

INTERVAL SHEET

WWCR 40

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VDMR Well No: Well No. 1409

Date 11/9/65

Sample Interval: from 0 to 262

PROP: Town of Madison #4

Total Depth 267

COMP: Leazer Pump & Well Co.

Oil Gas Water Exploratory

COUNTY: Madison

Cuttings Core Other

VDMR Well No: W-1409

Washed samples

From-To	From-To	From-To	From-To	From-To
-	-	0 - 10	-	-
-	-	10 - 20	-	-
-	-	20 - 30	-	-
-	-	30 - 40	-	-
-	-	40 - 50	-	-
-	-	50 - 60	-	-
-	-	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 No sample	-	-
-	-	220 - 230	-	-
-	-	230 - 240	-	-
-	-	240 - 250	-	-
-	-	250 - 262	-	-
-	-	262 - 267 No sample	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Added 12/29/65

OWNER: Town of Madison, Well #4
DRILLER: Leazer Pump and Well Co., Inc.
COUNTY: Madison (Madison)

VDMR #1409
WWCR #40
TOTAL DEPTH: 267'

GEOLOGIC LOG

Robertson River Formation (0-262')

- 0-10 Weathered Gneiss — orange-brown to tan; grain-size 0.2 to 3.0 mm; syenitic; potash-feldspar, albite, biotite; minor garnet, clay, and vein quartz; iron oxide stain; trace dark-blue clay.
- 10-20 As above — less iron oxide.
- 20-30 Gneiss — light-gray, grain size: 0.3 to 8.0 mm; augen of pale-pink alkali feldspar in a finely granulated matrix of feldspar, dark-green biotite, minor garnet, epidote and chlorite, traces of amphibole and quartz, minute trace of blue clay; minor vein quartz and weathered gneiss as above.
- 30-40 As above — more vein quartz; less weathered gneiss; minor soft saprolitic gneiss.
- 40-50 Granite — light-gray, grain size: 0.2 to 2.0 mm; potash feldspar, quartz, dark-green biotite; minor dark-blue-green hornblende, sphene, garnet, epidote; trace iron oxide; minute trace of dark-blue clay.
- 50-60 As above — more hornblende, minor apatite, trace calcite, porous in part.
- 60-70 Gneiss — medium-gray, grain size: 0.3 to 1.0 mm, good lineation, porous; microcline, albite, dark-brown and green biotite, calcite, quartz, minor sphene and hornblende, garnet and trace iron oxides.
- 70-80 As above — more hornblende.
- 80-90 Granite Gneiss — medium-light-gray, grain size: 0.2 to 2.0 mm, good lineation; microcline, quartz, albite, dark-green biotite; minor hornblende, sphene, garnet, calcite, epidote; trace pyrite; minor contamination with weathered gneiss from above.
- 90-100 As above — more epidote.
- 100-110 As above — more hornblende, less lineation.
- 110-120 As above.
- 120-130 As above.

OWNER: Town of Madison, Well #4

#1409

- 130-140 Granite Gneiss — medium-light-gray; grain size; 0.1 to 1.0 mm, good lineation; alkali feldspar, quartz, green biotite; minor hornblende, epidote, garnet, and sphene; minor contamination with weathered gneiss from above.
- 140-150 Granite Gneiss — medium-gray, grain size: 0.1 to 1.0 mm; alkali feldspar, quartz, green biotite, brown and green hornblende; minor garnet, epidote; trace pyrite.
- 150-160 As above — banded.
- 160-170 As above — less banded.
- 170-180 Gneiss — light-gray, grain size: 0.1 to 1.0 mm; quartz, alkali feldspar; minor calcite, biotite, garnet, apatite, hornblende and epidote.
- 180-190 As above — banded.
- 190-200 As above.
- 200-210 Gneiss — medium-light-gray, grain size: 0.1 to 1.0 mm, banded; alkali feldspar, quartz, biotite; minor garnet, hornblende, epidote, trace calcite.
- 210-220 No sample.
- 220-230 Gneiss — medium-light to medium-dark-gray, banded; grain size: 0.1 to 1.0 mm; alkali feldspar, biotite, quartz epidote; minor garnet, hornblende.
- 230-240 Gneiss — light-gray, grain size: 0.5 to 4.0 mm; microcline, quartz, sodic plagioclase, biotite, minor epidote, garnet, trace pyrite and zircon.
- 240-250 As above.
- 250-262 As above — trace weathering stain.
- 262-267 No sample.

GEOLOGIC SUMMARY

<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-262 Robertson River Formation	Precambrian
262-267 No sample	

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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