

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2480
C-73

MAILING ADDRESS:

B 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Sydnor Hydrodynamics, Inc., Operations Div Mailing Address: P. O. Box 1476- Richmond, Va.

TENANT: Fairview Beach, Well #2 Mailing Address: Fairview Beach, Va.

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Rd., Richmond, Va.

WELL LOCATION: County King George Approx. 52 ^{feet}~~miles~~ east (direction) of

11th Street in Fairview Beach and 63 ^{feet}~~miles~~ south (direction) of Riverview Ave.

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

DATE STARTED: 1/16/69 DATE COMPLETED: 2/4/69

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 507 feet

WATER LEVEL: Stands 36 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method air lift

Drawdown 111 feet

Rate 150 gal. per min.

Duration 10 hrs., 0 min.

WATER ZONES: from 308 to 318 feet

from 356 to 366 feet

from 458 to 478 feet

WATER: Color clear Taste _____

Odor none Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town XX School _____

Industry _____ Other _____

WATER ANALYSIS AVAILABLE: Yes XX No _____

DRILL CUTTINGS SAVED: Yes 34 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 ran by driller.

HOLE SIZE: 12-1/4 inches from 0 to 245 feet

9-7/8 inches from 245 to 507 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 4 inches from 308 to 318 feet

_____ inches from 356 to 366 feet

_____ inches from 458 to 478 feet

CASE SIZE: 7 OD inches from +2 to 308 feet

4 ID inches from 318 to 356 feet

4 inches from 366 to 458 feet

4 Wash Valve 478 480

GROUTING: Method pressure

Material cement & water Depth 50 feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: 2/6/69

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	2	Topsoil	
2	20	Brown sand	
20	42	Oyster shells	
42	132	Gray marl	
132	200	Gray sandy clay	
200	245	Brown clay	
245	297	Brown sandy clay	
297	320	Brown clay	
320	327	Gray sand	
327	355	Brown clay	
355	372	Gray sand	
372	402	Brown clay	
402	417	Blue sandy clay	
417	501	Brown sand	
501	507	Chalky clay	

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1

C-73
 Well Repository No: W-2480

Date rec'd: 3/27/69

Sample Interval: from 0 to:507'

PROPERTY: Sydnor Hydrodynamics, Inc.
 (Fairview Beach, Well #2)

Number of samples: 34

COMPANY: Sydnor Hydrodynamics, Inc.

Total Depth: 507'

COUNTY: King George (Fairview Beach)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 15	372 - 387	-	-
15 - 22 *	387 - 402	-	-
22 - 42	402 - 417	-	-
42 - 57 *	417 - 432	-	-
57 - 72	432 - 447 *	-	-
72 - 87	447 - 462	-	-
87 - 102	462 - 477	-	-
102 - 117 *	477 - 492	-	-
117 - 132 *	492 - 507	-	-
132 - 147 *	-	-	-
147 - 162	-	-	-
162 - 177	-	-	-
177 - 192	-	-	-
192 - 207	-	-	-
207 - 222	-	-	-
222 - 237 *	-	-	-
237 - 252 *	-	-	-
252 - 267 *	-	-	-
267 - 282 *	-	-	-
282 - 297 *	-	-	-
297 - 312 *	-	-	-
312 - 327 *	-	-	-
327 - 342 *	-	-	-
342 - 357	-	-	-
357 - 372	-	-	-

* Unwashed samples only; insufficient quantity to split.

Owner: Fairview Beach (Sydnor)
Driller: Sydnor
County: King George

W# 2480
C# 73
Total Depth: 507
Quad: King George
Elev: 37'

Depth
(feet)

WELL LOG

0-15 Sand - light yellow brown (10YR 4/4); medium to granule, subangular, moderate sorting.

15-22 Sand - moderate yellow brown (10YR 5/2); moderate clay; medium to granule, subangular, moderate sorting; rose quartz; rare shell fragments.

22-42 Sand - light olive gray (5Y 5/1); sparse clay; granules with some coarse, angular and subangular, moderate sorting; rare shell fragments.

42-87 Shell Gravel - light and dark gray; 90% shell fragments, 80% at 72-87; sparse clay, moderate at 72-87; sparse sand; fine with some larger grains, angular and subangular, poor sorting; Turritella; rare glauconite; mica.

87-117 Shell Gravel, Clay - light and dark gray; 50% shell fragments; abundant clay; fine to medium with some rounded pebbles, subangular, well sorted; rare glauconite; mica.

117-132 Sand - light olive gray (5Y 5/1); abundant clay; fine to coarse with some very coarse, subangular, moderate sorting; 10% glauconite; 10% shell fragments.

132-162 Sand - dark yellow brown (10YR 4/2); abundant clay; fine to granule, angular and subangular, poorly sorted; 10% glauconite; 3% to few shell fragments; plant debris.

162-192 Sand - pale yellow brown (10YR 6/2); abundant clay; fine with some rounded pebbles, subangular and angular, poorly sorted; 1-3% fine phosphate fragments, rare shell fragments; rose quartz.

192-207 Sand - pale yellowish brown (10YR 6/2); moderate clay; fine to very coarse, angular and subangular, moderate sorting; 10% glauconite; rare shell fragments; rose quartz; mica.

207-282 Sand - pale yellowish brown (10YR 6/2); abundant clay; fine to granule, subangular and angular, moderate sorting; 10% glauconite; rare shell fragments; rose quartz; mica.

292-312 Clay - (very) pale yellowish brown (10YR 7/2); moderately abundant sand; fine to coarse, subangular, moderate sorting; 1-3% glauconite; calcium carbonate powder from ground shells.

Owner: Fairview Beach (Sydnor) -2-

W# 2480

C# 73

Depth
(feet)

- 312-342 Sand - (very) pale yellowish brown (10YR 7/2); moderate to abundant clay; fine to coarse at 312-327 and to granules at 327-342, subangular, moderate sorting; coral; rose quartz; calcium carbonate powder from ground shells.
- 342-357 Sand - moderate yellow brown (10YR 5/4); abundant clay; fine to very coarse with some granules, subangular, moderate sorting; rare glauconite; rose quartz; mica.
- 357-417 Sand - pale yellowish brown (10YR 6/2); moderate clay with white and pale yellow brown clasts at 402-417; fine to coarse with few very coarse, subangular, moderate sorting; rare glauconite; rose quartz; mica.
- 417-507 Sand - pale yellowish brown (10YR 6/2); sparse clay at 432-447 and moderate from 447-507; fine to granule, angular and subangular, poor sorting; rare glauconite at 432-462; rose quartz; feldspar.

Logged by: J. K. Polzin
November 3, 1980

OWNER: Sydnor Hydrodynamics, Inc.
(Fairview Beach, Well #2)
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: King George (Fairview Beach)

W-2480
C- 73
TOTAL DEPTH-507'

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-42'	Columbia Group	Pleistocene
42-132'	Mattaponi Formation	Paleocene
132-507'	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
April 3, 1969