INTERVAL SHEET WWCR: 93

Fell of 1	VDMR Well No: 2237
Date rec'd: 9/9/68	Sample Interval: from 0 to: 260'
PROP: L. H. Lingerfelt	Number of samples: 8
COMP: H. J. Harper Pump & Well Co.	Total Depth: 260'
COUNTY: Hanover (Ellerson)	Oil or Gas: Water:XExploratory:

From-To	From-To	From-To	From-To
0 - 15		-	-
15 - 115	· · · _		-
115 - 143	-	-	-
143 - 154	_	-	-
154 - 165	_	-	-
165 - 188			
188 - 225	-	-	-
225 - 260	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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All intervals have both washed and unwashed samples.

OWNER: L. H. Lingerfelt DRILLER: Harvey J. Harper Pump & Well Co. COUNTY: Hanover (Ellerson)

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP AND CALVERT FORMATION (0-15')

0-15 Sand and clay — grayish-brown, sandy; abundant plant fragments; very fine- to coarse-grained, poorly sorted; traces of weathered feldspar and glauconite

CALVERT FORMATION (15-143')

15-115 Clay — blue-gray, sandy; sand is fine grained, very wellsorted; clear and greenish quartz, with abundant angular fragments of black (carbono-phosphatic ?) material, and a trace of glauconite

115-143 Clay — light-gray, pulverulent; trace of fine sand

PATUXENT FORMATION (143-154')

143-154 Sand — tan, trace of clay, 10% fine gravel; mediumto very-coarse grained, rather poorly-sorted; feldspathic; traces of muscovite and garnet

MATTAPONI FORMATION (154-165')

154-165 * Sand — yellow-brown, clayey; fine- to very-fine grained, well-sorted; quartz, with 5% dark-green glauconite and very abundant muscovite

PATUXENT FORMATION (165-188')

165-188 Sand — pale yellowish-brown, clayey; fine- to verycoarse grained, very poorly-sorted; quartz, small amount of yellowish feldspar, and abundant muscovite

PETERSBURG GRANITE (188-260')

188-225 Granite – gray; quartz, feldspar, and subequal amounts of muscovite and biotite

225-260 "very little biotite

OWNER: L. H. Lingerfelt

#2237

GEOLOGIC SUMMARY

Rock Unit

Age

0-15'	Columbia Group and Calvert Formation	Pleistocene and Middle Miocene
15-143'	Calvert Formation	Middle Miocene
143-154'	Patuxent Formation	Early Cretaceous
* 154-165'	Mattaponi Formation	Paleocene
165-188'	Patuxent Formation	Early Cretaceous
188-260'	Petersburg Granite	Paleozoic (?)

* Depth interval recorded for collection of this sample is in error as Mattaponi Formation post-dates the Patuxent Formation

> Virginia Division of Mineral Resources Robert H. Teifke, Geologist October 3, 1968

OWNER: L. H. Lingerfelt

Pleistocene and Middle Miocene

Middle Miocene

Paleocene

Early Cretaceous

Early Cretaceous

Paleozoic (?)

GEOLOGIC SUMMARY

Rock Unit

0-15¹

Columbia Group and Calvert Formation

Calvert Formation Patuxent Formation Mattaponi Formation Patuxent Formation Petersburg Granite

> * Depth interval recorded for collection of this sample is in error as Mattaponi Formation post-dates the Patuxent Formation

> > Virginia Division of Mineral Resources Robert H. Teifke, Geologist October 3, 1968

15-143' 143-154' * 154-165' 165-188' 188-2601 useful ata

Age