

INTERVAL SHEET

Page 1 of 1

VDMR Well No: 1743

Date rec'd: 11/10/66

Sample Interval: from 0 to 490'

PROP: 4-H Club Camp (Flora) #1

Number of samples: 47

COMP: F. W. Martin

Total Depth: 500'

COUNTY: Franklin (Endicott)

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	No sample	-	-
130 - 140	430 - 440	-	-
No sample	440 - 450	-	-
150 - 160	450 - 460	-	-
160 - 170	460 - 470	-	-
170 - 180	470 - 480	-	-
180 - 190	480 - 490	-	-
190 - 200	-	-	-
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: 4-H Club (Flora)
DRILLER: F. W. Martin
COUNTY: Franklin (Endicott)

VDMR: 1743
WWCR: 69
TOTAL DEPTH: 500'

GEOLOGIC LOG

Depth in feet

0-10	Overburden - reddish-orange, micaceous decomposed gneiss; bleached biotite, quartz, talc, garnet.
10-20	"
20-30	Overburden - light brown, micaceous decomposed gneiss with bleached biotite.
30-40	"
40-50	"
50-60	Overburden - saprolite, light brown, micaceous, with bleached biotite.
60-70	"
70-80	"
80-90	Biotite-muscovite gneiss - gray, silvery, fine-grained; with dark brown, biotite-rich bands and gray quartzo-feldspathic bands 1-2 mm thick with little or no mica.
90-100	Biotite-muscovite gneiss - gray, medium-grained, variable amounts of biotite and muscovite that occur in bands; overall mica content 20%; traces of garnet (two varieties: pink almandine and honey-colored grossularite?), pyrite and pyrrhotite.
100-110	Biotite-muscovite gneiss - gray, medium-grained, variable amounts of biotite and muscovite that occur in bands; overall mica content 20%; traces of garnet (two varieties: pink almandine and honey-colored grossularite?), pyrite and pyrrhotite with 10% pale blue-gray to gray, bladed kyanite crystals up to 3 mm long, and some garnets.
110-120	"
120-130	Biotite-muscovite gneiss - gray, fine-grained; with 0-10% kyanite, some garnets, and traces of magnetite and pyrite.
130-140	"
140-150	No sample.

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#1743

- 150-160 Biotite-muscovite gneiss - gray, fine-grained; with 0-5% muscovite and some garnets.
- 160-170 "
- 170-180 Biotite-muscovite gneiss - gray, fine-grained; with 5% chlorite.
- 180-190 Biotite-muscovite gneiss - gray, silvery, fine-grained; with some garnets.
- 190-200 Biotite-muscovite gneiss and garnet amphibolite - gray, fine-grained mica gneiss and fine-grained dark greenish-black, actinolitic, chloritic gneiss with traces of 1 mm garnets.
- 200-210 Biotite-muscovite gneiss - gray, medium-grained, variable amounts of biotite and muscovite that occur in bands; overall mica content 20%; traces of garnet (two varieties: pink almandine and honey-colored grossularite?), pyrite and pyrrhotite.
- 210-220 Garnet-amphibolite - blackish green, fine-grained; with acicular actinolite (70-95%), plagioclase biotite, chlorite, and almandine garnet.
- 220-230 Garnet-amphibolite and biotite-garnet gneiss - blackish green, fine-grained; with acicular actinolite (70-95%), plagioclase biotite, chlorite, and almandine garnet with 5% 0.5-to 1-mm garnet and traces of pyrrhotite; quartz lenticles.
- 230-240 Biotite-garnet gneiss - gray, fine-grained; with 5% 0.5-to 1-mm garnet and traces of pyrrhotite; quartz lenticles.
- 240-250 Muscovite-biotite-garnet schist and garnet amphibolite - silvery gray, medium-grained garnet-mica schist, and fine-grained blackish-green garnet-amphibolite gneiss.
- 250-260 Muscovite-biotite-garnet schist and garnet amphibolite - with leucocratic band containing plagioclase, quartz and an unidentified brown 5x1 mm translucent, monoclinic(?) crystal in plagioclase.
- 260-270 Muscovite-biotite gneiss and garnet amphibolite - silvery-white schistose mica gneiss, and dark-green and greenish-black, fine-grained amphibolite (70-95% amphibole, 5-30% plagioclase, trace of garnet).
- 270-280 "
- 280-290 " with quartz band.
- 290-300 "

OWNER: 4-H Club (Flora #1)

#1743

- 300-310 Muscovite-biotite-gneiss - silvery-gray, schistose, fine-grained gneiss, with medium-grained mica-rich bands; traces of garnet.
- 310-320 "
- 320-330 "
- 330-340 "
- 340-350 " with traces of pyrite.
- 350-360 "
- 360-370 "
- 370-380 "
- 380-390 "
- 390-400 "
- 400-410 Garnet-amphibolite gneiss - dark gray-green to greenish-black, fine-grained; with black acicular amphibole crystals 0.5 - 2 mm long (70-90%), plagioclase (10-25%), biotite (0-5%); traces of garnet, pyrite, chalcopyrite, and calcite.
- 410-420 "
- 420-430 No sample.
- 430-440 Garnet-amphibolite gneiss - dark gray-green to greenish-black, fine-grained; with black acicular amphibole crystals 0.5 - 2 mm long (70-90%), plagioclase (10-25%), biotite (0-5%); traces of garnet, pyrite, chalcopyrite, and calcite.
- 440-450 "
- 450-460 "
- 460-470 "
- 470-480 "
- 480-490 "
- 490-500 No sample.

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GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-100	Overburden	
100-500	Lynchburg Formation	Late Precambrian

Virginia Division of Mineral Resources
Richard S. Good, Geologist
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