

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 4-14-85	
Company Amoco Production Company		Connection	
Pool Carbon Dioxide Gas Unit, 140 Acre Area		Formation Tubb	
Completion Date 8/18/72		Total Depth 2668	Plug Back TD 2502
		Elevation 4993	Farm or Lease Name
Csg. Size 4.5	Wt. 9.5	Set At 2670	Perforations: From 2407 To 2487
Thq. Size 2-3/8	Wt. 4.7	Set At 2300	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 2262	Well No. 2033 231J
Producing Thru Tubing	Reservoir Temp. °F 90 @ 2447	Mean Annual Temp. °F 50	Baro. Press. - P _a 12.2
L 2447	H 2447	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
1.	4.026 x 1.375			273	1	55	305				24 hr
2.	4.026 x 1.375			244	8	58	273	50			24 hr
3.	4.026 x 1.375			217	21	59	245	50			24 hr
4.	4.026 x 1.375			196	34	59	219	50			24 hr
5.							198	50			24 hr

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.							84
2.							306
3.							448
4.							535

NO.	P _r	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	P.S.I.A.	P.S.I.A.
1.					0	0	1.529		1072	547		
2.												
3.												
4.												
5.												

P _c 317.2	P _c ² 100,616	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.783$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.733$
NO.	P _w	P _w ²	P _c ² - P _w ²
1.	285.2		19,277
2.	257.2		34,464
3.	231.2		47,162
4.	210.2		56,432
5.			

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 927$

$\frac{P_c^2}{P_c^2 - P_w^2} = 1.783$

Absolute Open Flow	927	Mcfd @ 15.025	Angle of Slope	Slope, n	.951
Remarks:					
Approved By Commission:		Conducted By:		Calculated By:	
				D. R. White	
				Checked By:	

