

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 Aztec				Formation Pictured Cliffs	
Completion Date 4-7-81		Total Length 5600		Plug Back TD 5583	
				Elevation 6144 GL	
Csg. Size 7.000		ID 6.456		Set At 3260	
Perforations From 2896		To 2992		Well No. 9A (PC)	
Tub. Size 1.660		ID 1.380		Set At 2977	
Perforations From		To		Unit C Sec. 27 Twp. 31 Rge. 10	
Type Well - Single - Dracohed - G.C. or G.O. Multiple G.G. Dual				Packer Set At 3075	
Producing Thru Csg.		Reservoir Temp. °F p		Mean Annual Temp. °F 12	
L		H		Baro. Press. - P _a 12	
G _g 0.625		% CO ₂		% H 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	
1	Choke		0.750	80		65	381	83	381		14 Days
2											3 Hours
3											
4											
5											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1	12.365		92	0.9952	0.9798	1.007	1117
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	Mcft. Std. Day
1	393	154449									
2											
3											
4											
5											

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0621$				$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0525$			
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1176$							

Absolute Open Flow 1176		Mcft @ 15.025		Angle of Slope		Slope, n .85	
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Remarks: Vented 148 MCF Gas During the Test.

Approved by Division	Conducted By Gage Archibeque	Calculated By H. E. McAnally	Checked By
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