# COMMONWEALTH OF VIRGINIA

## DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

B- 3667 lottesville, VA 22903 WATER WELL COMPLETION REPORT

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS: McCormick Road Charlottesville, Virginia

SECTION AND ADMINISTRATION OF THE PROPERTY OF	
OWNER: Crater Detention Home Commission	Mailing Address: Petersburg, Va.
TENANT:	Mailing Address:
DRILLER: Sydnor Hydrodynamics, Inc.	Mailing Address: P. O. Box 27186, Richmond, Va.
WELL LOCATION: County Prince George	Approx. 1.2 miles West (direction) of
Route 156 and 2,500	feet North (direction) of Route 460
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TO COUNTY HIGHWAY OR OTHER MAP.)	pexita Aeto nue mont Aeto ec in
DATE STARTED: 3-11-74	
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 190 feet
WATER LEVEL: Stands 28 feet below	surface OR
has <u>NATURAL</u> flow of_	gallons per minute.
YIELD TEST: Method Submersible	HOLE SIZE: 8 inches from 0 to 190 feet
Drawdown 22 feet	tofeet
Rate 63 gal. per min.	inches fromtofeet
Duration 24 hrs., min.	SCREEN SIZE: 4 inches from 142 to 152 feet
WATER ZONES: from 142 to 152 feet	4inches from 174to184feet
from 174 to 184 feet	inches fromtofeet
fromtofeet	CASE SIZE: 4 inches from +2 to 142 feet
WATER: ColorTaste	4inches from 152_to 174feet
OdorTemp°F	inches fromtofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Pressure
FarmTownSchoolX	Material Cement-Water Depth 50 feet
IndustryOther	PUMP: Type
WATER ANALYSIS AVAILABLE: Yes X No	Capacitygal per min
DRILL CUTTINGS SAVED: Yes Yes No	Depth of intakefeet
(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT, SAMPLE BAGS ARE FURNISH	
R ARKS:	

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FURNISHED BY:\_\_\_\_\_\_DATE:\_\_\_\_\_

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED		REMARKS	
FROM	ŤΟ	(gravel, clay, etc., hardness, color	, etc.)	(water, caving, shot, screen, sample, etc.	
0	1	Top soil			
167	Eicholmd	Brown clay		$_{\rm HLLER}$ Sydner Hydrodynamics, Inc	
10	15	White clay	91	Prince Georg	
15	40 A admofi	Gray clay, shells	2,500	Route 156	
40	55	Gray rock and clay mixed		TO THE THE CONTRACT OF THE TRACTOR TO	
55	70	Gray clay and shells mixed		Aur fact as switch stage	
70	85	Gray clay		15 Stantig 3-11-74	
85 125	125	Gray sand		rer ce necut a c usas Rotan	
L25	190	Gray sand and gravel	willed days	282	
			and the state of	S-8517-1-2 - 2-1-2	
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9 8	L . S	Less sept. 18 18 8845	and an a	C1	
<u>.</u> .	5.2 1	Commission &		sorot.	
		BRILL TIRG WARROW Pressure		LE TO SUPPLYCIONAL AND FINE	
	_50	Mossage Cement-Water 6	X	5-1-1-2	
			X X		
			X	AI Lin cavas apple Yuo ali	
	1 1			EXPRESS SHEET BE CONTROLLED	
				SAN C	

(Use additional forms if necessary)

# VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

#### INTERVAL SHEET

Page 1 of 1 Well Repository No: W-4217

Date rec'd: 5/13/75 Date Processed: 7/9/75 Sample Interval: from: 0to:190

PROPERTY: Crater Detention Home Number of samples: 19

COMPANY: Sydnor Total Depth: 190'

COUNTY: Prince George (New Bohemia) Oil or Gas: Water:XExploratory:

From-To	From-To	From-To	From-To
0 - 10	3 <del></del>	=	-
10 _ 20	-	_	_
20 _ 30	E <b>—</b> S	_	-
30 _ 40	_	_	-
40 _ 50	Ξ,	-	4004
50 _ 60	7 <del>-</del>	-	-
60 - 70	-	_	-
70 _ 80	_	_	-
80 _ 90	_	=	=
90 - 100	-	-	-
100 _ 110	<del>-</del>	i <del>-</del> -	-
110 - 120	1,-	<del>-</del>	
120 _ 130	_	_	-
130 - 140	-		-
140 _ 150	-	ı <del>-</del>	-
150 _ 160	<b>-</b> ,	i <del>-</del>	i <del>-</del> i
160 - 170	:	-	-
170 _ 180	<del>-</del>	-	-
180 _ 190	-		-
. <del></del>	<del>-</del> /	-	
-	-	-	-
=	-	-	=
-	-	-	_
-	-	-	-
-	-	_	_

All intervals have both washed and unwashed samples.

OWNER: Crater Detention Home

DRILLER: Sydnor

Prince George (New Bohemia)

W#: 4217 C#: 180

TOTAL DEPTH: 190'

### GEOLOGIC LOG

Depth (feet)

COUNTY:

MOORINGS "UNIT" ( 0-20')

0-10 Sand - dark yellowish orange; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; some feldspar; few opaques.

10-20 As above except grayish orange; few grains of glauconite.

CALVERT FORMATION (20-80')

20-30 Shell hash and sand - light olive gray; slightly clayey; fine to medium grained; subrounded; moderately well sorted; 60% shell fragments inc. gastropods; quartz; spines; forams common (inc. Quinqueloculina); few black phosphatic fragments.

30-40 As above except some black phosphatic material; few grains of glauconite.

40-50 Sand - light olive gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 40% shell fragments; 2% spines; some black phosphatic material; some glauconite; forams (inc. Quinqueloculina and Robulus); ostracode.

50-60 Clay - olive light gray; slightly sandy; medium to coarse grained; subrounded; moderately well sorted; quartz; 3% shell fragments; few black phosphatic fragments; glauconite; forams (inc. Quinqueloculina and Buccella); ostracodes.

60-70 Clay - olive light gray; some shell fragments; few black phosphatic fragments; few grains of quartz.

70-80 Clay - olive light gray; few quartz grains.

PATUXENT FORMATION (80-190')

Sand - white; coarse to very coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar.

90-100 As above except 5% granules.

100-110 Sand - white; slightly clayey; coarse grained to granular, 10% pebbles; subrounded; moderately sorted; quartz; feldspar; pyrite.

110-120 As above except few pebbles.

120-130 As above.

7	Depth ( <u>feet</u> )		
	130-140	Sand - white; slightly clayey; very coarse grained to granular; 15% pebbles; subrounded; moderately well sorted; quartz; feldspar.	
	140-150	Sand and gravel-white; slightly clayey.	
	150-160	Gravel - off white; slightly clayey; moderate sand; very coarse grained to gravel; subangular to subrounded; moderately sorted; quartz; feldspar; garnet.	
	160-170	Sand - off white; slightly clayey; coarse grained to granular (40%), 10% pebbles; subrounded; moderately well sorted; quartz; feldspar.	
	170-180	As above except 30% granules; no pebbles.	
	180-190	As above except 20% granules; few pebbles.	

Logged by: Michael T. Currie

## GEOLOGIC SUMMARY

Thickness (feet)	Rock Unit	Time Rock Unit
20	Moorings "Unit"	Pleistocene
60	Calvert Formation	Miocene-Eocene
110+	Patuxent Formation	Cretaceous

Virginia Division of Mineral Resources David A. Hubbard, Jr., Geologist August 11, 1978