

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		Total Depth 2779	Plug Back TD 2733
		Elevation 4912	Unit BDCDGU
Csg. Size 7	Wt. 20	Set At 2779	Perforations: From 2379 To 2456
Tbg. Size 3.5	Wt. 9.3	Set At 2377	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 2337
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2417	Mean Annual Temp. °F 50
		Baro. Press. - P _a 12.2	County Union
L 2417	H 2417	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
1.	4.026 x 1.75			173	29	62	173	50			24 hr
2.	4.026 x 1.75			200	16	62	200	50			24 hr
3.	4.026 x 1.75			220	9	61	220	50			24 hr
4.	4.026 x 1.75			243	4	61	243	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.							927
2.							852
3.							720
4.							608
5.							

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

P _c	341.2	P _c ²	116.417
NO.	P _t ²	P _w	P _w ²
1.	185.2		82.118
2.	212.2		71.389
3.	232.2		62.500
4.	255.2		51.290
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.42$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1274$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.37$

Absolute Open Flow	1274	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .91
Remarks:				
Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble	Checked By:	