

INTERVAL SHEET

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VDMR Well No: 1872

Date rec'd: 5/8/67

Sample Interval: from 0 to: 311

PROP: Va. Agricultural Products #2

Number of samples: 29

COMP: Layne-Atlantic Co.

Total Depth: 311

COUNTY: Northampton
(Eastville)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 8	299 311	-	-
8 -18	-	-	-
18 -28	-	-	-
28 -38	-	-	-
38 -55	-	-	-
55 -66	-	-	-
66 -76	-	-	-
76 -86	-	-	-
86 -100	-	-	-
100 -107	-	-	-
107 -117	-	-	-
117-128	-	-	-
128 -138	-	-	-
138-150	-	-	-
150-160	-	-	-
160-178	-	-	-
173-183	-	-	-
183-190	-	-	-
190-200	-	-	-
200-210	-	-	-
210-218	-	-	-
218-224	-	-	-
Hard Clay mix up of sample by driller - no sample saved			
237-247	-	-	-
247-257	-	-	-
257-267	-	-	-
267-271	-	-	-
271-290	-	-	-
290-297	-	-	-
No sample saved Hard Rock	-	-	-

All intervals have both washed and unwashed samples

OWNER: Virginia Agricultural Products, Well #2
DRILLER: Layne-Atlantic Company
COUNTY: Northampton (Eastville)

VDMR: 1872
WWCR: 231
TOTAL DEPTH: 305'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-100')

- 0-8 Sand - orange-brown, trace of clay, a few granules; medium- to coarse-grained, fairly well-sorted, subrounded to rounded; a few grains of decomposed feldspar; quartz is stained orange.
- 8-18 Sand - orange-brown, trace of clay, 10% granule gravel; medium- to very coarse-grained, moderately sorted, subrounded to rounded; a few grains of decomposed feldspar; quartz is stained orange.
- 18-28 Sand - tan, very slightly clayey, 5-10% granule gravel, and a few very small pebbles (4-10 mm.); medium- to very coarse-grained, rather poorly-sorted, subrounded to rounded; partially decomposed feldspar common.
- 28-38 " "
- 38-55 Sand - light-tan, trace of clay, 5-10% granule gravel, and a few small pebbles; medium- to very coarse-grained, fairly well-sorted (skewed fine), subangular to subrounded; clear quartz, with minor amount of partially-decomposed feldspar; trace of magnetite.
- 55-66 " "
- 66-76 " fresh feldspar common.
- 76-86 Sand - light-brown, trace of clay, trace of granule gravel; medium- to coarse-grained, fairly well-sorted, subangular to subrounded; minor feldspar.
- 86-100 " fine- to coarse-grained, moderately sorted.

YORKTOWN FORMATION (100-190')

- 100-107 Clay medium-gray, very sandy; sand is fine-grained, fairly well-sorted, angular; clear quartz, with minor feldspar (coarser grains), muscovite, magnetite; trace of garnet; a few shell fragments; a very few echinoid spines, and foraminifers.

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- 107-117 Clay - medium-gray, very sandy; sand is fine-grained, fairly well-sorted, angular; clear quartz, with minor feldspar (coarser grains), muscovite, magnetite; trace of garnet; a few shell fragments; a very few echinoid spines, and foraminifers.
- 117-128 " "
- 128-138 " "
- 138-150 Sand - medium-gray, with greenish cast, moderately clayey; fine-grained, well-sorted, angular; clear quartz, with minor amounts of magnetite, muscovite, and medium- to coarse-grained feldspar; traces of glauconite and garnet; 10% coarse shell fragments.
- 150-160 " moderately clayey.
- 160-173 Sand and Shell - medium-gray, slightly to moderately clayey; fine- to medium-grained, fairly well-sorted, subangular to subrounded; about 30% pelecypod shells and shell fragments, and a few gastropods and corals.
- 173-183 " "
- 183-190 Sand and Shell - brownish-gray, very slightly clayey; fine- to coarse-grained, moderately sorted, angular to rounded; slightly feldspathic; 15-20% pelecypod shell fragments.

CALVERT FORMATION (190-311⁺)

- 190-200 Sand - medium greenish-gray, clayey; fine- to medium-grained, fairly well-sorted, angular to subangular; clear to greenish quartz, with 5% fresh glauconite, and small amounts of magnetite and muscovite; trace of phosphorite; 2-5% shell fragments, and a very few foraminifers.
- 200-210 " "
- 210-218 " "
- 218-224 Sand - light-brown, very slightly clayey (locally limonitic); medium-grained, well-sorted, subangular; about 5% glauconite, mostly in the form of coarse (1-3 mm) light-green, decomposed grains and balls of glauconitic clay; a few shell fragments.
- 224-337 No sample.

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- 237-247 Sand and Shell - brownish-gray, slightly clayey; 50% fine- to medium-grained, well-sorted, slightly glauconitic sand; 50% coarse pelecypod shell debris.
- 247-257 Sand - brownish-gray, slightly clayey; fine- to medium-grained, well-sorted, angular to subangular; clear to greenish quartz, with about 2% fresh glauconite; 10% pelecypod shell fragments and a few echinoid spines.
- 257-267 " "
- 267-271 " "
- 271-290 Sand and Shell - brownish-gray, slightly clayey; fine- to coarse-grained, moderately sorted, subangular to subrounded; very slightly glauconitic; minor magnetite; trace of garnet; 20% pelecypod shell fragments and a few gastropods.
- 290-297 " "
- 297-299 No sample.
- 299-311 Sand and Shell - brownish-gray, slightly clayey; 70% fine- to medium-grained, fairly well-sorted, very slightly glauconitic sand; 30% coarse pelecypod shell fragments.

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-100	Columbia Group	Pleistocene
100-190	Yorktown Formation	Late Miocene
190-311	Calvert Formation	Middle Miocene

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
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