

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

RECEIVED

FEB 27 1985

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1/5/85			
Company Tenneco Oil Company				Connection			
Pool Basin				Formation Dakota			
Completion Date		Total Depth 7870		Plug Back TD 7822		Elevation	
Farm or Lease Name Barnes				Well No. 1 E			
Coq. Size 7 4 1/2	Wt. d	Set At 7867	3780	Perforations: From 7675 To 7793		Unit Sec. Twp. Rye. F 26 32 11	
Trg. Size 2 3/8	Wt. d	Set At 7786		Perforations: From To			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple				Packer Set At		County San Juan	
Producing Thru		Reservoir Temp. °F p		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	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
1.	2 x 6 x .75						
2.							
3.							
4.							
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 _{pv}	Rate of Flow Q, Mcfd
1.	11		110	1.018	1.195	1.0148	1493
2.							
3.							
4.							
5.							
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1.	.16	502	1.27	.971	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 2185 P _c ² 4774225					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0772$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0574$		
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1578$		
1.		585	342225	4432000			
2.							
3.							
4.							
5.							
Absolute Open Flow 1578				Mcf/d @ 15.025		Angle of Slope @ _____	
Slope, n .75							
Remarks:							
Approved By Division		Conducted By:		Calculated By:		Checked By:	