

INTERVAL SHEET

WWCR 958

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VDMR Well No.: Well No. 1325

Date 7/1/65

Sample Interval: from 45 to 360

PROP: Berkeley Sub. #4

Total depth 360

COMP: C. R. Moore

Oil Gas Water Exploratory

COUNTY: Albemarle (Charlottesville)

Cuttings Core Other

VDMR Well No: W-1325

Washed samples

From-To	From-To	From-To	From-To	From-To
-	-	0 - 45 *	330 - 340	-
-	-	45 - 50	340 - 350	-
-	-	50 - 60	350 - 360	-
-	-	60 - 70	-	-
-	-	70 - 80	-	-
-	-	80 - 90	-	-
-	-	90 - 100	-	-
-	-	100 - 110	-	-
-	-	110 - 120	-	-
-	-	116 - 118	-	-
-	-	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 - 330	-	-

* No sample

OWNER: Berkeley Subdivision - Well #4
DRILLER: C. R. Moore
COUNTY: Albemarle (Charlottesville)

VDMR #1325
WWCR #958
TOTAL DEPTH: 360'

GEOLOGIC LOG

0-45 No samples.

Lynchburg Formation (45-360')

- 45-50 Gneiss — light-gray, tan to brown stain, bedded, fine- to coarse-sand-size grains; feldspar, quartz, muscovite, biotite, minor portion contains granule sized grains and minor pyrite.
- 50-60 As above — more stain.
- 60-70 Gneiss — light-gray to very-light-gray, very-coarse to very-fine-sand-size grains, bedded, poor sorting, porous; microcline, quartz (blue), plagioclase, muscovite; minor biotite, chlorite, and apatite; vein quartz; pyrite abundant in vugs and fractures.
- 70-80 As above — trace graphite and iron oxide stain.
- 80-90 As above — more iron oxide stain.
- 90-100 Gneiss — medium-gray to light-gray, very-fine- to coarse-sand-size grains, no sorting, slight lineation; feldspar, quartz, muscovite, biotite, epidote; pyrite disseminated and in vugs and fractures.
- 100-110 As above — minor vein quartz.
- 110-120 Gneiss — medium-gray, 3.0 mm to fine-sand-size grains; feldspar, quartz, muscovite, biotite, pyrite; vein quartz; trace iron oxide stain; very porous in coarser portions.
- 116-118 As above — coarser and very porous, open quartz veins.
- 120-130 Gneiss — medium-brownish-gray, coarse- to fine-sand-size grains; quartz, muscovite, feldspar, biotite; abundant pyrite, pyrrhotite; minor calcite, trace magnetite; vein quartz and associated porphyroblasts feldspar.
- 130-140 As above — less vein quartz, pyrrhotite, and calcite; with chlorite.
- 140-150 Mica Schist — medium-light-gray, fine-grained, corrugated foliation; muscovite, quartz, biotite, feldspar, pyrite, minor graphite, and chlorite.
- 150-160 As above.

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- 160-170 Mica Schist — medium-light-gray, fine-grained, corrugated foliation; muscovite, quartz, biotite, feldspar, pyrite, minor graphite, chlorite, and minor gneissic portion.
- 170-180 As above — more gneissic.
- 180-190 Metamorphosed Arkose — medium-light-blue-gray; coarse-sand-size-grains; quartz, feldspar, muscovite, chlorite, pyrite, pyrrhotite; minor graphite and biotite; much of the quartz is blue and contains numerous inclusions, probably rutile.
- 190-200 As above.
- 200-210 As above.
- 210-220 As above.
- 220-230 As above — slightly coarser; with lamina of dark-blue-gray; very-fine-grained, graphitic phyllite.
- 230-240 As above — less dark phyllite.
- 240-250 As above — more phyllite.
- 250-260 Metamorphosed Arkose — medium-light-bluish-gray, medium-to very-coarse-sand-size-grains; quartzitic; quartz (blue and gray), potash feldspar, muscovite, pyrrhotite, pyrite; minor graphite, albite, perthite; trace apatite, sphene, epidote, calcite.
- 260-270 As above.
- 270-280 As above — minor lamina muscovite schist.
- 280-290 As above.
- 290-300 As above.
- 300-310 As above.
- 310-320 As above.
- 320-330 Gneiss — medium-light-brownish-gray, coarse- to fine-sand-size-grains; potash feldspar, biotite, muscovite, quartz, calcite, pyrite, pyrrhotite; minor zircon and epidote.
- 330-340 As above — minor graphite.

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- 340-350 Gneiss — medium-light-brownish-gray, coarse- to fine-sand-size-grains; potash feldspar, biotite, muscovite, quartz, calcite, pyrite, pyrrhotite; minor zircon, epidote, and graphite.
- 350-360 Metamorphosed Arkose — medium-light- to light-gray; coarse-sand-size-grains; feldspar, quartz, muscovite, pyrrhotite, and pyrite.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-45	No samples	
45-360	Lynchburg Formation	Precambrian

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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