INTERVAL SHEET

)r				WWCR 22
Page1	VDMR WELL NO.: Well No. 1116			
Date 10/14/64		Sample Interva	al: from 2	0 <sub>to</sub> 315
PROP: J. N. Broadus		Total Depth	318	
COMP: J. T. Ellington		OilGas	WaterX	Exploratory
COUNTY: Caroline (Thornburg)		Cuttings <u>X</u>	_Core(	Other
VDMR WELL NO: W-1116	Washed	Samples		
From-To From-To			rom-To	From-To
	$20^{-}$	20 No sample 30	_	-
	30 -	45	÷ .	-
	45 -	60	-	-
	60 -	75	-	-
	75 -	90	-	-
	90 -	105	_	-
	105 -	120	-	-
	120 -	135	-	-
	135 -	145	-	-
) -	145 -	165	57 A.	-
	165 -	180	-	_
		195	Ξ	
		210	-	-
	210 -	225 No sample	-	-
		240	-	-
	240 -	255	- · ·	_
	255 -	270	-	-
		285		-
		300	-	-
		315	-	-
	315 - 1	318 No sample	14 C	
	-		-	-
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)	-		-	-
	12.27			
-	-			-

OWNER: J. N. Broadus DRILLER: J. T. Ellington COUNTY: Caroline

VDMR 1116 WWCR 22 TOTAL DEPTH: 318'

## GEOLOGIC LOG

No sample.
Quartz Gravel - white, subangular to subrounded, up to 15 mm. in length, frosted, no fine material.
Quartz Gravel and Sand - gravel as above, quartz sand - tan, fine grained, subangular to angular, clear to frosted, minor clay and muscovite, few fossils.
Sand - tan, clear, angular to subangular, quartz, more clay and muscovite than above.
Quartz Gravel and Sandy-Silt - white to gray, gravel same as previously, sandy-silt - very fine, subangular, quartz, muscovite, few fossils.
As above.
Sand - light tannish-gray, clear to frosted, subangular to subrounded, fine grained quartz, minor clay and glauconite.
As above - except quartz, fine to medium grained and considerable pyrite.
As above - slightly calcareous.
Sand Biotite Granite - sand as above, granite composed of biotite and quartz.
rite
Biotite Granite - salt and pepper color, biotite, quartz, pyrite, feldspar, possibly garnet and apatite.
As above.
Granodiorite - X-ray analysis: 35% quartz, 35% biotite, 20% plagioclase, 5% clay, and 5% pyrite and garnet.
As above - but less biotite.

OWNER: J. N. Broadus (Continued)

- 225-240 Granodiorite X-ray analysis: 35% quartz, 35% biotite, 20% plagioclase, 5% clay, and 5% pyrite and garnet.
- 240-255 As above.
- 255-270 As above.

As above - but less plagioclase.

285-300 As above.

300-315 Granodiorite - minerals the same as previously, but the biotite and quartz and plagioclase have a felted or woven relation, possibly a gneiss.

315-318 No sample.

## GEOLOGIC SUMMARY

## ROCK UNIT

TIME ROCK UNIT

0-20	No sample	
20-145	Calvert Formation	Miocene
145-315	Granite and Granodiorite	Precambrian

Virginia Division of Mineral Resources Garnett Gatlin, Geologist August 25, 1964