

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

Form C-122

also file

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 12/29/88		APR 10 '89	
Company Yates Petroleum Corporation			Connection Transwestern Pipeline Company				
Pool ABO Pecos Slope ABO			Formation Pecos Slope			Unit A-28	
Completion Date 2/28/83		Total Depth 4200.0'		Plug Back TD 4155.0'		Elevation 3709.0'	
Csg Size Wt. 4.500" 9.500#		d 4.090"		Set At 4198.0'		Perforations: From 3603.0' To 3955.0'	
Tbg Size Wt. 2.375" 4.700#		d 1.995"		Set At 3578.0'		Perforations: From 0.0' To 0.0'	
Type Well Single				Packer Set At 3578.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 100 @ 3575'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia	
L 3578.0'		H 3578.0'		Gg .661		%CO2 .12	
				%N2 7.80		%H2S 0.00	
				Prover 0.000"		Meter Run 2.000"	
						Taps Flange	

NO	FLOW DATA			TUBING DATA		CASING DATA		Duration of Flow
	Prover Orifice Size X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	
SI	0.000 X 0.000	0	0.0	48	900	0	0	0 hrs.
1.	3.068 X 1.125	140	5.1	43	775	62	0	24 hrs.
2.	3.068 X 1.125	140	7.7	46	731	62	0	24 hrs.
3.	3.068 X 1.125	150	21.8	48	459	62	0	24 hrs.
4.	3.068 X 1.125	150	35.0	48	200	62	0	24 hrs.
5.	0.000 X 0.000	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.	6.092	27.95	153.20	1.017	1.230	1.013	216
2.	6.092	34.35	153.20	1.014	1.230	1.013	264
3.	6.092	59.65	163.20	1.012	1.230	1.014	458
4.	6.092	75.58	163.20	1.012	1.230	1.014	581
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.	.23	503	1.42	.974	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.		
2.	.23	506	1.43	.974	Specific Gravity Separator Gas .661 xxxxxxxxxxxxxxx		
3.	.25	508	1.43	.973	Specific Gravity Flowing Fluid xxxxxx .661		
4.	.25	508	1.43	.973	Critical Pressure 657.3 PSIA 657.3 PSIA		
5.	0.00	0	0.00	0.000	Critical Temperature 354.1°R 354.1°R		

NO	Pt <sup>2</sup>	Pw	Pw <sup>2</sup>	Pc <sup>2</sup> -Pw <sup>2</sup>	(1) $\frac{Pc^2}{Pc^2-Pw^2} =$	(2) $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n =$
1.	621.3	788.6	621.8	212.1	1.0628	1.0473
2.	553.8	744.8	554.7	279.2		
3.	223.0	475.1	225.7	608.2		
4.	45.5	223.6	50.0	783.9		
5.	0.0	0.0	0.0	0.0		

AOF = 0  $\left[\frac{Pc^2}{Pc^2-Pw^2}\right]^n = 608 \text{ Mcfd}$

Absolute Open Flow 608 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .759  
Remarks:

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