INTERVAL SHEET

Page 1 of 1

Date rec'd:4/11/67

PROP: Rectory Area

COMP: Douglas & Dickinson

COUNTY: King George (King George)

VDMR Well No: 1851 Sample Interval: from 1 to 671 Number of samples: 63 Total Depth: 671 Oil or Gas: Water: Exploratory:

From-To		From-To		From-To		From-To
1 -	10	315 -	325	619	- 629	에서 집중 요구하는
10 -	21	325 -	336	629	- 639	State of the state
21 -	31	336 -	346	639	- 649	_
31 -	42	346 -	357	649	- 659	
42 -	52	357 -	367	659	- 671	
52 -	63	367 -	270			
52 - 63 -					-	
	73	378 -			-	
73 -	84	388 -	20 A		-	
84 -	94	399 -			2.11.2	
94 -	105	409 -	420		3	
No sam	ple	420 -	430		_	1 <u></u>
115 -	126	430 -	441		_	
126 -	136	441 -			-	
136 -	147	451 -			-	
147 -	157	No sāi			-	
			1			
157 -	160	463 -	473			
168 -	178	473 -			2	
178 -		473			_	
189 -	199	494 -			_	1997년 1월 19 1월 1997년 1월 1 1월 1997년 1월 1
199 -	210	504 -	515		_	
199	210	504	515			
210 -	220	515 -	525		-	-
220 -	231	525 -	536		-	-
231 -	241	536 -	546		-	a di setta di setta di seconda di
241 -	252	546 -	557		-	
252 -	262	557 -	567		.#	-
262 -	273	567 _	578			
273 -	283	578 -	588			
283 -		588 -				
285	294 304	598 -	598 609		1410	
304 -	315	609 -	619		-	
	1 1					

No washed samples

OWNER: Douglas & Dickinson, Inc. (REctory Area) DRILLER: Douglas & Dickinson, Inc. COUNTY: King George (KIng George Court House) W-1851 E-66 TOTAL DEPTH:671'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-31')

- 1-10 Sand orange-brown, very slightly clayey; fine- to medium-grained, fairly well-sorted, subangular to subrounded; small amounts feldspar, glauconite and magnetite
- 10-21 Sand reddish-brown, very slightly clayey, trace of granule gravel; fine- to medium-grained, well-sorted (skewed coarse), subangular to subrounded; slightly feldspathic, trace of glauconite.

21-31 As above, except: orange-brown

CALVERT FORMATION (31-167')

- 31-42 Sand light-gray, moderately clayey, a few granules; fine- to coarsegrained, poorly sorted, poorly rounded; slightly to moderately feldspathic; locally goethitic and hematitic
- 42-52 Sand orange-brown, slightly clayey; fine- to very fine-grained, well-sorted, angular; traces of feldspar, muscovite and glauconite; a few plant fragments
- 52-63 Sand orange-brown, clean, 2-5 percent granule gravel; medium to very coarse-grained, moderately sorted, subangular to subrounded; coarse-fraction contains abundant feldspar and blue quartz; traces of glauconite and muscovite
- 63-73 Sand brownish-gray, silty and clayey; fine- to very fine-grained, moderately sorted, angular; abundant finely divided organic material; traces of phosphorite and glauconite

73-84 As above

- 84-94 Clay greenish-gray, silty and sandy; sand is fine, poorly sorted, poorly rounded; plant fragments common but not abundant; a few bone fragments, phosphatic pelecypod fragments, and echinoid spines
- 94-105 Sand orange-brown, clean; very fine-grained, very well-sorted, angular; a few plant fragments

105-115 No sample

OWNER: Douglas & Dickinson, Inc. (Rectory Area) -2-

- 115-126 Clay medium-gray, moderately silty and sandy; sand is fine- to coarse-grained, poorly sorted, poorly rounded; abundant plant fragments; a few phosphatic fragments and grains of feldspar
- 126-136 Sand brownish-gray, clayey; very fine- to coarse-grained, poorly sorted, poorly rounded; small amounts feldspar and black phosphatic fragments (vertebrate, invertebrate, and nodular); trace of glauconite; abundant plant fragments; a very few foraminifers (Lagena, Sephagenerina, Nonion)
- 136-147 Clay brownish-gray, sandy; sand is fine- to medium-grained, fairly well-sorted (skewed fine), angular; small amounts of feldspar and black phosphatic fragments; traces of muscovite and glauconite; a very few echinoid spines and plant fragments
- 147-157 Sand grayish-brown, moderately silty and clayey; fine-grained, fairly well-sorted, angular to subangular; small amount platy, black phosphorite; trace of feldspar; plant fragments common but not abundant
- 157-168 Sand grayish-brown, silty and clayey; fine- to medium-grained, fairly well-sorted, subrounded, slightly glauconitic; traces of muscovite, phosphorite, and feldspar; a few bone, plant, and phosphatic shell fragments
- NANJEMOY FORMATION (167-270') Top of formation defined on basis of other information.
- 168-220 Sand brownish-gray, moderately silty and clayey; medium- to very fine-grained, moderately sorted; angular to subrounded; 10-20 percent glauconite; minor muscovite and phosphorite; a very few shell fragments, plant fragments, and foraminifers
- 220-241 As above, except: with 5 percent shell fragments
- 241-273 Clay orange-pink, sand-free (50 percent), light-gray, sand free (10 percent), and dark-gray, silty, micaceous (40 percent); a few plant fragments
- MATTAPONI FORMATION (270-315') Top of formation defined on basis of other information.
- 273-315 Sand black, silty and clayey; fine- to very fine-grained, fairly well-sorted, angular to subangular; about 20 percent glauconite; minor muscovite, feldspar, phosphorite; a few plant and shell fragments

TRANSITIONAL BEDS (315-504')

315-325 Sand - light-gray, speckled, very slightly silty and clayey; mediumto coarse-grained, fairly well-sorted, subrounded; 10-15 percent fresh glauconite; slightly feldspathic; 3-5 percent shell fragments OWNER: Douglas & Dickinson, Inc. (Rectory Area) -3-

- 325-336 Sand medium-gray, moderately silty and clayey; medium- to very fine-grained, rather poorly sorted, poorly rounded; about 20 percent glauconite; small amounts muscovite, feldspar, and phosphorite; a few plant and shell fragments
- 336-420 Clay brown, subtly mottled; variably sandy; sand fraction contains glauconite and feldspar; a few plant fragments, and a trace of shell fragments
- 420-462 Clay brown, subtly mottled; variably sandy; sand fraction contains glauconite and feldspar; a few plant fragments, and a trace of shell fragments
- 462-463 No sample
- 463-504 Clay reddish-brown aspect (mottled gray, greenish-gray, yellow, reds), variably sandy; sand is fine, variably glauconitic and feldspathic; a few plant fragments
- PATUXENT FORMATION (504-671')
- 504-536 Sand brown, slightly silty and clayey; medium- to coarse-grained, fairly well-sorted, subangular to subrounded; feldspathic, very slightly glauconitic; a very few plant fragments
- 536-557 As above, except: medium-grained, well-sorted; trace of glauconite
- 557-578 Sand brown, moderately clayey; medium- to coarse-grained, fairly well-sorted, subrounded; feldspathic; trace of glauconite; abundant plant fragments
- 578-588 As above, except: clayey
- 588-598 Sand brown, slightly clayey; very fine- to very coarse-grained, poorly sorted, variably rounded; moderately feldspathic; trace of glauconite; a few plant fragments
- 598-609 Sand gray, clean, a very few granules; coarse- to very coarsegrained, fairly well-sorted, subrounded; abundant feldspar and blue quartz; trace of plant debris
- 609-629 As above, except: fine- to very coarse-grained, poorly sorted
- 629-639 Clay light greenish-gray, very silty
- 639-649 Sand light grayish-green, clayey; fine- to very fine-grained, fairly well-sorted, angular; small amounts of feldspar, biotite, and muscovite

#1851

OWNER: Douglas & Dickinson, Inc. (Rectory Area) -4-

649-659 Sand - abundant matrix of mottled clay (grays and browns), 5-10 percent granule gravel; medium- to very coarse-grained, rather poorly sorted, subangular to subrounded; feldspathic (white weathered feldspar), blue quartz common; a few plant fragments

659-671 Clay - brightly mottled (grayish-green and brownish-red), moderately sandy; sand is coarse, poorly sorted, subangular to subrounded; slightly feldspathic

GEOLOGIC SUMMARY

Rock Name

Age

0-31'	Columbia Group
31-167'	Calvert Formation
167-270'	Nanjemoy Formation
270-315'	Mattaponi Formation
315-504'	Transitional beds
504-671'	Patuxent Formation

post-Miocene Miocene Eocene Paleocene - Late Cretaceous Late Cretaceous Early Cretaceous

Virginia Division of Mineral Resources Robert H. Teifke, Geologist May 24, 1967

Robert H. Teifke March 3, 1972