

INTERVAL SHEET WWCR: 109

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VDMR Well No: 2197

Date rec'd: 6/5/68

Sample Interval: from 0 to: 320'

PROP: Sydnor Hydrodynamics, Inc.  
(Colonial Forest)

Number of samples: 31

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 320'

COUNTY: Hanover (Oak Forest)

Oil or Gas: Water:  Exploratory:

From-To	From-To	From-To	From-To
0 - 10	300-320	-	-
10 - 20	-	-	-
20 - 30 *	-	-	-
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	-	-	-
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 - 305	-	-	-

\* Unwashed samples only

OWNER: Sydnor Hydrodynamics, Inc. (Colonial Forest)  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Hanover (Oak Forest)

VDMR: 2197  
WWCR: 109  
TOTAL DEPTH : 320'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-30')

0-10 Sand - brown, moderately clayey; very fine- to coarse-grained, poorly sorted, angular to subrounded; slightly feldspathic

10-20 Sand - orange brown, clean; coarse- to very coarse-grained, well-sorted, subangular to rounded; iron-stained quartz, with minor amounts of rock fragments and feldspar

20-30 " "

CALVERT FORMATION (30-120')

30-40 Sand - gray, very slightly clayey; fine- to coarse-grained, moderately sorted, angular to subrounded; clear quartz, with accessory magnetite, and traces of epidote, muscovite, and kyanite

40-50 " "

50-60 " "

60-70 Sand - gray, slightly clayey; 5 percent decomposed shell fragments; fine-grained, fairly well-sorted, subangular; accessory hornblende and magnetite; traces of epidote and muscovite

70-80 " "

80-90 Sand - gray, slightly clayey, 5 - 10 percent decomposed shell fragments; fine-grained, well-sorted, angular to subangular; accessory garnet, epidote, muscovite and magnetite

90-100 " "

100-110 " "

110-120 " "

NANJEMOY FORMATION (120-190')

120-130 Sand - gray, slightly to moderately clayey, a few shell fragments (including gastropods); fine- to coarse-grained, moderately sorted; moderately glauconitic; accessory garnet

OWNER: Sydnor Hydrodynamics, Inc. (Colonial Forest)

130-140 Same as 120-130

140-150 Sand - gray, moderately clayey (locally yellow-brown), a few pelecypod and gastropod shell fragments; fine- to very fine-grained, well-sorted; angular quartz with 10 to 20 percent fresh glauconite; a few plant fragments, and fragments of bone phosphorite

150-160 " locally, a clayey micaceous silt

160-170 " "

170-180 " "

180-190 " "

MATTAPONI FORMATION (190-250')

190-200 Sand - gray, clayey, a few shell fragments; fine- to very fine-grained, well-sorted; 80 percent angular quartz, 20 percent fresh glauconite; minor muscovite and bone and nodular phosphorite; trace of pyrite

200-210 " "

210-220 " "

220-230 Sand - gray, moderately-clayey, 5 percent coarse-pelecypod - gastropod shell debris; fine- to very fine-grained, well-sorted; 70 percent clear and greenish angular quartz, 20 percent fresh glauconite, and 5 percent muscovite; minor amounts of pyrite and phosphorite; a very few foraminifers

230-240 " "

240-250 " fine- to coarse-grained, moderately sorted

PATUXENT FORMATION (250-320')

250-260 Sand and Gravel - gray, slightly clayey; 50 percent fine gravel (2-10 mm), and 50 percent coarse- to very coarse-grained sand; feldspathic; moderately lithic

260-270 " "

270-280 " "

280-290 " "

290-305 " 65 percent gravel, 35 percent sand

300-320 " "

OWNER: Sydnor Hydrodynamics, Inc. (Colonial Forest)

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-30'	Columbia Group	Pleistocene
30-120	Calvert Formation	Miocene
120-190	Nanjemoy Formation	Eocene
190-250	Mattaponi Formation	Paleocene - Late Cretaceous
250-320	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources  
Robert H. Teifke, Geologist  
July 30, 1968

Robert H. Teifke  
March 6, 1972



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UDMR-2197  
NWCR-109

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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, Inc. Mailing Address: 1305 Brook Rd., Richmond, Va.

TENANT: Colonial Forest Mailing Address: Hanover County, Va.

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

WELL LOCATION: County Hanover Approx. 1000 <sup>feet</sup>/<sub>miles</sub> east (direction) of state rd 651 and 800 <sup>feet</sup>/<sub>miles</sub> north (direction) of state road 643

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

DATE STARTED: 4/9/68 DATE COMPLETED: 4/16/68

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 320 feet

WATER LEVEL: Stands 140 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method submersible pump  
Drawdown 33 feet  
Rate 82 gal. per min.  
Duration 6 hrs., 0 min.

HOLE SIZE: 12 inches from 0 to 320 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
SCREEN SIZE: 6 inches from 250 to 300 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 250 to 300 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from +2 to 250 feet  
6 inches from 300 to 306 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color clear Taste OK  
Odor none Temp. ? °F

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

GROUTING: Method pressure  
Material cement, water Depth 100 feet

WATER ANALYSIS AVAILABLE: Yes  No \_\_\_\_\_

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal. per min

DRILL CUTTINGS SAVED: Yes  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: 32 samples backfilled from 320 to 306'



# LOG

FURNISHED BY: Sydnor Hydrodynamics

DATE: 4/16/68

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	1	Top soil	Colonial Forest
1	20	Clay	Sydnor Hydrodynamics, Inc.
20	40	Brown sand	Hanover
40	245	Sandy blue clay	1805 Brook
245	320	Sand - gravel mixed	4/16/68