

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	
Company Amoco Production Company		Connection	
Pool Bravo Dome Carbon Dioxide Gas Unit-640 Acre Area		Formation	
Completion Date 10-18-85		Total Depth 2734	Plug Back TD 2654
		Elevation 5027	Unit BDCDGU
Csg. Size 7	Wt. 20	Set At 2734	Perforations: From 2415 To 2614
Thq. Size 3-1/2	Wt. 9.3	Set At 2260	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2229	Well No. 2133 351G
Producing Thru Tubing	Reservoir Temp. °F 90 @ 2514	Mean Annual Temp. °F 50	Baro. Press. - P _a 12.25
L 2514	H 2514	G _g 1.529	% CO ₂ 100
		% N ₂ 0	% H ₂ S 0
		Prover	Meter Run 4.0
			Taps Flange

FLOW DATA									
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA
							Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	4.026 x 2.500			180.1	37	46	316		
2.	4.026 x 2.500			151.5	45	47	192.35	46	1.5
3.	4.026 x 2.500			124.4	54.5	48	163.75	47	1.5
4.	4.026 x 2.500			95.6	72	48	136.65	48	1.5
5.							107.85	48	1.5

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.							1850
2.							2010
3.							2280
4.							2377
5.							

NO.	P _t	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		1.529	X X X X X	1072	496
2.										
3.										
4.										
5.										

P _c 328.2	P _c ² 107,715	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.12$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.10$
NO.	P _w	P _w ²	P _c ² - P _w ²
1.	192		70,851
2.	163		81,146
3.	136		89,219
4.	108		96,051
5.			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2615$

Absolute Open Flow	2615	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .82
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Approved By Commission:	Conducted By:	Calculated By: Don Kimble	Checked By:
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