

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

Form C-122
Revised 9-1-65

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special					Test Date 03/20/74					
Company Atlantic Richfield Company				Connection El Paso Natural Gas Company						
Pool Jalmat				Formation Yates				Unit K		
Completion Date 02/10/74		Total Depth 10,830		Plug Back TD 2665		Elevation		Farm or Lease Name ARC Federal		
Csg. Size 9-5/8	Wt. 36	d 8,921	Set At 3605	Perforations: From 2302 To 2429		Well No. 1				
Tbg. Size 2-3/8	Wt. 47	d 1,995	Set At 2393	Perforations: From To		Unit K	Sec. 28	Twp. 25-S	Rge. 37-E	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single					Packer Set At None		County Lea			
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico		
L 2393	H 2393	G _g .677	% CO ₂ .74	% N ₂ 1.69	% H ₂ S -0-	Prover	Meter Run 6"	Taps Flg.		
FLOW DATA					TUBING DATA		CASING DATA		Duration 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.
SI							735		743	
1.	6 x 1.500			41	38.40	53	703	62	710	
2.	6 x 1.500			42	54.00	51	621	65	701	
3.	6 x 1.500			43	72.30	54	608	72	700	
4.	6 x 1.500			45	97.00	59	587	74	695	
5.										
RATE OF FLOW CALCULATIONS										
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd			
1	10.70	45.62	54.2	1.007	1.215	Nil	597			
2	10.70	54.60	55.2	1.009	1.215	Nil	716			
3	10.70	63.74	56.2	1.006	1.215	Nil	834			
4	10.70	75.14	58.2	1.001	1.215	Nil	978			
5										
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.					
1.		513		Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.					
2.		511		Nil	Specific Gravity Separator Gas .677 XXXXXXXXX					
3.		514		Nil	Specific Gravity Flowing Fluid XXXXX					
4.		519		Nil	Critical Pressure 669 P.S.I.A. P.S.I.A.					
5.					Critical Temperature 385 R R					
P _c 756.2		P _c ² 571.8								
NO.	P _t ²	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 8.134$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 8.134$					
1	512.9	723.2	523.0	48.8						
2	402.2	714.2	510.1	61.7						
3	385.9	713.2	508.7	63.1						
4	360.2	708.2	501.5	70.3	AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 7.955$					
5										
Absolute Open Flow 7.955 Mcfd @ 15.025					Angle of Slope @ 45°		Slope, n 1.000			
Remarks: Water was made during test starting in third rate.										
Approved By Commission: <i>[Signature]</i>			Conducted By: Rick Pagan			Calculated By: Rick Pagan			Checked By: James Cogburn	