

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special										Test Date 4-28-81	
Company El Paso Natural Gas Company					Connection El Paso Natural Gas Company						
Pool Blanco - Ext.					Formation Pictured Cliffs					Unit San Juan 28-7	
Completion Date 4-12-81			Total Depth 5945		Plug Back TD 5927		Elevation 6575 Gr.		Farm or Lease Name San Juan 28-7 Unit		
Csg. Size *7.000	Wt. 20#	d 6.456	Set At 3629	Perforations: From To				Well No. #61A (PC)			
Tub. Size 1.660	Wt. 2.3	d	Set At 3358	Perforations: From To		3319 3365		Unit Sec. Twp. Rge. P 10 28 7			
Type Well - Single - Brdhead - G.G. or G.O. Multiple G. G. Dual							Packer Set At 3483		County Rio Arriba		
Producing Thru Csg.		Reservoir Temp. *F p		Mean Annual Temp. *F		Baro. Press. - P _a 12		State New Mexico			
L	H	Gg 0.620	% 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							1037		1037	63	15 Days
1.	Choke		0.750	37			37				3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		49	.9971	.9837	1.007	598
2.							
3.							
4.							
5.							

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

NO.	P _t	P _w	P _u	P _t - P _w	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1	1049	1100401			1.0022	1.0019
2						
3						
4						
5						

NO.	P _t	P _w	P _u	P _t - P _w	AOI = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1		49	2401	1098000	599
2					
3					
4					
5					

Absolute Open Flow		599	Mcf @ 15.025	Angle of Slope	Slope, n	0.85
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Remarks: *4 1/2" Line 3475' to 5945' Gas Vented During Test = 121 MCF	
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Approved by Division	Conducted By Norman Waggner	Calculated By R. F. Headrick	Checked By
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