

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: 9-10-85									
Company: Amoco Production Company		Connection:									
Pool: Bravo Dome Carbon Dioxide Gas Unit - 640 acre area		Formation: Tubb									
Completion Date: 8/30/81	Total Depth: 2831	Plug Back TD: 2782	Elevation: 4785								
Csg. Size: 5-1/2	Wt.: 14	Set At: 2815	Perforations: From 2462 To 2549								
Tbg. Size: 2-7/8	Wt.: 6.5	Set At: 2402	Perforations: From To								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single		Packer Set At: 2372	Well No.: 1833 111G								
Producing Thru: Tubing	Reservoir Temp. °F: 90 @ 2506	Mean Annual Temp. °F: 50	Baro. Press. - P _a : 12.2								
L: 2506	H: 2506	G _g : 1.529	% CO ₂ : 100 % N ₂ : 0 % H ₂ S: 0								
Prover: 4.0		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	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							347				
1.	4.026 x 2.250			186	55	58	186	50			24 hr.
2.	4.026 x 2.250			208	42	59	208	50			24 hr.
3.	4.026 x 2.250			230	31	60	230	50			24 hr.
4.	4.026 x 2.250			251	22	60	251	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, Mcfd				
1							2273				
2							2120				
3							1906				
4							1696				
5											
NO.	P _t	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						
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 35 9.2 P _c ² 129.025											
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$					
1		198.2		89.741	1.44	1.30					
2		220.2		80.537							
3		242.2		70.364							
4		263.2		59.750							
5											
Absolute Open Flow: 2952 Mcfd @ 15.025					Angle of Slope θ: .72						
Remarks:											
Approved By Commission:		Conducted By:		Calculated By: D. D. KIMBLE		Checked By:					