

INTERVAL SHEET

Page 1 of 1

WWCR: 102
 VDMR Well No: 1815

Date rec'd: 2/20/67

Sample Interval: from 0 to 270

PROP: Sydnor Hydrodynamics
 (Holly Ridge #2)
 COMP: Sydnor Hydrodynamics, Inc.
 COUNTY: Hanover (Atlee)

Number of samples: 27
 Total Depth: 274
 Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
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 - 145 (No sample)	-	-	-
145 - 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 - 274 (No sample)	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Sydnor Hydrodynamics, Inc.
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Hanover (Atlee)

VDMR: 1815
WWCR: 102
TOTAL DEPTH: 274'

GEOLOGIC LOG

Depth (feet)

COLUMBIA GROUP (0-60')

0- 10	Sand — reddish-brown, slightly silty and moderately clayey; fine grained, well sorted, subangular; clay matrix is brightly variegated (browns, grays, reds, yellows).
10- 20	"
20- 30	"
30- 40	"
40- 50	"
50- 60	Sand and Gravel — yellowish-brown, slightly- to moderately-clayey; gravel (10%) is fine-grained, well sorted (2-6 mm), subangular to subrounded; sand (about 90%) is fine- to very coarse-grained, poorly sorted, variably rounded; moderately arkosic, especially the gravel fraction; quartz and feldspar stained yellow.

CALVERT FORMATION (60-170')

60- 70	Sand — gray, silty and clayey; fine-grained, fairly well-sorted, angular to subangular; a few pelecypod shell fragments.
70- 80	"
80- 90	Sand — gray, very clayey; fine-grained, fairly well-sorted, angular to subangular; slightly micaceous; small amount pelecypod shell debris.
90-100	"
100-110	"

- 110-120 Clay — gray, moderately sandy; sand is fine- to very fine-grained, well sorted, angular; small amount pelecypod shell debris.
- 120-130 "
- 130-140 "
- 140-145 No sample.
- 145-150 Clay — gray, moderately sandy; sand is fine- to very fine-grained, well sorted, angular; small amount pelecypod shell debris.
- 150-160 "
- 160-170 Sand — gray, clayey; fine-grained, fairly well-sorted, angular to subangular.

NANJEMOY FORMATION (170-180')

- 170-180 Clay — gray and pale-orange, very sandy; a few plant fragments and fish teeth.

AQUIA FORMATION (180-210')

- 180-190 Sand — gray, clayey, fine- to medium-grained, rather poorly-sorted; trace of glauconite; small amount pelecypod shell debris.
- 190-200 Sand — dark gray, clayey; fine- to very fine-grained, well sorted, angular; slightly glauconitic; very slightly micaceous; a few pelecypod shell fragments.
- 200-210 "

PATUXENT FORMATION (210-270')

- 210-220 Sand and Gravel — gray; very coarse-grained sand and very fine-grained gravel; well sorted, poorly rounded; moderately arkosic and slightly lithic; a few shell fragments.
- 220-230 "
- 230-240 " slightly clayey.
- 240-250 " "
- 250-260 " "

- 260-270 Gravel — gray; fine-grained, well sorted (2-10 mm), angular (broken rounds) to fairly well-rounded; quartz, with subordinate feldspar.
- 270-274 No sample.

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0- 60	Columbia Group	Pleistocene
60-170	Calvert Formation	Miocene
170-180	Nanjemoy Formation	Eocene
180-210	Aquia Formation	Eocene
210-270	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
March 8, 1967

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

WATER WELL COMPLETION REPORT

MAILING ADDRESS:
Box 3667, University Sta.
Charlottesville, Virginia

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

W-1815

OWNER: Sydnor Hydrodynamics, Inc. (Utilities) Mailing Address: 1305 Brook Rd., Richmond, Va.

TENANT: Well #2 Holly Ridge Mailing Address: _____

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

WELL LOCATION: County Hanover Approx. 1 ^{feet}/_{miles} east (direction) of
Route 301 and 788 ^{feet}/_{miles} south (direction) of 638

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

DATE STARTED: 1/26/67 DATE COMPLETED: 2/6/67

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 274 feet

WATER LEVEL: Stands 165 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible pump
Drawdown 15 feet
Rate 43 gal. per min.
Duration 5 hrs., 30 min.

HOLE SIZE: 10 inches from 0 to 274 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from 231 to 263 feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 6 inches from 231 to 251 feet
6 inches from 253 to 263 feet
_____ inches from _____ to _____ feet

WATER: Color Clear Taste O.K.
Odor _____ Temp. _____ °F

CASE SIZE: 6 inches from 0 to 231 feet
6 inches from 251 to 253 feet
6 inches from 263 to 269 feet

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

GROUTING: Method None
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes X No _____

PUMP: Type _____
Capacity _____ gal per min

DRILL CUTTINGS SAVED: 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: YELLOW TAVERN QUADRANGLE
ELEV.: 200'

HOLLY RIDGE S.D. # 1 : W-1791

OWNER : Sydnor Hydrodynamics, Inc.
 DIVER : Sydnor Hydrodynamics, Inc.
 COUNTY : Hanover (Atlas)

VDMR # 1815
 WWCR # 102
 TOTAL DEPTH : 274'

Depth (feet) GEOLOGIC LOG
 COLLIMBIA GROUP (0-60')

0-10' Sand - reddish-brown, slightly silty and moderately clayey; fine grained, well sorted, subangular; clay matrix is brightly variegated (browns, grays, reds, yellows).
 10-20' " "
 20-30' " "
 30-40' " "
 40-50' " "
 50-60' Sand and Gravel - yellowish-brown, slightly to moderately clayey; gravel (10%) is fine grained, well sorted (2-6 mm), subangular to subrounded; sand (about 90%) is fine- to very coarse-grained, poorly sorted, variably rounded; moderately arkose, especially the gravel fraction; quartz and feldspar stained yellow.

CALVERT FORMATION (60-120')

60-70' Sand - gray, silty and clayey; fine grained, fairly well-sorted, angular to subangular; a few pelecypod shell fragments.
 70-80' " "
 80-90' Sand - gray, very clayey; fine grained, fairly well-sorted, angular to subangular; slightly micaceous; small amount pelecypod shell debris.

90-100' " "

100-110' " "

110-120' Clay - gray, moderately sandy; sand is fine- to very fine-grained, well sorted, angular; small amount pelcepod shell debris.

120-130' " "

130-140' " "

140-145' No sample

145-150' Retype "description for 110-120' interval

150-160' " "

160-170' Sand - gray, clayey; fine grained, fairly well-sorted, angular to subangular.

NANJEMOY FORMATION (170-180')

170-180' Clay - gray and pale-orange, very sandy; a few plant fragments and fish teeth.

AQUIA FORMATION (180-210')

180-190' Sand - gray, clayey, fine- to medium-grained, rather poorly-sorted; trace of glauconite; small amount pelcepod shell debris.

190-200' Sand - dark gray, clayey; fine- to very fine-grained well sorted, angular; slightly glauconitic; very slightly micaceous; a few pelcepod shell fragments.

200-210' " "

PATUXENT FORMATION (210-270')

210-220' Sand ^{and} Gravel - gray; very coarse-grained sand and very fine-grained gravel; well sorted, poorly rounded; moderately arkosic and slightly lithic; a few shell fragments.

220-230'

" "

230-240'

" slightly clayey.

240-250'

" "

250-260'

" "

260-270' Gravel - gray; fine grained, well sorted (2-10 mm), angular (broken rounds) to fairly well rounded, quartz, with subordinate feldspar.

270-274'

No Sample

GEOLOGIC SUMMARY

Rock Unit

Age

0-60'

Columbia Group

Pleistocene

60-170'

Calvert Formation

Miocene

170-180'

Danvers Formation

Eocene

180-210'

Agua Formation

Eocene

210-270'

Potomac Formation

Early Cretaceous

VDNR

Robert H. Purke - Geologist

March 8, 1967