Sheet No. 1

CROP: BYRDTON-ESTATE
EAST RICHLANDS
COMP: MITCHELLS WELL & PUMP
COUNTY: NORTHUMBERLAND
VDMR WELL NO: 0177
FROM: TO:

VDMR WELL NO. 0177 (105)
Sample Interval 73-798
Total Depth 810

Oil ___ Gas ___ Water ✓ Exploratory ___

Cuttings ✓ Core ___ Other ___

See Circular 3 p. 26

From-To	From-To	From-To WASHED SAMPLES	From-To	From-To
73-102 18	651-34	188-192 31	683-29	-
188-192 29	656-53	352-30	700-55	-
192-220 17	668-53	381-23	719-22	-
220-11	678-36	402-29	725-59	-
352-55	683-44	423-22	760-32	-
381-63	700-50	439-58	769-52	-
402-31	719-48	449-12	779-31	-
423-35	725-24	459-18	798-35	-
449-42 (439) 28	729-52	480-21	-	-
459-33	760-50	500-25	-	-
480-22	769-50	520-17	-	-
500-43	779-36	559-24	-	-
520-34	798-9	585-8	-	-
530-542 12	-	630-30	-	-
559-61	-	651-28	-	-
563-22	-	656-42	-	-
585-41	-	668-20	-	-
609-52	-	678-23	-	-
630-46	-			

OWNER: Byndton Estate VDMR # 0177
DRILLER: Mitchell Well and Pump WWCR # 105
COUNTY: Northumberland County (East Richlands) Depth: 810'

SAMPLE EXAMINATION
(washed)

	MIOCENE	CHESAPEAKE GROUP
73-102	Clay, gray brown, micaceous, sandy, plastic when wet	
102-188	No sample	
188-192	Clay, gray, calcareous, sandy, with shell fragments	
192-220	Clay, white-gray, firm, sandy, non-calcareous diatomaceous (?)	
220-352	No sample	
352	Sand, quartz, fine to medium grained, angular argillaceous, with abundant shell fragments	
381	Sand, quartz, fine to medium grained, angular argillaceous, with abundant shell fragments	
402	As above	
	EOCENE	PAMUNKEY GROUP
423	Sand, quartz, very fine to fine grained, angular, glauconitic, with shell fragments	
439	As above	
449	As above with foraminifera	
459	Sand, quartz, white, subangular, fine to medium grained, glauconitic, with shell fragments	
480	Marl, soft, brown, glauconitic with shell fragments	
500	Sand, glauconite and quartz, fine to medium grained	
520	As above, argillaceous	
530-542	Clay, brown, calcareous, glauconitic	
559	Sand, predominantly glauconite, argillaceous, with foraminifera	

563	Clay, green, calcareous, glauconitic
585	Sand, quartz and glauconite, very fine grained
609	Sand, quartz and glauconite, fine to medium grained
630	Sand, quartz and glauconite, fine grained
651	As above, argillaceous
656	Sand, quartz, medium to coarse grained, subangular, glauconitic
668	Sand, quartz, red, fine grained, angular, cemented
678	Sand, quartz, fine to medium grained argillaceous micaceous, slightly glauconitic
683	As above
	PALEOCENE-UPPER CRETACEOUS MATTAPONI FORMATION(?)
700	Sand, quartz, white, fine grained, subangular glauconitic
719	Sand, quartz, tan, fine grained, micaceous, argillaceous
725	Sand, quartz, fine to coarse grained, arkosic, micaceous
729	As above, fine to medium grained, argillaceous
760	Sand, quartz, white, very fine grained, angular, micaceous
769	Sand, quartz, brown, very fine to fine grained, argillaceous
779	As above
798	Sand, tan-yellow, very fine grained, micaceous, argillaceous

GEOLOGIC SUMMARY

Miocene-Eocene Contact probably between 402' and 423'.
Pleistocene-Miocene Contact above 72'.
If the Mattaponi formation is present in this area, the top should be around 700'.

VIRGINIA DIVISION OF MINERAL RESOURCES
William Dudley
October 1958