

CISF

JUN 4 1980

Type Test ☒ Initial O. C. D. ☐ Annual ☐ Special						Test Date 5-21-80	
Company Tenneco				Connection to air			
Pool Und. # Turkey Track Morrow				Formation Atoka			
Completion Date 4-30-80		Total Depth 11,763		Plug Back TD 11,721'		Elevation 3402 G L	
Csg. Size 5 1/2		Set At 11,763		Perforations: From 10,926 To 10,932		Well No. 1	
Tbg. Size 2 7/8		Set At 10,870		Perforations: From Open To End		Unit Sec. Twp. Rge. 1 19S 29E	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single				Packer Set At 10,870		County Eddy	
Producing Thru Tbg		Reservoir Temp. °F 183 @ 10,870		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10,870		H 10,870		Gg .632		% CO ₂ % N ₂ % H ₂ S Prover	
						Meter Run 4	
						Type FIG	
FLOW DATA						TUBING DATA	
CASING DATA						Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
SI							3753
1.	4	X	2.500	500	7	85	3608
2.	4	X	2.500	510	20	84	3356
3.	4	X	2.500	500	42	65	3019
4.	4	X	2.500	670	50	55	2409
5.							
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mhd
1.	32.64	59.94	513.2	.9768	1.258	1.043	2507
2.	32.64	102.29	523.2	.9777	1.258	1.044	4287
3.	32.64	146.81	513.2	.9952	1.258	1.048	6287
4.	32.64	184.82	683.2	1.005	1.258	1.070	8161
5.							
Gas Liquid Hydrocarbon Ratio <u>166.997</u> Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons <u>50.26</u> @ <u>60</u> Deg. Specific Gravity Separator Gas <u>.632</u> <u>XXXXXXXXXX</u> Specific Gravity Flowing Fluid <u>XXXXXX</u> Critical Pressure <u>670</u> P.S.I.A. <u>XXXXXX</u> P.S.I.A. Critical Temperature <u>368</u> R <u>XXXXXX</u> R							
$P_c = 3885.4$ $P_w^2 = 15,096.3$ (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.326$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.075$ $AOR = 0$ $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 25.095$							
NO.	P_c^2	P_w^2	P_w^2	$P_c^2 - P_w^2$			
1	*3810.0	14516.1	580.2				
2	*3689.1	13609.5	1486.8				
3	*3560.7	12678.6	2417.7				
4	*3406.8	11606.3	3490.0				
5							
Absolute Open Flow <u>25,095</u> Mhd @ 15.025				Angle of Slope <u>52.5</u>		Slope, n <u>.767</u>	
Remarks: * Calculated from known BHP. Well made 5.3 bbl. of condensate during test.							
Approved By Commission:		Conducted By: B. R. Duke		Calculated By: RER		Checked By: Ol Wilson	