

Sheet No. 1

PROP: U. S. NAVY NAVAL
PROVING GROUND

COMP: VA. MACHINERY & WELL

COUNTY: KING GEORGE

VDMR: WELL NO. 0259

FROM: TO:

VDMR WELL NO. 0259

Sample Interval 14-780 (5)

Total Depth 780

Oil ___ Gas ___ Water Exploratory ___

Cuttings Core ___ Other ___

*See Sinnott's manuscript
on Water Wells in Northern
Neck - Table 13*

From-To	From-To	From-To	From-To	From-To
14 - 80	435 -	780 -	WASHED SAMPLES	-
84 - 95	455 -	-	84 - 95	-
95 - 147	465 -	-	162 - 185	-
147 - 162	485 -	-	200 - 225	-
162 - 185	521 -	-	225 - 250	-
185 - 200	540 -	-	263 -	-
200 - 225	556 -	-	285 -	-
225 - 250	586 -	-	292 -	-
263 -	605 -	-	300 -	-
270 -	628 -	-	320 -	-
285 -	655 -	-	335 -	-
292 -	683 -	-	365 -	-
300 -	694 -	-	380 -	-
320 -	715 -	-	400 -	-
335 -	730 -	-	485 -	-
365 -	733 -	-	733 -	-
380 -	740 -	-	765 -	-
400 -	755 -	-	-	-
415 -	765 -	-	-	-

OWNER: U. S. Navy Proving Ground # 4
DRILLER: Va. Machinery and Well
COUNTY: King George (U. S. Navy Proving Ground)

VDMR # 0259
WWCR # 5
Depth: 780'

SAMPLE EXAMINATION
(washed)

14-80 Clay, brown, firm, slightly sandy, few shell fragments
80-147 Clay, brown, very sandy, glauconitic, soft, calcareous and micaceous in part
147-163 Clay, red to pink firm, glauconitic
163-186 Clay, brown-gray, sandy, glauconitic, soft
186-200 Marl, gray, with shell fragments, clay and glauconite
200-226 Clay, green, very glauconitic, calcareous, with shell fragments
226-270 Clay, brown, to brownish green, glauconitic, calcareous, sandy soft, with shell fragments
270-285 Clay, varicolored, cream, tan, ochre, pink, soft, glauconitic, slightly calcareous
285-295 Clay, pink, soft, sandy, slightly glauconitic
295-300 Clay, as above but brown
300-320 Clay, red-pink, soft, very sandy, slightly glauconitic
320-365 Clay, as above but tan to pink few shell fragments
365-380 Sand, quartz, medium grained, subangular-rounded, argillaceous, abundant lavender quartz
380-400 Clay, tan-pink, sandy, firm
400-455 Clay, pink to red, firm, slightly sandy and glauconitic, few shell fragments
455-485 Clay as above but tan-pink

485-600 Clay, pink, tan, and tan pink, firm, slightly sandy
600-780 Clay tan to tan-pink to pink, firm, sandy to very sandy,
gravelly at 730+

GEOLOGIC SUMMARY

Eocene	Pamunkey Gp.	? to 270
Paleo-Cret	Mattaponi Fm.	270 to T. D.

REMARKS

Eocene is exposed at the surface at this location according to state map, however, the samples to 80+' appear more typical of Miocene sediments

VIRGINIA DIVISION OF MINERAL RESOURCES
William Dudley
November 1958

VDMR Well No. o259

Loc: U. S. Navy Proving Ground

King George

Contractor: Va. Machinery and Well

<u>Interval</u>	<u>Description</u>
	EOCENE (?) PAMUNKEY GP.
14-80	clay, brown, firm, slightly sandy, few shell fragments
80-147	clay, brown, very sandy, glauconitic, soft, calcareous and micaceous in part
147-163	clay, red to pink, firm, glauconitic
163-186	clay, brown-gray, sandy, glauconitic, soft
186-200	marl, gray, with shell fragments, clay and glauconite
200-226	clay, green, very glauconitic, calcareous, with shell fragments
226-270	clay, brown, to brownish green, glauconitic, calcareous, sandy soft, with shell fragments
	PALEOCENE-UPPER CRETACEOUS MATTAPONI FM
270-285	clay, varicolored, cream, tan, ochre, pink, soft, glauconitic, slightly calcareous
285-295	clay, pink, soft, sandy, slightly glauconitic
295-300	clay, as above but brown
300-320	clay, red-pink, soft, very sandy, slightly glauconitic
320-365	clay, as above but tan to pink, few shell fragments
365-380	sand, quartz, medium grained, subangular-rounded, argillaceous, abundant lavender quartz
380-400	clay, tan-pink, sandy, firm
400-455	clay, pink to red, firm, slightly sandy and glauconitic, few shell fragments
455-485	clay as above but tan-pink
485-600	clay, pink, tan, and tan pink, firm, slightly sandy
600-780	clay tan to tan-pink to pink, firm, sandy to very sandy, gravelly at 730'

SUMMARY

Eocene	Pamunkey Gp.	? to 270
Paleo-Cret	Mattaponi Fm	270 to T.D.

Eocene is exposed at the surface at this location according to state map, however, the samples to 80' appear more typical of Miocene sediments