

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-127
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-1-78	
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 6-14-78		Total Depth 4987'		Plug Back TD 4930'		Elevation 5806' GR	
7-1000'		WT. 20#		d 6.456		Set At 2695'	
4.500'		WT. 10.5#		d 4.052		Set At 2537-4985'	
2.375'		WT. 4.7#		d 1.995		Set At 4827'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At ---	
Producing Thru Tbg.		Reservoir Temp. °F 		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		State New Mexico		County San Juan		Well No. 2A	
Unit 0		Sec. 35		Twp. 31N		Rge. 11W	

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							884		885	
1.	2" x 3/4"						311		660	
2.							281		595	
3.							262		556	
4.										
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		274.2	1.0000	.9258	1.0000	3139
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.L. 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

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²
1		568.2	322,851	482,117
2				
3				
4				
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.6697$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4,611$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.4688$

Absolute Open Flow <u>4,611</u> Mcfd @ 15.025	Angle of Slope <u>75</u>
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Remarks: Light Mist

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