

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-4-81	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Blanco				Formation Mesa Verde		Unit
Completion Date 2-14-81		Total Depth 6673'		Plug Back TD 6650'		Elevation 5668'
Csg. Size 7.625		Wt. 26.40#/ft 15.5#		Set At 2272' 2141'-6673'		Perforations: From To
Tbg. Size 1.900		Wt. 2.76#/ft 1.610		Set At 4395'		Perforations: From 3801' To 4481'
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Multiple					Packer Set At 4607'	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.2
L		H		G _g .700		% CO ₂ % N ₂ % H ₂ S Prover
Meter Run		Taps				
FLOW DATA				TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F
SI						
1.	2" x 3/4"					
2.						
3.						
4.						
5.						
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}
1	12.365		141.2	1.0000	.9258	1.0000
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 _____	
3.					Specific Gravity Flowing Fluid _____	
4.					Critical Pressure _____ P.S.I.A.	
5.					Critical Temperature _____ R	
P _c 931.2 P _c ² 867133.4						
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.4093$	
1		712.2	507228.8	359904.6	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9339$	
2						
3						
4						
5						
Absolute Open Flow 3125 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