

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

Form 9-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-4-78	
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 4-9-78		Total Depth 5385'		Plug Back TD 5368'		Elevation 6193' GR	
Casing Size 7.000 4.500		Wt. 20# 10.50#		d 6.456 4.052		Set At 2930' 2789-5380'	
Perf. Size 2.375		Wt. 4.7#		d 1.995		Set At 5313'	
From 4302'		To 4506'		From 4960'		To 5341'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At ----	
Producing Thru Tbg		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.2		Baro. Press. - P _a 12.2	
L		H		Gg .700		% CO ₂ % N ₂ % H ₂ S	
Provor		Meter Run		Taps			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Provor 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
1.	2"	X	3/4"				842		905		1 hr
2.							280		875		2 hrs
3.							260		845		3 hrs
4.							237		807		
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		249.2	1.0000	.9258	1.0000	2,855
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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 917.2 P _c ² 841,256				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.9437$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.3154$	
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²			
1.		819.2	671,089	170,167			
2.							
3.							
4.							
5.							

Absolute Open Flow 9,459 Mcfd @ 15.025				Angle of Slope 0		Slope, n .75	
Remarks: Unloading H ₂ ° & oil - mist							

Approved By Commission:	Conducted By: Charles Saiz	Calculated By: James Smit-	Checked By:
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