

INTERVAL SHEET

WWCR 784

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VDMR Well No.: Well No. 958

Date 2/4/64

Sample Interval: from 60 to 320

PROP: Crozet Sanitary District #3

Total depth 325

COMP: Sydnor

Oil Gas Water Exploratory

COUNTY: Albemarle (Crozet)

Cuttings Core Other

VDMR Well No : W-958

Washed samples - only

From-To	From-To	From-To	From-To	From-To
-	-	0 - 60	No sample	-
-	-	60 - 70		-
-	-	70 - 80		-
-	-	80 - 90		-
-	-	90 - 100		-
-	-	100 - 110		-
-	-	110 - 120		-
-	-	120 - 130		-
-	-	130 - 140		-
-	-	140 - 150		-
-	-	150 - 160		-
-	-	160 - 170		-
-	-	170 - 180		-
-	-	180 - 190		-
-	-	190 - 200		-
-	-	200 - 210		-
-	-	210 - 220		-
-	-	220 - 230		-
-	-	230 - 240		-
-	-	240 - 250		-
-	-	250 - 260		-
-	-	260 - 270		-
-	-	270 - 280		-
-	-	280 - 290		-
-	-	290 - 300		-
-	-	300 - 310		-
-	-	310 - 320		-
-	-	320 - 325	No sample	-
-	-	-		-
-	-	-		-

OWNER: Crozet Sanitary Well #3
DRILLER: Sydnor Pump & Well Co., Inc.
COUNTY: Albemarle (Crozet)

VDMR #958
WWCR #784
TOTAL DEPTH: 325'

GEOLOGIC LOG

- 0-60 No sample.
- Overburden (60-70')
- 60-70 Overburden — medium-brown to white, very-coarse-grained, feldspar, quartz, biotite, minor graphite, muscovite, chlorite, clay; iron staining.
- Virginia Blue Ridge Complex (70-320')
- 70-80 Granitic Gneiss — medium-gray-greenish, coarse- to medium-grained, quartz, feldspar, garnet (white pyrope) sericite, chlorite, graphite flakes, minor pyrite, magnetite and ilmenite; feldspar mostly altered to sericite.
- 80-90 As above.
- 90-100 Granitic Gneiss — medium pinkish-gray, medium-grained, microcline and plagioclase (oligoclase), quartz, garnet (pink pyrope); minor muscovite, biotite, graphite, ilmenite, pyrite; much of the feldspar is altered to sericite.
- 100-110 As above — less garnet.
- 110-120 Sandstone — medium-brown, medium-grained, porous, quartz, minor sericite, carbonaceous fragments; iron oxides. (This material does not agree with the related lithology or the driller log and may be due to contamination during sampling).
- 120-130 Granitic Gneiss — medium pinkish-gray, medium-grained, potash and plagioclase feldspar, quartz, garnet, minor muscovite, biotite, graphite, ilmenite, and pyrite.
- 130-140 Sandstone — medium reddish-brown, medium- to coarse-grained, quartz; minor sericite and carbonaceous material, iron oxide vein quartz; (this material does not agree with the related lithology or the driller log and may be due to contamination during sampling).
- 140-150 As above.
- 150-160 As above.
- 160-170 As above.
- 170-180 As above.

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- 180-190 Gneiss ? — (this sample is too finely ground to properly name the rock), light-gray, medium-grained, potash feldspar, plagioclase, quartz, garnet, graphite, biotite, sericite; minor limonite and pyrite, pyroxene, epidote, dolomite and chlorite; some blue quartz.
- 190-200 Gneiss — black to light-gray, banded, fine- to coarse-grained, plagioclase, potash feldspar, garnet, biotite, graphite, chlorite, pyroxene, dolomite; minor magnetite.
- 200-210 As above — minor iron staining.
- 210-220 As above — no iron staining.
- 220-230 As above — with relict quartz pebble 3/8 in. long.
- 230-240 Granitic Gneiss — light-gray with dark-gray areas, fine- to coarse-grained, potash feldspar, plagioclase, quartz, garnet, biotite, graphite, pyrite, ilmenite, chlorite, minor magnetite; some blue quartz.
- 240-250 As above.
- 250-260 As above.
- 260-270 As above — minor oxidation.
- 270-280 Granitic Gneiss — light-gray, medium- to coarse-grained, feldspar, quartz, garnet, biotite, graphite, ilmenite; minor pyrite, pyroxene, dolomite, epidote; some blue quartz; minor oxidized zone.
- 280-290 As above.
- 290-300 As above — some mica is lavender colored.
- 300-310 Granitic Gneiss — medium-gray with white and pink, coarse-grained, quartz, potash feldspar, plagioclase, garnet; minor graphite, epidote, dolomite, ilmenite, biotite, and pyrite; minor oxidation zone.
- 310-320 As above — with more biotite.
- 320-325 No sample.

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GEOLOGIC SUMMARY

It seems strange to find oxidized sandstone (at 110-120 and 130-180) in the midst of a Gneiss.

	<u>ROCK UNIT</u>	<u>TIME ROCK OUT</u>
0-60	No sample	
60-70	Overburden	
70-320	Virginia Blue Ridge Complex	Precambrian
320-325	No sample	

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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