

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special						Test Date 11/15/83									
Company Amoco Production Compan-				Connection Gas Company of New Mexico											
Pool Blanco				Formation Mesaverde		Unit									
Completion Date 10/15/83		Total Depth 6292		Plug Back TD 6256		Elevation 7158GL									
Csg. Size 4.500		Wt. 10.5		Set At 6274		Perforations: From 5638 To 6190									
Trq. Size 2.375		Wt. 4.7		Set At 6197		Perforations: From Open To Ended									
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Single						Packer Set At None									
Producing Thru Tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a									
L		H		G _a		% 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	11 Days						528		1032						
1.	2.375	.750					133		554		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd								
1	12.365		145	1.000	.9258	1.013	1681								
2.															
3.															
4.															
5.															
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.										
1.					A.P.I. Gravity _____ Deg.										
2.					Specific Gravity Separating Gas _____ X X X X X X X X										
3.					Specific Gravity Flowing Fluid _____ X X X X X										
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.										
5.					Critical Temperature _____ R _____ R										
P _c 1044 P _c ² 1089936					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4163$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2983$										
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2182$										
1		566	320356	769580											
2															
3															
4															
5															
Absolute Open Flow 2182 Mcfd @ 15.025					Angle of Slope θ			Slope, n .75							
Remarks:															
Approved By Division				Conducted By: J.J. Barnett				Calculated By: J.J. Barnett				Checked By: QS			