

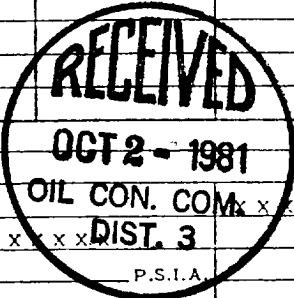
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special						Test Date 9-18-81			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Blanco				Formation Pictured Cliffs				Unit	
Completion Date 9-03-81		Total Depth 3000'		Plug Back TD 2943'		Elevation 6333' GR		Farm or Lease Name Hillstrom	
Csq. Size 4.500	Wt. 10.5#	d 4.052	Set At 2999'	Perforations: From To		Well No. 3			
Tbg. Size 1.900	Wt. 2.9#	d 1.610	Set At 2838'	Perforations: From To		Unit Sec. Twp. Rge. D 35 32N 12W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.						Packer Set At 2637'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L	H	G _q .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							582				
1.	2"	X	3/4"				3				1 hr
2.							2				2 hrs
3.							2				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		14.2	1.0000	.9258		163
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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
3.					Specific Gravity Flowing Fluid	X X X X X X X
4.					Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R



P _c 594.2	P _c ² 353073.6	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0006$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0004$
NO	P _t ²	P _w	P _w ²
1		14.2	201.6
2			
3			
4			
5			

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 163$$

Absolute Open Flow	163	Mcf @ 15.025	Angle of Slope θ	Slope, n .85
Remarks:				

Approved by Division	Conducted By: Dick Irvin	Calculated By: James Smith	Checked By: L. O. Van Ryan
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