	OF VIRGINIA C#: 207
MAILING ADDRESS: DIVISION OF MI BC 3667 JAMES L. CALV	ON AND ECONOMIC DEVELOPMENT NERAL RESOURCES OFFICE ADDRESS: ER, COMMISSIONER McCormick Road COMPLETION REPORT Charlottesville, Virginia
Hopewell Waste Water Treatment Plant OWNER: <u>Geo. Hyman Const. Co.</u>	_ Mailing Address: P. O. Box 307, Hopewell, VA. 23860
TENANT:	_ Mailing Address: And Lay And yera Ot
DRILLER: John Mitchell	2111 Magnolia Street Mailing Address: Richmond, VA. 23223
WELL LOCATION County Prince George	above SL feet Approx <u>30 xxxxxs 1900' NE Rt. 10 (direction)</u> of
1500' NW Baily's ck	feetfeet(direction)_of <u>Continental Can R</u> d
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM COUNTY HIGHWAY OR OTHER MAP.)	TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: 8-22-77	DATE COMPLETED: 8-31-77
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 210 feet
WATER LEVEL: Stands_27_feet below	
bas NATURAL flow of	gallons per minute.
YIELD TEST: Method _Airlift	HOLE SIZE: 9-7/8 inches from 0 to 210 feet
Drawdown <u>185</u> feet	inches fromtofeet
Rate <u>100</u> gal. per min.	inches fromtofeet
Duration <u>1</u> hrs., min.	SCREEN SIZE: 4 inches from 148 to 156 feet
WATER ZONES: from to feet	inches from <u>182</u> to <u>187</u> feet
from <u>182</u> to <u>187</u> feet	inches fromtofeet
fromtotofeet	CASE SIZE: _4inches from +2to 148feet
WATER: ColorTaste	
OdorTemp°F	
WELL TO SUPPLY: (check one) Home	GROUTING: Method
Farm Town School	Material Depth50 feet
IndustryOther_Municipality	PUMP: Type
WATER ANALYSIS AVAILABLE Yes No	Capacitygal per min
DRILL CUTTINGS SAVED: 21 YesNo	Depth of intakefeet
	INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS
R ARKS	
	(LOG OF WELL) OVER

# LOG

# FURNISHED BY \_\_\_\_\_ Sydnor Hydrodynamics

DATE:

FROM	TO	(gravel clay etc. hardness color		
	V		r, etc.)tasI9 3na	(water, caving, shot, screen, sample, etc.)
0	10	Gray and yellow sandy clay		TWAVET
10	20	Gray sand		DAILLER John Mitcehil
20	40	Brown clay, sand and gravel		
40	45	Gray clay		WELL LOGAT ON COLON Prints CC
45	60	Brown sand	- S	1500' MW Baily's ck
60	80	Hard shale, gravel and blue cl	ay	SAVE URECTION AND DOTATION IN FIFT IN COMMUTE HIGHWAY (M. OTRICH. MAR)
80	120	Gray sand and hard gray clay		GATE STARTED
120	140	Hard gray clay and gravel		
140	210	Sand, gravel with some gray cl Drills hard.	ay -	TYPE OF DRUL ATE DEED ROTAL WATER LEVEL: SIMUL 27
			The section g	<u>A. II [4 ] ≪ [4</u> ≥ ⇔ 4
1 m = 1		940 E 312 E 3 2/8 Prime Prime		VELO TEST MANA AIRMIN
1 1			New York	Ursed are185
1993			ň i l	
unt - àt	18		- .901	Burstyon. 1. Internal
17_1100	21		140 <u> </u>	WATER ZONES, invi. 147
1 m m <sup>1</sup>				(1901 <u>192</u> 10
· · · ·	2		1.6 <u>6</u> 1	8 s 8 s
1991	56 18			WATER: 00101
un 斗	87_1_19		÷	1007 tabl
				WELL TO SUPPLY LAND ON JUST
901			-1 1-1 111 -=	50 m
			lity	ndioinna anns an Annioirean
5 m - 1945	fup			WATER AWALYSIS AVAILABLE WILL
1497 218 C - 16	r newy n		<ol> <li>1.100 (1.10) (10)</li> </ol>	DRILL GUTTINGS SAVED 21 TWO. (DRILL CUTTINGS SHOLD RE GUTLETIGN DRIDL CUTTINGS SHOLD RE GUTLETIGN
			-	

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

### INTERVAL SHEET

Page 1 of 1	Well Repository No: W#: 4958
Date rec'd: 11/18/77 Date Processed: 1/6/78	C#: 207 Sample Interval: from:0 to:210
PROPERTY: Hopewell Waste Water Treatment Plant	Number of samples: 21
COMPANY: Sydnor Hydrodynamics	Total Depth: 210'
COUNTY: Prince George (Hopewell)	Oil or Gas: Water XExploratory:

5 5 35

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	<del></del> :	<del></del> .	—
110 - 120	—	-	-
120 - 130			-
130 - 140	-		-
140 - 150	-	-	-
150 - 160	-	-	
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	_	-
190 - 200	. –		-
200 210			
200 - 210		-	<del></del>
-	-	-	-
-	-	_	-
-	-	-	-
	-	-	-

Jashed and unwashed.

OWNER:	Hopewell Waste Water	
	Treatment Plant	
DRILLER:	Sydnor Hydrodynamics	
COUNTY:	Prince George (Hopewell)	

W#: 4958 C#: 207 TOTAL DEPTH: 210' QUAD.: Hopewell

#### GEOLOGIC LOG

Depth (feet)

- 0-10 Clay light yellowish gray; moderate sand; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 10-20 Sand pale yellow; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 3% opaques, few grains of glauconite.
- 20-30 Sand light grayish orange; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% opaques; muscovite.
- 30-40 Sand yellowish gray; slightly clayey; very coarse grained to granular, few pebbles; subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 40-50 Sand light olive gray, dark yellowish orange; slightly clayey; coarse to very coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques; few black phosphatic fragments.
- 50-60 As above plus few grains of glauconite.
- 60-70 Sand light olive gray; slightly clayey; coarse to very coarse grained, 15% granules; subrounded; moderately sorted; quartz; feldspar; few black phosphatic fragments; glauconite.
- 70-80 Clay and sand dusky yellow; abundant clay; moderate sand; coarse grained to granular, some angular pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 80-90 Sand off white; slightly clayey; coarse to very coarse grained; subrounded; well sorted; quartz; feldspar.
- 90-100 As above except 5% granules, few pebbles.
- 100-110 Sand off white; very coarse grained to granular; subrounded; well sorted; quartz; feldspar.
- 110-120 As above except coarse grained to granular; moderately well sorted.

OWNER: Hopewell Waste Water Treatment Plant

-2-

Depth (feet)

- 120-130 Gravel - off white; slightly clayey (clasts); some coarse grained sand; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 130 140Sand and clay - light olive gray; moderate clay; abundant sand; coarse grained to granular, some medium grains, few pebbles; subrounded; moderately sorted; quartz; feldspar.
- 140-150 Sand - light olive gray abundant clay; medium grained to granular, 15% pebbles, subrounded; poorly sorted; quartz; feldspar; muscovite.
- 150-160 Sand - off white; slightly clayey; very coarse grained to granular, some pebbles; subrounded; moderately well sorted; quartz; feldspar.
- 160-170 As above except coarse grained to granular, some pebbles; moderately sor Led.
- 170-180 Sand and gravel - off white; slightly clayey; coarse grained to gravel; angular to subrounded; moderately sorted; quartz; feldspar.
- 180-190 Gravel - off white; slightly clayey; some coarse grained, subrounded sand; angular to subrounded; moderately sorted; quartz; feldspar.
- 190-200 No sample.

200-210 Granules - off white; slightly clayey; abundant coarse to very coarse grained sand, 5% pebbles, subrounded; moderately sorted; quartz; feldspar.

Logged by: Michael T. Currie

#### GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Rock Unit	Time Rock Unit
0-40	40	Moorings "Unit"	Pleistocene
40-80	40	Calvert Formation	Miocene-Eocene
80-210	130+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES David A. Hubbard, Jr., Geologist September 19, 1978