

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

4th File
Form C-122

RECEIVED

Type Test [X] Initial [] Annual [] Special				Test Date 11/09/82		JAN 11 1983	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company			
Pool Pecos Slope - Abo Gas				Formation Abo			
Completion Date 05/14/82		Total Depth 4000.0'		Plug Back TD 3985.0'		Elevation 4013.0'	
Farm or Lease Name Redman "OY" State							
Csg Size 4.500"		Wt. 9.500#		d 4.090"		Set At 4000.0'	
Tbg Size 2.375"		Wt. 4.700#		d 1.995"		Set At 3660.0'	
Perforations: From 3711.0' To 3873.0'							
Perforations: From 0.0' To 0.0'							
Type Well Single				Packer Set At 3661.0'		Unit Sec Top Rge 0 26 48 24E	
Producing Thru Tubing				Resv. Temp. °F 96 @ 3658'		Mean Temp. °F 62.0	
Baro. Press. - Pa 13.2 psia.				State New Mexico		County Chaves	
L 3660.0'		H 3660.0'		Gg .652		%CO2 .05	
				%N2 6.57		%H2S 0.00	
				Proven 0.000"		Meter Run 2.000"	
				Taps Flange			

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Proven 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	982	0	0	0	0 hrs.
1.	2.067 X 1.000	130	31.1	72	721	62	0	0	24 hrs.
2.	2.067 X 1.000	135	44.1	72	630	62	0	0	24 hrs.
3.	2.067 X 1.000	135	50.0	70	570	62	0	0	24 hrs.
4.	2.067 X 1.000	140	76.6	70	379	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	66.73	143.20	.989	1.238	1.011	409
2.	4.947	80.84	148.20	.989	1.238	1.011	495
3.	4.947	86.08	148.20	.991	1.238	1.011	528
4.	4.947	103.33	153.20	.991	1.238	1.012	665
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Fr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio _____ Dry _____ Mcf/bbl.
1.	.22	532	1.50	.978	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.
2.	.23	532	1.50	.978	Specific Gravity Separator Gas .652 xxxxxxxxxxxxxxxx
3.	.23	530	1.49	.977	Specific Gravity Flowing Fluid xxxxxx .652
4.	.23	530	1.49	.977	Critical Pressure 658.0 PSIA 658.0 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature 355.0°R 355.0°R

Pc 995.2 Pc² 990.4				
NO	Pt²	Pw	Pw²	Pc²-Pw² (1)
1.	539.0	735.6	541.1	449.3
2.	413.7	645.6	416.8	573.6
3.	340.1	586.2	343.7	646.7
4.	153.8	399.6	159.6	830.8
5.	0.0	0.0	0.0	0.0

$$\frac{Pc^2}{Pc^2 - Pw^2} = \frac{1.1916}{(2)} \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = \frac{1.1491}{}$$

$$AOF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 764 \text{ Mcfd}$$

Absolute Open Flow 764 Mcfd @ 15.025 Angle of Slope, 0 38 Slope, n .793
Remarks: _____

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