

W MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT, AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

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JAN 19 1984

O. C. D.

ARTESIA, OFFICE

Type Test [x] Initial [] Annual [] Special					Test Date 11/25/83				
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company				
Pool Pecos Slope					Formation Abo				
Completion Date 11/16/82		Total Depth 4200.0'		Plug Back TD 4194.0'		Elevation 3936.7'		Farm or Lease Name LILLIE "RB" FEDERAL	
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4194.0'	Perforations: From 3687.0' To 3857.0'		Well No. 2		Unit Sec Top Rge F 1455 S 24E T 24	
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3620.0'	Perforations: From 0.0' To 0.0'		Packer Set At 3620.0'		County Chaves	
Type Well Single		Producing thru Tubing		Resv. Temp. °F 96 @ 3620'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia	
L 3620.0'		Gg 3620.0'		%CO2 .654		%N2 .02		%H2S 0.00	
Prover 0.000"		Meter Run 2.000"		Taps Flange		State New Mexico		Duration of Flow	
FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Size	Orifice Size	Press. psig	Dif. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	
SI	0.000	x 0.000	0	0.0	68	910	0	0	0
1.	2.067	x 1.250	300	13.8	68	759	62	0	0
2.	2.067	x 1.250	330	18.1	68	703	62	0	0
3.	2.067	x 1.250	360	28.1	68	651	62	0	0
4.	2.067	x 1.250	380	38.0	68	540	62	0	0
5.	0.000	x 0.000	0	0.0	0	0	0	0	0
RATE OF FLOW CALCULATIONS									
NO	Coefficient (24 HOUR)	1/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd		
1.	8.134	65.74	313.20	.992	1.237	1.025	672		
2.	8.134	78.82	343.20	.992	1.237	1.027	808		
3.	8.134	102.41	373.20	.992	1.237	1.030	1053		
4.	8.134	122.24	393.20	.992	1.237	1.031	1258		
5.	0.300	0.00	0.00	0.000	0.000	0.000	0		
NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.				
1.	.47	528	1.48	.953	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.				
2.	.52	528	1.48	.948	Specific Gravity Separator Gas .654 xxxxxxxxxxxxxx				
3.	.57	528	1.48	.943	Specific Gravity Flowing Fluid .654 xxxxxx				
4.	.60	528	1.48	.940	Critical Pressure 659.4 PSIA 659.4 PSIA				
5.	0.00	0	0.00	0.000	Critical Temperature 355.7°R 355.7°R				
Pc 923.2 Pc2 852.3									
NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)	$\frac{Pc^2}{Pc^2-Pw^2} = 1.6546$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = 1.4863$				
1.	611.8	785.7	617.4	234.9	ROF = Q $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = 1870$ Mcfd				
2.	512.9	721.8	521.0	331.3					
3.	441.2	674.5	455.0	397.3					
4.	306.0	571.1	326.1	526.2					
5.	0.0	0.0	0.0	0.0					

Absolute Open Flow 1870 Mcfd @ 15.025 Angle of Slope, 0 38 Slope, n .787

Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andie Carpenter	Checked By:
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