

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				El Paso Natural Gas Company	
Pool Rhodes				Unit Yates	
Completion Date		Total Depth 3216		Elevation 3080	
Casing Size 7"		Set At 3019		Well No. 2	
Tub. Size 2 3/8"		Set At 3022		Unit Sec. Twp. Rge. M 15 26 37	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At	
Producing Thru Thg.		Reservoir Temp. °F 74		Baro. Press. - P _a 13.2	
L		H		State New Mexico	
3022		3022		663	
Gg		% CO ₂		% H ₂ S	
Prover		Meter Run 4		Taps FIG	

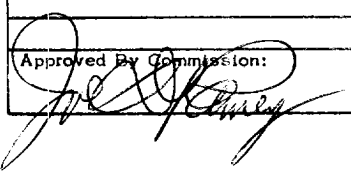
FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							299	74			72 hr
1.	3.826 x 1.500			35	2.9	59	240				24
2.	3.826 x 1.500			33	6.8	54	206				24
3.	3.826 x 1.500			34	13.0	60	169				24
4.	3.826 x 1.500			35	17.2	62	137				24
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	11.13	11.82	48.2	1.001	1.229	Nil	162
2	11.13	17.72	46.2	1.006	1.229	Nil	244
3	11.13	24.77	47.2	1.000	1.229	Nil	339
4	11.13	28.79	48.2	.9981	1.229	Nil	393
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas-Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.G. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas .663
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure 670 P.S.I.A.
5.					Critical Temperature 378 R

P _c 312.2	P _c ² 975					
NO.	P _i ²	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.336$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.336$
1			64.4	33.1		
2			48.8	48.7		
3			34.6	62.9		
4			24.5	73.0		
5						

Absolute Open Flow	525	scfd @ 15.025	Angle of Slope °	45°	Slope, n	1.000
Remarks:						

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