

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special			Test Date 10/04/85									
Company TENNECO OIL CO.			Connection									
Pool UNDESIGNATED			Formation FRUITLAND-COAL									
Completion Date			Total Depth 5630	Plug Back TD 5554								
			Elevation									
			Farm or Lease Name LAWSON									
Casing Size 7" WT. 4 1/2"			Set At 3455 5628	Perforations: From 2822 To 3014								
Tubing Size 1 1/2"			Set At 2947	Perforations: From To								
Type Well - Single - Bordenhead - G.C. or G.O. Multiple			Packer Set At 3220	County SAN JUAN								
Producing Thru			Reservoir Temp. °F	Mean Annual Temp. °F								
			Boro. Press. - P _a	State NEW MEXICO								
L	H	Cg	% CO ₂	% N ₂								
		.680										
FLOW DATA			TUBING DATA									
Casing DATA			Duration of Flow									
O.	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	Duration of Flow	
1.	2x6x.75						1420		1420		3 hours	
2.							80		838	60		
3.												
4.												
5.												
RATE OF FLOW CALCULATIONS												
O.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow O, Mcfd					
1.	11		92	1.000	1.213	1.0101	1240					
2.												
3.												
4.												
5.												
O.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio							
1.	.14	520	1.35	.980	A.P.I. Gravity of Liquid Hydrocarbons							
2.					Specific Gravity Separator Gas							
3.					Specific Gravity Flowing Fluid							
4.					Critical Pressure							
5.					Critical Temperature							
P _r	1432	P _r ²	2050624		OIL CON. DIV. DIST. 3							
O	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.5440$								
	850	722500	1328124	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.4466$								
				AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1793$								
Absolute Open Flow				1793	Mcf @ 15.025				Angle of Slope			
								Slope, n .85				