

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B 3667  
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Belle Haven Country Club Mailing Address: Alexandria, Virginia

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

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

WELL LOCATION: County Fairfax Approx. 900 <sup>feet</sup>~~miles~~ east (direction) of  
U. S. Hwy. 1 and 200 <sup>feet</sup>~~miles~~ north (direction) of Fort Hunt Rd.

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

DATE STARTED: 7/29/68 DATE COMPLETED: 9/19/68

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 430 feet

WATER LEVEL: Stands 180 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pump

Drawdown 57 feet

Rate 122 gal. per min.

Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

HOLE SIZE: 17 inches from 0 to 48 feet

15 inches from 48 to 410 feet

9 7/8 inches from 410 to 430 feet

SCREEN SIZE: 6 inches from 243 to 253 feet  
6 inches from 259 to 267 feet

(slotted pipe) 6 inches from 271 to 279 feet  
6 inches from 366 to 374 feet

6 inches from 384 to 396 feet

WATER ZONES: from same as screen to \_\_\_\_\_ feet  
settings

from \_\_\_\_\_ to \_\_\_\_\_ feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 16 inches from 0 to 48 feet

10 inches from +2 to 243 feet

6 inches from 243 to 401 feet

WATER: Color clear Taste ok

Odor none Temp. \_\_\_\_\_ °F

GROUTING: Method pressure

Material cement-water Depth 150 feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry \_\_\_\_\_ Other Golf Course

PUMP: Type turbine

Capacity \_\_\_\_\_ gal. per min

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

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: 16" and 63" normal log ran by driller.

# LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: 9/20/68

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	Fill dirt	
10	20	Black marl	
20	37	Clay and gravel	
37	60	Brown sandy clay	
60	132	Brown clay	
132	150	Gray shale	
150	162	Gray and brown clay	
162	227	Green and brown clay	
227	280	Gray sand	
280	357	Gray and brown clay	
357	429	Gray sand	
429	430	Bedrock	

INTERVAL SHEET

Page 1 of 1

WWCR: 704  
VDMR Well No: 2324

Date rec'd: 11/20/68

Sample Interval: from 0 to: 430'

PROP: Belle Haven Country Club

Number of samples: 42

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 430'

COUNTY: Fairfax (Alexandria)

Oil or Gas: Water:  Exploratory:

From-To	From-To	From-To	From-To
0 - 10	300 - 310	-	-
10 - 20	310 - 320	-	-
20 - 30	320 - 330	-	-
30 - 40	330 - 340	-	-
40 - 50	340 - 350	-	-
50 - 60	350 - 360	-	-
60 - 70	360 - 370	-	-
70 - 80	370 - 380	-	-
80 - 90	380 - 390	-	-
90 - 100	390 - 400	-	-
100 - 110	400 - 410	-	-
110 - 120	410 - 420	-	-
120 - 130	420 - 430	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
-	-	-	-
240 - 250	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
280 - 290	-	-	-
290 - 300	-	-	-

All intervals have both washed and unwashed samples

OWNER: Belle Haven Country Club  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Fairfax (Alexandria)

VDMR: 2324  
WWCR: 704  
TOTAL DEPTH: 430'

GEOLOGIC LOG

Depth  
in feet

POTOMAC GROUP (0-430')

0-10	Sand — brown, slightly clayey (5%); fine to coarse, moderately sorted, feldspathic
10-20	"
20-30	"
30-40	Sand — brown, very slightly clayey (3%); fine to very coarse, poorly sorted, angular; moderately feldspathic; iron-stained
40-50	Sand — reddish-brown, slightly clayey (7%); very coarse, moderately sorted, angular; lithic and slightly feldspathic
50-60	"
60-70	"
70-80	Gravel — 20% binder of brown clay; fine (2-6 mm), well-sorted, subrounded; lithic and slightly feldspathic
80-90	" 60% clay, 40% fine (2-10 mm) gravel
90-100	" 50% clay, 50% fine (2-10 mm) gravel
100-110	" 40% clay, 40% fine (2-10 mm) gravel, and 20% fine, well-sorted sand
110-120	Clay and gravel — 50% brown clay; 50% fine (2-10 mm), well-sorted, subangular to subrounded gravel; gravel consists of quartz and quartzite, with a few fragments of feldspar, limestone, and quartz-mica schist
120-130	" 30% clay, and 70% gravel

OWNER: Belle Haven Country Club

#2324

130-140	Sand — reddish-brown, slightly clayey (10%), 10% fine (2-5 mm) gravel; medium to very coarse, moderately sorted; feldspathic
140-150	"
150-160	"
160-170	Sand — reddish-brown, slightly clayey (10%), 25% fine (2-8 mm) gravel; fine to very coarse, poorly sorted; feldspathic
170-180	Sand and clay — 50% fine to coarse, moderately sorted, feldspathic sand; 40% brown clay; with 10% fine (2-6 mm) gravel
180-190	Sand and gravel — brown, clayey (15%); 45% fine to coarse, moderately sorted, feldspathic sand; 40% fine (2-8 mm) gravel
190-200	" 70% sand, 15% gravel
200-210	" 45% sand, 40% gravel
210-220	Sand — brown, moderately clayey (10%); fine to coarse, moderately sorted; feldspathic
220-230	Gravel — brown, slightly sandy (10%) and clayey (10%); fine (2-6 mm), well-sorted
230-240	No sample
240-250	Sand — grayish-brown, trace of clay (2-3%) and granule gravel (3-5%); sand is medium to very coarse, fairly well-sorted, subangular to subrounded; abundant blue quartz, moderately feldspathic
250-260	"
260-270	"
270-280	"
280-290	"

OWNER: Belle Haven Country Club

#2324

290-300	Sand and clay - 50% fine to coarse, rather poorly sorted, moderately feldspathic sand; 40% brown clay, with 10% fine (2-6 mm) gravel
300-310	Sand - brown, slightly clayey (10%); fine to coarse, moderately sorted; moderately feldspathic
310-320	"
320-330	" with 10% fine (2-10 mm) gravel
330-340	" with 5% fine (2-10 mm) gravel
340-350	Sand - brown, slightly to moderately clayey; fine to coarse, moderately sorted; moderately feldspathic
350-360	"
360-370	Sand - brown, slightly clayey (5%); coarse, well-sorted, subrounded; moderately feldspathic
370-380	"
380-390	"
390-400	"
400-410	Sand - gray, clean; medium to very coarse, moderately sorted, subrounded; abundant blue quartz, moderately feldspathic, garnet common
410-420	"
420-430	" coarse to very coarse, fairly well-sorted

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-430'	Potomac Group	Early Cretaceous

Virginia Division of Mineral Resources  
Robert H. Teifke, Geologist  
December 4, 1968