



OWNER: Dixie Motel  
DRILLER: C. R. Moore (Steele Ryalls)  
COUNTY: Greene (Ruckersville)

VDMR #1207  
WWCR #21  
TOTAL DEPTH: 300'

GEOLOGIC LOG

- 0-100        No sample.
- Robertson River Formation (100-300')
- 100        Quartz Monzonite — very-light-tan and black coarse- to medium-grained; plagioclase, microcline, quartz, amphibole; minor biotite, zircon, and sphene.
- 110        As above.
- 120        Gneissic Quartz Monzonite — medium-dark-gray, medium-grained good lineation; biotite, quartz, amphibole, plagioclase, microcline, pyroxene; minor pyrite.
- 130        Quartz Monzonite — very-light-gray with black, very-coarse- to medium-grained; plagioclase, microcline, quartz, amphibole pyroxene; minor biotite, apatite, zircon, and sphene.
- 140        As above.
- 150        As above — slightly coarser and with sericite alteration.
- 160        As above — slight lineation of dark minerals.
- 170        As above.
- 180        Quartz Monzonite — very-light-gray with black, very-coarse-grained to medium-grained; plagioclase, microcline, quartz, amphibole; trace pyrite.
- 190        As above — minor biotite.
- 200        As above — minor epidote; fractures.
- 210        As above — slight lineation of dark minerals.
- 220        Quartz Monzonite — very-light-gray with black, very-coarse- to medium-grained; plagioclase, microcline, quartz, amphibole, minor biotite; trace pyrite, epidote, zircon.
- 230        As above — slight lineation of dark minerals.
- 240        As above — no lineation.

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- 250 Quartz Monzonite — light-gray with black tinted with pink and green, very-coarse- to medium-grained; fracture zone, plagioclase, microcline, quartz, amphibole; minor pyrite, calcite, and epidote.
- 260 Quartz Monzonite — very-light-gray with black, very-coarse- to medium-grained; plagioclase, microcline, quartz, amphibole; trace calcite, and epidote.
- 270 Gneissic Quartz Monzonite — dark-gray, medium-grained, plagioclase, biotite, quartz, amphibole, microcline; minor apatite, zircon, epidote; trace pyrite.
- 280 As above — less biotite; some coarser feldspar crystals.
- 290 Gneissic Quartz Monzonite — very-light-gray with black, coarse- to medium-grained, slight lineation of dark minerals; plagioclase, microcline, amphibole, biotite, quartz; minor sericite, epidote, and zircon.
- 300 Quartz Monzonite — very-light-gray with black, very-coarse- to medium-grained; plagioclase, microcline, quartz, amphibole; minor biotite.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-100	No sample	
100-300	Robertson River Formation	Precambrian

Virginia Division of Mineral Resources  
Hollis N. Walker, Geologist  
January 20, 1965