

OWNER: Holly Farms Poultry Ind., Well #2  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Accomack (Temperanceville)

VDMR: 2094  
WWCR: 328  
TOTAL DEPTH: 332 1/2'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-110')

0-5	Sand - buff, moderately clayey; medium- to coarse-grained, fairly well-sorted, subrounded to rounded; slightly feldspathic
5-15	Sand - buff, clean; medium- to coarse-grained, fairly well-sorted, subrounded; moderately feldspathic; garnet and tourmaline present
15-25	" "
25-35	Sand - buff, clean; medium- to very coarse-grained, fairly well-sorted, subrounded to rounded; feldspathic; garnet and tourmaline present
35-48	" many grains with limonite staining
48-60	Sand - gray, clean; very coarse-grained, well-sorted, rounded; feldspathic; moderately lithic (chert, volcanics, schists); epidote and garnet common
60-70	Sand - buff, clean; coarse-grained, well-sorted, subrounded to rounded; moderately feldspathic; a few rock fragments; garnet and epidote present
70-80	Sand - gray, clean; coarse-grained, well-sorted, rounded to well-rounded; feldspathic
80-90	Sand - abundant matrix of brownish-gray clay, 5% fine gravel (2-8 mm); fine- to very coarse-grained, poorly sorted, variably rounded; feldspathic; traces of pyrite, glauconite, magnetite, garnet, muscovite, and chlorite; a few fragments in the coarser grades
90-100	Sand - gray, slightly clayey, 5% fine gravel (5-10 mm) fine- to very coarse-grained, rather poorly-sorted, variably rounded; feldspathic; a few grains of chert and light-green (decomposed) glauconite; epidote and garnet present
100-110	" "

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YORKTOWN FORMATION (110-230')

- 110-120 Sand - moderately-abundant matrix of gray and buff clays; fine- to coarse-grained, moderately sorted (skewed fine), poorly rounded; slightly to moderately feldspathic; traces of garnet, epidote and muscovite
- 120-130 " brownish-gray clay
- 130-140 Sand - abundant matrix of gray clay, locally brownish, 5% fine gravel, mostly granules with a few small pebbles; fine- to coarse-grained, moderately sorted (skewed fine), angular to rounded; small amounts feldspar and glauconite; traces of phosphorite and carbonaceous material
- 140-150 Sand - abundant matrix of blue-gray clay, a few small pebbles and large pelecypod shell fragments; fine-grained, fairly well-sorted, angular; clear to greenish quartz, with 5% coarser-grained, slightly-decomposed glauconite
- 150-160 Gravel - gray, clean; granule gravel (2-4 mm), well-sorted, rounded; a few weathered shell fragments; quartz, with a few rock fragments and nodules of phosphorite
- 160-170 " coarser grained (2-6 mm)
- 170-180 Gravel - 65% fine (6-12 mm), well-sorted, rounded gravel; 35% coarse- to very coarse-grained sand
- 180-190 " 35% fine- to coarse-grained, slightly glauconitic sand
- 190-200 Sand and Gravel - 70% fine- to very coarse-grained, poorly sorted, poorly rounded, slightly glauconitic sand; 30% fine (5-20 mm) gravel; a few shell fragments
- 200-210 " "
- 210-220 Sand, Gravel and Shell - brownish-gray, very-slightly clayey; 40% fine- to very coarse-grained, poorly sorted, very-slightly glauconitic sand; 30% fine (10 mm) rounded, quartzo-lithic gravel; 30% coarse shell fragments
- 220-230 " slightly clayey

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CALVERT FORMATION (230-332.5<sup>±</sup>)

230-240	Shell and Sand - gray, moderately clayey, a few well-rounded pebbles up to 20 mm; 60% coarse pelecypod shell fragments; 40% fine- to coarse-grained, moderately-sorted sand; 2-3% glauconite; traces of muscovite and pyrite; foraminifers rare
240-250	" 10% glauconite
250-260	Sand - greenish-gray, clayey, 15% shell fragments; fine- to coarse-grained, poorly sorted; 10% glauconite; a few foraminifers and ostracods; traces of pyrite, phosphorite, muscovite and garnet
260-270	" moderately clayey
270-280	Sand and Shell - greenish-gray, moderately clayey; 50% coarse pelecypod shell debris, including a few gastropods; 50% fine- to coarse-grained, poorly sorted, variably-rounded sand; 5% glauconite; minor pyrite and phosphorite
280-290	" "
290-300	" "
300-310	" "
310-325	Sand - blue-gray, moderately clayey, 15% shell fragments; medium-grained, well-sorted, subrounded to rounded; clear quartz, with traces of phosphorite, glauconite, and garnet
325-332 1/2	" "

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-110 <sup>±</sup>	Columbia Group	Pleistocene
110-230 <sup>±</sup>	Yorktown Formation	Late Miocene
230-332 1/2 <sup>±</sup>	Calvert Formation	Middle Miocene

Virginia Division of Mineral Resources  
Robert H. Teifke, Geologist  
February 9, 1968

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:  
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Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

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

TENANT: Plant Site Well No. 2 Mailing Address: Temperanceville, Virginia

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P. O. Box 1476, Richmond, Va.

WELL LOCATION: County Accomack Approx. 175 <sup>feet</sup>~~miles~~ North (direction) of south property line and 1100 <sup>feet</sup>~~miles~~ west (direction) of U. S. Hwy. 13  
1 mile south of Temperanceville, Virginia

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

DATE STARTED: 10/5/67 DATE COMPLETED: 11/22/67

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 332 1/2 feet

WATER LEVEL: Stands 25 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method turbine  
Drawdown 89 feet  
Rate 250 gal. per min.  
Duration 5 hrs., \_\_\_\_\_ min.

HOLE SIZE: 22 inches from 0 to 74 feet  
17 inches from 74 to 297 feet  
9 7/8 inches from 297 to 332 1/2 feet

WATER ZONES: ~~xxxx~~ see screen settings feet ----->  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 8 inches from 138 to 146 feet  
8 inches from 157 to 171 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 \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

CASE SIZE: 8 inches from 0 to 138 feet  
8 inches from 146 to 157 feet  
8 inches from 171 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 \_\_\_\_\_  
pressure 6 \_\_\_\_\_  
Material cement/water Depth 74 feet

WATER ANALYSIS AVAILABLE: Yes X No \_\_\_\_\_  
DRILL CUTTINGS SAVED: Yes X 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: 12/5/67

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	5	Clay and sand	
5	72	Sand with some gravel	
72	100	Blue clay	
100	160	Blue clay and sand streaks	
160	190	Gravel and shells	
190	200	Clay and shells	
200	212	Soft shells	
212	215	Hard shells	
215	230	Soft shells and sand	
230	255	Shells and blue clay	
255	265	Hard shells	
265	295	Soft shells and clay	
295	298	Hard shells	
298	300	Soft clay and shells	
300	310	Shell rock	
310	325	Shells and clay	
325	332 1/2	?	

(Use additional forms if necessary)

INTERVAL SHEET

WWCR: 328

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VDMR Well No: 2094

Date rec'd: 1/23/68

Sample Interval: from 0 to: 332-1/2

PROP: Holly Farms Poul. Ind.  
(Temperanceville Plant, Well #2)

Number of samples: 33

COMP: Sydnor Hydrodynamics

Total Depth: 332-1/2'

COUNTY: Accomack (Temperanceville)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To
0 - 5	300 - 310	-	-
5 - 15	310 - 325	-	-
15 - 25	325 - 332-1/2	-	-
25 - 35	-	-	-
35 - 48	-	-	-
48 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
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	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
280 - 290	-	-	-
290 - 300	-	-	-

All intervals have both washed and unwashed samples