

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-23-81			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Basin				Formation Dakota				Unit	
Completion Date 5-31-81		Total Depth 6910'		Plug Back TD 6863'		Elevation 5847' GR		Farm or Lease Name Grenier "B"	
Csq. Size 5.500	Wt. 17# 15.5#	d 4.892 4.950	Set At 6910'	Perforations: From To				Well No. 3-E	
Tbg. Size 1.900	Wt. 2.9#	d 1.610	Set At 6748'	Perforations: From 6702' To 6868'				Unit Sec. Twp. R1/4 J 5 29N 10W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.				Packer Set At 5014'		County San Juan			
Producing Thru Tubing		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							1042				
1.	2"	X	3/4"				0				1 hr
2.							0				2 hrs
3.							0				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		12.2	1.0000	.9258	1.0000	140
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 JUL 13 1981
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _c 1054.2 P _c ² 1,111,337.6					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0001$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right] = 1.0001$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²				
1		12.2	148.8	1,111,188.8				
2								
3								
4								
5								

Absolute Open Flow 140 Mcfd @ 15.025				Angle of Slope @ _____		Slope, n .75	
Remarks: _____							
Approved By Division		Conducted By: Dean Lingo		Calculated By: James Smith		Checked By: L.O. Van Ryan	