

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: 6-9-85	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area				Formation: Tubb	
Completion Date: 1-23-84		Total Depth: 2715'		Plug Back TD: 2586'	
				Elevation: 4632 GL	
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2707'	Perforations: From 2110' To 2300'	
Thq. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 2053'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 2021'	
Producing Thru: Tubing		Reservoir Temp. °F: @ 2205'		Baro. Press. - P _a : 12.2	
Mean Annual Temp. °F: 50		County: Union		State: New Mexico	
L: 2205'	H: 2205'	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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							322				
1.	4.026 x 2.75			234	38	57	246.2	50			24 hr.
2.	4.026 x 2.75			249	25	60	261.2	50			24 hr.
3.	4.026 x 2.75			269	15	60	281.2	50			24 hr.
4.	4.026 x 2.75			293	4	60	305.2	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							3276
2							2850
3							2256
4							1298
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					0	
2					0	
3					1.529	
4						
5						

P _c 334.2		P _c ² 111.7		A.P.I. Gravity of Liquid Hydrocarbons		Deg.	
				Specific Gravity Separator Gas		X X X X X X X X	
				Specific Gravity Flowing Fluid		X X X X X	
				Critical Pressure		1072 P.S.I.A.	
				Critical Temperature		547 R	

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.187$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.038$
1		246.2		51.075		
2		261.2		43.464		
3		281.2		32.616		
4		305.2		18.543		
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6677$

Absolute Open Flow 6677 Mcfd @ 15.025		Angle of Slope θ		Slope, n .91	
Remarks:					

Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble	Checked By:
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K ϕ E LOGARITHMIC 2 x 2 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

AOF = 6677

Q = MCF

