

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date 9/11/91	
Company Southland Royalty				Connection Sunterra Gas Gathering	
Pool Otero/Blanco				Formation Chacra/Mesaverde	
Completion Date 8/27/91		Total Depth 4651		Plug Back TD 4576	
		Elevation 5701		Farm or Lease Name CAIN	
Cas. Size 4.5/7.0	Wt. 10.5/20.0	d 4648/2292	Set At 4648/2292	Perforations: From 3156 To 3178	
Tub. Size 2.375	Wt. 4.70	d 1.995	Set At	Perforations: From 4050 To 4515	
Type Well - Single - Broadhead - G.C. or G.C. Multiple Single - Commingled				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F •		Mean Annual Temp. °F 12.2	
		Baro. Press. - P _g 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	2"		.750				548		548		
1.							170	68	397		1 Hour
2.							150	71	352		2 Hours
3.							130	71	329		3 Hours
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	12.365		142.2	1.000	.9258	1.000	1627.83
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcfd/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 X
4					Critical Pressure	P.S.I.A. P.S.I.A.
5					Critical Temperature	R R

P _c 560.2	P _c ² 313824.04	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.5897$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.4157$
NO. 1	P _r 341.2 P _w 116417.44 P _r ² 197406.6		
2			
3			
4			
5			

Absolute Open Flow		Mcfd @ 15.025	Angle of Slope @	Slope, n 0.75
Remarks:				
Approved By Division	Conducted By: J. Goldin	Calculated By:	Checked By:	