INTERVAL SHEET C-321							
Page 1		VD	MR WELL NO.: 509				
Date 8/8	8/61	Sample Interval: from <u>0 to 326</u>					
PROP: Hen	nrico Co. Schools	То	tal Depth				
	chell	Oi	1GasWater_X_E	xploratory			
COUNTY: He	enrico (Jennings Road)	Cu	ttings <u>X</u> CoreOthe	r			
			WASHED SAMPLES				
From-To	From-To	From-To	From-To	From-To			
0-5	290-300	-					
5-10	300-310	-	Complete set of				
10-20	310-326	-	sampled intervals washed	4			
20-30		-	-				
30-40		-		-			
40-50		-	- 1	-			
50-60							
60-70		-		-			
70-80		-	-	-			
80-90	-	-	-	-			
)							
00.100							
90- <u>100</u> 100-110		-		The second second			
110-120	-	-					
120-130	이는 그는 것은 것을 가지 않는 것을 하는 것을 했다.	-					
130-140							
+00 +10							
140-150		-		_			
150-160	승규가 많이 가슴을 가지 않는 것이다.	-					
160-170		-		-			
170-180		*		-			
180-190	-			-			
100 000							
190 -200	-		÷				
200-210							
210 -220 220 -230							
230 - 230							
230-240							
240 - 250		-	-				
250 - 260		-		_			
260-270		-		-			
70-280	_			-			
280-290	-	-					

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<hr/>	OWNER:	Henrico	Co.	School	ls	
)	DRILLER:	Mitchell				
	COUNTY :	Henrico	(Jen	nings	Road)	

W#: 509 C#: 321 TOTAL DEPTH: 326' QUAD.: Seven Pines

GEOLOGIC LOG

Depth (feet)

- 0-5 Sand light gray; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; few opaques.
- 5-10 As above.
- 10-20 Sand light grayish yellow; moderate clay; fine to medium grained, some very fine grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite.
- 20-30 Sand pale yellowish orange; abundant clay; very fine to medium grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 30-40 Sand dark yellowish orange; heavily stained; slightly clayey; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; feldspar; some opaques; few grains of glauconite; muscovite.
 - 40-50 Sand dark yellowish orange; slightly stained; moderate clay; fine to medium grained, 20% granules, 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; few opaques.
 - 50-60 Sand dusky yellow; fine to medium grained, some coarse grains, 5% granules, 15% gravel (4-16 mm); subangular to subrounded; poorly sorted; quartz; feldspar; some muscovite; few grains of glauconite; few black phosphatic fragments.
 - 60-70 Sand and clay yellowish gray; moderate clay; abundant sand; fine to medium grained, 15% granules, 10% pebbles (4+18 mm); subangular to subrounded; poorly sorted; quartz; feldspar; some muscovite; few black phosphatic fragments; glauconite.
 - 70-80 Sand yellowish gray; abundant clay; very fine to fine grained, some medium grains, 3% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; some glauconite; some feldspar; muscovite; few black phosphatic fragments.
 - 80-90 Clay yellowish gray; abundant sand; fine to coarse grained, 3% granules, few pebbles; subangular to subrounded; poorly sorted; quartz; 5% black phosphatic material; some glauconite; some feldspar; muscovite.
 - 90-100 Clay olive light gray; abundant sand; very fine to medium grained, some coarse grains, 5% granules, 2% pebbles; subangular to subrounded; poorly sorted; quartz; 2% glauconite; some muscovite; few grains of feldspar.

Depth (feet)

- 100-110 Clay very light gray, light olive gray; moderate sand; fine to coarse grained, 3% granules, 3% pebbles; subangular to subrounded; moderately sorted; quartz; some black phosphatic material; some glauconite; some muscovite.
- 110-120 As above except pinkish gray; 2% black phosphatic material.
- 120-130 Sand dusky yellow; slightly clayey; moderate silt; fine to medium grained, some coarse grains, 5% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; 7% glauconite; feldspar; some muscovite; few black phosphatic fragments.
- 130-140 Sand olive gray; slightly clayey; very fine to very coarse grained, 2% granules; subangular to rounded; poorly sorted; 60% glauconite; quartz; 2% shell fragments; some muscovite.
- 140-150 Sand olive light gray; moderate clay; very fine to medium grained, few granules; subangular to rounded; moderately sorted; quartz; 40% shell fragments; 20% glauconite; some muscovite.
- 150-160 Clay medium light gray; abundant sand; very fine grained to granular, 5% pebbles; subangular to rounded; poorly sorted; quartz; 30% shell fragments; 20% glauconite; some feldspar; muscovite.
- 160-170 As above except 25% shell fragments; 25% glauconite.
- 170-180 Clay light brown; abundant sand; medium grained to gravel
 (20%); subangular to subrounded; poorly sorted; quartz; feldspar;
 2% glauconite; 2% shell fragments.
- 180-190 Clay -- light reddish brown; abundant sand; coarse grained to granular (40%), 5% pebbles; subrounded; poorly sorted; quartz; feldspar; 3% shell fragments; 2% glauconite.
- 190-200 Clay dusky yellow, light reddish brown; slightly sandy; fine to coarse grained, 10% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some muscovite; some glauconite.
- 200-210 As above except light reddish brown; moderate sand.
- 210-220 Sand very pale yellowish orange; slightly clayey; medium grained to granular, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.

OWNER: Henrico Co. Schools

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Depth (feet)

- 220-230 Clay dusky yellow; moderate sand; medium to coarse grained, 15% granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 230-240 Sand white; slightly clayey; coarse grained to granular, some medium grains, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 240-250 As above except grayish yellow; no pebbles.
- 250-260 As above plus some muscovite.
- 260-270 Sand white; slightly clayey; coarse grained to granular, 3% pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
- 270-280 As above plus some medium grains; some pebbles.
- 280-290 Sand white; slightly clayey; coarse to very coarse grained, 2% granules; subrounded; moderately well sorted; quartz; feldspar; few grains of garnet; muscovite.
- 290-300 As above except few pebbles.
- 300-310 Sand light olive gray; moderate clay; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar.
- 310-326 Sand light brown; abundant clay; fine grained to granular; subangular to subrounded; poorly sorted; quartz; feldspar; some garnet; muscovite.

Logged by: Michael T. Currie

OWNER: Henrico County Schools

W: 509

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Rock Unit	Time Rock Unit
0-50	50	Columbia Group	Pleistocene
50-80	30	Eastover	T leistocene
80-130	50	Calvert	
130-150	20	Nanjemoy Formation	Eocene
150-210	60	Marlboro Clay	Eocene
210-326	116	Patuxent Formation	Cretaceous

VDMR

David A. Hubbard, Jr., Geologist December 5, 1978

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OWNER: Kenrico Co, Schools W# 509 -4-160 SEOLOGIC SUMMARY 1 Depth Thickne Rock Unit Time Rock Unit _ (seet)____ (Leet) 0-50 Columbia Group Pleistocen Eastoner 50-90 30 Calvert 80-130 50 Vanjenny Formation Eccen 130-150 20 150-210 60 Martboro Clay Even 210-326 116 Patricent Formation Crefaceous VIRGINIA DIVISION OF MINERAL RESOURCE Ravid A. Hubbard, Jr., Geelogist ecember 5, 1928