

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1/31/85								
Company Tenneco Oil Company					Connection								
Pool Basin					Formation Dakota								
Completion Date			Total Depth 8000		Plug Back TD 7953		Elevation		Farm or Lease Name Barrett				
Csg. Size 4 1/2		WI.		Set At 7997		3929		Perforations: From 7735 To 7901		Well No. 1E			
Tbg. Size 2 3/8		WI.		Set At 7802				Perforations: From To		Unit Sec. Twp. Rge. C 20 31 9			
Type Well - Single - Brdenhead - G.G. or G.O. Multiple								Packer Set At		County San Juan			
Producing Thru			Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico				
L		H		Gg .700		% CO ₂		% N ₂		% H ₂ S			
								Prover		Meter Run Taps			
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.	Temp. °F	Press. p.s.i.g.	Temp. °F			
SI							965		1310				
1.	2 x 6 x .75						66		372	46	3 hours		
2.													
3.													
4.													
5.													
RATE OF FLOW CALCULATIONS													
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd						
1	11		78	1.014	1.195	1.0076	1047						
2.													
3.													
4.													
5.													
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.								
1.	.11	506	1.28	.985	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.								
2.					Specific Gravity Separator Gas _____ X X X X X X X X								
3.					Specific Gravity Flowing Fluid _____ X X X X X								
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.								
5.					Critical Temperature _____ R _____ R								
P _c 1322 P _c ² 1747684													
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0921$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0683$								
1		384	147456	1600228									
2													
3													
4													
5													
Absolute Open Flow 1118					Mcf @ 15.025					Angle of Slope @		Slope, n .75	
Remarks:													
Approved By Division			Conducted By:			Calculated By:			Checked By:				