

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special						Test Date	
Company TENNECO OIL CO.				Connection CITY OF FARMINGTON			
Pool BASIN				Formation DAKOTA		Unit	
Completion Date 12-26-87		Total Depth 6321		Plug Back TD 6296		Elevation 5356	
Farm or Lease Name CITY OF FARMINGTON							
Ceq. Size 4 1/2		Wt. 10.5		d K-55		Set At 6321	
Perforations: From		To		Well No. COM I-E			
Thq. Size 2 3/8		Wt. 4.7		d J-55		Set At 6061	
Perforations: From 6108		To 6260		Unit Sec. Twp. Rge. G 10 29N 13W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 6061	
Producing Thru TUBING				Reservoir Temp. °F p		Mean Annual Temp. °F	
Baro. Press. - P _g				State NEW MEXICO			
L		H		G _g .840		% CO ₂	
				% N ₂		% H ₂ S	
Prover		Meter Run		Taps			

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.	Temp. °F	
SI							1872		-0-	-0-	S.I.
1.							922		-0-	68°	3 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1			922	.9924	1.115	1.134	4241
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.3886	68°	1.2055	.734						
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	1872	922	3,504,384	850,084	2,654,300	1.3203	1.2317
2							
3							
4							
5							

Absolute Open Flow 5.224 Mcfd @ 15.025				Angle of Slope @		Slope, n 75	
Remarks:							
Approved By Division		Conducted By: Craig Marcum		Calculated By: Craig Marcum		Checked By:	