

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

Form C-122
Revised 6-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-14-85							
Company Amoco Production Company				Connection							
Pool Carbon Dioxide Gas Brava Dome Unit 640 Acre Area				Formation Tubb							
Completion Date 3/21/81		Total Depth 2624		Plug Back TD 2574							
				Elevation 4920							
Csq. Size 5.5	Wt. 14	d	Set At 2613	Perforations: From 2340 To 2572							
Tbg. Size 2-7/8	Wt. 6.5	d	Set At 2199	Perforations: From To							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2169							
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2456		Mean Annual Temp. °F 50							
				Baro. Press. - P _a 12.2							
L 2456	H 2456	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. hw	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							306				24 hr
1.	4.026 x 1.625			257	10	58	257				24 hr
2.	4.026 x 1.625			236	21	60	237				24 hr
3.	4.026 x 1.625			214	37	60	216				24 hr
4.	4.026 x 1.625			196	53	59	198				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, Mcfd				
1							584				
2							804				
3							1001				
4							1146				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.						
1					A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.						
2					Specific Gravity Separator Gas 1.529 X X X X X X X X						
3					Specific Gravity Flowing Fluid X X X X X						
4					Critical Pressure 1072 P.S.I.A.						
5					Critical Temperature 547 R						
P _c 318.2 P _c ² 101,251											
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.774$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.747$						
1		269.2		28.783	ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2002$						
2		249.2		39.151							
3		228.2		49.176							
4		210.2		57.067							
5											
Absolute Open Flow 2002 Mcfd @ 15.025					Angle of Slope 0 Slope, n .973						
Remarks:											
Approved By Commission:		Conducted By:		Calculated By: D. R. White		Checked By:					