

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

Form C-122
Revised 4-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-14-85									
Company Amoco Production Company		Connection									
Pool Carbon Dioxide Gas Bravo Dome Unit 640 Acre Area		Formation Tubb									
Completion Date 11/21/83		Total Depth 2567	Plug Back TD 2451								
		Elevation GL 4880	Unit BDCDGU								
Csg. Size 7	Wt. 20	Set At 2567	Perforations: From 2270 To 2428								
Tbg. Size 3.5	Wt. 9.3	Set At 2250	Perforations: From To								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2211	Well No. 2033 121G								
Producing Thru Tubing	Reservoir Temp. °F 90 @ 2349	Mean Annual Temp. °F 50	Baro. Press. - P _a 12.2								
L 2349	H 2349	G _g 1.529	% CO ₂ 100								
		% N ₂ 0	% H ₂ S 0								
		Prover	Meter Run 4.0								
			Flaps 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											
1.	4.026 x 1.625			262	3	59	276	50			24 hr
2.	4.026 x 1.625			234	9	60	249	50			24 hr
3.	4.026 x 1.625			214	18	61	229	50			24 hr
4.	4.026 x 1.625			195	29	60	210	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											
2							364				
3							608				
4							794				
5							963				
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 X						
3					Specific Gravity Flowing Fluid _____ X X X X X _____						
4					Critical Pressure _____ 1072 _____ P.S.I.A. _____ P.S.I.A.						
5					Critical Temperature _____ 547 _____ R _____ R						
P _c	311.2	P _c ²	96.845								
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.505$						
1		288.2		13.786	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.065$						
2		261.2		28.620							
3		241.2		38.668							
4		222.2		47.473							
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1640$						
Absolute Open Flow _____ 1640 _____ Mcfd @ 15.025					Angle of Slope _____ Slope, n _____ .790						
Remarks: _____											
Approved by Commission: _____ Conducted by: _____ Calculated by: _____ Checked by: _____											
D. R. White											