



OWNER: Loudoun County School Board (Hillsboro Schools)

VDMR #1336

DRILLER: Sydnor Pump and Well Company, Inc.

WWCR #595

COUNTY: Loudoun

TOTAL DEPTH: 225'

### GEOLOGIC LOG

#### Catoctin Formation (0-220')

0-20	Clay (sandy) — cream-colored, rounded, fine sand to granule sizes, quartz, and sandstone, some fragments with hematite and/or limonite stain.
20-40	As above — most fragments porous, fine-grained, white sandstone and siltstone, minor fragments metamorphosed basalt and vein quartz.
40-60	As above — slightly pink; increased hematite.
60-70	As above.
70-90	Metamorphosed Basalt — dark-gray-green to bright-yellow-green; medium-grained, slightly foliated; amphibole, chlorite, epidote, plagioclase, magnetite; minor quartz, calcite; leached to siliceous clay with minor iron oxide stain on fractures.
90-100	As above.
100-120	As above — with minor sericite and pyrite.
120-150	As above.
150-170	Metamorphosed Basalt — dark-gray-green to yellow-green and pale-green, medium-grained; slightly foliated; amphibole, chlorite, epidote, plagioclase, magnetite; brecciated, and recemented vein quartz with clay and minor iron oxides.
170-200	As above.
200-220	As above — minor specular hematite.
220-225	No sample.

### GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-220	Catoctin Formation	Cambrian ?
220-225	No sample	

Virginia Division of Mineral Resources  
Hollis N. Walker, Geologist  
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