

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 10-15-73	
Company El Paso Natural Gas Company				Connection None		
Pool Jalmat				Formation Yates		Unit
Completion Date 10-15-73		Total Depth 3230		Plug Back TD 3227		Elevation 2948.6 Gr.
Csg. Size 4 1/2		Wt. 10.5		Set At 3227		Perforations: From 2826 To 3102
Tbg. Size 2 3/8		Wt. 		Set At 2730		Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		County Lea
Producing Thru Tbg.		Reservoir Temp. °F 		Mean Annual Temp. °F 		Baro. Press. - P _a 13.2
L		H		Gg .650(Assumed)		% CO ₂
				% N ₂ 		% H ₂ S
				Prover 2"		Meter Run
				Taps 		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover 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				494			494		494		72 hr.
1.	2 x 3/16			475		75	475	75	476	75	1 hr.
2.	2 x 7/32			466		74	466	74	469	74	1 hr.
3.	2 x 1/4			455		74	455	74	460	74	1 hr.
4.	2 x 5/16			400		74	400	74	444	74	1 hr.
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	.6082		488.2	.9859	1.240	1.047	380
2.	.8393		479.2	.9868	1.240	1.047	515
3.	1.087		468.2	.9868	1.240	1.045	651
4.	1.672		413.2	.9868	1.240	1.040	879
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.73	535	1.43	.913	Dry	
2.	.72	534	1.42	.913	None	
3.	.70	534	1.42	.915	A.P.I. Gravity of Liquid Hydrocarbons	
4.	.62	534	1.42	.924	Specific Gravity Separator Gas	
5.					Specific Gravity Flowing Fluid	
					Critical Pressure	
					Critical Temperature	

NO.	P _f	P _w	R _v ²	P _c ² - R _v ²
1		489.2	239.3	18.0
2		482.2	232.5	24.8
3		473.2	223.9	33.4
4		457.2	209.0	48.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{5.327}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{3.323}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{3.7806}$

Absolute Open Flow	3.323	Mcf/d @ 15.025	Angle of Slope θ	51.5	Slope, n	.795
Remarks:						

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