

INTERVAL SHEET

WWCR 132

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VDMR WELL NO.: Well No. 1182

Date 11/13/64

Sample Interval: from 0 to 628

PROP: Bay Quarter Shores

Total Depth 620

COMP: Douglas & Dickinson

Oil Gas Water Exploratory

COUNTY: Northumberland (Lewisetta)

Cuttings Core Other

VDMR WELL NO: W-1182

From-To	From-To	From-To	From-To	From-To
0 - 21	-	-	-	-
21 - 42	-	-	-	-
42 - 64	-	-	-	-
64 - 85	-	-	-	-
85 - 105	-	-	-	-
No washed samples				
105 - 126	-	-	-	-
126 - 147	-	-	-	-
147 - 168	-	-	-	-
168 - 189	-	-	-	-
189 - 210	-	-	-	-
210 - 231	-	-	-	-
231 - 252	-	-	-	-
252 - 273	-	-	-	-
273 - 294	-	-	-	-
294 - 315	-	-	-	-
315 - 336	-	-	-	-
336 - 357	-	-	-	-
357 - 378	-	-	-	-
378 - 399	-	-	-	-
399 - 420	-	-	-	-
420 - 462	-	-	-	-
462 - 483	-	-	-	-
483 - 502	-	-	-	-
502 - 523	-	-	-	-
523 - 544	-	-	-	-
544 - 565	-	-	-	-
565 - 586	-	-	-	-
586 - 607	-	-	-	-
607 - 628	-	-	-	-

OWNER: Douglas and Dickinson, Incorporated
DRILLER: Booker Taylor
COUNTY: Northumberland

VDMR: 1182
WWCR: 132
TOTAL DEPTH: 620'

GEOLOGIC LOG

COLUMBIA GROUP (0-21')

0-21 Sand - light brown, fine-to-medium grained, fairly well sorted, angular to subangular, very argillaceous, moderately arkosic, ferruginous-limonitic clay

YORKTOWN FORMATION (21-42')

21-42 Clay - gray, with purple cast, very sandy, very fine to medium grained, poorly sorted, subangular, ferruginous, some limonitic clay, much iron-stained quartz, traces of glauconite and garnet, moderately arkosic-feldspar is moderately decomposed, small amount shell material-pelecypods

CALVERT FORMATION (42-231')

42-64 Clay - gray, with greenish cast

64-85 Clay - gray, with greenish cast, small amount carbonaceous material

85-105 Clay - gray, mottled reddish-brown, small amount very fine to fine grained sand, moderately micaceous (muscovite)

105-126 Clay - gray, with greenish cast, trace of sand

126-147 Clay - gray, with greenish cast, slightly sandy, small amounts carbonaceous matter, plant remains

147-168 Clay - gray, with greenish cast, slightly sandy, muscovite, very small amount shell material

168-189 Clay - gray, with greenish cast, very slightly sandy, small amount shell material

189-210 Clay - gray, with greenish cast, slightly sandy, muscovite, and carbonaceous material, small amounts shell material

210-231 Clay - gray, with greenish cast, slightly to moderately sandy, small amounts shell material and plant remains

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CHICKAHOMINY FORMATION (231-252')

- 231-252 Sand - gray, fine to coarse grained, fairly well sorted, angular to subangular, clear quartz in brownish clay; argillaceous, small amounts garnet, phosphate nodules, large amount shell material-pelecypods, gastropods, echinoid spines, chitino-phosphotic fragments
- *252-273 Sand - brown, very fine to medium grained, poorly sorted, subangular, very argillaceous, traces muscovite, glauconite, ferruginous, small amounts shell material, carbonaceous material

NANJEMOY FORMATION (273-399')

- 273-294 Sand - gray, medium to coarse-grained, well sorted, subangular to subrounded, glauconite, slightly argillaceous, trace of pyrite, very slightly arkosic
- 294-315 "
- 315-336 Sand and limestone - grayish-brown, medium to coarse grained, fairly well sorted, subangular, argillaceous, abundant gray clay, and white calcareous clay with included glauconite grains, glauconitic, much of this is goethite after glauconite, trace of muscovite, small, rounded shell fragments, abundant small amounts pelecypods, echinoid spines, worm borings, and a few ostrocods.
- 336-357 "
- 357-378 Sand - some limestone, dark gray, medium to coarse grained, well sorted, very glauconitic (75-85%), quartz sand (15-25%) is subangular to subrounded and coarser grained than the glauconite, slightly argillaceous, abundant comminuted shell material - pelecypods identified
- 378-399 Sand - black, medium grained, very well sorted glauconite (85-90%), coarse to very coarse grained, subrounded quartz sand and a few granules (10-15%), very slightly argillaceous, small amount shell material

MATTAPONI FORMATION (399-565')

- 399-420 Sand - black, fine to medium grained, very well sorted glauconite (about 90%), coarse to very coarse grained, subrounded to rounded quartz and a few granules (about 10%), slightly argillaceous, muscovite, traces of shell material

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- 420-462 Sand - black, medium to coarse grained, well sorted glauconite (85-90%), coarse to very coarse grained quartz and a few granules (10-15%), slightly argillaceous.
- 462-483 Sand - dark gray, argillaceous, the sand fraction is poorly sorted glauconite (55-65%) and poorly sorted, sub-angular to subrounded quartz (35-45%), pyrite, and phosphate, moderate amount shell material - pelecypods, echinoid spines, and a few foraminifera, small amounts of plant remains
- 483-502 Sand - dark gray, fine to medium grained, fairly well sorted glauconite - quartz sand, glauconite (80-85%), sub-angular to subrounded quartz (15-20%), very argillaceous, light gray clay appears to have come from separate unit (s) in that it occurs in the cuttings as virtually sand-free fragments of clay, clay only slightly subordinate to sand, interval contains moderate amount muscovite and small amount echinoid spines.
- 502-523 Sand - black, fine to coarse grained, fairly well sorted glauconite - quartz sand, glauconite (75-85%), subangular quartz (15-25%), slightly argillaceous, slightly ferruginous, small amounts phosphate, muscovite, feldspar, traces of pyrite, tourmaline, small amount shell material - pelecypods, echinoid spines, uniserial foraminifera, bryozoans, fish teeth.
- 523-544 Sand - black, coarse-grained, very well sorted glauconite (90-95%), similar in all other characteristics, to preceding sample
- 544-565 Sand - black, poorly sorted glauconite - quartz sand, glauconite predominant, slightly silty and argillaceous, moderately ferruginous, small amounts phosphate and muscovite, very abundant shell material pelecypods

PATUXENT FORMATION (565-620')

- 565-586 Sand - gray, fine to very coarse grained, very poorly sorted, angular to subangular, slightly argillaceous, moderately glauconitic, micaceous (muscovite), small amounts garnet, shell material
- 586-607 Sand - brown, fine to coarse grained, poorly sorted, angular to subangular, slightly argillaceous, moderately glauconitic, micaceous (muscovite), trace of phosphate

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607-620 Sand - gray, medium to very coarse grained, fairly well sorted, subangular, slightly micaceous, arkosic, very slightly glauconitic, slightly argillaceous

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-21	Columbia Group	Pleistocene
21-42	Yorktown Formation	Late Miocene
42-231	Calvert Formation	Middle Miocene
231-252	Chickahominy Formation	Late Eocene
*252-273	Unidentifiable, contaminated sample	
273-399	Nanjemoy Formation	Middle Eocene
399-565	Mattaponi Formation	Paleocene
565-620	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
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