INTE	ERVA	L SI	HEET

Page_	1		
Date_	6/12/62		
PROP:	Va.Division	of	Parks
COMP:	Douglas & Dickinsor	ı,Ir	nc.

VDMR We	ell No.:	852	WWCR 15	1
		l: from_	0to	719
Total c	lepth	71	9	
0i1	Gas	Water_	X Explo	ratory
Cutting	x	_Core	Other	6

COUNTY: Westmoreland (Baynesville)

From-To	From-To	From-To	From-To	From-To
_	0 - 21	692 - 719	No washed samples	
-	21 - 42	-	_	-
.	42 - 63	-	-	-
-	63 - 84	-	÷	-
-	84 - 105	-		-
	105 - 126	-	-	-
-	126 - 147	_		-
-	147 - 168	-		
J. Kar	168 - 189	-	-	-
3 -	189 - 210	-	-	-
	210 - 231		-	-
	231 - 252	-		-
	252 - 273	× -	-	
_ · ·	273 - 294	· · · · · · · · · · · · · · · · · · ·		
	294 - 315	-		-
÷ .	315 - 334	-	-	-
<u> </u>	334 - 357	-	-	-
_	357 - 378	_	-	-
<u>1</u> 0	378 - 399	-		-
-	399 - 420	-		-
	077 120			
_	420 - 441	-	_	-
	441 - 462	-	-	-
-	462 - 483	_	-	-
_	483 - 504	-	_	-
	504 - 525	-	-	
	504 525		SA2	
2	525 - 546	_	_	-
-	546 - 567		-	-
) -	567 - 630		-	-
_	630 - 672	-	-	-
-	672 - 692	-	-	_
	012 092			

OWNER: Westmoreland State Park DRILLER: Douglas and Dickinson, Inc. COUNTY: Westmoreland (Baynesville) VDMR: 852 WWCR: 151 TOTAL DEPTH: 719

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-631)

0-21	Sand - yellow to light brown, coarse to medium grained, angular to subangular, very argillaceous and silty
21-42	Sand - yellow to light brown, coarse to medium grained, angular to subangular, very argillaceous and silty, trace of iron
42-63	Sand - yellow to light brown, coarse to fine-grained, angular to subangular, slightly silty
CALVERT FO	RMATION (63-210 ¹)
63-84	Clay - gray, very silty to fine sandy, locally yellowish-brown, abundant gray clay, silty, trace of iron
84-105	Clay - gray to purplish-gray, weathered yellowish-brown to blackish-brown, sandy and silty, some ferricrete, 10% granule gravel, sand is poorly sorted
105-126	" very slightly diatomaceous
126-147	Sand - tan, very clayey; fine- to very fine-grained, fairly well- sorted; small number of diatoms (Cascinodiscus), trace of iron; slightly diatomaceous
147-168	" slightly to moderately diatomaceous
168-189	Silt - greenish-gray, clayey, moderately diatomaceous
189-210	Clay - pale greenish-gray, moderately silty
NANJEMOY FO	DRMATION (210-315 ^t)
210-231	 Sand - gray, medium to fine-grained, subangular to angular, slightly argillaceous and silty, abundant shell fragments, 20% of glauconite in calcareous matrix, trace of collophane phosphorite common - nodules, bone and shell fragments

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231-252	Sand -	dark gray, slightly silty, 15% shell fragments; coarse to fine-grained, angular to subangular; 60% blackish- to dark-green, furrowed glauconite; foraminifer common, a few ostracods
252-273	Sand -	gray, slightly clayey (tan to gray clay), small number of shell fragments; fine-grained, angular to rounded; clear to greenish quartz with 20% blackish-green, furrowed glauconite; minor pyrite, phosphatic nodules, bone frag- ments, and shell fragments; abundant Foraminifera (<u>Cibicides</u>), a few ostracods
273-294	Sand -	moderately-abundant matrix of brownish-gray micaceous clay; coarse to fine-grained, skewed fine, angular to subangular, very glauconitic, and argillaceous, slightly silty, trace of mica, small number of shell fragments, and Foraminifera (Cibicides)
294-315	Sand -	55% angular green quartz; 35% dark- to medium-green glauconite (slightly reworked); 10% very-coarse, well- rounded quartz; small number of shell fragments, Ostracoda, and Foraminifera (Virgerina)
MATTAPON	I FORMAT	ION (315-672°)
315-334	Sand -	dark gray, medium to fine-grained, angular to subangular, very glauconitic, argillaceous, slightly silty, trace of mica, small number of shell fragments; moderately abundant matrix of greenish-gray clay
334-357	Sand -	blackish-green, autochthonous glauconite (75%); clear and greenish quartz, fine to coarse-grained; a few foraminifers
357-378	Sand -	abundant clay matrix
378-399	Sand -	black, medium- to coarse-grained, black glauconitic (50%); slightly argillaceous and silty, trace of mica and shell fragments
399-420	Sand -	gray, medium to fine-grained, subangular to angular, black glauconite (50%), very argillaceous, slightly silty, small number of Foraminifera (<u>Cibicides</u>); pink and light-gray clays

-2-

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420-441 Sand - gray, medium to fine-grained, subangular to angular, clear and yellow Quartz, very glauconitic (approximately 50%), slightly silty, small number of Foraminifera (Globigerina) ("brown speckled sand")

-3-

- 441-462 Sand gray, medium to coarse grained, subangular to angular; clear and greenish quartz, very glauconitic, small number of shell fragments and Foraminifera (Nodosaria, Cibicides) ("gray speckled sand")
- 462-483 Sand gray, coarse- to fine-grained, moderately sorted; very glauconitic, some pink and light-gray sand-free clays, slightly silty, small number of shell fragments and Foraminifera (Nodosaria, Cibicides, and Globigerina); Dentalina; a few ostracods

483-504 Sand -

504-525 Sand - gray, medium to fine grained, subangular to angular, very glauconitic, slightly argillaceous and silty, abundant Foraminifera (Cibicides)

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525-546 Sand - gray, medium to fine grained, subangular to angular, very glauconitic, and argillaceous, slightly silty, Foraminifera abundant (Cibicides)

546-567

567-630 Clay - variegated, very sandy, light gray, fine-grained, wellsorted, subangular to angular, very argillaceous and silty, slightly glauconitic, small number of Foraminifera (Cibicides)

630-672 Sand - light brown, medium to fine grained, subangular to angular, slightly glauconitic and silty, small number of Foraminifera (Cibicides)

PATUXENT FORMATION (672-719)

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672-692 Sand - light brown, coarse-grained, subangular to subrounded, slightly glauconitic; arkosic subrounded

692-719 Sand - light gray to white, medium- to coarse-grained, subangular to subrounded; arkosic; slightly glauconitic; trace of silt

#852

OWNER: Westmoreland State Park

GEOLOGIC SUMMARY

Rock Unit

Age

0-63	Columbia Group	Pleistocene
63-210 ^s	Calvert Formation	Middle Miocene
210-315 ¹	Nanjemoy Formation	Middle Eocene
315-672 ¹	Mattaponi Formation	Paleocene
672-719 ¹	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources James L. Ruhle - Geologist June 26, 1963

Revised by Robert H. Teifke, Geologist November 1967