

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

Form C-122

RECEIVED

Type Test [x] Initial [] Annual [] Special					Test Date 5/23/89		JUL 07 '89	
Company Yates Petroleum Corporation					Connection Transwestern Pipeline Company			
Pool Collins Ranch <i>Wolfcamp</i>					Formation Wolfcamp			
Completion Date 4/22/89		Total Depth 5300.0'		Plug Back TD 5258.0'		Elevation 3760.2'		Farm or Lease Name Richard Knob REX <i>ST</i>
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 5300.0'	Perforations: From 4931.0' To 4991.0'		Well No. 2		
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 4868.0'	Perforations: From 0.0' To 0.0'		Unit Sec Twp Rge K 34 17S 24E		
Type Well Single				Packer Set At 4868.0'		County Eddy		
Producing Thru Tubing		Resv. Temp. °F 113 @ 4800'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		
L 4868.0'		H 4868.0'		Gg .650		Prover 0.000"		
				%CO2 0.00		%N2 1.10		
				%H2S 0.00		Meter Run 2.000"		
						Taps Flange		
FLOW DATA				TUBING DATA		CASING DATA		
NO	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	93	1670	0	0	
1.	2.067 X 1.000	235	23.0	92	1245	62	0	
2.	2.067 X 1.000	235	27.7	95	1190	62	0	
3.	2.067 X 1.000	240	37.5	94	1134	62	0	
4.	2.067 X 1.000	240	38.2	93	1002	62	0	
5.	0.000 X 0.000	0	0.0	0	0	0	0	
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.	4.947	75.56	248.20	.971	1.240	1.018	458	
2.	4.947	82.92	248.20	.968	1.240	1.018	501	
3.	4.947	97.44	253.20	.969	1.240	1.019	590	
4.	4.947	98.35	253.20	.970	1.240	1.019	596	
5.	0.000	0.00	0.00	0.000	0.000	0.000	0	
Gas Liquid Hydrocarbon Ratio _____ Dry _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ 0.000 Deg. Specific Gravity Separator Gas .650 xxxxxxxxxxxxxx Specific Gravity Flowing Fluid xxxxxx .650 Critical Pressure _____ 668.4 PSIA _____ 668.4 PSIA Critical Temperature _____ 369.4 °R _____ 369.4 °R								
$P_c = 1683.2$ $P_c^2 = 2833.2$ NO P_t^2 P_w P_w^2 $P_c^2 - P_w^2$ (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5797$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3816$								
1.	1583.1	1258.6	1584.1	1249.0	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 824 \text{ Mcfd}$			
2.	1447.7	1203.7	1449.0	1384.2				
3.	1316.1	1148.0	1317.9	1515.3				
4.	1030.6	1016.1	1032.5	1800.6				
5.	0.0	0.0	0.0	0.0				
Absolute Open Flow 824 Mcfd @ 15.025 Angle of Slope, 0 35 Slope, n .707								
Remarks:								
Approved By:		Conducted By:		Calculated By:		Checked By:		
		Ed. Bonny		Andrea Carpenter				