

INTERVAL SHEET

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VDMR Well No: 1748

Date rec'd: 11/16/66

Sample Interval: from 0' to: 390'

PROP: J. L. Cromwell #4

Number of samples: 25

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 390'

COUNTY: Loudoun (Purcellville)

Oil or Gas: Water: <sup>X</sup> Exploratory:

From-To	From-To	From-To	From-To
0 - 15	-	-	-
15 - 30*	-	-	-
30 - 50	-	-	-
50 - 74	-	-	-
74 - 90	-	-	-
90 - 105	-	-	-
105 - 120	-	-	-
120 - 135	-	-	-
135 - 150	-	-	-
150 - 165	-	-	-
165 - 180*	-	-	-
180 - 195*	-	-	-
195 - 210	-	-	-
210 - 225	-	-	-
225 - 240	-	-	-
240 - 255	-	-	-
255 - 270	-	-	-
270 - 285	-	-	-
285 - 300*	-	-	-
300 - 315	-	-	-
315 - 330	-	-	-
330 - 345	-	-	-
345 - 360	-	-	-
360 - 375	-	-	-
375 - 390*	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

\* Unwashed samples only

OWNER: J. Lynn Cornwell, Inc., Well #4  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Loudoun (Purcellville, Va.)

VDMR: 1748  
WWCR: 601  
TOTAL DEPTH: 390'

GEOLOGIC LOG

Depth in feet

0-15	Saprolite - tan; highly-oxidized; quartz, feldspar, biotite, clay and muscovite
15-30	Gneiss - gray; coarse to fine-grained, granitic; quartz, feldspar, biotite, pink feldspar and trace of pyrite
30-50	" with trace of malachite
50-74	Schist - greenish-gray; fine-grained, foliated; quartz, amphiboles, chlorite, feldspars biotite, sericite and trace of pyrite
74-90	Gneiss - gray; coarse- to fine-grained; quartz, feldspar, biotite, chlorite, pink feldspar and amphiboles
90-105	"
105-120	Phyllite - gray; aphanitic, cryptocrystalline to slightly micro-crystalline; quartz feldspar; micaceous
120-135	Biotite Gneiss - light-gray; medium- to fine-grained, granitic; quartz, feldspar, biotite and muscovite
135-150	"
150-165	Quartz - white; coarse-grained; mixed with Greenstone - dark greenish-gray; fine grained; quartz, chlorite, biotite, amphiboles and feldspar
165-180	Biotite Gneiss - gray; coarse- to fine-grained; quartz, feldspar, biotite, amphibolites, chlorite and sericite
180-195	"
195-210	"
210-225	"
225-240	" increase in amphiboles and chlorite
240-255	Greenstone - gray to greenish-gray; fine-grained, schistose; quartz, feldspar, chlorite, biotite, amphiboles, sericite and pyrite

OWNER: J. Lynn Cornwell, Inc., Well #4

#1748

- 255-270 Chlorite Schist - dark greenish-gray, fine-grained, (sheared greenstone?); quartz, chlorite, feldspar, biotite, amphiboles, pyrite and sericite
- 270-285 Schistose Gneiss - dark gray; fine-grained; quartz, biotite, feldspar, chlorite, sericite, amphiboles and pyrite
- 285-300 " less biotite and chlorite
- 300-315 " more schistose
- 315-330 "
- 330-345 Chlorite Schist - dark gray; fine-grained; quartz, chlorite, biotite, feldspar, amphiboles, sericite and pyrite
- 345-360 Gneiss - gray; fine-grained, slightly foliated; quartz, feldspar, biotite, chlorite, amphiboles and pyrite
- 360-375 "
- 375-390 "

GEOLOGIC SUMMARY

<u>Rock Unit</u>	<u>Age</u>
Marshall Formation (?)	Precambrian

Virginia Division of Mineral Resources  
Robert G. Willson, Geologist  
October 25, 1967