

**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: 8-19-85	
Company: Amoco Production Company		Connection:	
Pool: Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area		Formation: Tubb	
Completion Date: 12-19-83		Unit: BDCDGU	
Total Depth: 2805		Farm or Lease Name:	
Plug Back TD: 2685		Elevation: 4750	
Csg. Size: 7	Wt.: 20	Set At: 2805	Perforations: From 2486 To 2534
Thg. Size: 3.5	Wt.: 9.3	Set At: 2446	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At: 2414	
Producing Thru: Tubing		Baro. Press. - P _a : 12.2	
Reservoir Temp. °F: 90 @ 2510		Mean Annual Temp. °F: 50	
Gg: 1.529		% CO ₂ : 100	
% N ₂ : 0		% H ₂ S: 0	
Prover: 4.0		Meter Run: 4.0	
Taps: Flange		County: Harding	
State: New Mexico		Unit: G	
Sec.: 16		Twp.: 18	
Rge.: 33			

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 1.25			195	35	59	318				
2.	4.026 x 1.25			219	25	60	195	50			24 hr
3.	4.026 x 1.25			222	23	60	219	50			24 hr
4.	4.026 x 1.25			240	17	60	222	50			24 hr
5.							240	50			24 hr

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1.							
2.							531
3.							474
4.							460
5.							416

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

P _c	330.2	P _c ²	109.032
NO.	P _t ²	P _w	P _w ²
1.		207.2	66.100
2.		231.2	55.579
3.		234.2	54.182
4.		252.2	45.427
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.65$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 735$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.38$

Absolute Open Flow	735	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	.65
Remarks:					
Approved By Commission:					
Conducted By:		Calculated By: D. D. Kimble		Checked By:	