

INTERVAL SHEET

WWCR 58

Page 1

VDMR WELL NO.: Well No. 1131

Date 9/1/64

Sample Interval: from 0 to 344

PROP: Lake Shore Estates (Pennick)

Total Depth 344

COMP: Martin Drilling

Oil Gas Water X Exploratory

COUNTY: Franklin (Coopers Cove)

Cuttings X Core Other

VDMR WELL NO: W-1131

Washed samples - only

From-To	From-To	From-To	From-To	From-To
-	-	0 - 5	150 - 155	325 - 330
-	-	5 - 10	155 - 160	330 - 335
-	-	10 - 15	160 - 165	335 - 340
-	-	15 - 20	165 - 170	340 - 344
-	-	20 - 25	170 - 175	-
-	-	25 - 30	175 - 180	-
-	-	30 - 35	180 - 185	-
-	-	35 - 40	185 - 190	-
-	-	40 - 45	190 - 195	-
-	-	45 - 50	195 - 200	-
-	-	50 - 55	200 - 205	-
-	-	55 - 60	205 - 210	-
-	-	60 - 65	210 - 215	-
-	-	65 - 70	215 - 220	-
-	-	70 - 75 *	220 - 225	-
-	-	75 - 80	225 - 230	-
-	-	80 - 85	230 - 260 *	-
-	-	85 - 90	260 - 265	-
-	-	90 - 95	265 - 270	-
-	-	95 - 100	270 - 275	-
-	-	100 - 105	275 - 280	-
-	-	105 - 110	280 - 285	-
-	-	110 - 115	285 - 290	-
-	-	115 - 120	290 - 295	-
-	-	120 - 125	295 - 300	-
-	-	125 - 130	300 - 305	-
-	-	130 - 135	305 - 310	-
-	-	135 - 140	310 - 315	-
-	-	140 - 145	315 - 320	-
-	-	145 - 150	320 - 325	-

* No samples

OWNER: Lake Shore Estates (Pennick)
DRILLER: Martin Drilling
COUNTY: Franklin (Coopers Cove)

VDMR #1131
WWCR #58
TOTAL DEPTH: 344'

GEOLOGIC LOG

0-5	Overburden - reddish brown, medium grained, feldspar, muscovite, biotite, quartz, clay, iron oxides.
5-10	Overburden - gray, brown, and white, medium grained, foliated, quartz, biotite, muscovite, microcline, clay, plagioclase, less oxidation than above.
10-15	Overburden - medium gray-brown, as above, less oxidation.
15-20	Overburden - medium gray-brown, medium grained, quartz, biotite, muscovite, microcline clay, iron oxides.
20-25	As above.
25-30	As above - decreasing biotite, small amount zircon.
30-35	As above.
35-40	Overburden - medium brownish-gray, medium to fine grained, feldspar, quartz, biotite, muscovite, traces of zircon, some oxidation.
40-45	As above.
45-50	As above.
50-55	As above.
55-60	Overburden - medium brownish-gray, medium grained, quartz, feldspar, biotite, trace of zircon, minor oxidation.
60-65	As above.
65-70	Biotite Gneiss - dark gray and white curved, coarse grained foliation, biotite, quartz, plagioclase, amphibole, trace of apatite, minor oxidation.
70-75	No sample.

- 75-80 Biotite Gneiss - dark gray and white curved, coarse grained foliation, biotite, quartz, plagioclase, amphibole, trace of apatite, minor oxidation.
- 80-85 As above - less oxidation.
- 85-90 Biotite Gneiss - medium gray, coarse grained, foliated, quartz, biotite, plagioclase, less oxidation than above: X-ray examination, 40% biotite, 40% quartz, 20% plagioclase.
- 90-95 As above.
- 95-100 As above.
- 100-105 Augin Gneiss - dark gray, fine grained dark material and minor light gray coarse grained potash feldspar, plagioclase, and quartz; X-ray examination of dark material, 55% biotite, 25% quartz, 20% plagioclase, 5% amphibole.
- 105-110 As above.
- 110-115 As above.
- 115-120 Augin Gneiss - medium gray, coarse grained, increase in quartz and feldspar, decrease in biotite to 30%, trace of zircon.
- 120-125 As above - with oxidation zones, trace of pyrite.
- 125-130 Gneiss - medium gray, coarse grained, quartz, feldspar, fine grained biotite.
- 130-135 As above.
- 135-140 As above.
- 140-145 As above.
- 145-150 Augin Gneiss - medium gray, coarse grained, quartz, feldspar, fine grained biotite, trace of pyrite.
- 150-155 As above.
- 155-160 As above.
- 160-165 Gneiss - medium gray, coarse grained, quartz, plagioclase and microcline, fine grained stringers of biotite.

- 165-170 Monzonitic Biotite Gneiss - pink, black, white, coarse grained, acid plagioclase, quartz, microcline, minor fluorite, zircon, amphibole.
- 170-175 As above.
- 175-180 As above.
- 180-185 As above.
- 185-190 As above - with minor pyrite, no zircon or amphibole.
- 190-195 Monzonitic Biotite Gneiss - black, pink, white, coarse grained, biotite, plagioclase, microcline, and quartz, minor amphibole, trace of pyrite.
- 195-200 As above.
- 200-205 As above.
- 205-210 As above.
- 210-215 Granitic Gneiss - pink, white, black, coarse grained, microcline, quartz (often sugary), acid plagioclase, biotite, trace of zircon.
- 215-220 Granite Gneiss - pink, white, and black, coarse grained, microcline, acid plagioclase, quartz, biotite.
- 220-225 As above - with minor pyrite.
- 225-230 As above - no pyrite noted.
- 230-260 No samples.
- 260-265 Granite Gneiss - pink, white, black, coarse grained, microcline, acid plagioclase, quartz, biotite, with minor pyrite.
- 265-270 Granitic Biotite Gneiss - pink, white, black, coarse grained, microcline, acid plagioclase, biotite, less quartz, minor amphibole, trace rutile.
- 270-275 Granitic Gneiss - light pinkish gray, coarse grained, acid plagioclase, quartz, microcline, biotite, trace of pyrite.

- 275-280 Granitic Gneiss - light pinkish-gray, coarse grained, acid plagioclase, quartz, microcline, biotite, trace of pyrite.
- 280-285 As above - with minor tourmaline.
- 285-290 Biotite Granite - pink, gray, white, coarse grained, microcline, acid plagioclase, quartz, biotite, minor amphibole.
- 290-295 As above.
- 295-300 As above.
- 300-305 Biotite Granite - white, pink, gray, coarse grained; X-ray analysis: 30% microcline, 30% quartz, 20% biotite, 20% plagioclase, minor amphibole.
- 305-310 As above - trace of pyrite.
- 310-315 As above - trace of zircon.
- 315-320 Biotite Granite - light pinkish-gray, coarse grained, microcline, acid plagioclase, quartz, biotite, and amphibole.
- 320-325 As above.
- 325-330 As above.
- 330-335 As above - no amphibole noted.
- 335-340 Biotite Granite - gray, salmon pink, white, black, coarse grained, microcline, quartz, acid plagioclase, biotite, minor amphibole.
- 340-344 As above.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-65	Overburden	Quaternary
65-344	Virginia Blue Ridge Complex	Precambrian