

INTERVAL SHEET

WWCR 422

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VDMR WELL NO.: Well No. 1119

Date 8/25/64

Sample Interval: from 0 to 407

PROP: Hidden Valley Water Corp. #6

Total Depth 407

COMP: Martin Drilling Co.

Oil Gas Water Exploratory

COUNTY: Roanoke

Cuttings Core Other

VDMR WELL NO: W-1119

Washed samples only

From-To	From-To	From-To	From-To	From-To
-	-	0 - 20	310 - 320	-
-	-	20 - 30	320 - 330	-
-	-	30 - 40	330 - 340	-
-	-	40 - 50	340 - 350	-
-	-	50 - 60	350 - 360	-
-	-	60 - 70	360 - 380 No sample	-
-	-	70 - 80	380 - 390	-
-	-	80 - 90	390 - 400	-
-	-	90 - 100	400 - 407	-
-	-	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		-

OWNER: Hidden Valley Water Corporation Well #6
DRILLER: Frank W. Martin Drilling Company
COUNTY: Roanoke (S/Side Grandin Rd. Extension)

VDMR #1119
WWCR #422
TOTAL DEPTH: 407'

GEOLOGIC LOG

0-20 Overburden - light reddish brown, coarse sand size, subangular, quartz, potash feldspar, garnet, mica, clay amphibole, and chlorite, minor ilmenite, magnetite, oxidized.

20-30 As above.

30-40 As above - more angular.

40-50 Overburden - light gray, some brown coarse grained, quartz, potash feldspar, altered amphibole, chlorite, biotite, garnet, minor ilmenite.

50-60 Overburden - light gray stained with yellow, coarse, angular, quartz feldspar, mica, amphibole, chlorite, garnet, minor ilmenite, graphite.

60-70 Overburden - light gray, some brown, coarse grained, quartz, potash feldspar, altered amphibole, chlorite, biotite, garnet, minor ilmenite.

70-80 Granite - light gray, coarse grained, light minerals, medium grained dark minerals, potash feldspar, quartz, plagioclase, biotite, chlorite, and garnet, minor graphite, pyrite, ilmenite.

80-90 As above, no graphite.

90-100 As above - with graphite, pyrite, and ilmenite.

100-110 As above - with less garnet.

110-120 Granite - light gray, coarse grained light minerals, medium grained dark minerals, X-ray analysis showed 40% potash feldspar, 20% plagioclase feldspar, 25% quartz, minor biotite, chlorite garnet, traces of ilmenite, pyrite.

120-130 As above - less garnet.

130-140 Granodiorite - dark gray, medium grained, X-ray analysis: 30% plagioclase, 20% potash feldspar, 20% quartz, 15% biotite, 10% chlorite, and amphibole, pyrite observed oxidation.

140-150 As above, no pyrite noted.

- 150-160 As above - trace of pyrite.
- 160-170 Granodiorite - dark gray, medium grained, plagioclase, potash feldspar, quartz, less biotite, and more amphibole than above, trace of pyrite, garnet, chlorite, minor oxidation.
- 170-180 As above.
- 180-190 As above.
- 190-200 As above.
- 200-210 Granodiorite - very dark gray, medium grained, plagioclase, potash feldspar, quartz, amphibole, and biotite, minor pyrite and minor oxidation.
- 210-220 As above.
- 220-230 As above.
- 230-240 As above.
- 240-250 Granodiorite - dark gray, medium grained, plagioclase and potash feldspar, amphibole, biotite, quartz, minor graphite, pyrite, vein quartz, oxidation.
- 250-260 As above, no graphite noted.
- 260-270 As above, with graphite.
- 270-280 As above.
- 280-290 Granodiorite - dark gray, medium grained plagioclase and potash feldspar, amphibole, biotite, very minor vein quartz, oxidation.
- 290-300 Quartz Diorite - dark gray, medium grained, X-ray analysis: 50% plagioclase, 10% potash feldspar, 10% quartz, amphibole, stilpnomelane, biotite, observable pyrite and vein quartz, minor oxidation.
- 300-310 As above - increase of amphibole.
- 310-320 As above.
- 320-330 Diorite - dark gray, medium grained plagioclase and potash feldspar, amphibole, biotite, quartz, minor pyrite, oxidation.

330-340	As above - increase of biotite.
340-350	As above.
350-360	As above.
360-380	No samples.
380-390	Feldspar-Quartz Vein - very light gray, coarse grained except for dark material, potash feldspar, plagioclase, quartz, minor biotite, chlorite, pyrite, graphite, ilmenite, oxidation.
390-400	Feldspar-Quartz Vein - very light gray, as above, X-ray analysis: 35% potash feldspar, 35% quartz, 25% plagioclase, and minor amount of biotite and chlorite, also observed were pyrite, ilmenite graphite, oxidation.
400-407	As above - except that more of the dark minerals are mixed in.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-70	Weathered zone	Quaternary
70-407	Virginia Blue Ridge complex	Precambrian

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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