

NEW 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				Formation Yates		Unit	
Completion Date		Total Depth		Plug Back TD 3200		Elevation	
Csg. Size 6 5/8		Wt. 3020		Perforations: From To		Well No. 1	
Tbg. Size		Wt.		Perforations: From 3120 To 3160		Unit Sec. Twp. Rge. K 9 26 37	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At	
Producing Thru TBG.		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 13.2	
L		H		Gg		State New Mexico	
3020		3020		652		County Lea	
				% 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							398	74			72 hr
1.	3.897 x 2.250		34	2.6	47	351					24
2.	3.897 x 2.250		32	9.0	48	313					24
3.	3.897 x 2.250		34	13.0	54	286					24
4.	3.897 x 2.250		34	19.8	56	244					24
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	28.78	11.08	47.2	1.013	1.238	Nil	400
2	28.78	20.17	45.2	1.012	1.238	Nil	727
3	28.78	24.77	47.2	1.006	1.238	Nil	888
4	28.78	30.57	47.2	1.004	1.238	Nil	1,091
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ None _____ Deg.	
2.					Specific Gravity Separator Gas .652 X X X X X X X X	
3.		NEG.			Specific Gravity Flowing Fluid X X X X X	
4.					Critical Pressure 670 P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature 375 R _____ R	

P _c 411.2 P _c ² 169.1				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1	132.6			36.5
2	106.4			62.7
3	89.5			79.6
4	66.2			102.9
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.643$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.643$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.506$$

Absolute Open Flow 1,643 Mcfd @ 15.025	Angle of Slope 50.5	Slope, n .824
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Remarks: Due to lack of completion data, flowing wellhead pressures were squared and plotted versus volumes to arrive at A.O.F.

Approved By Commission:	Conducted By: Randy Kiker	Calculated By: J. C. Roberts	Checked By:
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