

OWNER: Holly Farms Poultry Ind., Well #3
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Accomack (Temperanceville)

VDMR: 2095
WWCR: 329
TOTAL DEPTH: 330'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-90')

- 0-7 Sand - tan, clayey; medium- to coarse-grained, fairly well-sorted, subrounded- to well-rounded; slightly feldspathic
- 7-20 Sand - brown, slightly clayey; medium- to very coarse-grained, with 15% granule gravel; subrounded to well-rounded; slightly feldspathic
- 20-30 Sand and Gravel - trace of clay; 50% very fine (2-6 mm), well-sorted, well-rounded gravel (quartz, and a few igneous rock fragments and nodules of dark-gray phosphorite); 50% medium- to very coarse-grained, moderately sorted, subrounded- to well-rounded sand; slightly to moderately feldspathic; garnet, epidote, and tourmaline present
- 30-40 " "
- 40-50 " "
- 50-60 Sand and Gravel - tan, clean; very coarse-grained sand grading into granule gravel; well-sorted, rounded; moderately feldspathic; a few phosphorite nodules
- 60-70 " medium-grained sand grading into granule gravel; moderately sorted
- 70-80 Sand - gray, slightly clayey, 15% granule gravel (quartz, with minor chert and phosphorite); medium- to very coarse-grained, fairly well-sorted (skewed coarse), subangular to rounded; feldspathic, slightly lithic
- 80-90 " "

YORKTOWN FORMATION (90-250')

- 90-100 Clay - gray, mottled yellow-brown, very sandy, 10% fine-grained (8-12 mm), well-sorted gravel; sand is fine-to coarse-grained, poorly sorted, poorly rounded; slightly feldspathic and micaceous; a few grains of light-green (decomposed) glauconite

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100-110	Sand - gray, uniformly moderately clayey, a few pebbles (10-20 mm) and fragments of larger pebbles (quartz and chert); fine-grained, well-sorted, angular; hornblende, magnetite, muscovite, decomposed glauconite, carbonaceous material, garnet, and feldspar present in small amounts; quartz is clear to greenish
110-120	" "
120-130	" "
130-140	" "
140-150	Gravel - fine (65%, 8-25 mm), rounded; matrix (35%) consists of very-fine to very coarse-grained, poorly-sorted, slightly glauconitic and feldspathic sand; a few fragments of shell and chert
150-160	" "
160-170	No sample
170-180	Sand - gray, moderately uniformly clayey, 15% coarse shell fragments and a few 10-12 mm pebbles; fine- to medium-grained, well-sorted, angular to subangular; very slightly glauconitic; traces of muscovite and feldspar
180-190	Sand - gray, slightly to moderately clayey, 10% fine (2-10 mm) gravel, 5% shell fragments; fine- to coarse-grained, rather poorly-sorted, variably rounded; 2-3 % glauconite; green-tinted quartz is common
190-200	" "
200-210	" 20% gravel (5-15 mm)
210-220	" 30% gravel (5-15 mm)
220-230	Sand and Shell - moderately clayey (gray, mottled yellowish-brown), 5% fine gravel; 30% pelecypod shell debris; 65% fine- to coarse-grained, poorly-sorted sand; slightly glauconitic
230-240	" "
240-250	" 15% fine (10-15 mm) gravel, 10% shell fragments

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CALVERT FORMATION (250-330')

250-260	Sand and Shell - greenish-gray, moderately clayey, 5% fine gravel; 45% coarse shell fragments; 55% fine- to medium-grained, fairly well-sorted, moderately-glauconitic (10%) sand
260-270	" "
270-280	" 50% shell, 30% gravel, 20% sand
280-290	" 30% shell, 10% gravel, 60% sand
290-300	" 40% shell, 5% gravel, 55% sand
300-310	Shell and Sand - gray, slightly to moderately clayey, 10% fine (6-10 mm) gravel; 70% shell fragments and fragments of sandstone (calcitic, fossiliferous, slightly glauconitic, slightly pyritic); 20% medium- to very coarse-grained, rounded, very-slightly glauconitic sand
310-320	" 60% shell, 30% sand
320-330	Sand and Shell - gray, slightly to moderately clayey; 50% coarse pelecypod shell debris; 50% very fine- to very coarse-grained, poorly sorted, variably rounded; 5% of sand is glauconite; traces of pyrite and phosphorite

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-90'	Columbia Group	Pleistocene
90-250'	Yorktown Formation	Late Miocene
250-330'	Calvert Formation	Middle Miocene

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
February 12, 1968

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR: 2095

WWCR: 329

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B-3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Holly Farms Poultry Industry, Inc. Mailing Address: P. O. Box 88, Wilkesboro, N. C.

TENANT: Plant site - Well #3 Mailing Address: Temperanceville, Virginia

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

WELL LOCATION: County Accomack Approx. 175 ^{feet} ~~miles~~ north (direction) of
of south property line and 2100 ^{feet} ~~miles~~ west (direction) of U. S. Hwy. 13

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

DATE STARTED: October 23, 1967 DATE COMPLETED: November 29, 1967

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 330 feet

WATER LEVEL: Stands 26' 2" feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Turbine
Drawdown 41' 5" feet
Rate 167 gal. per min.
Duration 7 hrs., _____ min.

HOLE SIZE: 22 inches from 0 to 74 feet
17 inches from 74 to 295 feet
9 7/8 inches from 295 to 320 feet

WATER ZONES: from see screen settings to _____ feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 8 inches from 138 to 146 feet
8 inches from 158 to 172 feet
6 inches from 200 to 212 feet
6 inches from 216 to 224 feet
6 inches from 234 to 242 feet
6 inches from 273 to 288 feet

WATER: Color Clear Taste OK
Odor None Temp. _____ °F

CASE SIZE: 8 inches from 0 to 138 feet
8 inches from 146 to 158 feet
8 inches from 172 to 198 feet
6 inches from 198 to 200 feet
6 inches from 212 to 216 feet
6 inches from 224 to 234 feet
6 inches from 242 to 273 feet

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

GROUTING: Method _____
6 Pressure 288 293
Material cement/water Depth 74 feet

WATER ANALYSIS AVAILABLE: Yes X No _____

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

DRILL CUTTINGS SAVED: Yes X 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

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: December 5, 1967

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	7	Clay and sand	
7	71	Sand and gravel	
71	135	Clay	
135	160	Soft sand, clay and gravel	
160	200	Sand, shells and soft clay	
200	245	Hard sand and shells	
245	249	Soft sand	
249	255	Hard clay	
255	265	Sand, clay and shells	
265	270	Hard clay and shells	
270	285	Rough shells and clay	
285	320	Clay and shell streaks	
320	330	?	

(Use additional forms if necessary)

INTERVAL SHEET

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WWCR: 329

VDMR Well No: 2095

Date rec'd: 1/24/68

Sample Interval: from 0 to: 330'

PROP: Holly Farms Poul. Ind.
(Temperanceville Plant, Well #3)

Number of samples: 32

COMP: Sydnor Hydrodynamics

Total Depth: 330'

COUNTY: County: Accomack
(Temperanceville)

Oil or Gas: WaterX Exploratory:

From-To	From-To	From-To	From-To
0 - 7	300 - 310	-	-
7 - 20	310 - 320	-	-
20 - 30	320 - 330	-	-
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	-	-	-
missing	-	-	-
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	-	-	-

All intervals have both washed and unwashed samples