COMMONWEALTH			₩#: 4084 C#: 203
			ICE ADDRESS: cormick Road rlottesville, Virgin
OWNER: Daniel Construction Co.		P. O. Box 169, Hopew	vell, VA 2386
	· · · · · · · · · · · · · · · · · · ·	Bermuda Hundred, VA	
DRILLER: Sydnor Hydrodynamics, Inc.			
WELL LOCATION County Chesterfield			ac oc (direction)
Intersection 697 and 827 and 1		A DAMAGE AND AND AND AND AND A	26 41
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM T COUNTY HIGHWAY OR OTHER MAP.)			
DATE STARTED: 12-14-73	DATE COMPLE	TED: <u>1-23-74</u>	77 110
TYPE OF DRILL RIG USED	sand clay	TOTAL DEPTH_	215 fee
WATER LEVEL: Stands 27'5" feet below	surface <u>OR</u>		155 215
has <u>NATURAL</u> flow of_ YIELD TEST: Method <u>Submersible pump</u>		per minute. 8_inches from0_	to 215 fe
Drawdown feet		inches from	
Rate <u>53</u> gal. per min.		inches from	
Duration <u>24</u> hrs., min.		4inches from 130	
WATER ZONES: from to feet		inches from	tofe
fromtotofeet		inches from	tofe
fromtofeet	CASE SIZE.	4inches_from_+2	tofe
WATER: ColorTaste		4_inches from_170	)tofer
OdorTemp°F	-	inches from	tofe
WELL TO SUPPLY: (check one) Home	GROUTING	Method <u>Pressure</u>	
FarmTownSchool	Materia	Cement & Depti	h50fe <sup>,</sup>
IndustryXOther	PUMP: T	Water	
WATER ANALYSIS AVAILABLE Yes X No		Capacity	gal per mi
DRILL CUTTINGS SAVED: 22 Yes X NO (DRILL CUTTINGS SHOULD BE COLLECTED AT 10° FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	INTERVALS. THESE		
RL RKS Hole filled in 215-191'9".			
( Y10280790 - V	autor lonoitra boo	OF WELL) OVER	

COMMONWEALT BOOR VIRGINIA. DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

FURNISHED BY:\_

\_DATE:\_ LA253VIDV

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED		REMARKS	
FROM	TO TO	(gravel, clay, etc., hardness, color, etc.)		(water, caving, shot, screen, sample, etc.)	
0	14 4	Stiff yellow clay		FENANT: Phillip Morris Whee.	
2614 AV	20 10 1	Fine ground sand		SRILLER, Sydner Hydrodynamics, Inc	
20	26	Coarse brown sand		WELL LOCATION County Chesterfield	
26	41	Blue clay			
41	47 <sup>47</sup>			Intersection 697 and 827	
47	77	Sand and gravel		GIVE BRECTION 4ND DISTANCE IN FEET OR COUNTY HIGHWAY OR OTHER MAPT	
77	110	Hard rough gravel		DATE STARTED: 12-14-73	
110	125	Light green hard sand clay			
125	155	Hard white sand clay		TYPE OF DRILL RIG USED _ Rotary	
155	215	Hard gravel		WATER LEVEL: Stonds 2715"	
		stonim req anollop		ARUTAN 200	
5torn	01023	HOLE SIZE, 8. inclus from		VIELD TEST: Namos <u>Submersible p</u> u	
tin t				Drawdown 31	
(se)	01	most sedon.		Pote 53 gni par	
1891 0	01^	ECIREN SIZE 4 Inches (rom 13		0	
1007		movi bidin	70(ee)	WATER ZONES from 130 10	
1991	······································			01mon1	
0e#10	21.	CASE S12E: 4		from1	
1991 (ce)	7 <u>0  </u> 1 = <u>193</u>	41sches_from_1		Taloo HETAW	
19-01				0.40°7000	
		GROUTING Mathed Pressure		WELL TO SUPPLY LICKER WAR Home	
tost	02	Marerol <u>Cement 6</u> 00		EarmSchoo	
				ne fro X. yt laubul	
per min.	1ep		o MX	WATER ANALYSIS AVAILABLE.VM.	
t≆01				MILL CUTTINGS SAVED: 22 TH	
THIS	an ogaales C			ORILL OUTTINGS SHOULD BE COLLECTED OFFICE EXPRESS COLLECT SAMPLE BAG	
			. "2"	ARS' Hole filled in 215-19	

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

## INTERVAL SHEET

Page 1 of 1	Well Repository No: W#: 4084 C#: 203
Date rec'd: 2/25/74 Date Processed:	Sample Interval: from:/to:/
	10 215'
PROPERTY: Daniel Construction Co.	Number of samples: 22
(Phillip Morris Whse.)	
COMPANY: Sydnor Hydrodynamics	Total Depth: 215'
COUNTY: Chesterfield (Bermuda Hundred)	Oil or Gas: Water: Exploratory:

a - je

From-To	From-To	From-To	From-To
10 14			
10- 14	270	-	=
14- 20	-		-
20- 26	-	-	. –
26- 41	-	-	-
41- 52	-	-	
52- 62			
62- 69	_	-	_
69- 77	_	-	-
	-	-	-
77- 90	-	-	-
90- 100	-	-	-
100- 110	_	_	_
110- 120	_	-	_
120- 130			
130- 140			
140- 150		-	5 <b>-7</b> .
140- 150		-	-
150- 160	_	-	-
160- 170	_	-	_
170- 180	_	-	-
180- 190	_		
190- 200	204 	_	
190 200	* <u>20</u>		
200- 210	-	-	-
210- 215	-	-	-
-	-	-	-
_	_	-	-
_	-	-	-

Unwashed only

3.1

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OWNER:	Daniel Const. Co.	W#: 4084	
	(Phillip Morris Whse.)	C#: 203	
DRILLER:	Sydnor Hydrodynamics	TOTAL DEPTH: 215	ł
COUNTY:	Chesterfield (Bermuda Hundred)	QUAD.: Hopewell	
		ELEV.: 22'	

## GEOLOGIC LOG

Depth (feet)

113 1

- 0-10 No sample.
- 10-14 Clay grayish orange; moderate sand; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.

14-20 Sand — dark yellowish orange; moderately stained; medium to coarse grained; subangular to subrounded; well sorted; quartz; feldspar; some opaques; few grains of glauconite.

- 20-26 As above except medium to very coarse grained; moderately sorted.
- 26-41 Sand light olive gray; moderate clay; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; some feldspar; some glauconite; few grains of muscovite.
- 41-52 Sand grayish orange; moderately stained; medium to coarse grained; subangular to subrounded; well sorted; quartz; feldspar; 7% glauconite; few grains of garnet; few grains of jasper; muscovite.
- 52-62 Sand pale orange; some grains slightly stained; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 3% glauconite; few grains of garnet.
- 62-69 As above except white; few flakes of muscovite.
- 69-77 Gravel off white; 4-8 mm.; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 77-90 As above except 4-15 mm.
- 90-100 Sand and gravel light olive gray; slightly clayey; coarse grained to granular, some medium grains, 40% angular pebbles; angular to subangular; poorly sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 100-110 Gravel off white; slightly sandy; coarse grained to granular, 80% angular pebbles; angular to subangular; moderately well sorted; quartz; feldspar; few grains of garnet; muscovite.

110-120 As above.

OWNER: Daniel Const. Co. (Phillip Morris Whse.) -2-

W#: 4084

Depth (feet)

120-130 As 100-110 except slightly clayey; abundant sand; 60% pebbles.

- 130-140 Sand and gravel off white; slightly clayey; coarse grained to granular, 50% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 140-150 As above.
- 150-160 As above except light olive gray.
- 160-170 As above.
- 170-180 As above plus some muscovite.
- 180-190 Gravel light olive gray; slightly sandy; very coarse grained to granular, 85% pebbles; angular to subrounded; moderately well sorted; quartz; feldspar; few flakes of very weathered biotite.
- 190-200 Gravel medium gray; moderate clay (clasts); moderate sand; coarse grained to granular, 60% pebbles; subangular to subrounded; moderately sorted; guartz; feldspar; few flakes of muscovite.
- 200-210 As above except olive light gray.
- 210-215 As above.

Note: All samples are unwashed.

Logged by: Michael T. Currie

OWNER: Daniel Const. Co. W# 4084 GEOLOGIC SUMMARY Depth Thickness (fut) (feet) RockUnit TimeRockUnit 0-10 10 NoSample Norfolk Formation Pleistocene 1. Pleistocene 10-26 16 26-69 43 Patizent Formation Cretaceous 69-215 146 VIRGINIA DIVISION OF MINERAL RESOURCES Dwil Aithebbard, Jr., Geologist December 14, 1978 DONSA Type