

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special						Test Date 10-15-80			
Company Southland Royalty Co.				Connection Southern Union Gathering					
Pool Fulcher Kutz				Formation Pictured Cliffs				Unit	
Completion Date 3-7-80		Total Depth 1904'		Plug Back TD 1891'		Elevation 5640' GR		Farm or Lease Name Reid PRI	
Csq. Size 8.625	Wt. 24#	d 8.071	Set At 133'	Perforations: From 1723 To 1747		Well No. #2			
Tbg. Size 2.875	Wt. 6.5	d 2.441	Set At 1891'	Perforations: From To		Unit Sec. Twp. Rye. K 13 29N 12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At ---		County San Juan	
Producing Thru Csq.		Reservoir Temp. °F #		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									184#		
1.	2" x 3/8"								68#		15m.
2.									40#		30m.
3.									29#		45m.
4.									21#		60m.
5.					1 oz. after 24 hrs.				13#		120m.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	3.0300		15.2	1.0000	.9258	1.0000	43
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

P _c 196.2 P _c ² 38494.44		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0060$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0051$	
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²	
1		15.2	231.04	38263.4	
2					
3					
4					
5					

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

Approved by Division	Conducted By: Kelly Maxwell	Calculated By: James Smith	Checked By:
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