

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-29-85									
Company Amoco Production Company		Connection									
Pool Bravo Dome <u>Carbon Dioxide Gas Unit, 640 Acre Area</u>		Formation Tubb									
Completion Date 9/25/84		Total Depth 2814	Plug Back TD 2711								
		Elevation 4930	GL								
Csg. Size 7	Wt. 20	Set At 2814	Perforations: From 2327 To 2532								
Thq. Size 3-1/2	Wt. 9.3	Set At 2203	Perforations: From To								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2172	Unit BDCDGU								
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2430	Mean Annual Temp. °F 50								
		Baro. Press. - P _a 12.2	Well No. 1934 291G								
L 2430	H 2430	G _g 1.529	% CO ₂ 100								
		% N ₂ 0	% H ₂ S 0								
		Prover	Meter Run 4.0								
			Taps Flange								
FLOW DATA											
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	Duration of Flow
1.	4.026 x 1.375			209	31	54	221.2	50			24 hr
2.	4.026 x 1.375			226	20	54	238.2	50			24 hr
3.	4.026 x 1.375			274	5	53	286.2	50			24 hr
4.	4.026 x 1.375			303	1	50	315.2	50			24 hr
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, Mcid				
1							592				
2							528				
3							312				
4							163				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____						
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Mcf/bbl.						
2					Specific Gravity Separator Gas _____ Deg.						
3					Specific Gravity Flowing Fluid _____ X X X X X						
4					Critical Pressure _____ P.S.I.A.						
5					Critical Temperature _____ R						
P _c 326.2 P _c ² 106.4											
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.851$						
1		221.2		57.477	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.456$						
2		238.2		49.667							
3		286.2		24.496							
4		315.2		7.055							
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 862$						
Absolute Open Flow _____ 862					Mcid @ 15.025						
Remarks:					Angle of Slope θ _____ Slope, n .61						
Approved by Commission:		Conducted By:		Calculated By:		Checked By:					
				D. D. Kimble							