



OWNER: Virginia State Police  
DRILLER: Barnette, Inc. (Hufford Keene)  
COUNTY: Buchanan (Vansant)

VDMR #1422  
WWCR #33  
TOTAL DEPTH: 187'

GEOLOGIC LOG

- 0-10 Residuum — rounded pebbles and fragments of light-gray to orange-brown, fine- to coarse-grained micaceous arkose; medium-light-gray to medium-brown shale, fissile, micaceous.
- 10-20 As above — less shale, trace of gray-brown siltstone.
- 20-30 Arkose — light yellowish-gray, fine- to medium-coarse-grained; thin bedded, micaceous; quartz, feldspar, mica, and grains of shale; well compacted, siliceous and argillaceous cement; minor layers having very high mica content; small amount of residual material as above.
- 30-40 Sandstone and Siltstone — medium-light to medium-dark-gray; medium sand to silt size; arkosic; the darker portions contain much mica and chlorite; minor orange-brown weathering stain.
- 40-50 Sandstone and Shale — medium-light-gray, fine-grained, arkosic sandstone; medium dark-gray fissile shale; both very micaceous and chloritic; trace weathered material.
- 50-60 As above — less shale.
- 60-70 As above — sandstone is poorly indurated.
- 70-80 Shale and Sandstone — medium-gray to dark-gray, fissile, very micaceous shale; light-gray, fine- to coarse-grained, poorly indurated, arkosic sandstone.
- 80-90 As above — less shale, sandstone is well indurated.
- 90-100 As above — sandstone poorly indurated.
- 100-110 As above.
- 110-120 As above.
- 120-130 As above.
- 130-140 Shaly Sandstone — medium-gray, fine-grained, very micaceous, fissile; shale partings; minor medium-light-gray, medium-grained sandstone.
- 140-150 Shale and Sandstone — dark-gray, fissile, micaceous shale with minor carbonaceous partings; light-gray, medium-grained, angular, poorly indurated sandstone.

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150-160 Sandstone — light-gray, very-fine-grained, very micaceous, angular, arkosic, poorly indurated; minor dark-gray micaceous shale.

160-170 As above — slightly more shale.

170-187 As above.

GEOLOGIC SUMMARY

ROCK UNIT

TIME ROCK UNIT

Norton Formation ?

Pennsylvanian

Virginia Division of Mineral Resources  
Hollis N. Walker, Geologist  
December 6, 1965