coarse grained, some medium grained, some granules.
- 170-180 Sand and granules — off white; medium to coarse grained, 50% granules; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; few flakes of muscovite.
- 180-190 Sand — yellowish gray; some moderately stained grains; moderate clay; medium grained to gravel (20%), some fine grains; subangular to subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite; few opaques.
- 190-200 As above except 35% gravel; some opaques.
- 200-210 Sand — yellowish gray; moderate clay; medium to coarse grained, 15% granules, some pebbles; subangular to subrounded; moderately well sorted; quartz; white potassic feldspar; pink microcline; few opaques.
- 210-220 Sand — yellowish gray; moderate clay; medium to coarse grained, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; few flakes of muscovite.
- 220-230 Sand and clay — light brown; moderate clay; abundant sand; medium to coarse grained, 3% granules, some pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques; few grains of glauconite.
- 230-240 Sand — very pale yellowish brown; moderate clay; medium to coarse grained, some granules, some pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 240-250 As above plus some fine grains; moderately sorted; no glauconite.
- 250-260 As above plus few grains of glauconite.
- 260-270 As above except 2% opaques.
- 270-280 Sand — very pale yellowish brown; abundant clay; medium to coarse grained, 15% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; few grains of glauconite.
- 280-290 Sand — very pale yellowish brown; moderate clay; medium grained, some fine grains, some coarse grains, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques.

Depth
(feet)

- 290-300 Sand — yellowish gray; moderate clay; medium to coarse grained, some fine grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 300-310 Sand — yellowish gray; moderate clay; medium to very coarse grained, 5% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 310-320 Sand — very pale yellowish brown; slightly clayey; medium to very coarse grained, some fine grains, 7% granules; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; few flakes of muscovite.
- 320-330 Sand — very pale yellowish brown; abundant clay; medium grained to granular; subangular to subrounded; poorly sorted; quartz; feldspar; few flakes of muscovite; garnet.
- 330-340 Granite (weathered) — light olive gray; moderate clay; quartz; white potassic feldspar; pink microcline; some weathered biotite; few flakes of muscovite.
- 340-350 Granite (weathered) — dusky yellow gray; moderate clay; quartz; pink microcline; white potassic feldspar; some biotite; few grains of magnetite; hornblende.
- 350-352 No sample

Logged by: Michael T. Currie
March 15, 1979

OWNER: Sydnor Hydrodynamics
(Ferry Farms #7)

W# 2479

C# 62

Total Depth: 352'

GEOLOGIC SUMMARY

<u>Depth</u> (feet)	<u>Thickness</u> (feet)	<u>Rock Unit</u>	<u>TIME ROCK UNIT</u>
0-30	30	Columbia Group	Pleistocene
30-70	40	Alquia Formation	Eocene-Cretaceous
70-330	260	Patuxent Formation	Cretaceous
330-350	20	Petersburg Granite	Paleozoic
350-352	2	No Sample	

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
March 26, 1979

