

INTERVAL SHEET

WWCR 497

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VDMR Well No.: 1254

Date 2/16/65

Sample Interval: from 1 to 350

PROP: Town of Elkton

Total depth 352

COMP: Sydnor Pump & Well Co.

Oil Gas Water Exploratory

COUNTY: Rockingham (Elkton)

Cuttings Core Other

VDMR Well No: W-1254

WASHED SAMPLES

From-To	From-To	From-To	From-To	From-To
-	-	1 - 40	340 - 350	-
-	-	40 - 50	350 - 352 No Sample	-
-	-	50 - 60	-	-
-	-	60 - 70	-	-
-	-	70 - 80	-	-
-	-	80 - 90	-	-
-	-	90 - 100	-	-
-	-	100 - 110 No Sample	-	-
-	-	110 - 120	-	-
-	-	120 - 130	-	-
-	-	130 - 140	-	-
-	-	140 - 150	-	-
-	-	150 - 160	-	-
-	-	160 - 170	-	-
-	-	170 - 180 No Sample	-	-
-	-	180 - 190	-	-
-	-	190 - 200	-	-
-	-	200 - 210	-	-
-	-	210 - 220	-	-
-	-	220 - 230	-	-
-	-	230 - 240	-	-
-	-	240 - 250	-	-
-	-	250 - 260	-	-
-	-	260 - 280 No Sample	-	-
-	-	280 - 290	-	-
-	-	290 - 300	-	-
-	-	300 - 310	-	-
-	-	310 - 320	-	-
-	-	320 - 330	-	-
-	-	330 - 340	-	-

OWNER: Town of Elkton
DRILLER: Sydnor Pump and Well Company, Inc.
COUNTY: Rockingham

VDMR # 1254
WWCR # 497
TOTAL DEPTH : 352'

GEOLOGIC LOG

Alluvium (1-40')

1-40 Sand - yellowish-brown; very-fine-to fine-grained; fragments of quartzite and of platy and nodular clay ironstone; abundant magnetite.

Elbrook (?) Formation (40-350')

40-50 Quartzite and Limestone - medium-grained-quartzite; fine-grained limestone; very siliceous; some fragments of clay ironstone, vein calcite, and chert.

50-60 Limestone - buff (iron stained) to gray (fresh); sandy; fragments of clay ironstone.

60-70 Limestone - buff (iron stained) to gray (fresh); sandy; some vein calcite; platy and nodular clay ironstone.

70-80 Sandstone and Shale - buff (iron stained); sandstone fine-grained, argillaceous, calcareous, banded; abundant clay ironstone (dark gray, botryoidal masses and laminated brown masses of iron and manganese oxides); manganese oxide abundant as olendritic growths on bedding planes in shale and fractures in sandstone.

80-90 Sandstone and Clay Ironstone - brown to yellow to dark-gray; sand fine-grained, ferruginous; some nodules and botryoidal masses of manganese; a few fragments of chert, quartz, limestone, and shale.

90-100 Limestone - buff (iron stained) to light-gray (fresh); abundant clay ironstone; some gray chert.

100-110 No Sample

110-120 Limestone - several lithologic types; some clay ironstone.

120-130 Limestone - gray; fine-grained; some calcite veins; small amount clay ironstone, including some earthy hematite.

130-140 As above - but clay ironstone much more abundant.

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- 140-150 Limestone and Clay Ironstone - buff and brown; limestone fine-grained, gray on fresh surfaces.
- 150-160 As above - but clay ironstone much more abundant.
- 160-170 As above
- 170-180 No Sample
- 180-190 Clay Ironstone and Limonite - much of coherent clay ironstone is altered to more friable limonite; a few fragments of weathered limestone.
- 190-200 Sandstone and Clay Ironstone - sandstone very-fine-grained, buff weathering, ferruginous, and very calcitic (quartz, feldspar, chert and calcite cement); clay ironstone is, in part, limonitic and friable.
- 200-210 Sandstone - buff (weathered) to gray (fresh); very fine-grained; very calcitic.
- 210-220 Sandstone and Clay Ironstone - sandstone is buff (weathered) to gray (fresh), very-fine-grained, calcitic, with some calcite veinlets.
- 220-230 As above
- 230-240 As above - but with less clay ironstone.
- 240-250 Sandstone - buff, fine-grained, ferruginous, calcitic; scattered fragments of chert.
- 250-260 Sandstone - gray (fresh) to buff (weathered); fine-grained; calcitic.
- 260-280 No Sample
- 280-290 Limestone and Sandstone - limestone gray, very-fine-grained; sandstone buff, ferruginous, fine-grained, calcitic; some clay ironstone.
- 290-300 As above
- 300-310 Sandstone and Clay Ironstone - sandstone very-fine-grained, deeply weathered (buff), calcitic.
- 310-320 As above - but with some fragments of chert and vein calcite.

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- 320-330 Sandstone and Dolomite - sandstone very fine-grained, buff (weathered), moderately calcitic; dolomite-very-dark-gray, impure, medium-grained, and contains very thick veins of very coarse, very pure, white dolomite.
- 330-340 Limestone - medium-gray; very-fine-grained, very dense and coherent, and slightly siliceous; small amount clay ironstone; some buff-weathering, fine-grained sandstone.
- 340-350 As above - but with more clay ironstone and a little chert.
- 350-352 No Sample

GEOLOGIC SUMMARY

<u>Thickness (in feet)</u>	<u>Rock Unit</u>	<u>Time Rock unit</u>
1-40	Alluvium	Recent
40-350	Elbrook (?) Formation	Cambrian
350-352	No Sample	

*Because much of the colloidal and interstitial materials were washed from the cuttings during drilling, and because of the considerable contamination of most samples from up-hole unconsolidated materials and raveling sidewalls, it is not possible to determine if this well penetrated the lower Elbrook or the upper Rome Formation; the former is more probable due to structural and spatial considerations.

VIRGINIA DIVISION OF MINERAL RESOURCES
 Robert H. Teifke - Geologist
 March 8, 1965