

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-29-78	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Blanco				Formation Pictured Cliffs		Unit
Completion Date 11-22-78		Total Depth 2802'		Plug Back TD 2780'		Elevation 5962' GR
Csg. Size 2.875		Wt. 6.5#		d 2.441		Set At 2786'
Tbg. Size ---		Wt. ---		d ---		Set At ---
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At ---		Well No. 7
Producing Thru Casing		Reservoir Temp. °F @		Mean Annual Temp. °F ---		Baro. Press. - P _a 12.2
L ---		H ---		G _g .700		% CO ₂ ---
Prover ---		Meter Run ---		Taps ---		County San Juan
State New Mexico						

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									913		
1.	2"	X 3/4"							94		1 hr
2.									67		2 hrs
3.									53		3 hrs
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}	Rate of Flow Q, Mcfd
1	12.365		65.2	1.0000	.9258	1.0000	746
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
					Specific Gravity Separator Gas _____ X X X X X X X X	
					Specific Gravity Flowing Fluid _____ X X X X X	
					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
					Critical Temperature _____ R _____ R	

P _c 925.2 P _c ² 855,995				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		65.2	4,251	851,744
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0050$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 749$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0042$

Absolute Open Flow 749	Mcf @ 15.025	Angle of Slope θ	Slope, n 85
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Remarks:			
Approved By Commission:	Conducted By: Bob Shindledecker	Calculated By: James Smith	Checked By: