

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6/25/82		AUG 26 1982 O. C. D. ARTESIA, OFFICE Form or Lease Name Redman OY State			
Company Yates Petroleum Corp.				Connection Transwestern Pipeline							
Pool Pecos Slope - Abq Gas				Formation Abo							
Completion Date 3/1/82		Total Depth 4175		Plug Back TD 4085		Elevation 3978 GL		Well No. 2			
Coq. Size 4 1/2"	Wt. 9.5#	d 4.090	Set At 4175	Perforations: From 3623 To 3765				Unit Sec. Twp. Range H 35 4S 24E			
Tq. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 3643	Perforations: From To				County Chaves			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		State New Mexico			
Producing Thru Tubing		Reservoir Temp. °F 94° 3694		Mean Annual Temp. °F 62°		Bore Press. - P _u 12.1 PSI		Meter Run 2"			
C	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 2"		Coups Flanged		
3643	3643	.680	3.32	6.69	0	--					

FLOW DATA						TUBING DATA		CASING DATA		Location of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	of Flow
SI							988				
1.	2.067 x .875			260	9.6	70°	899	62°			24 hr
2.	2.067 x .875			300	11.0	70°	871	62°			24 hr
3.	2.067 x .875			300	18.5	70°	824	62°			24 hr
4.	2.067 x .875			300	31	70°	750	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, F _{sp}	Rate of Flow Q, Mcf/d
1	3.729	51.2	273.2	0.9905	1.213	1.024	235
2	3.729	58.7	313.2	0.9905	1.213	1.027	270
3	3.729	76.1	313.2	0.9905	1.213	1.027	350
4	3.729	98.5	313.2	0.9905	1.213	1.027	453
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.41	530	1.47	0.954	Dry	--	.680	.680	669	360
2	0.47	530	1.47	0.948						
3	0.47	530	1.47	0.948						
4	0.47	530	1.47	0.948						
5										

NO.	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1	832.1	832.8	169.6	2.4027	2.0394
2	781.8	782.8	219.6		
3	700.9	702.5	299.9		
4	582.5	585.2	417.2		
5					

Absolute Open Flow 924 Mvd @ 15.025 Angle of Slope @ .813
 Remarks: _____

 Approves By Division _____ Conducted By: David Weaver Calculated By: Andie Alderson Checked By: _____