



OWNER: J. Lynn Cornwell, Inc., Well #1  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Loudoun (Purcellville)

VDMR: 1745  
WWCR: 598  
TOTAL DEPTH: 300'

GEOLOGIC LOG

Depth in feet

0-15	Saprolite - reddish-tan; quartz, feldspar and mica; some iron-oxide stains
15-30	"
30-35	" some partially-weathered fragments of gneiss
35-44	Gneiss - gray; microcrystalline to cryptocrystalline; very slightly foliated; feldspar, quartz, biotite, epidote and trace of calcite
44-59	Schistose Gneiss - gray; microcrystalline to cryptocrystalline; quartz, feldspar, biotite, muscovite, pyrite and trace of pink feldspar
59-74	"
74-89	" with minor amphibole
89-104	" "
104-119	" "
119-134	" "
134-149	" " and increase in feldspar
149-164	Gneissic Schist - gray; microcrystalline to cryptocrystalline; phyllitic; quartz, feldspar, biotite, muscovite, pyrite and amphibole
164-179	"
179-194	Biotite Gneiss - gray; microcrystalline to cryptocrystalline; schistose; quartz, feldspar, biotite, muscovite, chlorite, amphiboles and pyrite
194-209	"
209-224	"
224-239	"
239-254	" with increase in biotite and chlorite

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254-269 Gneiss - bluish-gray; microcrystalline to cryptocrystalline;  
schistose; quartz, feldspar, biotite, epidote, amphibole  
and pyrite

269-284 "

284-300 " coarser-grained; vein quartz; less chlorite, more  
biotite, no epidote

GEOLOGIC SUMMARY

<u>Rock Unit</u>	<u>Age</u>
Marshall Formation (?)	Precambrian

Virginia Division of Mineral Resources  
Robert G. Willson, Geologist  
October 18, 1967