

OWNER: U.S. Army Corps of Engineers
(Buffalo Springs Wayside Picnic Area)
DRILLER: Hickory Well Supply Co., Inc.
COUNTY: Mecklenburg (Buffalo Springs)

VDMR #1296
WWCR # 52
TOTAL DEPTH: 85'

GEOLOGIC LOG

Hornblende Gneiss (0-65')

- 0-5 Gneiss (Weathered) — very-pale-brown and black; very-coarse-grained; oligoclase-andesine, albite, quartz, biotite, potash feldspar, sericite, clays, minor magnetite.
- 5-15 Hornblende Gneiss — light-gray medium- to very-fine-grained with minor amount coarse material; potash feldspar, hornblende, plagioclase, biotite; minor quartz.
- 15-25 Hornblende Gneiss — light- to dark-gray, fine-grained; andesine, hornblende (grass-green to yellow-green), biotite, potash feldspar, minor quartz.
- 25-35 Hornblende Gneiss — light-gray and cream; light-gray; fine-grained, hornblende, calcic-andesine, potash-feldspar, epidote, minor quartz, sericite, trace pyroxene; cream colored: very-coarse- to fine-grained; perthitic microcline (to 12 mm) oligoclase, quartz, biotite, minor epidote.
- 35-45 As above.
- 45-55 As above — minor dark-gray portions (rich in hornblende).
- 55-65 As above — trace pyrite.
- 58 As above — part of coarse-grained material contains muscovite.

Redoak Granite (65-85')

- 65-75 Quartz Monzonite — white with black, very-coarse-grained (1-20 mm); microcline, oligoclase, biotite, hornblende, quartz, magnetite; minor epidote; trace pyrite, apatite and sphene; minor fine-grained material as in above levels.
- 75-80 As above.
- 80-85 As above.

GEOLOGIC SUMMARY

| | <u>ROCK UNIT</u> | <u>TIME ROCK UNIT</u> |
|-------|-------------------|-----------------------|
| 0-65 | Hornblende Gneiss | Precambrian ? |
| 65-85 | Redoak Granite | Precambrian ? |