

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

Form C-122

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O. C. D.

ARTESIA, OFFICE

Type Test [x] Initial [] Annual [] Special				Test Date 8/8/84	
Company Yates Petroleum Corporation			Connection Transwestern Pipeline Company		
Pool Pecos Slope <i>Abso</i>			Formation Abso Pool		Unit
Completion Date 4/27/83		Total Depth 4300.0'		Plug Back TD 4226.0'	Elevation 3682.0'
Farm or Lease Name Caudill "RZ" Com					
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4292.0'	Perforations: From 3883.0' To 4075.0'	
Well No. 4					
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3855.0'	Perforations: From 0.0' To 0.0'	
Type Well Single				Packer Set At 3855.0'	Unit Sec Twp Rge G 8 6S 6E
Producing Thru Tubing		Resv. Temp. °F 98 @ 3855'	Mean Temp. °F 62.0	Baro. Press. - Pa 13.2 psia.	County Chaves
State New Mexico					
L 3855.0'	H 3855.0'	Gg .652	%CO2 .02	%N2 6.31	%H2S 0.00
Prover 0.000"		Meter Run 2.000"		Taps 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	920	0	0	0	0 hrs.
1.	2.067 X 1.375	185	9.8	50	905	62	0	0	24 hrs.
2.	2.067 X 1.375	180	17.8	70	897	62	0	0	24 hrs.
3.	2.067 X 1.375	170	24.5	70	894	62	0	0	24 hrs.
4.	2.067 X 1.375	150	49.0	70	880	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)	$\sqrt{hwP_m}$	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	10.204	44.07	198.20	1.010	1.238	1.017	572
2.	10.204	58.64	193.20	.991	1.238	1.014	744
3.	10.204	67.00	183.20	.991	1.238	1.013	850
4.	10.204	89.42	163.20	.991	1.238	1.012	1132
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.	.30	510	1.43	.967	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.29	530	1.49	.972	Specific Gravity Separator Gas	.652	xxxxxxxxxxxxxx
3.	.28	530	1.49	.974	Specific Gravity Flowing Fluid	xxxxxx	.652
4.	.25	530	1.49	.977	Critical Pressure	659.7	PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	355.5°R	355.5°R

Pc	933.2	Pc ²	870.9		
NO	Pt ²	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2-Pw^2} = 15.4254$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = 8.4533$
1.	843.1	920.5	847.2	23.6	ROF = Q $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{9572 \text{ Mcfd}}{}$
2.	828.5	914.0	835.5	35.4	
3.	823.0	912.2	832.2	38.7	
4.	797.8	902.3	814.1	56.8	
5.	0.0	0.0	0.0	0.0	

Absolute Open Flow 9572 Mcfd @ 15.025 Angle of Slope, 0 38 Slope, n .780
Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andie Carpenter	Checked By:
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Company	Yates Petroleum Corporation
Well	Caudill "RZ" Com No. 4
Location	G, 8-6S-6E 211
County	Chaves
Date	11/6/84

