

INTERVAL SHEET

WWCR 483

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VDMR Well No.: Well No. 1100

Date 7/22/64

Sample Interval: from 0 to 500

PROP: Town of McGaheysville
Well #2

Total depth 500

COMP: Sydnor

Oil Gas Water Exploratory

COUNTY: Rockingham
(McGaheysville)

Cuttings Core Other

Washed samples only

VDMR Well No: W-1100
From-To From-To

From-To	From-To	From-To	From-To	
-	-	0 - 5	155 - 160	340 - 350
-	-	5 - 8	160 - 165	350 - 360
-	-	8 - 15	165 - 170	360 - 370
-	-	15 - 20	170 - 175	370 - 380
-	-	20 - 25	175 - 180	380 - 390
-	-	25 - 30	180 - 185	390 - 400
-	-	30 - 35	185 - 190	400 - 410
-	-	35 - 40	190 - 195	410 - 420
-	-	40 - 45	195 - 200	420 - 430
-	-	45 - 50	200 - 205	430 - 440
-	-	50 - 55	205 - 210	440 - 450
-	-	55 - 60	210 - 215	450 - 460
-	-	60 - 65	215 - 220	460 - 470
-	-	65 - 70	220 - 225	470 - 480
-	-	70 - 75	225 - 230	480 - 490
-	-	75 - 80	230 - 235	490 - 500
-	-	80 - 85	235 - 240	-
-	-	85 - 90	240 - 245	No sample -
-	-	90 - 95	245 - 250	-
-	-	95 - 100	250 - 255	-
-	-	100 - 105	255 - 260	-
-	-	105 - 110	260 - 265	-
-	-	110 - 115	265 - 270	-
-	-	115 - 120	270 - 280	-
-	-	120 - 130	280 - 290	-
-	-	130 - 135	290 - 308	-
-	-	135 - 140	308 - 318	-
-	-	140 - 145	318 - 328	-
-	-	145 - 150	328 - 330	-
-	-	150 - 155	330 - 340	-

OWNER: McGaheysville Water Co., Inc. - Well #2
DRILLER: Sydnor Pump & Well Co., Inc.
COUNTY: Rockingham

VDMR #1100
WWCR #483
TOTAL DEPTH: 500'

GEOLOGIC LOG

Weathered Zone (0-8')

- 0-5 Limestone -- bluish-gray, fine-grained; white calcite; silty clay; iron pellets.
- 5-8 As above -- considerable amount of iron staining.

New Market (8-175')

- 8-15 Limestone -- bluish-black, fine-grained, some thin bedded shaly-limestone with pyrite; minor slickensides.
- 15-20 Limestone -- dove-gray, fine-grained, conchoidal fractures; vein calcite; calcite rhombohedrons in open spaces of vugs.
- 20-25 Limestone -- gray, fine-grained, breaks with rough fracture surfaces; vein calcite.
- 25-30 Limestone -- dove-gray, fine-grained, conchoidal fracture; vein calcite.
- 30-35 Limestone -- a mixture of the gray and dove-gray varieties in above samples, and black shaly-limestone with pyrite.
- 35-40 As above.
- 40-45 Limestone -- bluish-gray, fine-grained; minor pyrite; vein calcite.
- 45-50 Limestone -- bluish-gray and dove-gray; fine-grained, vein calcite.
- 50-55 As above.
- 55-60 As above.
- 60-65 Limestone -- dove-gray and gray; dove-gray fine-grained, conchoidal fracture; gray coarse-grained, rough fracture surface; considerable amount of vein calcite.
- 65-70 Limestone -- dove-gray variety as above.
- 70-75 As above.
- 75-80 As above.

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- 80-85 Limestone — dove-gray and gray; dove-gray fine-grained, conchoidal fracture; gray coarse-grained, rough fracture surface; considerable amount of vein calcite.
- 85-90 As above — with minor black, shaly limestone and pyrite.
- 90-95 As above — without the shaly limestone and pyrite.
- 95-100 Limestone — light- to dark dove-gray, fine-grained, conchoidal fracture, stylolites, minor pyrite; calcite rhombohedrons, vein calcite.
- 100-105 Limestone — as above, with minor light-green shaly limestone and light-green shale; pyrite in green portion.
- 105-110 Limestone — dove-gray, fine-grained, conchoidal fracture; minor pyrite.
- 110-115 As above — with small black shaly layers.
- 115-120 As above.
- 120-130 As above.
- 130-135 Limestone — three varieties; dove-gray as above; black, shaly, fine-grained; greenish-gray, slightly coarser-grained than the dove-gray and black, rough fracture surfaces, minor pyrite.
- 135-140 As above.
- 140-145 Limestone — two varieties as above, dove-gray and black, shaly.
- 145-150 Limestone — dove-gray as above; dark-gray, coarser-grained, with pyrite.
- 150-155 Limestone — dove-gray, fine- to medium-grained, rough fracture surfaces; minor pyrite.
- 155-160 Limestone — gray, fine-to medium-grained, rough fracture surfaces; vein calcite.
- 160-165 As above.
- 165-170 As above — except fine- to coarse-grained.
- 170-175 Limestone — two varieties; dove-gray, fine-grained, conchoidal fractures, hair line fractures with calcite filling; black shaly, fine-grained, pyrite.

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Beekmantown Formation (175-500')

- 175-180 Limestone — light-greenish-gray, fine-grained, rough fracture surfaces, hair line fractures with calcite filling, calcite rhombohedrons.
- 180-185 Limestone — light-gray, fine-grained, rough fracture surfaces; vein calcite.
- 185-190 Dolomite — bluish-gray, medium-grained, rough fracture surfaces.
- 190-195 As above.
- 195-200 As above.
- 200-205 As above.
- 205-210 As above — with vein calcite and minor pyrite.
- 210-215 As above.
- 215-220 Dolomite and Limestone — dolomite, bluish-gray, medium-grained, rough fracture surfaces; green shaly-limestone, fine-grained, pyrite; appears to be a small broken zone.
- 220-225 As above.
- 225-230 Dolomite — light-gray, fine- to medium-grained.
- 230-235 Limestone — dark-gray, fine-grained, rough fracture surfaces; vein calcite, calcite rhombohedrons.
- 235-240 Dolomite — gray, medium-grained, rough fracture surfaces, stylolites; vein calcite.
- 240-245 No sample.
- 245-250 Limestone — dove-gray, fine-grained, conchoidal fracture, stylolites; minor pyrite; questionable breccia.
- 250-255 Dolomite — dark-gray, medium-grained, rough fracture surfaces; calcite rhombohedrons.
- 255-260 As above — but coarser-grained.
- 260-265 As above.
- 265-270 As above — with small vugs.

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- 270-280 Limestone — two varieties; gray, fine-grained, rough fracture surfaces; black shaly, with pyrite; vein calcite.
- 280-290 As above.
- 290-308 As above — with increase of black shaly variety and vein calcite.
- 308-318 Limestone — light-gray, fine-grained, rough fracture surfaces; clear and white calcite; minor pyrite.
- 318-328 Limestone — dove-gray, fine-grained, conchoidal fractures; vein calcite.
- 328-330 As above.
- 330-340 As above.
- 340-350 Dolomite — black, fine- to medium-grained, minor pyrite; vein calcite.
- 350-360 As above.
- 360-370 Limestone — gray, fine-grained, shaly; minor pyrite.
- 370-380 Dolomite — gray, fine-grained, black shaly layers with pyrite.
- 380-390 Limestone — dove-gray, fine-grained, stylolites.
- 390-400 Limestone — gray, medium-grained, rough fracture surfaces.
- 400-410 As above.
- 410-420 As above — with vein calcite.
- 420-430 As above — little vein calcite.
- 430-440 As above.
- 440-450 As above.
- 450-460 As above.
- 460-470 Limestone — dove-gray, fine- to medium-grained, good fracture zone with iron oxide stains coating fracture surfaces.
- 470-480 As above.
- 480-490 As above — but no staining.

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490-500 Limestone -- black, fine- to medium-grained, rough fracture surfaces; minor pyrite; vein calcite.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-8	Weathered Zone	Quaternary
8-175	New Market	Ordovician
175-500	Beekmantown Formation	Ordovician

Virginia Division of Mineral Resources
Garnett Gatlin, Geologist
December 8, 1964