



OWNER: W. A. Arthur  
DRILLER: Kinkle Campbell (Falwell Well Corporation)  
COUNTY: Campbell

VDMR #986  
WWCR #287  
TOTAL DEPTH: 200'

GEOLOGIC LOG

0-10	Schist - light olive brown, medium to coarse grained, weathered, quartz, muscovite, vermiculite, vein quartz.
10-20	As above.
20-30	As above.
30-40	As above.
40-50	As above.
50-60	Schist - gray, fine grained, sericite, chlorite, quartz.
60-70	Gneiss - light gray, medium grained, quartz, muscovite, biotite, feldspar.
70-80	Schist - greenish-gray, fine to medium grained, biotite, feldspar, sericite, quartz, vein quartz, (X-ray analysis: quartz 35%, plagioclase 30%, muscovite 15%, biotite 20%).
80-90	Gneiss - brownish-gray, medium grained, quartz, feldspar, biotite, muscovite, chlorite, vein quartz, (X-ray analysis: potassic feldspar 20%, quartz 30%, chlorite 25%, muscovite 10%, biotite 15%).
90-100	As above - with minor pyrrhotite and traces of chlorite.
100-110	As above.
110-120	Schist - greenish gray, fine to medium grained, sericite, chlorite, quartz, vein quartz.
120-130	Gneiss - brownish-gray, medium grained, quartz, feldspar, biotite, muscovite, vein quartz.
130-140	Schist - greenish gray, fine to medium grained, chlorite, sericite, quartz, biotite, vein quartz, (X-ray analysis: quartz 30%, plagioclase 20%, chlorite 20%, muscovite 20%, biotite 10%, calcite 5%).

140-150	Gneiss - greenish-gray, quartz, feldspar, biotite, sericite, actinolite, and one light brown garnet crystal, sulfides, (X-ray analysis: quartz 20%, amphibole 20%, plagioclase 20%, chlorite 10%, biotite 30%).
150-160	As above - increase in garnet.
160-170	As above - increase in biotite.
170-180	As above - decrease in biotite.
180-190	As above - increase in actinolite and calcite.
190-200	As above - (petrographic examination, actinolite-tremolite).

GEOLOGIC SUMMARY

ROCK UNIT

AGE

Marshall Formation (?)

Precambrian

Virginia Division of Mineral Resources  
Villard S. Griffin, Jr., Geologist  
July 29, 1964