INTERVAL SHEET

Page1	WWCR 297 VDMR Well No.:_Well No. 1039		
Date6/9/64	Sample Interval: from 0 to 330		
PROP: Ralph Musgraves	Total depth		
- 0			
COMP: Sydnor	011 <u> </u> Gas <u> </u> Water	<u>X</u> Exploratory	
COUNTY: Augusta (Verona)	Cuttings <u>X</u> Core_	Other	
VDMR Well No: W-1039	Washed samples only		
From-To From-To	From-To Fro	om-To From-To	
	0 - 20	<u> </u>	
	20 - 40		
	40 - 60		
	60 - 75		
	75 ⁻ 90		
	90_ 105		
	105 - 120		
	120 - 135		
	135 - 150		
	150 - 165		
- -	165 _ 180		
	180- 195		
	195 - 210		
– –	210 - 225 No sample		
	225 240		
	240 - 255		
	255 - 270 No sample		
	270 - 285		
	285 ⁻ 305		
	305 320		
	305_330		
	-		
	-		
	-		
	-		
	-		
	-		
	-		
	-		
	-		

OWNER: Ralph E. Musgraves - Well #2 DRILLER: Sydnor Pump and Well Co., Inc. COUNTY: Augusta (Verona) VDMR #1039 WWCR #297 TOTAL DEPTH: 330'

GEOLOGIC LOG

0-20	Overburden - pale-orange clay, claystone, and angular
	vein quartz; minor medium-gray, fine-grained dolomite.

Elbrook Formation (20-285')

- 20-40 Argillaceous Dolomite medium-light-gray, very-finegrained; shaly fractures; minor calcareous dolomite composed of clastic fragments; minor calcite veins throughout.
- 40-60 Dolomite medium- to medium-light-gray, finely crystalline, drusy and porous; abundant sparry vein calcite; minor argillaceous dolomite.
- 60-75 Dolomite medium-gray, fine-grained, argillaceous; minor leached claystone; minor medium-light-gray sandstone; mediumgrained sand, dolomite cement; trace pyrite.
- 75-90 As above dolomite darker and slightly porous, trace chert, abundant vein calcite.
- 90-105 Dolomite light-brownish-gray, very-finely-crystallized, minor sand, goethite-after-pyrite; abundant veins calcite and dolomite.
- 105-120 Dolomitic Limestone medium-dark-gray, fine-grained, argillaceous, vein calcite, minor drusy porous material.
- 120-135 Argillaceous Dolomite medium-light-gray to buff; finegrained; abundant vein calcite and goethite-after-pyrite; minor clastic dolomite and buff-colored, very-fine-grained sandstone.
- 135-150 Calcareous Dolomite medium-gray, very-fine-grained; minor buff-colored, argillaceous limestone and vein calcite.
- 150-165 Dolomite medium-gray, very-fine-grained, argillaceous; vein calcite.

165-180 As above — minor shaly laminae.

180-195 As above — with minor greenish, medium-crystalline, porous, siliceous limestone.

OWNER: Ralph E. Musgraves - Well #2

- 195-210 Argillaceous Limestone -- medium-gray, very-fine-grained; minor portion leached to light-brown, shaly limestone.
- 210-225 No sample.
- 225-240 Argillaceous Limestone medium-gray, very-fine-grained.
- 240-255 Argillaceous Dolomite medium-blue-gray very-fine-grained; minor vein calcite.
- 255-270 No sample.
- 270-285 Argillaceous Dolomite medium-blue-gray, very-fine-grained, minor vein calcite.

Staunton Fault Breccia (285-330')

- 285-305 Brecciated Dolomite light-gray, minor medium-gray, mylonite in part; recemented with calcite and dolomite; abundant fine pyrite crystals.
- 305-320 As above minor iron oxide stain.
- 305-330 Brecciated Dolomite medium-dark- to dark-gray, veryfinely crystalline; abundant dusty pyrite, recemented with fine veins of pale-cream-colored dolomite and coarser calcite veins; minor vugs of dolomite crystals.

GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
0-20	Overburden	Recent
20-285	Elbrook Formation	Cambrian
285-330	Staunton Fault Breccia	Post Mississippian

Virginia Division of Mineral Resources Hollis N. Walker, Geologist June 28, 1965