

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special						Test Date 4/13/74		MAY 17 1974	
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company				O. C. C. ARTESIA, OFFICE	
Pool Rocky Arroyo				Formation Morrow				Unit F	
Completion Date 8-28-73		Total Depth 7256		Plug Back TD		Elevation		Farm or Lease Name Rocky Arroyo C	
Csq. Size 5 1/2	Wt. 15.5	d	Set At 3256	Perforations: From 7292 To 7347		Well No. 1			
Tbg. Size 2 3/8	Wt. 14.7	d	Set At 8981	Perforations: From 9038 To 9052		Unit F	Sec. 8	Twp. 22	Rge. 22
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual						Packer Set At 8959		County Eddy	
Producing Thru 7292		Reservoir Temp. *F @		Mean Annual Temp. *F 13.2		Baro. Press. - P _a 13.2		State New Mexico	
9045	H 9045	Gg .589	% 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.	
SI							915			
1.	4	x	1.000	478	1.0	83	632	83		
2.	4	x	1.000	478	1.7	83	528	84		
3.	4	x	1.000	479	2.3	84	498	85		
4.	4	x	1.000	479	2.3	84	489	85		
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	4.753	22.16	491.2	.9786	1.303	1.034	139
2	4.753	28.90	491.2	.9786	1.303	1.034	181
3	4.753	33.65	492.2	.9777	1.303	1.034	211
4	4.753	33.65	492.2	.9777	1.303	1.034	211
5.							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.74	543	1.55	.935	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.74	543	1.55	.935	Specific Gravity Separator Gas _____ XXXXXXXXXX
3	.73	544	1.55	.935	Specific Gravity Flowing Fluid _____ XXXXX
4	.73	544	1.55	.935	Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 350 _____ R

NO.	P _r ²	P _w ²	R _w ²	P _r ² - R _w ²	(1) $\frac{P_c^2}{P_r^2 - R_w^2} = 1.417$	(2) $\left[\frac{P_c^2}{P_r^2 - R_w^2} \right]^n = 1.417$
1		645.7	416.9	444.7		
2		542.1	293.9	567.7		
3		512.5	262.7	598.9		
4		503.6	253.6	608.0		
5						

Absolute Open Flow 299 Mcfd @ 15.025			Angle of Slope θ 45	Slope, n 1.000
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Remarks: Slope of curve was flat. A slope of 1.000 was drawn through the high rate.
No fluid was made during test.

Approved By Commission:	Conducted By: Reggie Reston	Calculated By: Reggie Reston	Checked By:
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