INTERVAL SHEET

)	-		1111-		INTINICE OOL	
	Page	1		VDMR Well No.	*959	
	Date	3-5-64		Sample Interv	al: from <u>40</u> to <u>395</u>	
	PROP:	Am. Tel. and	Tel. (omps #1)	Total depth	400	·····
	COMP:	Singhas		OilGas_	Water X Explorator	У
	COUNTY:	Frederick	(Piney Ridge)	Cuttings <u>X</u>	CoreOther	
	From-To	)	From-To	From-To	From-To	From-To
	-		0_40 No samples	-	÷	-
	-		40_	-	=	-
	-		22-	- N	- Weshed Complete	2-
	-		70 <b>-</b> 95	- IN C	o washed Samples	_
	-		03-	_	-	-
	-		100-	_	-	-
	-		115-	-	<del></del>	-
	-		130-	-	-	2 <del>4</del> 2
	-		145-	-	-	-
$\bigcirc$		×.	160-	.=1	-	-
	_		175-	_	-	-
	-		190-	-	_	-
	-		205-	-	-	
	-	*	220-	-	a 11 <b>–</b> 1	
	-		235 -	-	-	-
			05.0			
	÷		200-		_	2
	-		200-	-	_	_
	-		305 -	_		_
	-		320-	-	~	-
	-		335 -	2 <u>—</u> 3	_	-
	-		350 -	-	-	-
			365 -	-	-	-
	-		380 -	-	· · ·	_
	-		395 -		-	-
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)	-		-	-	-	-
	-		-	-	-	-
			-	-	-	-

	OWNER: DRILLER: COUNTY:	American Tel. Herman Singha Frederick (Wh	• & Tel. as nitacre)	(Omps #1)	1	IOTAL 1	VDMR WWCR DEPTH	# 959 # 281 : 400				
GEOLOGIC LOG												
	0-40	Nc	o sample- graine	(Drillers log ed, tan, red	says overa and gray.)	abunde	nt san	dstone, fine				
	40-55	Sa	andstone graine multi felds	and Siltstone ed, subangula -colored quar pathic partic	e - tanish-o ar to subrou tz grains o les.	orange unded, cement	, brow friab ed by	n, fine le, arkosic, silt-sized				
	55-70	As	s above -	gray matrix.								
	70-85	Sa	andstone (1/7 r friab) cemen matrix	and Siltstone mm average si le, arkosic, ted by yellow x, minor whit	- tanish-o ze) subangu multi-colo w-brown or n e siliceous	orange ular t red qu red-br s <b>c</b> lay	, fine o subr artz g own fe	grained ounded, rains ldspathic				
	85-100	Sa	endstone to sul (most: feldsp	and Siltstone brounded fria ly milky to c pathic siltst	- gray, fi ble, silty, lear), ceme one.	ine gr , mult ented 1	ained, i-colo by gra	subangular red, quartz y, micaceous,				
	100-115	Sa	andstone a subang multi- brown very a some a	and Siltstone gular to subr -colored quar silt, some i fine grained, secondary iro	- tanish-k ounded, fri tz grains o ron oxide. siliceous, n oxide.	orown, iable, cemento Yello , mica	fine- arkos ed by owish ceous	grained, ic sandstone, yellow to brown, siltstone with				
	115-130	As	above -	with increas	e in milky	vein	quartz					
	130-145	As	above									
	145-160	Sa	andstone ; graine silty soft,	and Siltstone ed, subangula sandstone. siltstone.	- light gr r to subrou Brown, very	rayish unded, / fine	to br friab grain	own, fine le, arkosic, ed, medium				
	160-175	Sa	andstone a fine g brown micace	and Siltstone grained, angu silt and cla eous siltston	- tanish-k lar quartz y particles e.	orown fragme 5. Bro	sandst ents c own, s	one, milky, emented by lightly				
	175-190	Sa	andstone a fine o colore	and Siltstone grained, angu ed clay & sil	- tanish-k lar quartz t.	cemen	multi ted by	-colored, cream-				
	190-205	As	above									

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220-235

235-250

250-265

265-280

Siltstone and sandstone - grayish-brown, with milky, gray, and clear, fine grained, subangular quartz cemented by brown, orange and white silt and clay. White and gray matrices are extremely fine grained and siliceous.

Sandstone and Siltstone - grayish-tan, gray, fine grained, subangular quartz grains cemented by light gray silt and clay. Gray to milky, fine grained, sub-angular guartz cemented by brown silt and clay.

- Siltstone and Sandstone tan to brown, with fine grained, milky to gray, subangular quartz cemented by brown silt and clay. Some gray, orange, and brown very fine grained, silty, siliceous sandstone. In this interval light gray to light tan, micaceous, silty, sandstone exhibits shear surfaces and minor quartz crystal development.
- Sandstone and Siltstone gray to brown. Milky to gray, fine grained, subangular, quartz cemented by brown or gray silt and clay. Some reddish-brown extremely fine grained siltstone.
- Siltstone and Sandstone milky to gray, fine grained, subangular, quartz cemented by gray to brown silt and clay. Gray, very fine grained siltstone.
- 280-305 As above

305-320

320-335

Siltstone and Sandstone - light brown, fine grained, micaceous, silty, minor white clay. Gray to milky, medium to fine grained, subangular, quartz cemented by dark gray silt & clay.

As above, plus minor amount of yellow clay.

335-350 As above, plus minor amount of vein quartz.

350-365 Sandstone and Siltstone - gray to milky, medium to fine grained, subangular quartz, cemented by orange and brown silt. In this interval vein quartz and quartz crystals indicate a shear zone with open spaces.

365-380 Sandstone and Siltstone - milky to gray, fine grained subangular quartz cemented by medium to dark gray silt & clay. Minor milky vein quartz and considerable iron oxide.

380-395 Sandstone and Siltstone - milky to gray, fine grained, subangular quartz cemented by medium to dark gray silt and clay. Yellow to brown siltstone with considerable vein quartz and crystals.

395-400

As above

## GEOLOGIC SUMMARY

## ROCK UNIT

## AGE

Juniata formation

## Ordovician

Shear zones and partings occur in the 235-250, 350-400 foot depth intervals; the most prominant open zone in the gray and brown, silty, fine grained sandstone is from 350-365 feet.

Virginia Division of Mineral Resources F. Fitzgerald - Geologist June 12,1964