

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: 5-15-85	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area		Formation: Tubb	
Completion Date: 12-13-83		Total Depth: 2919'	Plug Back TD: 2750'
		Elevation: 4615' GL	Farm or Lease Name:
Csg. Size: 7"	Wt.: 20#	Set At: 2919'	Perforations: From 2421' To 2480'
Tbg. Size: 3-1/2"	Wt.: 9.3#	Set At: 2403'	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single		Packer Set At: 2372'	County: Union
Producing Thru: Tubing	Reservoir Temp. °F: 93° @ 2451'	Mean Annual Temp. °F: 50	Baro. Press. - P _a : 12.2
State: New Mexico			
L: 2451'	H: 2451'	G _g : 1.529	% CO ₂ : 100
		% N ₂ : 0	% H ₂ S: 0
Prover:		Meter Run: 4.0"	Taps: Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
1.	4.026 x 2.00			215	39	59	227.2	50			24 hrs
2.	4.026 x 2.00			245	24	59	257.2	50			24 hrs
3.	4.026 x 2.00			273	13	60	285.2	50			24 hrs
4.	4.026 x 2.00			298	7	60	310.2	50			24 hrs
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.							1573
2.							1313
3.							1056
4.							784
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					0	0	1.529	X X X X X	1072	547
2.										
3.										
4.										
5.										

P _c : 344.2	P _c ² : 118.474	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.77$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.43$
NO.	P _w	P _w ²	P _c ² - P _w ²
1.	227.2		66.854
2.	257.2		52.322
3.	285.2		37.135
4.	310.2		22.250
5.			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2256$

Absolute Open Flow: 2256 Mcfd @ 15.025	Angle of Slope θ: .63
Remarks:	

Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble	Checked By:
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