

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 Bravo Dome <i>Carbon Dioxide Gas Unit 640 Acre Area</i>				Formation Tubb	
Completion Date 11/10/83		Total Depth 2589		Plug Back TD 2486	
Elevation 4870		Farm or Lease Name			
Csg. Size 7	Wt. 20	d	Set At 2589	Perforations: From 2283 To 2460	
Thq. Size 3.5	Wt. 9.3	d	Set At 2284	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2253	
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2372		Mean Annual Temp. °F 50	
Baro. Press. - P _a 12.2		County Harding			
State New Mexico					
L 2372	H 2372	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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							302				24 hr
1.	4.026 x 1.500			258	4	57	260				24 hr
2.	4.026 x 1.500			232	11	58	235				24 hr
3.	4.026 x 1.500			214	19	60	216				24 hr
4.	4.026 x 1.500			193	31	59	196				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							375
2							569
3							715
4							854
5							

NO.	P _f	Temp. °R	T _f	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 P.S.I.A.
5					Critical Temperature	547 °R

P _c	314.2	P _c ²	98.722
NO.	P _f	P _w	P _w ²
1		272.2	24.629
2		247.2	37.614
3		228.2	46.646
4		208.2	55.374
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.116$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1513$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.116$

Absolute Open Flow	1513	Mcf/d @ 15.025	Angle of Slope	Slope, n
Remarks:				
Approved By Commission:				
Conducted By:		Calculated By:		Checked By:
		D. R. White		