

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-27-79	
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Aztec				Formation Pictured Cliffs		Unit	
Completion Date 5-20-79		Total Depth 4888'		Plug Back TD 4696'		Elevation 5848' GR	
Farm or Lease Name Hare		Well No. 22-A		Perforations: From 2252' To 2284'		Unit Sec. Twp. Rge. T 14 29N 10W	
Casing Size 4.500		Casing Weight 20#		Casing Depth 2590		Casing Set At 2431-4886	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple		Packer Set At 2333' PBR		County San Juan		State New Mexico	
Producing Thru Tbg		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.2		Baro. Press. - P _a	
L		H		Gg		% CO ₂	
				.700			
				% 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.	
SI							604		604	
1.	2" X 3/4"						104		436	1 hr
2.							83		427	2 hrs
3.							73		413	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 Fg	Super Compress. Factor, Fpv	Rate of Flow O, Mcfd
1	12.365		85.2	1.0000	.9258	1.0000	975
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.
5.					Critical Temperature	R

NO.	P _i ²	P _w ²	P _w ²	P _e ² - P _w ²
1		425.2	180,795	198,907
2				
3				
4				
5				

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.9089$

AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1689$

(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.9325$

Absolute Open Flow	1689	Mcfd @ 15.025	Angle of Slope	85
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Remarks:

Approved by Commission:	Conducted by: Dean Lingo	Calculated by:	Checked by: OK
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