

OWNER: Falwell Well Corporation
TENANT: Hyland Springs Subdivision #3
DRILLER: J. L. Eagle (Falwell Well Corp.)
COUNTY: Campbell (Lynchburg)

VDMR #1155
WWCR #291
TOTAL DEPTH: 250'

GEOLOGIC LOG

Lynchburg Formation ?

0-10	Overburden - red sandy clay with biotite and magnetite.
10-20	No sample.
20-30	Overburden - medium-brown mottled with gray, sand with fragments of weathered gneiss and some clay, muscovite, biotite, hornblende, quartz, feldspar, magnetite.
30-40	As above.
40-50	As above.
50-60	Basic Gneiss - medium-dark gray, shiny, coarse to fine grained, lination and segregation of minerals, biotite, hornblende, acid plagioclase, magnetite, chlorite, epidote, minor quartz, X-ray examination showed the presence of pyroxene, (top of bedrock in this interval).
60-70	Amphibolite-medium dark gray, shiny, coarse to fine grained, lination of minerals, hornblende, biotite (elongated) acid plagioclase, magnetite, epidote, pyroxene, minor quartz, some minor vein quartz.
70-80	As above.
80-90	Basic Gneiss - medium gray, shiny, medium grained, lination and some segregation of minerals, biotite (elongated), acid plagioclase, magnetite, hornblende, epidote, pyroxene, minor quartz.
90-100	As above.
100-110	As above - more hornblende and more quartz.
110-120	As above - less hornblende and less quartz.

OWNER: Falwell Well Corporation (Hyland Springs Subdivision #3) Continued

- 120-130 Amphibolite - medium gray, shiny, medium grained, lineation of minerals, hornblende, biotite, acid, plagioclase, magnetite, epidote, minor quartz.
- 130-140 Amphibole - medium gray, medium to fine grained, lineation of minerals, hornblende (blue green-barroisite ?), acid plagioclase, biotite, epidote, X-ray examination showed presence of pyroxene.
- 140-150 As above - with vein quartz.
- 150-160 Amphibolite - medium gray, bluish-green, medium to fine grained, lineation of minerals, hornblende (blue-green), acid plagioclase, biotite, epidote, pyroxene, minor vein quartz. Some quartz replacing biotite and plagioclase in the major rock.
- 160-170 As above - fine grained, no vein quartz.
- 170-250 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-50	Overburden	Lynchburg Formation ?
50-170	Amphibolite "dike" in the Lynchburg	Precambrian
170-250	No sample.	

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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