

NE MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

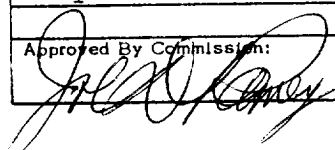
Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 5-14-18-73						
Company El Paso Natural Gas Company					Connection El Paso Natural Gas Company						
Pool Rhodes					Unit						
Completion Date			Total Depth		Plug Back TD		Elevation		Farm or Lease Name Farnsworth C		
Csg. Size 5 1/2		Wt. d		Set At 2479		Perforations: From To				Well No. 1	
Tbg. Size 2 1/2		Wt. d		Set At 2877		Perforations: From To				Unit Sec. Twp. Rge. N 4 26 37	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At			County Lea		
Producing Thru Tbg.		Reservoir Temp. °F 74		Mean Annual Temp. °F 74		Baro. Press. - P _a 13.2			State New Mexico		
L		H		G _g .655		% CO ₂		% N ₂		% H ₂ S	
								Prover		Meter Run 4"	
										Taps Flg.	

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							394	74			72 hr
1.	3.826 x 2.000			34	342	48	358				24
2.	3.826 x 2.000			31	9.0	50	336				24
3.	3.826 x 2.000			34	13.7	54	317				24
4.	3.826 x 2.000			33	21.6	52	295				24
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	21.32	12.71	47.2	1.012	1.236	Nil	339
2	21.32	19.94	44.2	1.010	1.236	Nil	531
3	21.32	25.42	47.2	1.006	1.236	Nil	674
4	21.32	31.60	46.2	1.008	1.236	Nil	839
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas .655 X X X X X X X X
3					Specific Gravity Flowing Fluid X X X X X
4		Neg.			Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 375 R _____ R

P _c 407.2 P _c ² 165.8					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.342$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.227$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.868$			
1	137.8			28.0				
2	121.9			43.9				
3	109.0			56.8				
4	95.0			70.8				
5								

Absolute Open Flow 1.868 Mcfd @ 15.025		Angle of Slope θ 46.75		Slope, n .941	
Remarks: Due to lack of completion data, flowing wellhead pressures were squared & plotted versus volumes to arrive at A.O.F.					
Approved By Commission: 		Conducted By: Randy Kiker		Calculated By: J. C. Roberts	
Checked By:					