#### INTERVAL SHEET

#### **WWCR 433**

Date		WWCR 433
PROP:	Page1	VDMR Well No.: Well No. 1284
(Hillendale Sub.)  COMP: R. Obenchain  COUNTY: Roanoke (Medley)  VDMR Well No: W-1284  From-To	Date3/23/65	Sample Interval: from 20 to 310
COMP: R. Obenchain   Oil   Gas   Water X   Exploratory		Total depth 310
VDMR Well No: W-1284         Washed samples           From-To         From-To         From-To         From-To           -         0 - 20 No sample -         -           -         20 - 30 -         -           -         40 - 50 -         -           -         40 - 50 -         -           -         60 - 70 -         -           -         70 - 80 -         -           -         80 - 90 -         -           -         90 - 100 -         -           -         100 - 110 -         -           -         120 - 130 -         -           -         130 - 140 -         -           -         140 - 150 -         -           -         170 - 180 -         -           -         180 - 190 -         -           -         180 - 190 -         -           -         220 - 230 -         -           -         230 - 240 -         -           -         240 - 250 -         -           -         240 - 250 -         -           -         260 - 270 -         -           -         280 - 290 -         -           -		OilGasWater_X_Exploratory
From-To From-To From-To From-To From-To  -	COUNTY: Roanoke (Medley)	Cuttings X Core Other
- 0 - 20 No sample 20 - 30 30 - 40	VDMR Well No: W-1284	Washed samples
- 20 - 30	From-To From-To	From-To From-To From-To
- 30 - 40	-	0 - 20 No sample -
- 40 - 50	e e	
- 40 - 50	-	30 - 40 -
50 60  - 60 70 - 70 80 - 70 80 - 80 90 - 90 100 - 100 110 - 100 110 - 120 - 120 130 - 130 140 - 140 150 - 150 160  - 150 160 - 170 - 180 - 180 190 - 190 200 - 200 210 - 200 210 - 220 230 - 220 230 - 240 250 - 240 250 - 250 260 - 280 270 - 280 290 - 280 280 280 - 280 280 - 280 280 - 280 280 - 280 280 - 280 280 - 280 280 - 280 280 - 2	-	
- 70 - 80	-	
- 70 - 80		60 - 70
- 80 - 90		
90 - 100 100 - 110  - 110 - 120 - 120 - 130 - 120 - 130 - 140 - 150 - 140 - 150 - 150 - 160  - 150 - 160  - 170 - 180 - 180 - 190 - 190 - 200 - 190 - 200 - 200 - 210  - 220 - 230 - 220 - 230 - 230 - 240 - 240 - 250 - 250 - 260  - 260 - 270 - 280 - 290 - 290 - 300 - 290 - 300	Y ME TO THE TOTAL	
100 - 110  -	_	
- 110 - 120	-	
-		100 110
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- 140 - 150 - 160	-	120 - 130
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- 180 - 190 190 190 - 200 200 - 210		160 - 170 -
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- 190 - 200	-	
- 200 - 210 - 220 220 - 230 230 - 240 240 - 250 250 - 260 250 - 260 270 - 280 290 - 300 290 - 300	-	
- 220 - 230		STATE OF THE STATE
- 220 - 230		
- 230 - 240 240 240 - 250 250 - 260	W C-4	
- 240 - 250 - 250 - 260		
- 250 - 260		
- 260 _ 270		
- 270 - 280 280 290		250 260
- 280 - 290 290		260 _ 270
- 290 - 300		270 - 280
- 290 - 300	-	
		California (California California

OWNER: F. W. Hartman DRILLER: R. Obenchain

COUNTY: Roanoke

VDMR #1284 WWCR #433 TOTAL DEPTH: 310'

# GEOLOGIC LOG

## Elbrook Formation (0-150')

0-20	No sample.
20-30	Limestone and Clay — dark-gray, very-fine-grained limestone, and buff to pale-green calcareous clay; some calcite veins.
30-40	Limestone — dark-gray, very-fine-grained, limestone, and light-gray calcilutite, magnesian (limited reaction to 10% acid solution); quartz-carbonate vein material (quartz extensively replaced by carbonate); moderately abundant cubic pyrite (concentrated in, but not restricted to the quartz-carbonate vein material).
40-50	As above — but less vein material and less pyrite.
50-60	Limestone — dark-gray, very-fine-grained magnesian lime- stone, locally medium-grained, locally pyritic; light-gray calcilutite, some quartz-carbonate-pyrite vein material.
60-70	Limestone — light- to medium-gray calcilutite; less magnesian than in preceding samples; some cubic pyrite.
70-80	Limestone — light-gray calcilutite; small amounts of pyrite and yellow, calcareous clay.
80-90	Limestone — gray to bluish-gray calcilutite; trace of pyrite (cubic and octahedral).
90-100	As above.
100-110	Limestone — gray to brownish-gray calcilutite; trace of pyrite (cubic and octahedral).
110-120	As above.
120-130	As above.
130-140	Limestone — light-gray calcilutite; small amount of black, slightly calcareous shale; coarse-grained calcite (vein calcite?) moderately abundant; some limonite and pyrite.

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140-150	Limestone - gray, very-fine-grained; subordinate amount		
	of soft, black, calcareous shale; some vein calcite; small		
	amount of pyrite.		

# Martinsburg Formation (150-310')

150-160	Limestone — dark-gray, thin-bedded, very-fine-grained, argillaceous; moderately abundant vein calcite; trace of pyrite
160-170	As above.
170-180	As above.
180-190	As above.
190-200	As above.
200-210	As above.
210-220	As above.
220-230	As above.
230-240	As above.
240-250	As above.
250-260	As above.
260-270	As above.
270-280	As above.
280-290	As above.
290-300	As above.
300-310	As above.

## GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
0-150	Elbrook Formation	Cambrian
150-310	Martinsburg Formation	Ordovician

Virginia Division of Mineral Resources Robert H. Teifke, Geologist April 1, 1965