

INTERVAL SHEET

WWCR - 137

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VDMR Well No: 1862

Date rec'd: 4/19/67

Sample Interval: from 0 to 714

PROP: Wicomico Church Dev.

Number of samples: 70

COMP: Douglas & Dickinson

Total Depth: 714

COUNTY: Northumberland (Remo)

Oil or Gas: Water:^X Exploratory:

From-To	From-To	From-To	From-To
0 - 10	315 - 325	622 - 632*	-
10 - 21	325 - 336	632 - 642*	-
21 - 31	336 - 346	642 - 652*	-
31 - 42	346 - 357	652 - 662*	-
42 - 52	357 - 367	662 - 672*	-
52 - 63	367 - 378	672 - 677*	-
63 - 73	378 - 388	677 - 682*	-
73 - 84	388 - 399	682 - 692*	-
84 - 94	399 - 409	692 - 702*	-
94 - 105	409 - 420	702 - 712*	-
105 - 115	420 - 430	712 - 714*	-
115 - 126	430 - 441	-	-
126 - 136	441 - 451	-	-
136 - 147	451 - 462	-	-
147 - 157	462 - 472	-	-
157 - 168	472 - 483	-	-
168 - 178	483 - 493	-	-
178 - 189	493 - 504	-	-
189 - 199	504 - 514	-	-
199 - 210	514 - 525	-	-
210 - 220	525 - 535	-	-
220 - 231	535 - 546	-	-
231 - 241	546 - 556	-	-
241 - 252	556 - 562*	-	-
252 - 262	562 - 572*	-	-
262 - 273	572 - 582*	-	-
273 - 283	582 - 592*	-	-
283 - 294	592 - 602*	-	-
no sample	602 - 612*	-	-
304 - 315	612 - 622*	-	-

* unwashed samples only

OWNER: Douglas & Dickinson
(Wicomico Ch.)
DRILLER: Douglas & Dickinson, Inc.
COUNTY: Northumberland (Remo)

VDMR: 1862
WWCR: 137
TOTAL DEPTH: 714'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-42)

0-10	Sand - brown, clayey, a few granules; fine- to coarse-grained, fairly well-sorted, angular to rounded; small amounts feldspar and glauconite; trace of chert, muscovite, limonite, shell
10-21	" "
21-32	" "
32-42	" "

YORKTOWN FORMATION (42-126)

42-52	Sand and Gravel - gray, slightly clayey; about 15% fine-grained gravel (2-10 mm); sand (85%) is medium-grained, moderately sorted, subrounded; traces of feldspar, glauconite, and phosphorite
52-63	" "
63-73	" "
73-84	" 50% sand, 50% gravel
84-94	" 50% sand, 50% gravel, a few pelecypod shell fragments
94-105	Sand - dark-gray, moderately clayey to clayey, 15-20% fine-grained gravel; fine-grained, well-sorted, poorly rounded; traces of glauconite and phosphorite; about 5% pelecypod shell fragments
105-115	" 20-30% granule gravel
115-126	" "

CALVERT FORMATION (126-346)

126-136	Sand and Gravel - gray, clayey; 10-15% fine-grained gravel; 85-90% poorly sorted sand; trace of glauconite; a few shell fragments; locally limonitic; trace of diatoms
136-147	" "
147-157	Clay - medium greenish-gray, slightly pebbly, very slightly sandy; trace of phosphorite, glauconite, and plant fragments; trace of diatoms
157-168	" "
168-178	" moderately sandy
178-189	Sand - brownish-gray, clayey, a few small pebbles; fine- to medium-grained, fairly well-sorted, angular; traces of glauconite and phosphorite; 5% pelecypod shell fragments; trace of diatoms; a few foraminifers
189-199	" fine-grained, very well-sorted; foraminifers common
199-210	" "
210-220	Sand - light greenish-gray, very clayey; fine- to coarse-grained, moderately sorted, (skewed fine) poorly rounded; traces of glauconite and phosphorite; a few shell fragments; a few foraminifers (<u>Siphogenerina Textularia</u>)
220-231	" "
231-241	" "
241-252	Clay - light greenish-gray, moderately sandy; trace of glauconite; a very few plant and shell fragments; moderately diatomaceous; foraminifers common
252-262	" abundant fine-grained, angular quartz sand
262-273	Clay - light - greenish-gray, trace of sand; very diatomaceous; foraminifers present
273-283	" "
283-294	" "
294-304	No sample

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- 304-315 Clay - light greenish-gray, trace of sand, very diatomaceous
- 315-325 " "
- 325-336 Clay - medium brown, very slightly sandy; trace of glauconite; a few plant and shell fragments; a few foraminifers (lenticulinids, globigerinids and Siphogenerina); slightly diatomaceous
- 336-346 " abundant foraminifers (especially Siphogenerina)

CHICKAHOMINY FORMATION (346-399)

- 346-357 Sand - dark-grayish brown, clayey; fine- to very coarse-grained, moderately sorted, subangular to rounded; about 2% platy phosphorite; trace of glauconite; 2-5% pelecypod shell fragments and echinoid spines; a few bone fragments; foraminifers abundant
- 357-367 " "
- 367-378 Sand and Sandstone - light greenish-gray, calcitic and indurated in part; coarse, rather poorly-sorted, rounded and quartzose; fossiliferous (small shell fragments, echinoid spines, abundant foraminifers; ostracods common); small amounts of phosphorite and glauconite
- 378-388 Sand - brownish-gray, moderately clayey, a few small pebbles; coarse, moderately sorted, subrounded; clear quartz; 2% phosphorite (bone), traces of glauconite, pyrite, aragonite; 5-10% shell fragments; foraminifers common but not abundant
- 388-399 Shell - light-gray, clayey, (calcareous); small, abraded fragments, slightly to moderately sandy; traces of glauconite, phosphorite, pyrite; pelecypods, bryozoans, echinoid spines and plates; Late Eocene foraminifers abundant, ostracods abundant.

NANJEMOY FORMATION (399-483)

- 399-409 Sand - dark-gray, moderately clayey; fine- to very coarse-grained, poorly sorted; 65-75% glauconite (fresh to moderately decomposed); 15-25% quartz is stained in part; 10% shell fragments; slightly phosphatic and pyritic; foraminifers and ostracods abundant

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- 409-420 Sand - dark-gray, moderately clayey; fine- to very coarse-grained, poorly sorted; 65-75% glauconite (fresh to moderately decomposed); 15-25% quartz is stained in part; 10% shell fragments; slightly phosphatic and pyritic; foraminifers and ostracods common
- 420-430 Sand - brownish-gray, slightly clayey, trace of granule gravel; medium- to very coarse-grained, fairly well-sorted; 50% subangular to very well-rounded, clear to deeply stained quartz; 40% glauconite and brown goethite (jarosite?) after glauconite; 5% ferricrete; 5% arenaceous limestone; small amount of phosphorite, mostly as bone fragments; a few shell fragments, bryozoans, and lenticulinid foraminifers.
- 430-441 " with 50% arenaceous (glauconitic) limestone
- 441-451 Sand - gray, slightly clayey, 5% quartz granules; medium- to very coarse-grained, moderately sorted; 50% medium- to coarse-grained, dominately fresh glauconite, and 50% coarse- to very coarse-grained, subrounded to well-rounded, clear to stained quartz; a few fragments and nodules of phosphorite; a few limestone fragments, shell fragments, and foraminifers
- 451-462 " quartz is highly stained, very well-rounded
- 462-472 " foraminifers moderately abundant
- 472-483 " "
- MATTAPONI FORMATION (483-672)
- 483-493 Sand - black, very clayey; predominantly fresh glauconite; ostracods common; foraminifers extremely abundant
- 493-504 " "
- 504-514 Sand - black, olive-green clay matrix; medium- to coarse-grained, well sorted; 95% fresh glauconite; 5% quartz; small amount of shell fragments; a very few foraminifers
- 514-525 " "
- 525-535 " "
- 535-546 " "
- 546-556 " "

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- 677-682 Sand - black, moderately clayey (olive-green clay matrix); 85-90% medium- to coarse-grained, moderately sorted glauconite, and 10-15% quartz; shell fragments common but not abundant; a few foraminifers and ostracods
- 682-692 " slightly clayey
- 692-702 Sand - light-gray, clean; coarse-grained, fairly well-sorted, subangular to subrounded; 10% glauconite, moderately feldspathic; minor garnet, muscovite, pyrite
- 702-712 " "
- 712-714 Clay - brown, sandy; glauconitic; a few shell fragments, plant fragments, and limestone fragments

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-42	Columbia Group	Pleistocene
42-126	Yorktown Formation	Late Miocene
126-346	Calvert Formation	Middle Miocene
346-399	Chickahominy Formation	Late Eocene
399-483	Nanjemoy Formation	Middle Eocene
483-672	Mattaponi Formation	Paleocene
672-714	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
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