

INTERVAL SHEET

WWCR 483

Page 1VDMR Well No.: Well No. 1100Date 7/22/64Sample Interval: from 0 to 500PROP: Town of McGaheysville
Well #2Total depth 500COMP: SydnorOil Gas Water X Exploratory COUNTY: Rockingham
(McGaheysville)Cuttings X Core Other

Washed samples only

VDMR Well No: W-1100
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.

OWNER:	McGaheysville Water Co., Inc. - Well #2	#1100
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, styolites, 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, stytolites; vein calcite.
- 240-245 No sample.
- 245-250 Limestone — dove-gray, fine-grained, conchoidal fracture, stytolites; 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.

OWNER:	McGaheysville Water Co., Inc. - Well #2	#1100
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