

INTERVAL SHEET

WWCR 889

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VDMR Well No.: Well No. 899

Date 10/15/63

Sample Interval: from 0 to 680

PROP: Crozet Sanitary District #4

Total depth 705

COMP: Sydnor

Oil Gas Water Exploratory

COUNTY: Albemarle (Crozet)

Cuttings Core Other

VDMR Well No: W-899

Washed samples - only

From-To	From-To	From-To	From-To	From-To
-	-	0 - 10	300 - 310	600 - 610
-	-	10 - 20	310 - 320	610 - 620
-	-	20 - 30	320 - 330	620 - 630
-	-	30 - 40	330 - 340	630 - 640
-	-	40 - 50	340 - 350	640 - 650
-	-	50 - 60	350 - 360	650 - 660
-	-	60 - 70	360 - 370	660 - 670
-	-	70 - 80	370 - 380	670 - 680
-	-	80 - 90	380 - 390	680 - 705 No sampl
-	-	90 - 100	390 - 400	-
-	-	100 - 110	400 - 410	-
-	-	110 - 120	410 - 420	-
-	-	120 - 130	420 - 430	-
-	-	130 - 140	430 - 440	-
-	-	140 - 150	440 - 450	-
-	-	150 - 160	450 - 460	-
-	-	160 - 170	460 - 470	-
-	-	170 - 180	470 - 480	-
-	-	180 - 190	480 - 490	-
-	-	190 - 200	490 - 500	-
-	-	200 - 210	500 - 510	-
-	-	210 - 220	510 - 520	-
-	-	220 - 230	520 - 530	-
-	-	230 - 240	530 - 540	-
-	-	240 - 250	540 - 550	-
-	-	250 - 260	550 - 560	-
-	-	260 - 270	560 - 570	-
-	-	270 - 280	570 - 580	-
-	-	280 - 290	580 - 590	-
-	-	290 - 300	590 - 600	-

OWNER: Town of Crozet Well #4
DRILLER: Sydnor Pump & Well Co., Inc.
COUNTY: Albemarle

VDMR #899
WWCR #889
TOTAL DEPTH: 705'

GEOLOGIC LOG

Overburden (0-60')

- 0-10 Overburden — tan, with some green and purplish grains, medium-grained, quartz, epidote; sericite, schist fragments.
- 10-20 As above (with additional chlorite schist fragments; X-ray analysis: Quartz 75%, plagioclase 10%, potassic feldspar 10%, chlorite 5%).
- 20-30 Overburden — tan, medium- to coarse-grained, angular to subangular, quartz, epidote, feldspar.
- 30-40 Overburden — tan, medium- to coarse-grained, angular to subangular, pink feldspar, quartz; sericite schist fragments.
- 40-50 As above.
- 50-60 As above.

Swift Run Formation (60-680')

- 60-70 Arkose — grayish-pink, medium-grained, angular to sub-rounded, quartz, pink feldspar, epidote, (X-ray analysis: Quartz 40%, potassic feldspar 40%, plagioclase 20%).
- 70-80 As above.
- 80-90 Schist (weathered) — tan- to grayish-green, fine-grained, chlorite, sericite, quartz, (X-ray analysis: Quartz 20%, potassic feldspar 30%, plagioclase 20%, sericite 12%, clay 18%).
- 90-100 As above.
- 100-110 As above.
- 110-120 Metamorphosed Arkose — green, medium-grained, chlorite, quartz, fine-grained sericite, pink feldspar.
- 120-130 Metamorphosed Arkose — dark-green, fine- to medium-grained, biotite, sericite, quartz, feldspar.
- 130-140 As above.

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- 140-150 Metamorphosed Arkose — dark-green, fine- to medium-grained, biotite, sericite, quartz, feldspar.
- 150-160 As above (with pink vein feldspar and vein quartz).
- 160-170 As above.
- 170-180 Metamorphosed Arkose — dark-green, fine- to medium-grained, biotite, sericite, quartz, feldspar, and minor carbonate.
- 180-190 As above.
- 190-200 As above.
- 200-210 As above (with considerable vein quartz and feldspar).
- 210-220 Metamorphosed Arkose — dark-green, fine- to medium-grained, biotite, sericite, quartz, and minor feldspar.
- 220-230 As above.
- 230-240 As above.
- 240-250 As above.
- 250-260 As above.
- 260-270 As above.
- 270-280 As above.
- 280-290 As above (with considerable amounts of vein pink feldspar and quartz).
- 290-300 As above.
- 300-310 As above.
- 310-320 Metamorphosed Arkose — dark-green, fine- to medium-grained, biotite, fine- grained sericite, quartz, pink feldspar, (X-ray analysis: Quartz 40%, potassic feldspar 25%, plagioclase 15%, biotite 20%).
- 320-330 As above.
- 330-340 As above.

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- 340-350 Metamorphosed Arkose — dark-green, fine- to medium-grained, biotite, fine-grained sericite, quartz, pink feldspar.
- 350-360 As above.
- 360-370 As above.
- 370-380 As above.
- 380-390 Metamorphosed Arkose — dark-green, fine- to medium-grained, biotite, fine-grained sericite, quartz, pink feldspar.
- 390-400 As above.
- 400-410 As above (increasing sericite, decreasing biotite).
- 410-420 As above.
- 420-430 As above.
- 430-440 Metamorphosed Arkose — gray, fine- to medium-grained, fine-grained sericite, quartz, feldspar, minor biotite, (X-ray analysis: Quartz 40%, potassic feldspar 25%, plagioclase 20%, biotite 15%).
- 440-450 As above.
- 450-460 As above.
- 460-470 As above.
- 470-480 As above.
- 480-490 As above.
- 490-500 As above.
- 500-510 Metamorphosed Arkose — gray, fine- to medium-grained, fine-grained sericite, quartz, feldspar (minor pink), minor biotite.
- 510-520 As above.
- 520-530 As above.
- 530-540 As above.

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- 540-550 Metamorphosed Arkose — gray, fine- to medium-grained, fine-grained sericite, quartz, feldspar (minor pink), minor biotite.
- 550-560 As above (dimenishing biotite).
- 560-570 As above.
- 570-580 As above.
- 580-590 As above.
- 590-600 As above.
- 600-610 Metamorphosed Arkose — gray, medium-grained, quartz, fine-grained sericite, feldspar, minor biotite.
- 610-620 As above.
- 620-630 As above (with minor muscovite).
- 630-640 As above (with traces of biotite).
- 640-650 As above.
- 650-660 Metamorphosed Arkose — gray, fine- to medium-grained, quartz, pink and white feldspar, biotite, fine-grained sericite.
- 660-670 As above (graywacke appearance, with quartz and feldspar clasts notable), (X-ray analysis: Quartz 35%, plagioclase 25%, potassic feldspar 15%, chlorite 15%, biotite 10%).
- 670-680 As above.
- 680-705 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-10	Overburden	Recent
10-680	Swift Run Formation	Precambrian
680-705	No sample	

Virginia Division of Mineral Resources
Villard S. Griffin, Jr., Geologist
July 21, 1964