NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 10/30/1994	
Company: Yates Petroleum Corp	Connection: Transwestern Pipeline Co		
Pool: Abo	Formation: Pecos Slope	Unit:	
Completion Date: 10/29/1994	Total Depth: 4250	Plug Back TD: 4205	Elevation: 3843
Farm or Lease Name: McClellan MB Federal			
Csg. Size: 4.500 / Wt.: 10.500 / d: 4.052 / Set At: 4250	Perforations: From 3770 To 3948		Well No.: 5
Tbg. Size: 2.375 / Wt.: 4.700 / d: 1.995 / Set At: 3702	Perforations: From 3770 To 3948		Unit: E / Sec: 31 / Twp.: 5S / Rge.: 25E
Type Well: Single	Packer Set At: 3704		County: Chaves
Producing Thru: Tubing	Resv. Temp. °F: 98 @ 4200	Mean Temp. °F: 62	Baro. Press. - Pa: 13.2
			State: New Mexico

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
3702	3702	0.645	0.022	5.882	0.000	0.000	4.000	Flange

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI.	0.000	x	0.000	0	0.0	0	500	0			0
1.	4.026	x	1.625	90	24.0	51	300	62			24
2.	4.026	x	1.625	81	30.8	50	230	62			24
3.	4.026	x	1.625	90	41.0	49	160	62			24
4.	4.026	x	1.625	90	46.0	52	90	62			24
5.		x									

RATE OF FLOW CALCULATIONS

NO	Coefficient (24 Hour)	$\sqrt{hwPm}$	Pressure Pm	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	12.790	49.8	103.2	1.0088	1.245	1.009	807
2.	12.790	54.0	94.6	1.0098	1.245	1.009	875
3.	12.790	65.0	103.2	1.0108	1.245	1.009	1057
4.	12.790	68.9	103.2	1.0078	1.245	1.009	1116
5.							

NO	Pr	Temp °R	Tr	Z
1	0.16	511	1.44	0.982
2	0.14	510	1.44	0.983
3	0.16	509	1.44	0.982
4.	0.16	512	1.44	0.982
5				

Gas Liquid Hydrocarbon Ratio	0 Mcf/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons	0.000 Deg.	
Specific Gravity Separator Gas	0.645	XXXXXXXXXX
Specific Gravity Flowing Fluid	XXXXXXXXXX	0.645
Critical Pressure	661 P.S.I.A.	661 P.S.I.A.
Critical Temperature	354 °R	354 °R

Pc 513.2 Pc^2 263.4

NO.	Pt^2	Pw	Pw^2	$Pc^2 - Pw^2$
1.	98.1	326.8	106.8	156.6
2.	59.1	263.6	69.5	193.9
3.	30.0	212.6	45.2	218.2
4.	10.7	166.7	27.8	235.6
5.				

(1) $\frac{Pc^2}{Pc^2 - Pw^2}$ = 1.207 (2) $\left[\frac{Pc^2}{Pc^2 - Pw^2}\right]^n$ = 1.163

AOF = Q $\left[\frac{Pc^2}{Pc^2 - Pw^2}\right]^n$ = 1229

Absolute Open Flow: 1229 Mcfd @ 15.025 | Angle of Slope θ: 39 | Slope, n: 0.800

Remarks:

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