

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 11-6-85		Total Depth 2586	Plug Back TD 2497
		Elevation 4850	Unit BDCDGU
Csg. Size 7	Wt. 20	Set At 2586	Perforations: From 2368 To 2450
Thg. Size 3-1/2	Wt. 9.3	Set At 2230	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Singe		Packer Set At 2199	Well No. 2134 331G
Producing Thru Tubing		Reservoir Temp. °F 90 @ 2409	Mean Annual Temp. °F 50
		Baro. Press. - P _a 12.25	Unit Sec. Twp. Rge. G 33 21 34
L 2409	H 2409	G _g 1.529	County Union
% CO ₂ 100	% N ₂ 0	% H ₂ S 0	State New Mexico
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
1.	4.026 x 2.000		175.5	23	53	316				
2.	4.026 x 2.000		153.0	35.5	55	187.75	53			1.5
3.	4.026 x 2.000		135.7	49	55	165.25	55			1.5
4.	4.026 x 2.000		95.2	93.5	55	147.95	55			1.5
5.						107.45	55			1.5

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.							1341
2.							1421
3.							1505
4.							1615
5.							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	
1.					0	
2.						
3.						
4.						
5.						

A.P.I. Gravity of Liquid Hydrocarbons		Mcf/bbl.	
Specific Gravity Separator Gas		Deg.	
Specific Gravity Flowing Fluid		X X X X X X X X	
Critical Pressure		P.S.I.A.	
Critical Temperature		R	

P _c 328.2	P _c ² 107.751	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.12$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.08$
NO.	P _w	P _w ²	P _c ² - P _w ²
1.	188		72.371
2.	165		80.490
3.	148		85.811
4.	107		96.266
5.			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1737$

Absolute Open Flow	1737	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .65
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Approved by Commission:	Conducted By:	Calculated By: Don Kimble	Checked By:
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