

INTERVAL SHEET

WWCR 47

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VDMR Well No.: Well No. 1309

Date 5/19/65

Sample Interval: from 0 to 400

PROP: VDMR(Hungry Mother State Park, Well #1)

Total depth 401

COMP: Sydnor Pump & Well Co.

Oil  Gas  Water  Exploratory

COUNTY: Smyth (Marion)

Cuttings  Core  Other

VDMR Well No: W-1309

Washed samples

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	-
-	-	40 - 50	330 - 340	-
-	-	50 - 55	340 - 350	-
-	-	50 - 60	350 - 360	-
-	-	60 - 70	360 - 370	-
-	-	70 - 80	370 - 380	-
-	-	80 - 90	380 - 390	-
-	-	90 - 100	390 - 400	-
-	-	100 - 110	400 - 401 No sample	-
-	-	110 - 120	-	-
-	-	120 - 130	-	-
-	-	130 - 140	-	-
-	-	140 - 150	-	-
-	-	150 - 160	-	-
-	-	160 - 170	-	-
-	-	170 - 180 No sample	-	-
-	-	180 - 190	-	-
-	-	190 - 200	-	-
-	-	200 - 210	-	-
-	-	210 - 220	-	-
-	-	220 - 230	-	-
-	-	230 - 240	-	-
-	-	240 - 250	-	-
-	-	250 - 260	-	-
-	-	260 - 270	-	-
-	-	270 - 280	-	-
-	-	280 - 290	-	-

OWNER: Virginia Division of Mineral Resources  
Hungry Mother State Park, Well #1  
DRILLER: Sydnor Pump and Well Company, Inc.  
COUNTY: Smyth (Marion)

VDMR #1309  
WWCR #47  
TOTAL DEPTH: 401'

GEOLOGIC LOG

Brallier Formation (0-400')

- 0-10 Shale (Weathered) — pale-brown, reddish and greenish, clay, quartz, mica, dolomite-ankerite, iron oxides.
- 10-20 Shale — medium-gray fissile, iron oxide stain on partings; quartz sericite, clay, mica, iron oxides carbonate; some fragments have abundant dusty pyrite.
- 20-30 Silty Shale — medium-gray, fissile, iron oxide stain on partings; quartz, sericite, clay, mica, iron oxide, carbonate, trace slickensides and pyrite; minor light-brown and medium-gray siltstone.
- 30-40 Shale — medium-dark-gray; very fissile iron oxide stain and tarnish on partings, minor silty shale and iron oxide concretions; trace pale-gray claystone.
- 40-50 As above.
- 50-55 Shale — medium-dark-gray, fissile, minor silty and micaceous layers, trace slickensides.
- 50-60 As above — veins of dolomite and ankerite, more slickensides, minor pyrite.
- 60-70 Quartzite — medium-gray, very-fine-grained, slickensides with associated pyrite, minor shale as above.
- 70-80 Quartzite, Shale, and Silty Shale — medium-gray; very-fine-grained quartzite, shale is very fissile.
- 80-90 Shale — medium-gray, very fissile, minor quartzite; trace pyrite and slickensides.
- 90-100 As above — no quartzite.
- 100-110 As above.
- 110-120 As above.
- 120-130 As above.
- 130-140 As above.

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- 140-150 Shale — medium-gray, very fissile; trace pyrite and slickensides.
- 150-160 As above.
- 160-170 As above.
- 170-180 No sample.
- 180-190 Shale — medium-gray, very fissile; micaceous; minor layers with mica flakes to 0.2 mm.
- 190-200 As above.
- 200-210 As above — slightly darker, less mica.
- 210-220 As above — slightly lighter, more mica.
- 220-230 As above — darker, abundant slickensides, less mica, contorted cleavage.
- 230-240 Shale — medium-dark-gray, very fissile, micaceous, abundant disseminated pyrite; minor pyrite nodules, veins of dolomite, slickensides.
- 240-250 Shale — medium-gray, very-fissile, finely micaceous, trace calcite and pyrite.
- 250-260 As above — minor greenish arenaceous layers.
- 260-270 Shale — medium-gray fissile, very slightly greenish, very-fine-grained, silty and micaceous.
- 270-280 Shale — 50% silty shale as above; 50% without silt.
- 280-290 As above — with minor yellow-brown oxidation.
- 290-300 As above — no oxidation, minor calcite veins.
- 300-310 As above.
- 310-320 Shale — medium-gray to medium-dark-gray, fissile, micaceous, minor silty slightly greenish shale, minor calcite veins, trace oxidation on fractures.
- 320-330 As above.
- 330-340 As above.

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- 340-350 Shale — medium- to dark-gray, very fissile, abundant disseminated pyrite; trace greenish silty layers.
- 350-360 As above — no silty shale, more pyrite.
- 360-370 As above — lighter color, silty.
- 370-380 Shale — medium-dark-gray, very-slightly-greenish; micaceous, silty; minor blue-gray with no silt or mica.
- 380-390 As above.
- 390-400 As above — less blue-gray.
- 400-401 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-400	Brallier Formation	Devonian
400-401	No sample	

Virginia Division of Mineral Resources  
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