

OWNER: New River Motor Lodge - Well #1  
DRILLER: Sydnor Pump and Well Company, Inc.  
COUNTY: Montgomery (Radford)

VDMR #1160  
WWCR # 76  
TOTAL DEPTH: 406'

GEOLOGIC LOG

Overburden (0-30')

- 0-15 Overburden — medium-orange-brown, fine- to coarse-grained; clay, sand, fragments of sandstone, chert, and quartz.
- 15-30 As above — with iron manganese concretions and one fragment hornblendite.

Edinburg Formation (30-90')

- 30-45 Limestone — dark-gray, fine-grained; veins of white calcite; minor pyrite.
- 45-60 As above.
- 60-75 Limestone — medium-dark-gray, fine-grained, argillaceous, slightly fissile; veined with white calcite.
- 75-90 Limestone — dark-gray, fine-grained; white calcite veins; minor pyrite.

Martinsburg Formation (90-406')

- 90-105 Shale — medium-gray, medium- fine- to fine-grained, slightly fissile; minor calcite veins; trace pyrite.
- 105-120 As above.
- 120-135 Shale — medium-gray, fine-grained, calcareous, slightly fissile; minor veins of calcite.
- 135-150 As above.
- 150-165 As above.
- 165-180 As above.
- 180-195 As above.
- 195-210 As above.
- 210-225 As above.
- 225-240 As above.

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- 240-255 Shale — medium-gray, fine-grained, calcareous, slightly fissile; minor veins of calcite.
- 255-270 As above.
- 270-285 As above.
- 285-300 As above.
- 300-315 As above.
- 315-330 As above.
- 330-345 As above.
- 345-360 Shale — medium-dark-gray, fissile.
- 360-375 Shale — medium-light-gray, minor calcite veins.
- 375-406 As above — calcareous.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-30	Overburden	Recent
30-90	Edinburg Formation	Middle Ordovician
90-406	Martinsburg Formation	Middle and Upper Ordovician

Virginia Division of Mineral Resources  
Hollis N. Walker, Geologist  
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