

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 9-23-85	
Company El Paso Natural Gas Co.						Connection					
Pool Basin						Formation Dakota					
Completion Date 9-23-85			Total Depth 7612			Plug Back TD 7602			Elevation 6339 GR		
Form or Lease Name S.J. 27-5 Unit										Well No. #163 E	
Gas. Size 4.500	Wt. 10.5	d 4.052	Set At 7612	Perforations: From 7343 To 7569			Well No.				
Leg. Size 1.900	Wt. 2.9	d 1.610	Set At 7543	Perforations: From To			Unit D	Sec. 18	Twp. 27	Rge. 05	
Type Well - Single - Fractured - G.G. or G.O. Multiple Single						Packer Set At None			County Rio Arriba		
Producing Thru Tbg.		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _a 12			State New Mexico		
L	H	G _g .690	% 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							2367		2367		7 Days
1.			.750	219		58	219		1410		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcf/d
1	12.365		231	1.0091	.9325	1.025	2735
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	XXXXXXX
3					Specific Gravity Flowing Fluid	XXXXX
4					Critical Pressure	SEP 25 1985 P.S.I.A.
5					Critical Temperature	R

P _r 2379	P _w 5659641	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{5659641}{3637557}$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.3931$
1	1422	2022084	3637557
2			
3			
4			
5			

Absolute Open Flow 3810 Mcf/d @ 15.025		Angle of Slope θ	Slope, n .75
Remarks: Gas vented during test = 433 MCF.			
Approved by Commission:			
Conducted By: W.D. Paul		Calculated By: Ed Mabe	Checked By: kld