

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 7-29-81	
Company El Paso Natural Gas Company		Connection El Paso Natural Gas Company	
Pool Blanco		Formation Mesa Verde	
Completion Date 7-15-81		Unit	
Csg. Size 9.625	Wt. 40	Total Depth 7521	Plug Back TD 7511
Perforations: From *4631 To 5549	Elevation	Farm or Lease Name San Juan 29-7 Unit	
Perforations: From To	Well No. #109M	Unit Sec. Twp. Rge. J 30 29 7	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual		County Rio Arriba	
Producing Thru Csg.	Reservoir Temp. *F a	Mean Annual Temp. *F	Baro. Press. - P _a 5666
L H Gg	% CO ₂	% N ₂	% H ₂ S
3056	.660	12	Prover
State New Mexico		Meter Run	
Taps			

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
1.			.750	504			420		892		14 Days 3 HR.
2.						74	378		504		
3.											
4.											
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	12.365		516	.9868	.9535	1.054	6328
2							
3							
4							
5							

NO.	P _f	Temp. *R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2										
3										
4										
5										

P _c 904	P _c ² 817216	
NO.	P _f ²	P _w
1		132
2		399424
3		417792
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{817216}{417792}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10466$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6540$

Absolute Open Flow 10,466 Mcfd @ 15.025

Remarks: * 7.000" Liner - 3280' -5784
* 4.500" Liner - 5694' -7521

Angle of Slope θ .75

Approved By Commission: _____ Conducted By: John Easley

Calculated By: Ed Mabe

Checked By: _____

