

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

Form C-122

C/S
File

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 03/01/1993			
Company Yates Petroleum Corp				Connection Transwestern Pipeline Co					
Pool Abo				Formation Pecos Slope				Unit	
Completion Date 07/29/1983		Total Depth 4225		Plug Back TD 4168		Elevation 3952		Farm or Lease Name Margaret RQ State	
Csg Size 4.500	Wt 9.500	d 4.090	Set At 4225	Perforations: From 3640 To 3744		Well No. 4			
Tbg Size 2.375	Wt 4.700	d 1.995	Set At 3596	Perforations: From 3640 To 3744		Unit F	Sec. 36	Twp 4S	Rge 24E
Type Well Single				Packer Set At 3596		County Chaves			
Producing Thru Tubing		Resv. Temp. °F 118 @ 3692		Mean Temp. °F 62		Baro. Press. - Pa 13.2		State New Mexico	
L 3596	H 3596	Gg 0.655	%CO ₂ 0.000	%N ₂ 6.483	%H ₂ S 0.000	Prover 0.000	Meter Run 2.000	Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
Sl.	0.000	x	0.000	0	0.0	0	150	0			0
1	2.067	x	0.750	79	8.9	69	100	62			24
2	2.067	x	0.750	76	9.5	72	93	62			24
3	2.067	x	0.750	80	12.0	73	87	62			24
4	2.067	x	0.750	80	13.0	74	80	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	2.709	28.6	92.1	0.9915	1.236	1.007	96
2	2.709	29.2	89.4	0.9887	1.236	1.007	97
3	2.709	33.4	93.2	0.9877	1.236	1.007	111
4	2.709	34.8	93.2	0.9868	1.236	1.007	116
5							

NO	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons 0.000 Deg.	Specific Gravity Separator Gas 0.655	Specific Gravity Flowing Fluid 0.655	Critical Pressure 659 P.S.I.A.	Critical Temperature 356 °R
1	0.14	529	1.49	0.985						
2	0.14	532	1.49	0.986						
3	0.14	533	1.50	0.985						
4	0.14	534	1.50	0.986						
5										

Pc	163.2	Pc²	26.6	(1) $\frac{Pc^2}{Pc^2 - Pw^2} = 1.622$	(2) $\left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1.448$
NO	Pt²	Pw	Pw²	Pc² - Pw²	
1	12.8	113.8	12.9	13.7	
2	11.3	106.8	11.4	15.2	
3	10.0	101.1	10.2	16.4	
4	8.7	94.2	8.9	17.8	
5					

Absolute Open Flow 161		Mcf @ 15.025	Angle of Slope θ 37	Slope, n 0.766
Remarks				
Approved By Commission:		Conducted By: David Weaver	Calculated By: Andrea Carpenter	Checked By: