

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:		Total Depth: 2750'	Perforations: 2707'
		Elevation: 4838'	
Csq. Size: 4-1/2"	Wt.: 9.5#	Set At: 2750'	Perforations: From 2605' To 2640'
Tbg. Size: 2-3/8"	Wt.: 4.7#	Set At: 2460'	Perforations: From To
Type Well - Single - Bradenhead - G.C. or G.O. Multiple		Packer Set At: 2421'	County: Harding
Producing Thru Tubing	Reservoir Temp. °F: 97° @ 2622'	Mean Annual Temp. °F: 50	Baro. Press. - P _a : 12.2
State: New Mexico			
L: 2622'	H: 2622'	G _g : 1.529	% CO ₂ : 100 % N ₂ : 0 % H ₂ S: 0
Prover: 4.0"		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	
SI							356				
1.	4.026 x 2.00			220	37	54	232.2	50			24 hrs
2.	4.026 x 2.00			239	29	55	251.2	50			24 hrs
3.	4.026 x 2.00			253	25	56	265.2	50			24 hrs
4.	4.026 x 2.00			272	19	57	284.2	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							1524
2							1422
3							1354
4							1247
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.L. 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 : 368.2	P _c ² : 135.571
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NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.66$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.308$
1		232.2		81.654		
2		251.2		72.470		
3		265.2		65.240		
4		284.2		55.934		
5						

Absolute Open Flow: 1994 Mcfd @ 15.025		Angle of Slope θ: .53	
Remarks:			
Approved By Commission:		Conducted By:	
		D. D. Kimble	
Calculated By:		Checked By:	