

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

45th File
Form C-122

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JAN 04 1984

O. C. D.

ARTESIA, OFFICE

Type Test [X] Initial [] Annual [] Special				Test Date 10/13/83	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company	
Pool West Atoka <i>Transpec</i>				Formation Morrow	
Completion Date 11/29/82		Total Depth 8800.0'		Elevation 3525.0'	
Csg Size 4.500"		Set At 8804.0'		Perforations: From 8621.0' To 8637.5'	
Tbg Size 2.375"		Set At 8585.0'		Perforations: From 0.0' To 0.0'	
Type Well Single				Packer Set At 8585.0'	
Producing Thru Tubing		Resv. Temp. °F 192 @ 8575'		Baro. Press. - Pa 13.2 psia.	
L 8585.0'		Gg 3585.0'		Prover 0.000"	
4 .613		%CO2 3.00		%H2S 0.00	
Meter Run 2.000"		Taps Flange		State New Mexico	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Size	Orifice Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000	X 0.000	0	0.0	0	2885	0	0	0	0 hrs.
1.	2.067	X .625	210	20.0	70	2000	62	0	0	24 hrs.
2.	2.067	X .625	210	38.0	67	1650	62	0	0	24 hrs.
3.	2.067	X .625	215	50.0	66	1190	62	0	0	24 hrs.
4.	2.067	X .625	215	66.0	65	959	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)	$\sqrt{hw/P_m}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	1.366	66.81	223.20	.991	1.277	1.016	160
2.	1.366	92.10	223.20	.993	1.277	1.016	222
3.	1.366	106.82	228.20	.994	1.277	1.017	257
4.	1.366	122.72	228.20	.995	1.277	1.017	296
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.	A.P.I. Gravity of Liquid Hydrocarbons Deg.
1.	.33	530	1.50	.969	Specific Gravity Separator Gas .613	xxxxxxx
2.	.33	527	1.49	.968	Specific Gravity Flowing Fluid xxxxxx	.613
3.	.33	526	1.49	.967	Critical Pressure 683.9 PSIA	683.9 PSIA
4.	.33	525	1.48	.967	Critical Temperature 354.2°R	354.2°R
5.	0.00	0	0.00	0.000		

Pc	2898.2	Pc ²	8399.6			
NO	Pt ²	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2-Pw^2} = \frac{1.1272}{}$	(2) $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{1.1272}{}$
1.	4053.0	2013.4	4053.6	4345.9		
2.	2766.2	1663.6	2767.5	5632.1		
3.	1447.7	1203.9	1449.5	6950.1	ROF = Q $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{334 \text{ Mcfd}}{}$	
4.	945.2	973.4	947.6	7452.0		
5.	0.0	0.0	0.0	0.0		

$$ROF = Q \left[\frac{Pc2}{Pc2-Pw2} \right]^n = 334 \text{ Mcfd}$$

Absolute Open Flow 334 Mcfd @ 15.025 Angle of Slope, 0 45 Slope, n1.000
Remarks:

Approved By:	Conducted By: Ed Perry	Calculated By: Andie Carpenter	Checked By:
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