

OWNER: N. K. Tholand (Piedmont Farm Well # 2)
DRILLER: C. R. Moore
COUNTY: Rappahannock (Sperryville)

VDMR WELL # 1371
WWCR WELL # 31
Total Depth : 75

GEOLOGIC LOG

0-18 No Sample

Pedlar Formation (18-70')

18-20 Flaser Gneiss - white to medium-gray, very-coarse to fine-grained, anhydral cataclastic texture; alkali and saussuritized plagioclase, deep-blue to colorless quartz, fine-grained sericite and biotite; minor pale orange weathering stain.

20-30 As above - slight banding, less weathering.

30-40 Flaser Gneiss - white to medium-blue-gray, very coarse to fine-grained, cataclastic texture; anhedral crystals and fragments in a mortar structure, very faint banding; alkali-feldspar, saussuritized plagioclase, deep blue to colorless quartz, fine grained muscovite and biotite.

40-50 As above - more fine grained groundmass.

50-60 Flaser Gneiss (freshly fractured) - sample is as above with fractures; abundant tiny euhedral pyrite crystals on fracture surfaces; slight orange iron oxide stain; minor pale orange kaolinized gneiss.

60-70 Flaser Gneiss - light gray to medium-bluish-greenish-gray, medium grained, faintly banded; alkali-feldspar, quartz muscovite, biotite.

70 Gneiss - pale-bluish-gray with minor medium-dark-greenish-gray; alkali-feldspar, gray and deep-blue quartz, minor plagioclase, sericite, biotite and pyrite.

GEOLOGIC SUMMARY

<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-18 No Sample	
19-70 Pedlar Formation	Precambrian ?

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
September 28, 1965