

OWNER: National Forest Service,
 Bournes Branch Well #2
DRILLER: Frank W. Martin Drilling Co., Inc.
COUNTY: Carroll (Galax)

VDMR: 2167
WWCR: 204
TOTAL DEPTH: 600'

GEOLOGIC LOG

Depth in feet

0-10	Saprolite - grayish-tan, weathered and iron-oxide-stained phyllitic argillite; soft, fissile; minor amounts of clay
10-20	"
20-30	"
30-40	"
40-50	"
50-60	" less weathered and iron-oxide stained
60-70	Argillite - blue-gray, cryptocrystalline to microcrystalline, fissile; minor amount of vein quartz (X-ray analysis: quartz, chlorite, sericite plagioclase, clay minerals)
70-80	" no vein quartz
80-90	" "
90-100	" "
100-110	" "
110-120	" "
120-130	" "
130-140	" "
140-150	" "
150-160	" "
160-170	" "
170-180	" "

180-190	Argillite - blue-gray, cryptocrystalline to microcrystalline, fissile (X-ray analysis: quartz, chlorite, sericite plagioclase, clay minerals)
190-200	"
200-210	"
210-220	"
220-230	"
230-240	"
240-250	"
250-260	"
260-270	"
270-280	"
280-290	"
290-300	"
300-310	" minor amount of vein quartz
310-320	" no vein quartz
320-330	" "
330-340	" "
340-350	" trace of vein quartz
350-360	" no vein quartz
360-370	" trace of vein quartz
370-380	" "
380-390	" "
390-400	" "

400-410	Argillite - blue-gray, cryptocrystalline to microcrystalline, fissile; trace of vein quartz (X-ray analysis: quartz, chlorite, sericite plagioclase, clay minerals)
410-420	"
420-430	"
430-440	"
440-450	"
450-460	"
460-470	"
470-480	"
480-490	"
490-500	"
500-510	"
510-520	"
520-530	"
530-540	"
540-550	"
550-560	"
560-570	Argillite - blue-gray, cryptocrystalline to microcrystalline, fissile; minor amount of vein quartz (X-ray analysis: quartz, chlorite, sericite plagioclase, clay minerals)
570-580	" trace of vein quartz
580-590	"
590-600	"

OWNER: National Forest Service - 4 -
(Bournes Branch Well #2)

VDMR: 2167

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-60'	Saprolite	
60-600'	Hampton Formation	Early Cambrian

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
April 23, 1968