

INTERVAL SHEET

WWCR: 199

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VDMR Well No: 1751

Date rec'd: 11/17/66

Sample Interval: from 0' to: 500'

PROP: Dr. C. R. Nuckolls (Nuckolls Water System,  
Well # 2)

Number of samples: 50

COMP: Sydnor Hydrodynamics

Total Depth: 500'

COUNTY: Carroll (Hillsville)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To
0 - 10	300 - 310	-	-
10 - 20	310 - 320	-	-
20 - 30	320 - 330	-	-
30 - 40	330 - 340	-	-
40 - 50	340 - 350	-	-
50 - 60	350 - 360	-	-
60 - 70	360 - 370	-	-
70 - 80	370 - 380	-	-
80 - 90	380 - 390	-	-
90 - 100	390 - 400	-	-
100 - 110	400 - 410	-	-
110 - 120	410 - 420	-	-
120 - 130	420 - 430	-	-
130 - 140	430 - 440	-	-
140 - 150	440 - 450	-	-
150 - 160	450 - 460	-	-
160 - 170	460 - 470	-	-
170 - 180	470 - 480	-	-
180 - 190	480 - 490	-	-
190 - 200	490 - 500	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
280 - 290	-	-	-
290 - 300	-	-	-

All intervals have both washed and unwashed samples

OWNER: Dr. C. R. Nuckolls  
(Nuckolls Water System, Well #2)  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Carroll (Hillsville)

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TOTAL DEPTH: 500'

GEOLOGIC LOG

Depth in feet

0-10	Gneiss - red-brown, very weathered with a large amount of iron-oxide staining; weathered fragments of gneiss; quartz, mica, feldspar and clay
10-20	"
20-30	" brown; less weathering and iron-oxide staining
30-40	" "
40-50	Biotite-muscovite-gneiss - gray, fine-grained, foliated; micaceous, quartz, biotite, muscovite and feldspar
50-60	"
60-70	"
70-80	"
80-90	"
90-100	"
100-110	Mica schist - gray, fine-grained, well-foliated; muscovite, biotite, quartz, feldspar, and trace of chlorite
110-120	" with considerable gray, fine-grained, biotite-muscovite-gneiss
120-130	Biotite-muscovite-gneiss - gray, fine-grained, foliated, micaceous; quartz, biotite, muscovite and feldspar
130-140	"
140-150	" somewhat schistose; slickensides; more mica and trace of chlorite
150-160	" "

160-170	Mica schist - gray, fine-grained, well-foliated; muscovite, biotite, chlorite, quartz, feldspar, and trace of pyrite; a few slickensides, some of which have pyrite films on them
170-180	"
180-190	" trace of pink garnet; about 20% of sample is biotite-muscovite-gneiss
190-200	Biotite-muscovite-gneiss - gray, fine-grained, foliated, micaceous; quartz, biotite, muscovite and feldspar
200-210	"
210-220	"
220-230	"
230-240	"
240-250	"
250-260	"
260-270	"
270-280	"
280-290	"
290-300	"
300-310	"
310-320	"
320-330	"
330-340	"
340-350	"
350-360	"
360-370	"

OWNER: Dr. C. R. Nuckolls - 3 -  
(Nuckolls Water System, Well #2)

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370-380	Biotite-muscovite-gneiss - gray, fine-grained, foliated, micaceous; quartz, biotite, muscovite and feldspar
380-390	"
390-400	"
400-410	"
410-420	"
420-430	"
430-440	"
440-450	"
450-460	"
460-470	"
470-480	"
480-490	"
490-500	"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-40'	Saprolite	
40-500'	Lynchburg Formation (?)	Precambrian

Note: All or most of samples from intervals between 220 and 500 feet were pulverized to a fine-grained powder by the drill bit

Virginia Division of Mineral Resources  
Robert G. Willson, Geologist  
December 15, 1967