

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-19-82					
Company Curtis J. Little		Connection El Paso Natural Gas Co.					
Pool Ballard		Formation Pictured Cliff					
Completion Date 4-9-82		Total Depth 2338	Plug Back TD 2276				
Elevation 6223 G.L.		Farm or Lease Name Foster					
Gas Size 2.875	Wt. 6.5	Set At 2.441	Perforations From 2209 To 2258				
Trp. Size	Slit Hole	Set At	Perforations From To				
Type Well - Single - Blindhead - G.C. or G.O. Multiple Single		Packer Set At None	County Rio Arriba				
Reservoir Temp. °F 9		Mean Annual Temp. °F 12 psia	State New Mexico				
Baro. Press. - P _a		Prover	Meter Run				
C _g .650		% CO ₂	% N ₂				
% H ₂ S		TUBING DATA					
Casing Data		Duration of Flow					
NO.	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1	10 days				766		3 hrs.
2	2 inch	500	41		41	60°	
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, Mcfd
1	5.4315		53	1.000	.9608	1.007	278
2							
3							
4							
5							
NO.	R	Temp. °R	T _f	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 _____ XXXXX		
4					Critical Pressure _____ P.S.I.A.		
5					Critical Temperature _____ R		
NO.	P ₁ ²	P _w ²	P ₂ ²	P ₂ ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0051$		
1	55	3045	602239		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.00429$		
2					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 279$		
3							
4							
5							
Absolute Open Flow 279				Mcf @ 15.025		Angle of Slope θ _____	
Slope, n .85							
Remarks: Gas completely dry							
Approved By Division		Conducted By: Joe Elledge		Calculated By: Joe Elledge		Checked By: Curtis J. Little	