

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-2-78			
Company Southland Royalty Company				Connection Southern Union Gathering Company					
Pool Blanco				Formation Pictured Cliffs				Unit	
Completion Date 6-11-78		Total Depth 5444'		Plug Back TD 5440'		Elevation 6319' GR		Form or Lease Name Patterson "B" Com	
Csg. Size 7.000 4.500	Wt. 20# 10.50#	d 6.456 4.052	Set At 3113' 2954-5442	Perforations: From 2824' To 2880'		Well No. #1R			
Tbg. Size 1.660	Wt. 4.7#	d 1.380	Set At 2888'	Perforations: From To		Unit Sec. Twp. Rge. C 2-31N-12W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Multiple						Packer Set At -----		County San Juan	
Producing Thru Tbg		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
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	
SI							762		762		
1.	2"	X 3/4"					163		721		1 hr
2.							160		710		2 hrs
3.							156		683		3 hrs
4.											
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	12.365		168.2	1.0000	.9258	1.0000	1,925
2.							
3.							
4.							
5.							

NO.	P _r	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 _r 774.2 P _c ² 599,386					
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 5.1634$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4.0364$ AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 7,770$
1		695.2	483,303	116,083	
2					
3					
4					
5					

Absolute Open Flow	7,770	Mcf @ 15.025	Angle of Slope θ	Slope, n	.85
Remarks:					
Approved by Commission		Conducted by: Odell Farley		Calculated by: James Smith	
				Checked by:	