



OWNER: U. S. Army Corps of Engineers  
(North Bend Well #1)  
DRILLER: Hickory Well Supply Co., Inc.  
COUNTY: Mecklenburg (Phillis)

VDMR #1293  
WWCR #53  
TOTAL DEPTH: 300'

GEOLOGIC LOG

- 0-88 No sample.
- Redoak Granite (88-300')
- 88-105 Granite Gneiss — light-pinkish-tan; 1.0 mm to 4.0 mm grain size; quartz, microcline, oligoclase, muscovite, biotite; minor apatite, chlorite, epidote; trace magnetite.
- 105-115 As above.
- 115-125 As above — phenocrysts of microcline to 6.0 mm.
- 125-135 Quartz Monzonite Gneiss — black, white, and pink; 1.0 mm to over 10 mm; quartz, oligoclase, biotite, microcline, muscovite; minor chlorite, magnetite, hornblende, epidote, apatite.
- 135-145 Granodiorite Gneiss — black and white minor pink; 0.5 to 10.0 mm; oligoclase-andesine, quartz, microcline, biotite, epidote; minor muscovite and magnetite; the hornblende occurs in layers with andesine and epidote.
- 145-155 Quartz Monzonite — white, black, and pale-pink, coarse-grained; microcline (phenocrysts to 12 mm), plagioclase, quartz, biotite, hornblende (concentrated in layers), epidote; minor magnetite.
- 155-165 As above — less hornblende; minor pyrite.
- 165-175 As above — still less hornblende.
- 175-185 As above.
- 185-195 Granite — pinkish-light-gray, coarse-grained; microcline, oligoclase, quartz, muscovite, biotite, chlorite; minor magnetite.
- 195-205 As above — trace pyrite.
- 205-215 As above — minor epidote.
- 215-225 As above.

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- 225-235 Granodiorite — black, white, and pale-pink; quartz, andesine, epidote, biotite, microcline, muscovite; minor hornblende, chlorite, magnetite, pyrite, trace garnet.
- 235-245 As above.
- 250 Granite — pale-pinkish-gray, coarse-grained (1-10 mm); quartz, oligoclase, microcline; minor biotite, muscovite, magnetite; trace epidote.
- 250-260 As above.
- 260-265 As above — very minor biotite; no hornblende; more muscovite.
- 265-275 As above — more biotite.
- 275-285 As above.
- 285-295 As above .
- 300 As above — more biotite.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-88	No sample	
88-300	Redoak Granite	Precambrian ?

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