

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 01/26/87	
Company Robert L. Bayless				Connection None	
Pool Wildcat				Formation Pictured Cliffs	
Completion Date 01/19/87		Total Depth 4115		Plug Back TD 4012	
Csg. Size 4 1/2		Wt. 11.6		Elevation 7191' / GL	
Trg. Size 1 1/2		Wt. 2.9		Farm or Lease Name Jicarilla 460	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Set At 4104		Well No. #2	
Producing Thru Tubing		Mean Annual Temp. °F 12.0 (est)		Unit Sec. Twp. Rye M 21 30N 3W	
L H		Cg .65 (est)		County Rio Arriba	
%		%		State New Mexico	
%		%		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	
SI	7 days						1012	1015	
1.	2 inch	.750					22	60°F	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 F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1	12.3650		34	1.000	.9608	1.010	408
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z	Gas Liquid Hydrocarbon Ratio	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1					A.P.I. Gravity of Liquid Hydrocarbons		
2.					Specific Gravity Separator Gas		
3.					Specific Gravity Flowing Fluid		
4.					Critical Pressure	P.S.I.A.	P.S.I.A.
5.					Critical Temperature	R	R

P_c 1027	P_c^2 1,054,729						
NO.	P_r^2	P_w	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0134$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0114$	
1		118	13,924	1040805			
2							
3							
4							
5							

Absolute Open Flow 413 Mcfd @ 15.025		Angle of Slope °		Slope, n .85	
Remarks:					
Approved By Division		Conducted By: David Ball		Calculated By:	
				Checked By:	