

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-13-78			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 3-31-78		Total Depth 5275'		Plug Back TD 5190'		Elevation 6104' GL		Farm or Lease Name East	
Casing Size 7.000 4.500		Wt. 20# 10.5#		Set At 6.456 4.052		Perforations: From 4719' To 4862'		Well No. 5A	
Tub. Size 2.375		Wt. 4.7#		Set At 1.995 5147'		Perforations: From 4890' To 5174'		Unit Sec. Twp. Rge. C 24 31N 12W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At -		County San Juan	
Producing Thru Tbg		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L		H		G _g 0.700		% 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	
1.	2"	X	3/4"				611		870		
2.							248		759		1 hr
3.							232		687		2 hrs.
4.							225		665		3 hrs.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mhd
1	12.365		237.2	1.0000	0.9258	1.000	2715
2.							
3.							
4.							
5.							

NO.	P _r	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 _____ 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

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1		677.2	458,600	319,677	2.4346	1.9490
2						
3						
4						
5						

Absolute Open Flow <u>5,292</u> Mhd @ 15.025 Angle of Slope <u>0</u> Slope, n <u>0.75</u>			
Remarks:			

Approved By Commission	Conducted By: Jim Choquette	Calculated By: James Smith	Checked By: J. Hanson
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