

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-7-83	
Company Southland Royalty Company			Connection Southern Union Gathering		
Pool Otero			Formation Chacra		Unit Cain
Completion Date 6-30-83		Total Depth 3165'	Plug Back TD 3130'		Elevation 5825' GL
Farm or Lease Name Cain			Well No. 24		
Csq. Size 2.875	Wt. 6.4#	d 2.441	Set At 3137'	Perforations: From 2949' To 3068'	
Thq. Size ---	Wt. ---	d ---	Set At ---	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At ----	
Producing Thru Casing		Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _g 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
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
1.	12.365		195.2	1.0000	.9258
2.					
3.					
4.					
5.					
NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/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 980.2 P_w^2 960792.0 NO. P_c^2 P_w P_w^2 $P_c^2 - P_w^2$					
1.		195.2	38103.0	922689	
2.					
3.					
4.					
5.					
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0413$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0308$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2304$					
Absolute Open Flow 2304			Mcf @ 15.025		Angle of Slope ϕ _____ Slope, n .75
Remarks: Light mist					
Approved By Division		Conducted By: Steve Kellenaers		Calculated By: James Smith	
				Checked By: R. E. Fielder	