

INTERVAL SHEET

WWCR - 66

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VDMR Well No: 1855

Date rec'd: 4/14/67

Sample Interval: from 0 to 790

PROP: Luttrellsville

Number of samples: 77

COMP: Douglas & Dickinson

Total Depth: 790

COUNTY: Richmond (Luttrellsville)

Oil or Gas: Water: ^X Exploratory:

From-To	From-To	From-To	From-To
0 - 10	315 - 326	631 - 643	-
10 - 21	326 - 336	643 - 653	-
21 - 31	336 - 347	653 - 664	-
31 - 41	347 - 357	664 - 674	-
41 - 52	357 - 368	674 - 683	-
52 - 63	368 - 378	683 - 693	-
63 - 73	378 - 389	693 - 700	-
73 - 84	389 - 399	700 - 709	-
84 - 94	399 - 410	709 - 720	-
94 - 105	410 - 420	720 - 730	-
105 - 115	420 - 431	730 - 741	-
115 - 126	431 - 441	741 - 751	-
126 - 136	441 - 452	751 - 762	-
136 - 147	452 - 462	762 - 772	-
147 - 157	462 - 473	772 - 777	-
157 - 168	473 - 483	777 - 787	-
168 - 178	483 - 494	787 - 790	-
178 - 189	494 - 504	-	-
189 - 199	504 - 515	-	-
199 - 210	515 - 525	-	-
210 - 221	525 - 536	-	-
221 - 231	536 - 546	-	-
231 - 242	546 - 557	-	-
242 - 252	557 - 567	-	-
252 - 263	567 - 578	-	-
263 - 273	578 - 588	-	-
273 - 284	588 - 600	-	-
284 - 294	600 - 610	-	-
294 - 305	610 - 621	-	-
305 - 315	621 - 631	-	-

No washed samples

OWNER: Douglas & Dickinson (Luttrellsville)
DRILLER: Douglas & Dickinson, Inc.
COUNTY: Richmond (Luttrellsville)

VDMR: 1855
WWCR: 66
TOTAL DEPTH: 790'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-41')

0-10 Sand - yellowish-brown, slightly clayey; fine- to coarse-grained, moderately sorted, subrounded; slightly feldspathic; trace of glauconite; trace of pelecypod shell

10-21 "

21-31 "

31-41 "

YORKTOWN FORMATION (41-105')

41-52 Sand - gray, clean; medium- to very coarse-grained, moderately sorted, subrounded to well-rounded; slightly feldspathic; very slightly glauconitic and phosphatic (bone and shell fragments); about 5% pelecypod shell fragments

52-63 "

63-73 "

73-84 "

84-94 Sand - tan, trace of clay; fine-grained, well-sorted, angular to subangular; very small amounts of glauconite, phosphorite, muscovite, feldspar; about 2% shell fragments

94-105 "

CALVERT FORMATION (105-336')

105-115 Clay - dark-gray with greenish cast, slightly sandy, 5% granule gravel, including a very few phosphate nodules; trace of glauconite; a few pelecypod shell fragments

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- 115-126 Clay - brownish-gray, moderately sandy, slightly pebbly (granules); sand is fine- to medium-grained, fairly well-sorted, angular to subrounded; traces of glauconite and phosphorite; a few pelecypod and gastropod shell fragments
- 126-136 "
- 136-147 "
- 147-157 "
- 157-168 "
- 168-178 "
- 178-189 "Turritella present
- 189-199 Clay - light greenish-gray, moderately silty and sandy; sand is fine- to very fine-grained, well-sorted; trace of phosphorite and glauconite; pelecypod shell fragments common; a few plant fragments; moderately diatomaceous
- 199-210 "
- 210-221 "
- 221-231 "
- 231-242 Sand - light greenish-gray, clayey; medium-grained, moderately sorted, subrounded; small amount partially decomposed feldspar; trace of glauconite; slightly diatomaceous
- 242-252 Clay - light-gray with greenish cast, moderately silty and sandy; sand is fine- to very fine-grained, well-sorted; traces of phosphorite and glauconite; a very few pelecypod shell fragments; moderately diatomaceous
- 252-263 "
- 263-273 "
- 273-284 "
- 284-294 "
- 294-305 "

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305-315 Clay - light-gray with greenish cast, moderately silty and sandy; sand is very fine- to coarse-grained, rather poorly sorted; traces of phosphorite and glauconite; a very few pelecypod shell fragments; moderately diatomaceous

315-326 "

326-336 "

CHICKAHOMINY FORMATION (336-378')

336-347 Sand - gray, moderately clayey; fine- to coarse-grained, rather poorly sorted, angular to subrounded; traces of phosphatic shell, glauconite, and carbonaceous material; 10% pelecypod shell fragments

347-357 "

357-368 " clayey (diatomaceous clay)

368-378 " "

NANJEMOY FORMATION (378-483')

378-389 Limestone - light-gray, arenaceous; abundant medium-grained, quartz-glauconite sand, molluscan shells and shell fragments very abundant; some gastropods, bryozoans, foraminifers, and ostracods; cavernous, pyritic; limited replacement of allochthonous glauconite by sulfides

389-399 Sand and Limestone - light-gray; sand (65%) is fine- to coarse-grained, moderately sorted, subangular to subrounded; moderately glauconitic, trace of phosphorite; 35% arenaceous, cavernous, pyritic, and fossiliferous limestone (mostly pelecypods, some gastropods, bryozoans, echinoids, foraminifers); allochthonous, blackish-green, furrowed grains of glauconite, and rounded grains of goethite after glauconite

399-410 "

410-420 "

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- 420-431 Sand - medium-greenish-brown, slightly clayey; medium-grained, moderately sorted; glauconitic; abundant shell fragments and limestone fragments; stained quartz common
- 431-441 "
- 441-452 "
- 452-462 " dark-gray, very glauconitic
- 462-473 " "
- 473-483 " "

MATTAPONI FORMATION (483-631')

- 483-494 Sand - binder of brownish-gray clay, 5% rounded quartz granules; coarse- to very coarse-grained, moderately sorted; fresh, autochthonous glauconite with subordinate rounded quartz
- 494-504 "
- 504-515 Sand - dark-gray, with greenish-cast, moderately clayey (pale-green clay); coarse- to very coarse-grained, fairly well-sorted; 70-80% fresh, autochthonous glauconite, 20-30% rounded quartz; a few shell fragments
- 515-525 "
- 525-536 "
- 536-546 "
- 546-557 " clayey (clay is predominantly dark-gray, subordinately pale-pink)
- 557-567 " "
- 567-578 " "
- 578-588 " "
- 588-600 Sand - black, very slightly clayey; coarse-grained, moderately sorted; 50-70% fresh glauconite, 30-50% rounded and stained quartz; trace of feldspar; a few abraded pelöcy pod shells fragments and foraminifers (Nodosaria)

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600-610 Sand - black, very slightly clayey; coarse-grained, moderately sorted; 50-70% fresh glauconite, 30-50% rounded and stained quartz; trace of feldspar; a few abraded pelecypod shell fragments and foraminifers (Nodosaria)

610-621 " medium-gray, moderately clayey

621-631 " "

PATUXENT FORMATION (631-790')

631-643 Sand - medium-gray, slightly clayey (yellow clay in part); fine- to very coarse-grained, poorly sorted; 70% subangular to subrounded quartz, 25% glauconite, 5% feldspar; traces of muscovite, phosphorite, and shell fragments; a very few Dentalina

643-653 "

653-664 "

664-674 "

674-683 Sand - brownish-gray, slightly clayey, a few granules; medium- to very coarse-grained, rather poorly sorted, subangular to subrounded; clear quartz, with 5-10% glauconite and about 5% feldspar; trace of muscovite

683-693 "

693-700 Sand - gray-brown, slightly clayey; fine- to coarse-grained, moderately sorted; 40% glauconite, 40-45% quartz, 5-10% feldspar; trace of shell fragments

700-709 "

709-720 Clay - greenish gray, mottled yellow, variably silty and micaceous, moderately sandy; sand is poorly sorted, glauconitic, slightly feldspathic

720-730 "

730-741 "

741-751 "

751-762 "

762-772 "

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- 772-777 Clay - greenish gray, mottled yellow, variably silty and micaceous, moderately sandy; sand is poorly sorted, glauconitic, slightly feldspathic
- 777-787 Sand - brown, trace of silt and clay; medium-grained, fairly well-sorted, subangular to subrounded; 10-20% fresh feldspar, 2-5% glauconite; traces of muscovite, garnet and shell fragments
- 787-790 "

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-41 [†]	Columbia Group	Pleistocene
41-105 [†]	Yorktown Formation	Late Miocene
105-336 [†]	Calvert Formation	Middle Miocene
336-378 [†]	Chickahominy Formation	Late Eocene
378-483 [†]	Nanjemoy Formation	Middle Eocene
483-631 [†]	Mattaponi Formation	Paleocene
631-790 [†]	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
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