

**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 1-28-86	
Company El Paso Natural Gas Co.				Connection	
Pool Basin				Formation Dakota	
Completion Date 1-28-86		Total Depth 7673		Plug Back TD 7659	
				Elevation 6478 GR	
Farm or Lease Name S.J. 27-5 Unit					
Csq. Size 9.625	Wt. 48	d 8.681	Set At 3569	Perforations: From 7440* To 7631	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 7691	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 5921	
Producing Thru Tbg.		Reservoir Temp. °F @		Baro. Press. - P _a 12	
				State New Mexico	
L	H	Gg 1700	% CO ₂	% N ₂	% H ₂ S
				Prover	
				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	
SI							1887				7 Days
1.			.750	152		60	152				3 Hrs.
2.											
3.											
4.											
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	12.365		164	1.000	.9258	1.023	1921
2.							
3.							
4.							
5.							

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

P _c 1899 P _c ² 3606201				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		363	131769	3477432
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3606201}{3477432}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1975$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0283$

Absolute Open Flow	1975	Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: *7" Liner set 34 02' - 6015'.
*4½" Liner set 5918-76 70
Gas Vented during test = 326 MCF.

Approved By Commission:	Conducted By: Harold Cloer	Calculated By: Scott H. Lindsay	Checked By: kld
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