

OWNER: T. K. Ellis #6  
DRILLER: Sydor Pump and Well Co., Inc.  
COUNTY: Bath

VDMR #1158  
WWCR # 31  
TOTAL DEPTH: 400'

GEOLOGIC LOG

Alluvium (0-10')

- 0-5 Sandstone Alluvium — dark-purplish-brown; fine-grained, mostly quartz, well cemented with ferruginous material; some granules of compact, earthy hematite.
- 5-10 As above.
- 10-30 No sample.

Benbolt (30-355')

- 30-50 Limestone — medium-gray; very-fine-grained, very pure.
- 50-70 As above.
- 70-90 Limestone — dark-gray; very-fine-grained to fine-grained; slightly dolomitic, slightly argillaceous and carbonaceous; some vein calcite.
- 90-110 As above — but with very abundant vein calcite.
- 110-130 Limestone — light-gray, with some iron stain; very-fine-grained; some small concretions of limonite and hematite.
- 130-145 Limestone — medium gray; very-fine-grained; some alteration to dull white calcareous clay; small amounts of vein calcite and pyrite.
- 145-160 Limestone — dark-gray; very-fine-grained to fine-grained; slightly dolomitic, slightly argillaceous and carbonaceous; some vein calcite; trace of pyrite.
- 160-175 Limestone — dark-gray; fine-grained, argillaceous, slightly carbonaceous; some calcite veins.
- 175-190 As above.
- 190-205 As above.
- 205-220 Limestone — dark-gray; fine-grained, argillaceous, slightly carbonaceous, dolomitic (relatively large rhombic crystals); some vein calcite, concretions of iron oxide, and fine-grained pyrite.

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- 220-235 Limestone — dark-gray; fine-grained, argillaceous, slightly carbonaceous, dolomitic (relatively large rhombic crystals); some vein calcite, concretions of iron oxide, and fine-grained pyrite.
- 235-275 As above — but less dolomitic.
- 275-300 Limestone — dark-gray; fine-grained with scattered insets of calcite and dolomite; argillaceous, slightly carbonaceous, small amount vein calcite; scattered, unidentifiable fossils.
- 300-325 As above.
- 325-355 As above.
- 355-400 No samples.

GEOLOGIC SUMMARY

	<u>ROCK NAME</u>	<u>AGE</u>
0-10	Alluvium	Recent
10-30	No sample	?
30-355	Benbolt (?)	Lower Middle Ordovician
355-400	No samples	

Virginia Division of Mineral Resources  
Robert H. Teifke, Geologist  
March 15, 1965