

INTERVAL SHEET

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VDMR Well No: 1513

Date rec'd: March 2, 1966

Sample Interval: from 45 to 480

PROP: Va. Dept. of Hwys., Int. #81
 New Market Rest Area, Well #2
 COMP: C. R. Moore

Number of samples: 44

Total Depth: 480

COUNTY: Rockingham (Tenth Legion)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
45 - 50	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 - 410	-	-
110 - 120	410 - 420	-	-
120 - 130	420 - 430	-	-
130 - 140	430 - 440	-	-
140 - 150	440 - 450	-	-
150 - 160	450 - 460	-	-
160 - 170	460 - 470	-	-
170 - 180	470 - 480	-	-
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	-	-	-
310 - 320	-	-	-
320 - 330	-	-	-
330 - 340	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Virginia Department of Highways, Interstate 81 VDMR #1513
New Market Rest Area, Well #2 (North Lane) WWCR #549
DRILLER: C. R. Moore TOTAL DEPTH: 480'
COUNTY: Rockingham (Tenth Legion)

GEOLOGIC LOG

- 0-45 No sample.
- Beekmantown Formation (45-480')
- 45-50 Dolomite — very-light-gray, fine-crystalline, trace vein dolomite, faint weathering stain.
- 50-60 "
- 60-70 Dolomite — medium-gray to medium-light-brownish-gray, fine-grained, argillaceous; trace vein calcite and dolomite.
- 70-80 Limestone — medium-dark-gray, fine-grained; trace pyrite and white vein calcite.
- 80-90 Dolomite — medium- to medium-light-gray, fine-grained; minor white vein dolomite; trace pyrite; minor buff-colored weathered dolomite.
- 90-100 trace vein calcite.
- 100-110 Dolomite — very-light-gray, fine-crystalline to aphanocrystalline; minor vein dolomite, trace vein calcite with associated clay and iron oxide.
- 110-120 Dolomite — buff to light-gray, fine-crystalline, trace vein dolomite.
- 120-130 Dolomite — medium- to light-gray, fine-crystalline; lighter portion calcareous; trace vein dolomite and laminae of iron oxide stained clay.
- 130-140 Dolomite — medium-gray, fine-crystalline; trace vein calcite; minor portion weathered to a buff color.
- 140-150 Dolomite — medium-gray, fine- to medium-coarse-crystalline; minor vein calcite and weathered buff-color dolomite; trace pyrite and carbonaceous material.
- 150-160 Argillaceous Dolomite — medium-gray, very-fine-grained, minor vein calcite; trace iron stained chert and weathered buff-color dolomite.

- OWNER: Va. Dept. of Hwys., Int. #81, New Market Rest Area Well #2 (North Lane)
- 160-170 Dolomite — medium-gray to light-gray, fine-crystalline; trace vein dolomite.
- 170-180 Dolomite — medium-gray, very-fine-crystalline, minor vein dolomite.
- 180-190 Dolomite — medium- to medium-light-gray, very-fine-crystalline, trace vein dolomite and dark-gray pyritiferous shale.
- 190-200 Dolomite — medium-light-gray, very-fine- to aphanocrystalline, trace vein calcite.
- 200-210 Dolomite — medium-gray, fine-crystalline.
- 210-220 Dolomite — medium-gray, fine-crystalline, trace of solution etching, and pyrite.
- 220-230 Dolomite — medium-light-gray, fine-crystalline; trace medium-dark-gray dolomite, pyrite, vein dolomite and calcite.
- 230-240 Dolomite — medium-dark-gray to medium-brownish-gray, fine-crystalline; minor white vein dolomite and calcite; trace clay stained with hematite.
- 240-250 Dolomite — medium-gray, medium-fine-crystalline; trace vein dolomite and calcite.
- 250-260 Calcareous Dolomite — medium-gray, fine-crystalline, trace shaly pyritiferous laminae.
- 260-270 Dolomite — medium-gray, fine- to medium-crystalline; minor medium-dark-gray fine-crystalline dolomite with dusty pyrite.
- 270-280 Dolomite and Limestone — medium-gray, fine- to coarse-crystalline dolomite; medium-brownish-gray, aphanocrystalline limestone with birds-eye texture; minor shaly laminae with associated pyrite; part of the coarsely crystalline dolomite has been brecciated and recemented by crystal growth.
- 280-290 Dolomite — medium-gray, medium-crystalline, trace dark-gray chert.
- 290-300 Dolomite — medium-gray, medium-crystalline, trace iron oxide stain.
- 300-310 argillaceous in part, trace pyrite.

- OWNER: Va. Dept. of Hwys., Int. #81, New Market Rest Area Well #2 (North Lane)
- 310-320 Dolomite — medium-light to medium-dark-gray; fine- to medium-crystalline; minor white vein dolomite and calcite.
- 320-330 Dolomite — light- to dark-gray, fine- to medium-crystalline; minor shaly carbonaceous laminae with associated pyrite, dark-gray chert, white vein dolomite.
- 330-340 "
- 340-350 Dolomite — medium-dark-gray, fine-crystalline; trace dark-gray chert, white vein dolomite.
- 350-360 Dolomite — medium-gray, fine- to coarse-crystalline; trace white vein dolomite.
- 360-370 Dolomite — medium-light-gray, very-finely-crystalline; minor carbonaceous stylolites; trace light gray chert.
- 370-380 Dolomite — medium-gray, medium-crystalline; trace medium-gray chert and white vein dolomite.
- 380-390 Dolomite — medium-gray very-fine-grained, argillaceous, minor carbonaceous stylolites and white vein calcareous dolomite; trace of pyritiferous slickensides.
- 400-410 Dolomite — medium-light to medium-dark-gray, fine- to medium-crystalline; dark- to light-gray chert; trace carbonaceous, pyritiferous stylolites; trace iron oxide stain.
- 410-420 Dolomite — medium-gray, fine-crystalline to fine-grained; argillaceous; minor white vein dolomite, iron oxide stain on fractures.
- 420-430 Dolomite — medium-dark-gray, fine-crystalline, minor white vein dolomite.
- 430-440 Dolomite — medium-dark-gray, fine- to medium-crystalline; minor white vein dolomite; trace pyrite and medium-dark-gray chert.
- 440-450 Dolomite — medium-gray, fine- to medium-crystalline; minor white vein dolomite and calcite; trace pyrite and carbonaceous material.
- 450-460 Dolomite — medium-light-gray, very-fine-crystalline, minor white vein dolomite; trace pyrite.
- 460-470 Dolomite — medium-gray, fine-grained; minor white vein dolomite; trace medium-gray chert and black carbonaceous material.

OWNER: Va. Dept. of Hwys., Int. #81, New Market Rest Area Well #2 (North Lane)

470-480 Dolomite — medium-gray, fine- to medium-grained minor
white vein dolomite, dark-gray chlorite trace pyrite.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-45	No sample	
45-480	Beekmantown Formation	Ordovician

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
March 8, 1966