

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

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Form C- 22

NOV 13 1984

O. C. D.

ARTESIA, OFFICE

Type Test [x] Initial [] Annual [] Special				Test Date 8/6/84	
Company Yates Petroleum Corporation			Connection Transwestern Pipeline Company		
Pool Pecos Slope <i>ABO</i>			Formation Abo		Unit
Completion Date 3/3/83		Total Depth 4200.0'	Plug Back TD 4148.0'	Elevation 3995.0'	Farm or Lease Name Skinny "QO" State ✓
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set At 4198.0'	Perforations: From 3718.0' To 4066.0'	Well No. 6
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set At 3653.0'	Perforations: From 0.0' To 0.0'	Unit Sec Twp Rge K 16 6S 25E
Type Well Single				Packer Set At 3653.0'	County Chaves
Producing Thru Tubing		Resv. Temp. °F 102 @ 3653'	Mean Temp. °F 62.0	Baro. Press. - Pa 13.2 psia.	State New Mexico
L 3653.0'	H 3653.0'	Gg .643	%CO2 .01	%N2 5.16	%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	913	0	0	0	0 hrs.
1.	2.067 X 1.000	160	13.8	70	766	62	0	0	24 hrs.
2.	2.067 X 1.000	170	22.0	70	692	62	0	0	24 hrs.
3.	2.067 X 1.000	175	27.9	70	681	62	0	0	24 hrs.
4.	2.067 X 1.000	180	30.0	70	620	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)	1/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	4.947	48.89	173.20	.991	1.247	1.012	302
2.	4.947	63.49	183.20	.991	1.247	1.013	393
3.	4.947	72.46	188.20	.991	1.247	1.014	449
4.	4.947	76.13	193.20	.991	1.247	1.014	472
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.	Specific Gravity Separator Gas xxxxxxx	Specific Gravity Flowing Fluid xxxxxx	Critical Pressure 661.9 PSIA	Critical Temperature 355.7°R
1.	.26	530	1.49	.976						
2.	.28	530	1.49	.974						
3.	.28	530	1.49	.973						
4.	.29	530	1.49	.972						
5.	0.00	0	0.00	0.000						

Pc	926.2	Pc ²	857.8				
NO	Pt ²	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2-Pw^2}$	(2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n$	
1.	607.2	779.9	608.3	249.6	1.8818	1.5976	
2.	497.3	706.6	499.2	358.6			
3.	481.9	696.0	484.4	373.4			
4.	400.9	635.4	403.7	454.1			
5.	0.0	0.0	0.0	0.0			

$$ROF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 754 \text{ Mcfd}$$

Absolute Open Flow 754 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .741
Remarks:

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