

VDMR WELL NO. 0199

Sample Interval 0-356

Total Depth 356'

Oil \_\_\_ Gas \_\_\_ Water  Exploratory \_\_\_

Cuttings  Core \_\_\_ Other \_\_\_

Sheet No. I

PROP: V. E. PORTWOOD  
COMP: MITCHELL'S WELL & PUMP  
COUNTY: HANOVER  
VDMR WELL NO: 0199  
FROM: TO:

WASHED & FLOATED From-To SAMPLES	From-To	From-To	From-To	From-To
0 - 40	-	-	-	-
40 - 148	-	-	-	-
148 - 170	-	-	-	-
170 - 175	-	-	-	-
175 - 185	-	-	-	-
185 - 200	-	-	-	-
200 - 220	-	-	-	-
220 - 240	-	-	-	-
240 - 260	-	-	-	-
260 - 270	-	-	-	-
270 - 280	-	-	-	-
280 - 290	-	-	-	-
290 - 300	-	-	-	-
300 - 310	-	-	-	-
310 - 320	-	-	-	-
320 - 330	-	-	-	-
330 - 340	-	-	-	-
340 - 356	-	-	-	-
-	-	-	-	-



OWNER: V. E. Portwood VDMR # 0199  
DRILLER: Mitchell Well and Pump WWCR # 10  
COUNTY: Hanover Co. (6 mi. N.E. Mechanicsville) Depth: 356'

SAMPLE EXAMINATION  
(washed)

0-40 Sand, quartz, fine to medium grained, subangular  
40-148 Clay, gray brown, firm, micaceous, abundant quartz grains  
148-175 Marl composed of shell fragments, gray clay and sand with abundant mica  
175-185 Clay, red pink firm abundant glauconite and shell fragments. Trace of pyrite.  
185-200 Sand, predominantly glauconite, with subordinate quartz and shell fragments  
200-220 Marl composed of glauconite and shell fragments  
220-240 Sand and gravel, quartz  
240-270 Gravel and sand, quartz with abundant white to gray feldspar.  
270-310 Sand, quartz, white, very fine to coarse grained, angular, arkosic  
310-350 As above with abundant clay and gravel, micaceous

GEOLOGIC SUMMARY

Pleistocene	Colombia Gp.	Surface - 40'
Miocene	Chesapeake Gp.	40 - 148'
Eocene	Pamunkey Gp (Nanjemoy Fm.	148 - 185'
	{Aquia Fm.	185 - 270'
Cretaceous	Potomac Gp.	270 - T. D.

Tops from W. S. P. 1361. Pleistocene-Miocene section seems excessively thick as state map shows outcrops of Nanjemoy and Aquia very close to this well.

VIRGINIA DIVISION OF MINERAL RESOURCES  
William Dudley, Geologist  
October 1958

OWNER: V. E. Portwood VDMR # 0199  
 DRILLER: Mitchell Well and Pump WWCR # 10  
 COUNTY: Hanover Co. (6 mi. N.E. Mechanicsville) Depth: 356'  
 1716'. 170'

SAMPLE EXAMINATION  
 (washed)

0-40 Sand, quartz, fine to medium grained, subangular  
 40-148 Clay, gray brown, firm, micaceous, abundant quartz grains  
 148-175 Marl composed of shell fragments, gray clay and sand with abundant mica  
 175-185 Clay, red pink firm abundant glauconite and shell fragments. Trace of pyrite.  
 185-200 Sand, predominantly glauconite, with subordinate quartz and shell fragments  
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 William Dudley, Geologist  
 October 1958

VDMR Well No. 0199

Loc: 6 mi. N.E. Mechanicsville Hanover Co.

Prop: V. E. Fortwood

Contractor: Mitchell Well and Pump

<u>Interval</u>	<u>Description</u>
0-40	PLEISTOCENE sand, quartz, fine to medium grained, subangular COLUMBIA GP.
40-148	MIOCENE clay, gray brown, firm, micaceous, Abundant quartz grains CHESAPEAKE GP.
148-175	EOCENE marl composed of shell fragments, gray clay and sand with abundant mica NANJEMOY FORMATION
175-185	clay, red pink, firm, abundant glauconite and shell fragments. Trace of pyrite
185-200	EOCENE sand, predominantly glauconite with subordinate quartz and shell fragments AQUIA FORMATION
200-220	marl composed of glauconite and shell fragments
220-240	sand and gravel, quartz
240-270	gravel and sand, quartz with abundant white to gray feldspar.
270-310	CRETACEOUS sand, quartz, white, very fine to coarse grained, angular, arkosic POTOMAC GP.
310-350	as above with abundant clay and gravel, micaceous

SUMMARY

Pleistocene	Colombia Gp.	Surface - 40'
Miocene	Chesapeake Gp.	40- 148'
Eocene	Pamunkey Gp (Nanjemoy Fm. (Aquia Fm.	148- 185' 185- 270'
Cretaceous	Potomac Gp.	270- T. D.

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