

Sheet No. 1

PROP: CHESAPEAKE CORP.
@ WEST POINT
COMP: LAYNE ATLANTIC
COUNTY: KING WILLIAM
VDMR WELL NO: 0277
FROM: 4 TO: 729

VDMR WELL NO. 0277 (5)

Sample Interval 4-729

Total Depth _____

Oil _____ Gas _____ Water Exploratory _____

Cuttings Core _____ Other _____

From-To	From-To	From-To	From-To	From-To
4 - 19	364 - 372	721 - 729	-	-
19 - 26	372 - 380	-	-	-
26 - 32	380 - 386	-	-	-
34 - 53	386 - 399	-	-	-
53 - 65	403 - 417	-	-	-
65 - 79	417 - 425	-	-	-
79 - 95	425 - 431	-	-	-
95 - 126	434 - 439	-	-	-
126 - 139	450 - 454	-	-	-
139 - 150	454 - 474	-	-	-
158 - 161	495 - 510	-	-	-
161 - 177	510 - 568	-	-	-
187 - 189	556 - 574	-	-	-
189 - 212	586 - 599	-	-	-
219 - 243	599 - 604	-	-	-
248 - 261	606 - 618	-	-	-
261 - 273	646 - 657	-	-	-
273 - 290	657 - 667	-	-	-
300 - 364	667 - 721	-	-	-

OWNER: Chesapeake Corp.
DRILLER:
COUNTY: King William Co. (West Point)

VDMR # 0277
WWCR # 5
Depth: 729'

SAMPLE EXAMINATION
(washed)

0-37 Sand, quartz, very fine to fine grained, angular to rounded
37-97 Clay, brown, gray, with imbedded large quartz grains and shell fragments
97-140 Marl; brown, clay, shell fragments and quartz grains
140-150 Limestone, white to gray, dense, with imbedded pyrite, glauconite, quartz grains and shell fragments
150-158 No sample
158-178 As above, no pyrite noted
178-188 No sample
188-190 Limestone as above
190-212 Clay, brown, sandy, glauconitic, calcareous
212-220 No sample
220-240 Clay as above with shell fragments. Trace coal
240-247 No sample
247-290 Clay as above interbedded with limestone as above
290-300 No sample
300-365 Clay, brown-pink, glauconitic, calcareous
365-440 Sand, quartz, fine to coarse grained, angular to rounded, clear to frosted. Iron stained in part. Abundant clay in lower part.
440-450 No sample
450-455 Sand, quartz, clear, angular, glauconitic, clean

- 455-474 Clay, brick red to pink, with imbedded large quartz grains
- 474-495 No sample
- 495-510 Clay, predominantly brown with red yellow and pink, glauconitic, imbedded quartz, limestone fragments and chert
- 510-574 Clay, varicolored, red pink brown white gray with loose glauconite and quartz
- 574-586 No sample
- 586-618 Sand, quartz, medium to coarse grained, clear to frosted, angular to rounded. Minor clay
- 618-646 No sample
- 646-667 Clay, brown, with abundant quartz. Slightly glauconitic
- 667-723 Sand, quartz, medium to coarse grained, clear to frosted, subangular to rounded
- 723-729 Clay, brown, minor pink and red with imbedded large quartz grains.

GEOLOGIC SUMMARY

Pleistocene	Colombia Gp.	Surface- 37'
Miocene	Chesapeake Gp.	37-140
Eocene	Pamunkey Gp.	140-290
Paleo-Cret	Mattaponi Fm.	290-T. D.

VIRGINIA DIVISION OF MINERAL RESOURCES
William Dudley
November 1958

VDMR Well No. 0277

Loc: West Point

King William Co.

Prop: Chesapeake Corp.

<u>Interval</u>	<u>Description</u>
	<div style="display: flex; justify-content: space-between;"> PLEISTOCENE COLUMBIA GROUP </div>
0-37	sand, quartz, very fine to fine grained, angular to rounded
	<div style="display: flex; justify-content: space-between;"> MIOCENE CHESAPEAKE GROUP </div>
37-97	clay, brown, gray, with imbedded large quartz grains and shell fragments
97-140	marl; brown, clay, shell fragments and quartz grains
	<div style="display: flex; justify-content: space-between;"> Eocene PAMUNKEY GROUP </div>
140-150	limestone, white to gray, dense, with imbedded pyrite, glauconite, quartz grains and shell fragments
150-158	no sample
158-178	as above, no pyrite noted
177-188	no sample
188-190	limestone as above
190-212	clay, brown, sandy, glauconitic, calcareous
212-220	no sample
220-240	clay as above with shell fragments. Trace coal
240-247	no sample
247-290	clay as above intbd with limestone as above
	<div style="display: flex; justify-content: space-between;"> PALEOCENE-UPPER CRETACEOUS MATTAPONI FM </div>
290-300	no sample
300-365	clay, brown-pink, glauconitic, calcareous
365-440	sand, quartz, fine to coarse grained, angular to rounded, clear to frosted. Iron stained in part. Abundant clay in lower part.
440-450	no sample
450-455	sand, quartz, clear, angular, glauconitic, clean
455-474	clay, brick red to pink, with imbedded large quartz grains
474-495	no sample
495-510	clay predominantly brown with red yellow and pink, glauconitic, imbedded quartz, limestone fragments and chert

- 510-574 clay, varicolored, red pink brown white gray with loose glauconite and quartz
- 574-586 no sample
- 586-618 sand, quartz, medium to coarse grained, clear to frosted, angular to rounded. Minor clay
- 618-646 no sample
- 646-667 clay, brown, with abundant quartz. Slightly glauconitic
- 667-723 sand, quartz, medium to coarse grained, clear to frosted, subangular to rounded
- 723-729 clay, brown, minor pink and red with imbedded large quartz grains.

SUMMARY

Pleistocene
 Miocene
 Eocent
 Paleo-Cret

Colombia Gp.
 Chesapeake Gp.
 Pamunkey Gp.
 Mattaponi Fla.

Surface -37'
 37-140
 c 140-290
 290-T.D.