

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

Form O-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-31-79				
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Aztec				Formation Pictured Cliffs				Unit	
Completion Date 5-17-79		Total Depth 4711'		Plug Back TD 4671'		Elevation 5673' GR		Farm or Lease Name Hare	
Gag. Size 7.000 4.500		Wt. 20# 10.5#		d 6.456 4.052		Set At 2348 2191-4711		Perforations: From 2046' To 2078'	
Tbg. Size 1.660		Wt. 2.40#		d 1.380		Set At 2069		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple					Packer Set At 2195' PBR		County San Juan		
Producing Thru Tbg		Reservoir Temp. °F 8		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.	
1.	2" X 3/4"						659		662	
2.							139		542	1 hr.
3.							132		516	2 hrs.
4.							126		499	3 hrs.
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		138.2	1.0000	.9258	1.0000	1582
2.							
3.							
4.							
5.							

NO.	P _t	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	XXXXXXX
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 674.2	P _c ² 454,546	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3525$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0692$
NO.	P _t ²	P _w	P _w ²
1		511.2	261,325
2			
3			
4			
5			

Absolute Open Flow 3273 Mcfd @ 15.025		Angle of Slope 85	
Slope, n .85			
Remarks:			
Approved By Commission:			
Conducted By: Dean Lingo		Calculated By: James Smith	
		Checked By: 	