INTERVAL SHEET

WWCR 24

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VDMR Well No.: Well No. 927

Date 12-10-63

Sample Interval: from 20 to 805

PROP: T. K. Ellis Well #5

Total depth 808

COMP: Sydnor

Oil ___ Gas ___ Water X Exploratory ___

COUNTY: Bath (Hot Springs)

Cuttings X Core ___ Other ___

VDMR Well No: W-927

Washed samples - only

From-To	From-To	From-To	From-To	From-To
-	-	20 -	595-	-
-	-	30 -	610-	-
-	-	40 -	625-	-
-	-	60 -	640-	-
-	-	80 -	655-	-
-	-	105 -	670-	-
-	-	123 -	685-	-
-	-	138 -	700-	-
-	-	153 -	715-	-
-	-	168 -	730-	-
		183 -		
-	-	198 -	730_735	-
-	-	213 -	745-	-
-	-	228 -	760-	-
-	-	243 -	775-	-
-	-	355 -	790-	-
-	-	375 -	805-	-
-	-	390 -	805-808 No sample	-
-	-	405 -	-	-
-	-	420 -	-	-
-	-	426 - 428	-	-
-	-	428 - 435	-	-
-	-	458 -	-	-
-	-	473 -	-	-
-	-	480 -	-	-
-	-	495 -	-	-
-	-	510 -	-	-
-	-	525 -	-	-
-	-	540 -	-	-
-	-	555 -	-	-
-	-	570 -	-	-

OWNER: T. K. Ellis - Well #5
DRILLER: Sydnor Pump and Well
COUNTY: Bath

VDMR #927
WWCR #24
TOTAL DEPTH: 808'

GEOLOGIC LOG

Eggleston Formation (20-243' ?)

20	Limestone and Shale — gray, fine-grained argillaceous, fossiliferous limestone; yellow to greenish-gray, weathered shale; some nodules of earthy hematite; fossils in limestone are predominantly brachiopods (biconvex, strongly plicate), with some Favosites-type corals.
30	As above — but limestone in less fossiliferous.
40	Limestone — medium-gray, fine-grained, shaly, slightly fossiliferous; small amount of yellow to greenish-gray shale; moderate amount of vein calcite; fossils in limestone are brachiopods, some corals.
60	Limestone and Shale — gray, fine-grained, argillaceous, slightly fossiliferous limestone with yellow shale partings, gray, moderately fissile, very limey shale; some vein calcite, fossils in limestone are brachiopods, some corals.
80	As above.
105	Limestone and Shale — dark-gray, uniformly fine-grained, slightly argillaceous, slightly fossiliferous limestone; dark-gray, slightly fissile, limey shale; some vein calcite; fossils are brachiopods, some corals.
123	As above.
138	As above.
153	Limestone and Shale — gray, fine-grained, slightly fossiliferous limestone; gray, limey shale; some greenish-gray, nonfissile shale; some vein calcite; fossils are brachiopods, some corals.
168	Limestone and Shale — dark-gray to black, very-fine-grained, argillaceous, slightly fossiliferous limestone; black, moderately fissile, slightly limey shale; some vein calcite; fossils are brachiopods, some corals.
183	As above — but with much vein calcite.
198	Shale — dark-gray to black, limey, moderately fissile, fossiliferous; fossils are mostly brachiopods.

OWNER: T. K. Ellis - Well #5 #927

213 Shale — dark-gray to black, limey, less fissile, fossiliferous; fossils are mostly brachiopods, weathered in part to brownish-yellow.

228 Shale — dark-gray, blacky fracturing to slightly fissile, limey; some vein calcite; some brachiopods.

243 Shale — buff, moderately fissile shale with iron dendrites on bedding surfaces, and gray, slightly fissile, slightly limey shale with scattered brachiopods; some vein calcite.

Moccasin Formation (243-700' ?)

355 Limestone — dark-gray, very-fine-grained, argillaceous; some vein calcite.

375 As above.

390 As above — but fine-grained.

405 Limestone and Shale — gray, fine- to medium-grained limestone; black, moderately fissile shale; moderately abundant vein calcite; trace of pyrite.

420 Shale and Limestone — dark-gray, blacky fracturing, limey shale with trace of pyrite; subordinate amount of gray, fine-grained limestone.

426-428 Shale and Limestone — dark-gray, blacky fracturing, limey shale, and black, fissile, slightly limey shale; small amount medium-gray, fine-grained limestone; very abundant vein calcite.

428-435 Shale and Limestone — dark-gray, blacky fracturing, limey shale; medium gray, fine- to medium-grained, limestone; abundant vein calcite.

458 Limestone — gray (fresh) to buff (weathered), fine-grained; small amount dark-gray, limey shale; abundant vein calcite.

473 Shale — black, carbonaceous, slightly limey.

480 Limestone and Shale — dark-gray, very-fine-grained limestone; black, non-fissile, limey shale; some vein calcite.

495 As above.

510 As above.

525 As above — but with some buff (weathered) limestone.

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540	Limestone — dark-gray, very-fine-grained, very argillaceous.
555	As above.
570	As above — with some weathering and buff to brown clay.
595	Limestone — very-dark-gray, very-fine-grained, very argillaceous.
610	As above.
625	As above.
640	As above.
655	Limestone — medium-gray to dark-gray, very-fine-grained, moderately argillaceous.
670	As above.
685	As above.
700	Limestone — medium-gray, very-fine-grained, slightly argillaceous.

McGlone Formation (715-760' ?)

715	Limestone — gray, with greenish tint, to olive lithographic limestone; slightly argillaceous.
730	As above.
730-735	As above — but with some yellow to brown shale with dendrites abundant vein calcite.
745	Limestone — medium-gray, lithographic limestone; some yellow to brown clay with dendrites; abundant vein calcite; trace of pyrite.
760	As above.

Benbolt Formation (775-805' ?)

775	Limestone — dove-gray, lithographic limestone; abundant pyrite (complex forms and penetration twins).
790	As above — but with less pyrite.

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805	Limestone — dove-gray to medium-gray, lithographic limestone; moderate amount of pyrite (complex forms).
805-808	No sample.

GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
20-243 (?)	Eggleston Formation	Upper Middle Ordovician
243-700 (?)	Moccasin Formation	Upper Middle Ordovician
715-760 (?)	McGlone Formation	Upper Middle Ordovician
775-805 (?)	Benbolt Formation	Upper Middle Ordovician
805-808	No sample	

Formation thickness given above are questionable because the contacts occur between sampled intervals. This is especially true for the Eggleston-Moccasin contact that occurs in a 108-foot interval for which there are no samples.

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
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