

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST 1500 GAS WELL

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O. C. D.

ARTESIA OFFICE

Form C-122

Type Test										
[] Initial [] Annual [X] Special 9/27/84										
Company					Connection					
Yates Petroleum Corporation					Transwestern Pipeline Company					
Pool					Unit					
WILDCAT - <i>Alto</i>					ATOKA					
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name		
RE 9/20/84		9750.0'		9315.0'		3562.0'		MOORE "FQ"		
Csg Size	Wt.	d	Set At	Perforations:		Well No.				
5.500"	14.000#	5.012"	9737.0'	From 9073.0' To 9128.0'		1				
Tbg Size	Wt.	d	Set At	Perforations:		Unit Sec Twp Rge				
2.375"	4.700#	1.995"	9024.0'	From 0.0' To 0.0'		F 19 20S 25E				
Type Well					Packer Set At		County			
Single					9024.0'		EDDY			
Producing Thru		Resv. Temp. °F		Mean Temp. °F		Baro. Press. - Pa		State		
Tubing		206 @ 3661'		62.0		13.2 psia.		New Mexico		
L	H	Gg	%CO2	%N2	%H2S	Prover	Meter Run	Taps		
9024.0'	9024.0'	.674	2.14	19.75	0.00	0.000"	2.000"	Flange		
FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO	Prover Orifice Size X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F		
SI	0.000 X 0.000	0	0.0	70	2763	0	0	0	0 hrs.	
1.	2.067 X .250	160	27.1	70	2507	62	0	0	24 hrs.	
2.	2.067 X .250	160	30.6	70	2453	62	0	0	24 hrs.	
3.	2.067 X .250	150	53.8	70	2364	62	0	0	24 hrs.	
4.	2.067 X .250	150	80.0	70	2230	62	0	0	24 hrs.	
5.	0.000 X 0.000	0	0.0	0	0	0	0	0	0 hrs.	
RATE OF FLOW CALCULATIONS										
NO	Coefficient (24 HOUR)	/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd			
1.	.299	68.51	173.20	.991	1.218	1.009	25			
2.	.299	72.80	173.20	.991	1.218	1.009	26			
3.	.299	93.70	163.20	.991	1.218	1.009	34			
4.	.299	114.26	163.20	.991	1.218	1.009	42			
5.	0.000	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.	.27	530	1.65	.983	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.					
2.	.27	530	1.65	.983	Specific Gravity Separator Gas .674 xxxxxxxxxxxxxx					
3.	.25	530	1.65	.982	Specific Gravity Flowing Fluid xxxxxx .674					
4.	.25	530	1.65	.982	Critical Pressure 645.6 PSIA 645.6 PSIA					
5.	0.00	0	0.00	0.000	Critical Temperature 321.6°R 321.6°R					
Pc 2776.2 Pc2 7707.3										
NO	Pt2	Pw	Pw2	Pc2-Pw2 (1)	$\frac{Pc^2}{Pc^2-Pw^2} = 2.8808$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = 2.2194$					
1.	6351.4	2520.2	6351.4	1355.9	AOF = Q $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = 92$ Mcfd					
2.	6082.1	2466.2	6082.1	1625.1						
3.	5651.1	2377.2	5651.1	2056.2						
4.	5031.9	2243.2	5032.0	2675.3						
5.	0.0	0.0	0.0	0.0						
Absolute Open Flow					92 Mcfd @ 15.025		Angle of Slope, 0		37 Slope, n .753	
Remarks:										
Approved By:			Conducted By:			Calculated By:		Checked By:		
			TRACY RICHARDSON			ANDIE CARPENTER				