

INTERVAL SHEET

WWCR 144

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VDMR Well No.: Well No. 1104

Date 7-27-64

Sample Interval: from 0 to 360

PROP: Arrowhead Subdivision

Total depth 390

COMP: Sydnor

Oil Gas Water Exploratory

COUNTY: Chesterfield
(Richmond)

Cuttings Core Other

VDMR Well No: W-1104

Washed Samples only

From-To	From-To	From-To	From-To	From-To
-	-	0 - 10	290 - 300	-
-	-	10 - 20	300 - 310	-
-	-	20 - 30	310 - 320	-
-	-	30 - 40	320 - 330 no sample	-
-	-	40 - 50	330 - 340	-
-	-	50 - 60	340 - 350	-
-	-	60 - 70	350 - 360	-
-	-	70 - 80	360 - 390 no sample	-
-	-	80 - 90	-	-
-	-	90 - 100	-	-
-	-	100 - 110 no sample	-	-
-	-	110 - 120	-	-
-	-	120 - 130	-	-
-	-	130 - 140	-	-
-	-	140 - 150	-	-
-	-	150 - 160	-	-
-	-	160 - 170	-	-
-	-	163 - 165	-	-
-	-	170 - 180	-	-
-	-	180 - 190	-	-
-	-	190 - 200	-	-
-	-	200 - 210	-	-
-	-	210 - 220	-	-
-	-	220 - 230	-	-
-	-	230 - 240	-	-
-	-	240 - 250	-	-
-	-	250 - 260	-	-
-	-	260 - 270	-	-
-	-	270 - 280	-	-
-	-	280 - 290	-	-

OWNER: Barr Corporation
(Arrowhead Subdivision)
DRILLER: Sydnor Pump & Well Co., Inc.
COUNTY: Chesterfield (Richmond)

VDMR # 1104
WWCR # 144
TOTAL DEPTH: 390

GEOLOGIC LOG

0- 10	Overburden - light-pinkish-brown, coarse-grained; weathered granite; potash feldspar, quartz, plagioclase, muscovite, clay; minor tourmaline; oxidation.
10-20	Weathered Granite - white, gray, light-brown; coarse-grained; potash feldspar, quartz, plagioclase, muscovite, epidote, biotite.
20- 30	As above.
30- 40	As above.
40- 50	As above.
50-60	Granite - white, gray, light-brown; coarse-grained, potash feldspar, quartz muscovite, minor biotite.
60- 70	As above.
70- 80	As above - feldspar slightly pink.
80-90	Granite - pale-pink, white, gray; coarse-grained, potash feldspar, muscovite plagioclase, biotite.
90-100	As above.
100-110	No sample
110-120	Granite - tan, gray and black, coarse-grained, potash feldspar, quartz, biotite, muscovite, plagioclase; minor hornblende and epidote.
120-130	As above - slightly pink.
130-140	As above.

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- 140-150 Granite - pink, white, black, coarse-grained, potash feldspar, quartz, biotite, muscovite, chlorite, epidote, plagioclase; trace zircon.
- 150-160 As above - more biotite.
- 160-170 Gneissic Granite - gray and pink; coarse-grained, potash feldspar, biotite, quartz, epidote, chlorite, muscovite; minor hornblende, pyrite; trace magnetite.
- 163-165 Granite - pink, white and light-brown; very-coarse-grained; potash feldspar, quartz, biotite, minor hornblende and epidote; oxidation.
- 170-180 Gneissic Granite - pale-pink, white and black; very-coarse-grained; potash feldspar, quartz, plagioclase, biotite (concentrated in layers), muscovite; minor chlorite hornblende, epidote and zircon.
- 180-190 Granite - pink, very-coarse-grained, potash feldspar, quartz, plagioclase, muscovite, biotite, chlorite; minor epidote.
- 190-200 As above - minor pyrite.
- 200-210 As above - no pyrite.
- 210-220 As above.
- 220-230 Granite - pink, very-coarse-grained, potash feldspar, quartz, muscovite, plagioclase, chlorite, epidote, biotite.
- 230-240 Granite - deep-pink, coarse-grained; potash feldspar, quartz, muscovite, chlorite, biotite; minor garnet, plagioclase, epidote and calcite.
- 240-250 As above.
- 250-260 As above.
- 260-270 Gneissic Granite - pink, white, black; very-coarse-grained, potash feldspar, quartz, plagioclase, biotite, chlorite, muscovite; minor epidote and garnet.

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- 270-280 Gneissic Granite-As above - pink, white, black; very-coarse-grained, potash feldspar, quartz, plagioclase, biotite, chlorite, muscovite; minor epidote and garnet.
- 280-290 Granite - pink, very-coarse-grained; potash feldspar, quartz, plagioclase, muscovite, biotite, chlorite, epidote; minor vein quartz, possible mylonite; slight oxidation.
- 290-300 As above - minor garnet; no mylonite or vein quartz.
- 300-310 Quartz Monzonite - pale-pink, very-coarse-grained; plagioclase, potash feldspar, quartz muscovite, chlorite, biotite.
- 310-320 As above.
- 320-330 (no sample).
- 330-340 Granite - pink, white, gray; very-coarse-grained, potash feldspar, quartz, plagioclase, chlorite, biotite, muscovite, epidote, minor amphibole and pyrite.
- 340-350 As above.
- 350-360 As above - almost porphyritic.
- 360-390 No sample.

GEOLOGIC SUMMARY

<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-360 Petersburg Granite	Pre Cambrian
360-390 No Sample	

Virginia Division of Mineral Resources
Hollis N. Walker - Geologist
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