

INTERVAL SHEET

WWCR 169

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VDMR Well No.: Well No. 1344

Date 7/29/65

Sample Interval: from 0 to 490

PROP: Daniel Creek Water Co. #5 Total depth 492

COMP: Sydnor Pump & Well Co. Oil Gas Water Exploratory

COUNTY: Henry (Collinsville) Cuttings Core Other

VDMR Well No: W-1344

Washed samples

From-To	From-To	From-To	From-To	From-To
-	-	0 - 26	340 - 350	-
-	-	26 - 70	350 - 360	-
-	-	- 73	360 - 370	-
-	-	73 - 80	370 - 380	-
-	-	80 - 90	380 - 390	-
-	-	90 - 100	390 - 400	-
-	-	100 - 110	400 - 410	-
-	-	110 - 120	410 - 420	-
-	-	120 - 130	420 - 430 No sample	-
-	-	130 - 140	430 - 440	-
-	-	140 - 150	440 - 450	-
-	-	150 - 160	450 - 460	-
-	-	160 - 170	460 - 470	-
-	-	170 - 180	470 - 480	-
-	-	180 - 190	480 - 490	-
-	-	190 - 200	490 - 492 No sample	-
-	-	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	-	-
-	-	330 - 340	-	-

OWNER: Daniel Creek Water Company - Well #5
DRILLER: Sydnor Pump and Well Co., Inc.
COUNTY: Henry (Collinsville)

VDMR #1344
WWCR #169
TOTAL DEPTH: 492'

GEOLOGIC LOG

Hornblende Gabbro Gneiss (0-490')

- 0-25 Residual Hornblende Gneiss — medium-dark-gray, light-brown, and white; average grain size 1.0 mm, porphyroblasts to 10.0 mm; hornblende, andesine, biotite, quartz, apatite, hypersthene, epidote, muscovite, clay, and iron oxide.
- 26-70 As above.
- 73 Saprolitic Hornblende Gneiss — medium-light-gray; coarse- to very-coarse-grained; feldspar, hornblende, quartz, biotite, epidote, minor magnetite, and hypersthene.
- 73-80 Hornblende Gneiss — medium-light-gray, weathered, medium-fine-grained interbedded with coarse-grained; hornblende, andesine, hypersthene, quartz, epidote, minor pyrite, apatite, magnetite; bedrock occurs in this interval.
- 80-90 Hypersthene Gneiss — medium-light-green-gray, medium-coarse-grained, andesine-labradorite, hypersthene, biotite, quartz, minor hornblende, epidote, pyrite, and magnetite.
- 90-100 As above — interbedded with hornblende-feldspar schist.
- 100-110 Chlorite-Mica Schist — light-gray-green, foliated, medium-fine-grained; chlorite, muscovite, biotite, quartz, feldspar; minor hypersthene, hornblende, epidote, calcite, pyrite, trace magnetite.
- 110-120 Gneiss — white and very-dark-greenish-gray; very-coarse- to medium-fine-grained; oligoclase, andesine, quartz, biotite, hornblende, hypersthene, epidote, minor pyrite, sphene, and magnetite.
- 120-130 Gneiss — medium-green-gray, average grain size 1 mm; andesine, hornblende, biotite, quartz, hypersthene, epidote, minor apatite, pyrite, and magnetite.
- 130-140 Quartz-Diorite Gneiss — very-light-gray-green; coarse-grained, oligoclase, quartz, hornblende, biotite, minor apatite, epidote, pyrite; trace magnetite.
- 140-150 Hornblende Gneiss — medium-greenish-gray, medium-grained, andesine-labradorite, oligoclase, quartz, biotite, muscovite, epidote; trace magnetite; abundant veins and irregular fillings of quartz with pyrite; many of the plagioclase are zoned with gradational composition boundaries.

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- 150-160 Hornblende Schist — medium- to dark-gray, slightly greenish; medium-fine-grained; hornblende, feldspar, quartz, biotite, epidote, magnetite, minor pyrite.
- 160-170 Hypersthene-Hornblende Gneiss — very-dark-gray with white, coarse-grained; hypersthene, hornblende, oligoclase-andesine, quartz, biotite, chlorite; minor garnet, apatite, magnetite.
- 170-180 Quartz-Diorite Gneiss — very-light-gray, minor black; coarse-grained; oligoclase, quartz, biotite, minor chlorite, epidote, magnetite, muscovite, pyrite; trace garnet, and hornblende
- 180-190 Hornblende Gneiss — medium-blue-gray to dark-gray, coarse-grained; hornblende, hypersthene, oligoclase-andesine, blue quartz, biotite; minor pyrite, magnetite; trace zircon.
- 190-200 As above — slightly darker.
- 200-210 As above.
- 210-220 Hypersthene Gneiss — light-gray to dark-gray, medium-coarse-grained; hypersthene, biotite, hornblende, andesine, quartz, magnetite.
- 220-230 As above.
- 230-240 As above.
- 240-250 Hornblende Gabbro Gneiss — dark-gray, medium-coarse-grained; hornblende, andesine, labradorite, biotite, magnetite.
- 250-260 Hornblende Gneiss — light-gray to dark-gray; medium-coarse-grained; hornblende, biotite, andesine, quartz, epidote; minor apatite, and magnetite; poorly developed slickensides.
- 260-270 As above — more apatite, minor pyrite; no slickensides.
- 270-280 As above — more pyrite.
- 280-290 Hornblende Gneiss — light-gray to dark-gray, medium-coarse-grained to very-coarse-grained; hornblende, andesine, biotite, hypersthene, epidote, quartz, magnetite.
- 290-300 As above — fine-grained with muscovite; less hypersthene.
- 300-310 Garnet Gneiss — light-pinkish-gray to light-greenish-gray; medium-coarse- to fine-grained; garnet, andesine, muscovite, chlorite, biotite, epidote, pyrrhotite, and magnetite.

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- 310-320 Garnet Gneiss — light-pinkish-gray to light-greenish-gray; medium-coarse- to fine-grained; garnet, andesine, muscovite, chlorite, biotite, epidote, pyrrhotite, and magnetite, with hornblende and minor hypersthene.
- 320-330 Hornblende Gabbro Gneiss — black and white; salt and pepper; medium-coarse-grained; hornblende, andesine, biotite, garnet, minor actinolite, apatite, epidote, and magnetite.
- 330-340 Gneiss — light-greenish-gray; coarse-grained; andesine, hornblende; biotite, epidote, muscovite, minor apatite, and quartz.
- 340-350 Gneiss — medium-light- to medium-dark-gray; medium-coarse-grained; hornblende, andesine, biotite, muscovite, garnet, apatite, epidote, quartz, pyrite, and magnetite.
- 350-360 As above.
- 360-370 As above.
- 370-380 Gneiss — medium-light-gray and minor medium-dark-gray, average grain-size 0.5 to 2.0 mm; andesine, biotite, quartz, hornblende, garnet; minor epidote, calcite, and magnetite.
- 380-390 As above.
- 390-400 Hornblende Gneiss — medium- to dark-gray, average grain-size 0.5 to 1.0 mm; hornblende, andesine-oligoclase, quartz, biotite, garnet, chlorite, epidote, minor magnetite, pyrite, and zircon.
- 400-410 As above — slightly darker, less garnet.
- 410-420 Gneiss — medium- to dark-gray, average-grain-size 1.5 mm; andesine, chlorite, hornblende, quartz, biotite, epidote, muscovite; minor pyrite, apatite; trace magnetite, and calcite.
- 420-430 No sample.
- 430-440 Gneiss — medium- to dark-gray; very-coarse-grained, some porphyroblasts to 5 mm; andesine, chlorite, hornblende, quartz, biotite, epidote, muscovite; minor apatite, pyrite, and magnetite.
- 440-450 Gneiss — greenish-black and white, average grain size 1-2 mm; andesine, hornblende, quartz, chlorite, biotite, epidote, apatite; minor garnet, magnetite, and pyrite.

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- 450-460 Gneiss — greenish-black and white, average grain size 1-2 mm; andesine, hornblende, quartz, chlorite, biotite, epidote, apatite; minor garnet, magnetite, and pyrite.
- 460-470 Gneiss — medium-gray, average grain size 0.5 to 3.0 mm; hornblende, instatite-hypersthene, chlorite, andesine, biotite, garnet, magnetite, muscovite, minor pyrite and calcite.
- 470-480 Hornblende Chlorite Schist — light-gray-green with pink to medium-dark-gray; medium-grained; foliated; hornblende, chlorite, andesine, hypersthene, biotite, brown epidote, garnet, magnetite, minor pyrite.
- 480-490 As above — lighter color, more feldspar, more pyrite, minor calcite.
- 490-492 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-490	Hornblende Gabbro Gneiss	Precambrian ?
490-492	No sample	

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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