

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-20-78			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Fulcher Kutz				Formation Pictured Cliffs				Unit	
Completion Date 12-29-77		Total Depth 2071'		Plug Back TD 2027'		Elevation 5754'		Farm or Lease Name Cooper	
Csg. Size 2.875	Wt. 6.4#	d 2.441	Set At 2058'	Perforations: From 1928' To 1956'		Well No. #9			
Tiq. Size --	Wt. ---	d -	Set At -	Perforations: From --- To ---		Unit Soc. Twp. Rge. A 7-29N-11W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At -----		County San Juan	
Producing Thru Csg		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L	H	G _g .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									193		
1.	2"	X	3/4"						80		1 hr
2.									72		2 hrs
3.									70		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		82.2	1.0000	.9258	1.0000	941
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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 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 205.2 P _c ² 42,107					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1911$		(2) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1603$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		82.2	6,757	35,350				
2								
3								
4								
5								

Absolute Open Flow 1,092 _____ Mcfd @ 15.025					Angle of Slope θ _____ Slope, n .85				
Remarks: _____									

Approved by Commission:	Conducted by: Mitchell Ferrari	Calculated by: James Smith	Checked by:
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