INTERVAL SHEET WWCR: 167

FO 1	of 1		VDMR Well No:	2240
Date rec'd:	9/16/68		Sample Interval:	from 0 to: 156'
PROP:	Mitchell Wate		Number of sampl	es: 16
COMP:	(South Plains Subdivision, Well #2) Mitchell's Well & Pump Co.		Total Depth: 156	,1
COUNTY:	Prince George (Petersburg)		Oil or Gas: Wat	er:X Exploratory:
	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	-	-	~
\bigcirc	90 - 100	-	-	-
	100 - 110	-	-	-
	110 - 120	-	-	-
	120 - 130	•	-	-
	130 - 135	-	-	-
	135 - 145	-	-	-
	145 - 156	-	-	-
	- .	-	-	
	~	-	-	-
	-	-	-	-
	-	-	-	-
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	-	-	-	-
	-	-	-	-
	-	-	-	-
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		-		

All intervals have both washed and unwashed samples.

OWNER: Mitchell Water Supply ,

(South Plains Sub., Well # 2)
DRILLER: Mitchell's Well & Pump Co.

COUNTY: Prince George (Petersburg)

VDMR: 2240 WWCR: 167 TOTAL DEPTH: 156'

GEOLOGIC LOG

Depth in feet				
COLUMBIA GROU	P (0-30')			
0-10	Clay - yellow, sandy; sand is fine-grained; well-sorted, quartzose			
10-20	<pre>Sand - binder of orange-brown and light-gray clay; fine- to coarse-grained, poorly sorted; slightly felds- pathic; trace of muscovite</pre>			
20-30	Sand - white, slightly clayey; fine- to medium-grained, fairly well-sorted, angular; slightly feldspathic; green epidote relatively abundant; small amounts of muscovite, hornblende, and tourmaline			
YORKTOWN FORMATION (30-80')				
30-40	Clay - gray, slightly sandy; sand is fine-grained, well- sorted, angular, quartzose			
40-50	Shell and Sand - abundant matrix of gray clay; 65 percent small pelecypod shell fragments; 35 percent fine- to coarse-grained, poorly sorted, angular to subangular, clear quartz sand; minor amounts of epidote and magnetite; a few foraminifers (miliolids prominent)			
50-60	Sand and Shell - abundant matrix of gray clay; 35 percent pelecypod and gastropod shells and shell fragments; 65 percent medium- to very fine-grained, moderately sorted sand; clear and greenish quartz, with traces of magnetite, muscovite, hornblende, and glauconite			
60-70	Shell - abundant matrix of moderately sandy gray clay; coarse pelecypod shells and shell fragments, with a few gastropods, worm tubes and echinoid spines; traces of glauconite and muscovite			
70-80	Sand and Shell - gray, slightly clayey; 35 percent coarse pelecypod shell debris; 65 percent fine- to medium-grained, well-sorted, angular to subangular, clear quartz sand; traces of magnetite, phosphorite, horn-blonds, oridate, and garnet			

blende, epidote, and garnet

OWNER: Mitchell Water Supply (South Plains Sub., Well # 2)

CALVERT FORMATION: (80-120')

Sand - greenish-gray, slightly clayey, trace of shell; fine- to medium-grained, fairly well-sorted, angular to subangular; clear and pale green quartz, with 3 to 5 percent small fragments of phosphorite, and traces of glauconite, epidote,

and garnet

90-100 " "

100-110 Clay - gray, slightly sandy, a few iron-stained shell fragments, echinoid spines, and plant fragments; sand is fine-grained, well-sorted, angular; traces of glauconite, magnetite, muscovite, and phosphorite

110-120 Clay - gray, slightly sandy, a few shell fragments,
plant fragments, small quartz pebbles, and
phosphate nodules; diatomaceous; sand is finegrained, well-sorted, angular; traces of glauconite
and muscovite; a very few foraminifers

MATTAPONI FORMATION (120-130')

120-130 Sand - abundant matrix of dark greenish-gray clay;
fine-grained, well-sorted, angular; clear and
pale green quartz, with 5 to 10 percent fineto medium-grained dark green glauconite; traces
of phosphorite and muscovite

PATUXENT FORMATION (130-156')

130-135 Gravel - clean, 5 percent sand; angular fragments of quartz, various rock types, and feldspar, 2-10 mm in diameter; minor amount of garnet

135-145 Sand and Gravel - clear; 25 percent fine (2-10 mm) quartzofeldspathic gravel; 75 percent coarse- to very
coarse-grained, subrounded, feldspathic sand; minor
amount of chert; trace of garnet; limited pyrite
cementation

145-156 " 15 percent gravel

GEOLOGIC SUMMARY

	Rock Unit	Age
0-30'	Columbia Group	Pleistocene
30-801	Yorktown Formation	Miocene
80-120'	Calvert Formation	Miocene
120-130'	Mattaponi Formation	Paleocene - Late Cretaceous
130-156'	Patuxent Formation	Early Cretaceous

Robert H. Teifke March 6, 1972 Virginia Division of Mineral Resources Robert H. Teifke, Geologist Sept. 24, 1968