

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 <u>Carbon Dioxide Gas Unit 640 Acre Area</u>		Formation Tubb	
Completion Date 12/12/83		Total Depth 2705	Plug Back TD 2650
Elevation 4995		Farm or Lease Name	
Csg. Size 7	Wt. 20	Set At 2705	Perforations: From 2411 To 2594
Thq. Size 3.5	Wt. 9.3	Set At 2385	Perforations: From To
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 2349	Well No. 2033 141G
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2502	Mean Annual Temp. °F 50
Baro. Press. - P _a 12.2		County Harding	
State New Mexico		Unit Sec. Twp. Hye. G 14 20 33	
L 2502	H 2502	G _g 1.529	% CO ₂ 0
% N ₂ 0		% H ₂ S 100	Prover Meter Run 4.0
Caps 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.	
SI							303			
1.	4.026 x	1.375		260	5	56	275	50		
2.	4.026 x	1.375		231	19	58	247	50		24 hr
3.	4.026 x	1.375		213	35	59	229	50		24 hr
4.	4.026 x	1.375		192	57	57	209	50		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							303
2							532
3							684
4							831
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 _r 315.2	P _c ² 99.351	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.970$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.946$
NO. 1	P _w 287.2	P _w ² 16.867	
2	259.2	32.166	
3	241.2	41.174	
4	221.2	50.422	
5			

ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1618$

Absolute Open Flow	1618	Mcfd @ 15.025	Angle of Slope	.982
Remarks:				
Approved by Commission:				
Conducted By:		Calculated By:		Checked By:
		D. R. White		