

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: 5-10-85	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area				Formation: Tubb	
Completion Date: 12-13-83		Total Depth: 2638'		Elevation: 4928' GL	
Csg. Size: 7"		Set At: 2638'		Perforations: From 2338' To 2450'	
Tng. Size: 3-1/2"		Set At: 2323'		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: 2292'	
Producing Thru: Tubing				Baro. Press. - P _a : 12.2	
Reservoir Temp. *F: 89° @ 2394'		Mean Annual Temp. *F: 50		State: New Mexico	
L: 2394'		H: 2394'		Gg: 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 2.125			211	46	57	223.2	50			24 hrs
2.	4.026 x 2.125			232	28	56	244.2	50			24 hrs
3.	4.026 x 2.125			255	14	56	267.2	50			24 hrs
4.	4.026 x 2.125							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 Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							1935
2							1603
3							1201
4							
5							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					0	
2					0	
3					1.529	X X X X X X X X
4					X X X X X	
5					1072	P.S.I.A. P.S.I.A.
					547	R R

P _c : 298.2	P _c ² : 88,923			
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		223.2		39,105
2		244.2		29,290
3		267.2		17,527
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.27$

AOF = C $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3142$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.62$

Absolute Open Flow: 3142 Mcfd @ 15.025	Angle of Slope θ :	Slope, n: .59
Remarks:		
Approved By Commission: Conducted By: Calculated By: D. D. Kimble Checked By:		