

OWNER: New River Motor Lodge - Well #2
DRILLER: Sydnor Pump and Well Company, Inc.
COUNTY: Montgomery (Radford)

VDMR #1161
WWCR #77
TOTAL DEPTH: 240'

GEOLOGIC LOG

Martinsburg Formation (5-110')

- 5-10 Shale (Weathered) — light-yellow-brown, fine-grained; bedded; manganese stains.
- 10-20 As above — fissile.
- 20-30 As above — minor fragments, dark-gray limestone.
- 30-45 Shale — medium-gray and medium-brown, minor calcite veins; brown portion is weathered.
- 45-60 No sample.
- 60-75 Shale — medium-gray, bluish, slightly shiny, minor veins of calcite, minor slickensides.
- 75-90 No sample.
- 90-100 Shale — medium-gray, bluish, slightly shiny, fissile, minor slickensides; minor calcite veins.
- 100-110 As above — with medium-light-gray, fine-grained, silty-sandy shale.

Bays-Moccasin Formation (110-240')

- 110-125 Sandy Shale — medium-light-gray, medium-fine-grained; clay, chlorite, quartz, mica.
- 125-140 As above — slightly pinkish in part.
- 140-155 As above.
- 155-170 Shaly Sandstone — grayish-red, fine- to medium-fine-grained; calcareous in part; slightly fissile, quartz, feldspar, clay, hematite, chlorite, minor calcite.
- 170-185 Shaly Sandstone — medium-light-gray, medium-fine-grained to fine-grained, clay, quartz, chlorite, minor calcite, minor pinkish sandstone.
- 185-200 As above — some fragments blocky and quartzitic; also some fissile shale with minor slickensides.

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200-215 Shaly Sandstone — medium-light-gray, medium-fine-grained to fine-grained, clay, quartz, chlorite, minor calcite, minor pinkish sandstone, some fragments blocky and quartzitic; also some fissile shale with minor slickensides.

215-240 Sandstone — grayish-red, medium-fine-grained, calcareous; minor calcite vein; trace pyrite.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
5-110	Martinsburg Formation	Middle and Upper Ordovician
110-240	Bays-Moccasin Formation	Middle ordovician

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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