

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 9-1-65

clsr
File

Type Test ☐ Initial ☐ Annual ☐ Special				Test Date 6-20-83		JUL 27 1983	
Company AMOCO PRODUCTION COMPANY				Connection CITIES SERVICE COMPANY			
Pool MISSISSIPPIAN WILDCAT				Formation MISSISSIPPIAN		Unit ARTESIA, OFFICE	
Completion Date 03/14/91		Total Depth 9175.		Plug Back TD 8865.		Elevation 4045, 7485	
Csg. Size 5.500		ID 4.000		Set At 992.		Perforations: From 8398. To 8407.	
Tbg. Size 2.375		ID 1.995		Set At 8295.		Perforations: From 8512. To 8520.	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 8169.		County CHAVES COUNTY	
Producing thru TUBING		Reservoir Temp. °F 147.8 8459.		Mean Annual Temp. °F 60.0		Baro. Press. - P _g 13.2	
L 8459.		H 8459.		G _g 0.702		% CO ₂ 1.59	
				% N ₂ 1.41		% H ₂ S 0.	
				Prover 0.		Meter Run 3.0	
						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							1441.	75.			72.0
1.	3.00	X	1.625	66.	5.0	85.	1020.	85.	0.	0.	0.7
2.	3.00	X	1.625	74.	10.0	78.	1025.	78.	0.	0.	0.7
3.	3.00	X	1.625	84.	14.0	70.	1030.	70.	0.	0.	0.7
4.	3.00	X	1.625	94.	20.0	75.	1071.	75.	0.	0.	1.0
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 _{sp}	Rate of Flow Q, Mcfd
1.	13.30	19.90	79.2	0.9768	1.1933	1.0074	311.
2.	13.30	29.53	97.2	0.9931	1.1933	1.0084	465.
3.	13.30	36.89	97.2	0.9905	1.1933	1.0100	536.
4.	13.30	46.30	107.2	0.9859	1.1933	1.0106	732.
5.							

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
1.	0.12	545.	1.42	0.985	0.	0.	0.702	XXXXXX	572.	384.
2.	0.13	538.	1.40	0.983						
3.	0.14	530.	1.39	0.980						
4.	0.15	535.	1.39	0.979						
5.										

P _c 1443.9 P _c ² 2083				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1	1059.	1024.	1048.	1034.
2	1079.	1033.	1067.	1015.
3	1217.	1109.	1214.	957.
4	1175.	1093.	1173.	909.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.2945$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1110.$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5156$

Absolute Open Flow	1110.	Mcf/d @ 15.025	Angle of Slope	53.3	Slope, m	0.503	
Remarks:							
Approved By - Commission:		Conducted By:		Calculated By:		Checked By:	