

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

Form C-122

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11/7/82		JAN 20 1983	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company				O. C. D.
Pool Pecos Slope - Abo Pool				Formation Abo				
Completion Date 4/8/82		Total Depth 4250.0'		Plug Back TD 4185.0'		Elevation 3938.2'		Farm or Lease Name Margaret "RQ" St
Csg Size 4.500"	Wt. 9.500#	d 4.090"	Set Rt 4244.0'	Perforations: From 3625.0' To 3795.0'		Well No. 2		
Tbg Size 2.375"	Wt. 4.700#	d 1.995"	Set Rt 3584.0'	Perforations: From 0.0' To 0.0'		Unit Sec Twp Rge G 36 48 24E		
Type Well Single					Packer Set At 0.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 103 @ 0'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico
L 3584.0'	H 3584.0'	Gg .676	%CO2 3.06	%N2 6.06	%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	75	1000	0	0	0	0 hrs.
1.	2.067 X 1.000	130	32.0	72	938	62	0	0	24 hrs.
2.	2.067 X 1.000	130	48.9	75	915	62	0	0	24 hrs.
3.	2.067 X 1.000	135	65.1	75	890	62	0	0	24 hrs.
4.	2.067 X 1.000	140	80.0	72	865	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.	4.947	67.69	143.20	.989	1.216	1.010	407
2.	4.947	83.68	143.20	.986	1.216	1.011	502
3.	4.947	98.22	148.20	.986	1.216	1.010	589
4.	4.947	110.71	153.20	.989	1.216	1.011	666
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.	.21	532	1.48	.981	A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.
2.	.21	535	1.49	.979	Specific Gravity Separator Gas	.676
3.	.22	535	1.49	.980	Specific Gravity Flowing Fluid	.676
4.	.23	532	1.48	.979	Critical Pressure	672.4 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	359.0°R

Pc	1013.2	Pc ²	1026.6		
NO	Pt ²	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2-Pw^2} = \frac{4.1109}{}$ (2) $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{2.5122}{}$
1.	904.8	952.3	906.8	119.8	ROF = 0 $\left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = \frac{1672 \text{ Mcfd}}{}$
2.	861.6	929.9	864.6	161.9	
3.	815.8	905.6	820.0	206.5	
4.	771.2	881.3	776.7	249.8	
5.	0.0	0.0	0.0	0.0	

$$\frac{Pc^2}{Pc^2-Pw^2} = 4.1109 \quad (2) \left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = 2.5122$$

$$ROF = Q \left[\frac{Pc^2}{Pc^2-Pw^2} \right]^n = 1672 \text{ Mcfd}$$

Absolute Open Flow 1672 Mcfd @ 15.025 Angle of Slope, 0 33 Slope, n .652
Remarks:

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