

OWNER: Milton Johnson #2
DRILLER: James Colley
COUNTY: Orange (Gordonsville)

VDMR #1052
WWCR #4
TOTAL DEPTH: 74'

GEOLOGIC LOG

1-5	Clay - reddish-brown with minor quartz fragments and mica flakes.
5-10	Clay - brownish with quartz, feldspar and mica flakes.
10-15	Weathered arkose - milky to clear angular to subangular quartz fragments, minor feldspar and trace of quartz.
15-20	As above (2 stages of quartz crystal growths indicate partial weathering or that some of this stratum has been metamorphosed).
20-25	Weathered Phyllite - tanish-brown micaceous, quartzose phyllite with milky, angular quartz fragments.
25-30	As above
30-35	As above
35-40	As above - with slight increase in quartz.
40-45	As above
45-50	Weathered arkose and phyllite - tan to gray arkose with translucent, rounded quartz grains with tan and white feldspar. Grayish-tan, quartz-rich phyllite that is only partly weathered.
50-55	Phyllite and arkose -gray (top of bedrock in this interval)
55-60	As above
60-65	As above
65-70	As above
70-74	As above

GEOLOGIC SUMMARYROCK UNITAGE

Undifferentiated Metamorphics

Cambrian (?)

Composition changes are primarily an expression of the degree of weathering as is evidenced from the following approximate X-ray percentiles of major constituents:

Interval	Quartz	Potassic Feldspar	Plagioclase	Chlorite	Mica
10-15'	50%	25%	15%	10%	
20-25'	30%	30%	20%	20%	
50-60'	Weathered - Unweathered Interface				
70-74'	20%	10%	35%	25%	10%

Virginia Division of Mineral Resources
 F. Fitzgerald, Geologist
 July 7, 1964