

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-21-81	
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company	
Pool Blanco				Formation Pictured Cliffs	
Completion Date 4-3-81		Total Depth 5438		Plug Back TD 5421	
				Elevation 6045 GL	
Csg. Size 7.000		ID 20.0		Set At 6.456	
				3128	
Perforations From 2774		To 2866		Well No. #3A (PC)	
Perforations From		To		Unit C	
Perforations From		To		Sec. 28	
				Twp. 31	
				Rge. 10	
Type Well - Single - Drawhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 2940	
Producing Thru Csg.				County San Juan	
Reservoir Temp. °F ρ		Mean Annual Temp. °F		State New Mexico	
Baro. Press. - P _a 12					
L		H		G _v	
				0.625	
% 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							830		830		18 Days
1.	Choke	0.750		87		63	90				3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _{in}	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compress. Factor, Fpy	Rate of Flow Q, Mcfd
1	12.365		99	0.9971	0.9798	1.007	1204
2.							
3.							
4.							
5.							

NO.	P _r	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
1										
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	842	708964	102	10404	698560	1.0149
2						
3						
4						
5						

Absolute Open Flow		1219		Mcf @ 15.025		Angle of Slope °		Slope, n		.85	
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Remarks: Vented 209 MCF Gas During The Test/

Approved by Division	Conducted by:	Calculated by:	Checked by:
	Gabe Archibeque	H. E. McAnally	