

OWNER: Town of Stanardsville, Well #6
DRILLER: C. R. Moore
COUNTY: Greene (Stanardsville)

VDMR: 1729
WWCR: 29
TOTAL DEPTH: 155'

GEOLOGIC LOG

Depth in feet

0-50	No samples
50-60	Augen Gneiss and Schist - green; foliated, schistose, sheared; combined plagioclase and quartz content is more than 50%, mafic materials less than 15%, and mica planes (sericite and chlorite) make up less than 10% of the rock by volume. X-ray analysis of one dark-green schist sample showed no mafics such as pyroxene or hornblende and only a trace of chlorite, but did show muscovite, plagioclase, and quartz. The feldspar and quartz occur in angular clasts and rounded or lenticular augen, 1-2 mm and occasionally larger, enclosed in leaves of micas or imbedded in a black-green aphanitic matrix. Some of the quartz is blue, and is stretched out in sinuous lenticles 1-2 mm wide and 10 mm or longer in length. Trace amounts of pyrrhotite occur as 1 mm grains that follow the foliation.
60-70	"
70-80	"
80-90	"
90-100	"
100-110	"
110-120	"
120-130	"
130-140	"
140-150	"
150-155	No sample

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-50	No samples	
50-150	Probably an augen or sheared intermediate gneiss of the Lovington Formation, but may be a sheared metaconglomerate of the Mechum River Formation	Precambrian
150-155	No sample	

Virginia Division of Mineral Resources
Richard S. Good, Geologist B
November 10, 1966