

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

Form C-122
 Revised 9-1-65

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 6/30/82		SEP 7 1982							
Company Yates Petroleum Corp			Connection Transwestern Pipeline								
Pool Pecos Slope - Abo Gas			Formation Abo								
Completion Date 3/13/82		Total Depth 4300		Plug Back TD 4238							
Elevation 3695 GL		Farm or Lease Name Federal HJ									
Inst. Size 4 1/2"	Wt. 9.5#	d 4.090	Set At 4300	Perforations: From 3678 To 3846							
Well No. #3											
Trq. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 3670	Perforations: From To							
Unit C	Sec. 31	Twp. 6S	Rge. 26E								
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single			Packer Set At None		County Chaves						
Producing Thru Tubing		Reservoir Temp. °F 94° @ 3670		Mean Annual Temp. °F 62°							
				Brio. Press. - P _b 13.2 PSI							
State New Mexico											
L 3670	H 3670	Cq .684	% CO ₂ 5.36	% N ₂ 4.76	% H ₂ S 0						
Provor --		Motor Hun 2"		Taps Flanged							
FLOW DATA											
NO.	Provor Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Direction of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
51							992				
1.	2.067 x 1.000			320	36.0	80°	800	62°			24 hr
2.	2.067 x 1.000			230	54.6	73°	759	62°			24 hr
3.	2.067 x 1.000			230	80.7	73°	704	62°			24 hr
4.	2.067 x 1.000			220	154.4	75°	489	62°			24 hr
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow O. Mcfd				
1	4.946	109.5	333.2	0.9813	1.209	1.027	660				
2	4.946	115.3	243.2	0.9877	1.209	1.021	695				
3	4.946	140.1	243.2	0.9877	1.209	1.021	845				
4	4.946	189.8	233.2	0.9859	1.209	1.019	1140				
5											
NO.						Gas Liquid Hydrocarbon Ratio _____ Dry _____ Mcf/ubl.					
1						A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.					
2						Specific Gravity Separator Gas .684 XXXXXX					
3						Specific Gravity Flowing Fluid XXXXX .684					
4						Critical Pressure 681 P.S.I.A. 681 P.S.I.A.					
5						Critical Temperature 362 R 362 R					
P _c 1005.2 P _w 1010.4											
NO.						$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.943$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.199$					
1						$AOI = 0 \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1451$					
2											
3											
4											
5											
Absolute Open Flow 1451 Mcfd @ 15.025						Angle of Slope @ _____ Slope, n .730					
Remarks:											
Approved by Commission:		Conducted By: David Weaver		Calculated By: Andie Alderson		Checked By:					