

Type Test ☐ Initial ☐ Annual ☐ Special						Test Date 6-25-78	
Company Southland Royalty Company				Connection Southern Union Gathering Co.			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 6-11-78		Total Depth 5444'		Plug Back TD 5440'		Elevation 6319' GR	
Form or Lease Name Patterson "B" Com				Well No. 1R			
Casing Size 7.000 4.500		Wt. 20# 10.50		Set At 6.456 4.052		Perforations: From 5110' To 5422'	
Tubing Size 2.375		Wt. 4.7#		Set At 1.995		Perforations: From To	
Type Well - Single - Bradenhead - C.G. or C.O. Multiple Multiple						Packer Set At ---	
Producing Thru Tbg		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
L		H		Gg .700		% 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
1.	2"	X 3/4"					548				1 hr
2.							258				2 hrs
3.							247				3 hrs
4.							240				
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 Q, Mcfd
1.	12.365		252.2	1.0000	.9258	1.0000	2,887
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 560.2 P _c ² 313,824		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2542$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1852$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1.		252.2	63,605	250,219	
2.					
3.					
4.					
5.					

Absolute Open Flow 3,422		Mcf @ 15.025		Angle of Slope θ		Slope, n .75	
Remarks:							

Approved By Commission	Conducted By Charles Saiz	Calculated By: James Smith	Checked By:
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