

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

Form C-122
Revised 9-1-65

JUL 22 1983

401
File

O. C. D.

Type Test ☐ Initial ☒ Annual ☐ Special		Test Date 5-18-83		ARTESIA, OFFICE	
Company AMOCO PRODUCTION COMPANY			Connection CITIES SERVICES COMPANY		
Pool LOST LAKE STRAIN			Formation STRAIN		Unit
Completion Date 07/26/81		Total Depth 9300.		Plug Back TD 9230.	Elevation 4670.74094
Form or Lease Name STATE JH					
Csg. Size 5.500	Wt. 17.0	d 4.892	Set At 9300.	Perforations: From 8442. To 8476.	Well No. 1
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 8476.	Perforations: From 0. To 0.	Unit Sec. Twp. Rge. F-36-8S-29E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 9384.	County CHAVES COUNTY
Producing Tubing TUBING		Reservoir Temp. °F 162.0 8459.	Mean Annual Temp. °F 60.0	Baro. Press. - P _g 13.2	State NEW MEXICO
L 8459.	H 8459.	Gg 0.725	% CO ₂ 0.72	% N ₂ 1.61	% 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. hw'	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2293.	60.			72.0
1.	3.00 X 2.000			14.	2.0	108.	2195.	108.	0.	0.	1.0
2.	3.00 X 2.000			18.	5.0	110.	2143.	110.	0.	0.	0.7
3.	3.00 X 2.000			25.	10.0	107.	2057.	107.	0.	0.	0.7
4.	3.00 X 2.000			38.	20.0	94.	1920.	94.	0.	0.	0.7
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.	21.53	7.39	27.2	0.9563	1.1748	1.0024	179.
2.	21.53	12.49	31.2	0.9551	1.1748	1.0027	303.
3.	21.53	19.54	38.2	0.9577	1.1748	1.0034	475.
4.	21.53	32.00	51.2	0.9638	1.1748	1.0043	736.
5.							

NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.04	559.	1.45	0.995	0.	
2.	0.05	570.	1.45	0.995	0.1	
3.	0.05	557.	1.45	0.993	0.725	XXXXXXX
4.	0.09	554.	1.41	0.990	XXXXX	0.725
5.						

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1.	4981.	2153.	4635.	707.
2.	4549.	2099.	4405.	935.
3.	4395.	2019.	4074.	1269.
4.	3737.	1999.	3996.	1735.
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.0730$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^m = 3.0730$

MOF = D $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^m = 2425.$

Absolute Open Flow 2425.		Welded JIS 025	Angle of Slope 45.0	Slope, m 1.000
Remarks:				
Approved By Commission:	Conducted By:	Calculated By:	Checked By:	