



OWNER: State Police  
DRILLER: C. R. Moore  
COUNTY: Prince William (Independent Hill)

VDMR #1407  
WWCR #279  
TOTAL DEPTH: 196'

GEOLOGIC LOG

0-70 No samples.

Occoquan Granite (70-190')

70-80 Augen Granitic-Gneiss — light-gray and pale-orange-brown, very-coarse-grained; quartz, feldspar, muscovite, sericite, hematite with limonitic weathering stain.

80-90 As above — minor biotite.

90-100 Augen Granitic-Gneiss — light-pinkish- to greenish-gray, minor limonitic weathering stain; quartz and feldspar augen in a foliated matrix of muscovite, biotite, chlorite with minor hematite epidote and pyrite. Biotite is altered to chlorite.

100-110 As above — less weathering stain.

110-120 As above — less hematite.

120-130 Cataclastic Gneiss — light-greenish-gray, coarse- to fine-grained; plagioclase, quartz, sericite, muscovite, biotite, chlorite, minor epidote, pyrite, and hematite; minor weathering stain along fractures.

130-140 As above.

140-150 As above.

150-160 Cataclastic Gneiss — light-greenish-gray; coarse- to fine-grained; plagioclase, potash feldspar, quartz, chlorite, muscovite, biotite, epidote, minor pyrite; trace weathering stain. Feldspar crystals are broken distorted and recemented. Much of the matrix is a rock flour with fine-grained epidote patches.

160-170 As above.

170-180 As above.

180-190 As above.

190-196 No sample.

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GEOLOGIC SUMMARY

These samples are from the cataclastic gneiss called the Occoquan Granite, Post-Ordovician Age by John T. Lonsdale (VDMR Bulletin 30).

Virginia Division of Mineral Resources  
Hollis N. Walker, Geologist  
November 9, 1965