

INTERVAL SHEET

WWCR 78

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VDMR Well No.: Well No. 1162

Date 10/27/64

Sample Interval: from 0 to 480

PROP: New River Motor Lodge
Well #3

Total depth 482

COMP: Sydnor

Oil Gas Water Exploratory

COUNTY: Montgomery (Radford)

Cuttings Core Other

VDMR Well No: W-1162

Washed samples

| From-To | From-To | From-To | From-To | From-To |
|---------|---------|-----------|---------------------|---------|
| - | - | 0 - 15 | 450 - 465 | - |
| - | - | 15 - 30 | 465 - 480 | - |
| - | - | 30 - 45 | 480 - 482 No sample | - |
| - | - | 45 - 60 | - | - |
| - | - | 60 - 75 | - | - |
| - | - | 75 - 90 | - | - |
| - | - | 90 - 105 | - | - |
| - | - | 105 - 120 | - | - |
| - | - | 120 - 135 | - | - |
| - | - | 135 - 150 | - | - |
| - | - | 150 - 165 | - | - |
| - | - | 165 - 180 | - | - |
| - | - | 180 - 195 | - | - |
| - | - | 195 - 210 | - | - |
| - | - | 210 - 225 | - | - |
| - | - | 225 - 240 | - | - |
| - | - | 240 - 255 | - | - |
| - | - | 255 - 270 | - | - |
| - | - | 270 - 285 | - | - |
| - | - | 285 - 300 | - | - |
| - | - | 300 - 315 | - | - |
| - | - | 315 - 330 | - | - |
| - | - | 330 - 345 | - | - |
| - | - | 345 - 360 | - | - |
| - | - | 360 - 375 | - | - |
| - | - | 375 - 390 | - | - |
| - | - | 390 - 405 | - | - |
| - | - | 405 - 420 | - | - |
| - | - | 420 - 435 | - | - |
| - | - | 435 - 450 | - | - |

OWNER: New River Motor Lodge - Well #3
DRILLER: Sydnor Pump and Well Co., Inc. #65
COUNTY: Montgomery (Radford)

VDMR #1162
WWCR #78
TOTAL DEPTH: 482'

GEOLOGIC LOG

Overburden (0-15')

0-15 Overburden — red-brown; fragments of shale, vein quartz, clay, sandstone, shale with white calcite veins.

Fault Zone (15-75')

15-30 Fault Gouge — light-gray, fragments of silty limestone, sandstone and shale cemented with rock flour calcite and dolomite.

30-45 Brecciated Limestone — medium-gray, fine-grained; angular fragments recemented with calcite.

45-60 Shale — medium-gray, slightly fissile, fine veins of calcite and dolomite; trace pyrite.

60-75 Brecciated Shale — light-gray, angular fragments, recemented with calcite.

Edinburg Formation (75-120')

75-90 Limestone — medium-dark-gray, fine-grained, argillaceous; veined with calcite; minor pyrite.

90-105 As above — minor brecciated zone.

105-120 Limestone — dark-blue-gray, fine-grained, argillaceous; minor gray calcite veins, pyrite; slickensides.

Martinsburg Formation ? (120-480')

120-135 Shale and Limestone — medium-gray, very-fine-grained; shale fissile and slightly calcareous; veined calcite; slickensides.

135-150 As above.

150-165 Shaly Sandstone — medium-gray, slightly greenish, fine-grained; veined calcite.

165-180 Shale — medium-gray, slightly fissile, calcareous, minor calcite veins.

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- 180-195 Shale — medium-dark-gray, calcareous, fissile, veined calcite; minor medium-dark-gray limestone.
- 195-210 Shale — medium-dark-gray, bluish, calcareous, fissile; minor medium-dark-gray limestone.
- 210-225 Limestone and Shale — medium-gray, fine-grained; shale fissile and slightly calcareous.
- 225-240 Shale — medium-gray, fissile, calcareous; veined calcite.
- 240-255 As above.
- 255-270 Limestone — medium-dark-gray, slightly fissile; minor calcite veins.
- 270-285 Shale — medium-gray, fissile, calcareous; minor calcite veins; minor medium-gray limestone.
- 285-300 Shale and Limestone — medium-dark-gray, fine-grained; shale fissile and slightly calcareous; minor calcite veins.
- 300-315 As above.
- 315-330 Shale — medium-gray, fissile, calcareous, minor calcite veins.
- 330-345 Shale — medium-dark-gray, slightly shiny, fissile, calcareous; minor calcite veins.
- 345-360 Shale — medium-gray, fissile, very minor calcite veins.
- 360-375 As above.
- 375-390 Shale — medium-dark-gray, fissile, minor calcite veins.
- 390-405 As above.
- 405-420 As above.
- 420-435 As above.
- 435-450 Shale — medium-gray, calcareous, fissile; minor calcite veins.
- 450-465 Shale — medium-dark-gray, fissile; minor dark-gray limestone, minor calcite veins.
- 465-480 Shale — dark-gray, fissile; minor calcite veins; minor medium-gray calcareous shale.

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480-482 No sample.

GEOLOGIC SUMMARY

| | <u>ROCK UNIT</u> | <u>TIME ROCK UNIT</u> |
|---------|-------------------------|--------------------------------|
| 0-15 | Overburden | Recent |
| 15-75 | Fault Zone (Pulaski) | Post Mississippian |
| 75-120 | Edinburg Formation | Middle Ordovician |
| 120-480 | Martinsburg Formation ? | Middle and Upper Ordovician |
| 480-482 | No sample | |

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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