## INTERVAL SHEET

WWCR 438 Page\_\_\_\_l VDMR Well No.: 1390 Date\_\_10/13/65 Sample Interval: from 10 to 250 PROP: R. Burchfield Total depth 250 (North Lakes # 2) Oil\_\_\_Gas\_\_\_Water\_X\_Exploratory\_\_\_\_ COMP: Frank Martin Drilling Cuttings X Core Other COUNTY: Roanoke (Roanoke) VDMR WELL NO: W-1390 WASHED SAMPLES From-To From-To From-To From-To From-To O \_ 10 No Sample 10 \_ 20 20 \_ 30 30 \_ 40 40 \_ 50 50 \_ 60 60 \_ 70 70 \_ 80 80 - 90 90 - 100 100 - 110 110 - 120 120 - 130 130 - 140 140 - 150 150 - 160 160 - 170 170 - 180 180 - 190 190 - 200 200 - 210 210 - 220 220 - 230 230 - 240 240 - 250

OWNER: R. Burchfield (North Lake Estates Well #2) VDMR WELL # 1390 DRILLER: Frank W. Martin Drilling Co. WWCR WELL # 438

COUNTY: Roanoke (Roanoke)

TOTAL DEPTH: 250

## GEOLOGIC LOG

0-10

No sample

Bays Formation (10-90')

10-20

Arkose and Shale - medium-light greenish-gray, veryfine- to medium-coarse-grained, very angular, feldspathic sand in an abundant matrix of sericite chlorite and minor carbonate. Shale very-fine-grained and slightly fissile; about half of this sample is weathered to pale-orange-brown; minor ferruginous concretions; trace dark red-brown sandstone.

20-30

As above - less coarse-grained arkose, less weathering

no ferruginous concretions.

30-40

As above

40-50

As above - minor dark-brown shale; trace vein calcite.

50-60

Shaly Arkose - medium-light-greenish-gray, very-fineto medium-coarse-feldspathic sand in a matrix of sericite.

chlorite and minor calcite; weathered fractures with

water rounding in coarser material.

60-70

As above - less weathered material.

70-80

As above

80-90

As above - more calcareous.

Athens Formation (90-250)

90-100

Calcareous Shale - medium-dark-gray, slightly purple; fissile; trace of calcite veins; minor shaly arkose

as above.

100-110

As above - no sandstone, more vein calcite; minor fractures weathered to orange-tan and green, some fragments

show rounding.

110-120

As above - minor orange-yellow sandstone.

120-130

Calcareous Shale - medium-dark-bluish-gray; minor vein calcite; one-third of sample weathered to pale-greenish-

yellow and light orange.

130-140

As above - part of weathered portion sandy and red.

140-150

As above

OWNER: R. Burchfield	(North Lake Estates Well #2)	#1390
150-160	Calcareous Shale - dark-blue-gray slightly fis minor veins of calcite and minor leached yello orange and yellow-green shale.	
160-170	As above	
170-180	As above	
180-190	As above - more fissile, less weathering.	
190-200	As above - trace of weathered material (may be	contamination).
200-210	As above	
210-220	As above	
220-230	As above	
230-240	Calcareous Shale - dark-blue-gray, minor veins	of calcite.
240-250	As above - veins are micro faults which show to of movement, they also contain quartz.	two stages

## GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
0-10	No sample	
10-90	Bays Formation	Middle Ordovician
90-250	Athens Formation	Middle Ordovician

Virginia Division of Mineral Resources Hollis N. Walker, Geologist October 21, 1965