

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 6-14-85									
Company Amoco Production Company		Connection									
Pool Bravo Dome Carbon Dioxide Gas Unit - 640-Acre Area		Formation Tubb									
Completion Date 5-08-81		Total Depth 2530'	Plug Back TD 2424'								
		Elevation 4610' G.L.									
Csg. Size 5 1/2"	Wt. 14#	Set At 2530'	Perforations: From 2057' To 2247'								
Tbg. Size 2-3/3"	Wt. 4.7#	Set At 1902'	Perforations: From To								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 1872'	Well No. 1935 311F								
Producing Thru Tubing	Reservoir Temp. °F 2152'	Mean Annual Temp. °F 50	Baro. Press. - P _a 12.2								
L 2152'	H 2152'	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	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							324				
1.	4.026	x	1.875	216	24	58	228.2	50			24 hr.
2.	"	"	"	239	24	58	251.2	"			24 hr.
3.	"	"	"	263	15	59	275.2	"			24 hr.
4.	"	"	"	289	7	59	301.2	"			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							1239				
2							1136				
3							940				
4							672				
5											
NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcl/bbl.						
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ 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.	P.S.I.A.					
5.					Critical Temperature _____ 547 °R	°R					
P _i 336.2 P _w 113.03											
NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.854$						
1		228.2		60.955	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.457$						
2		251.2		49.929							
3		275.2		37.295							
4		301.2		22.309	AGF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1806$						
5											
Absolute Open Flow _____ 1806 _____ Mcfd @ 15.025					Angle of Slope θ _____		Slope, n _____ .61				
Remarks: _____											
Approved By Commission:		Conducted By:		Calculated By: D. D. Kimble		Checked By:					