

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-19-78			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 5-6-78		Total Depth 5350'		Plug Back TD 5296'		Elevation 6218' GL		Farm or Lease Name Hubbard	
Cr. 808 4.500	Wt. 20# 10.5#	d 6.456 4.052	Set At 2972' 2822-5350'	Perforations: From 4425' To 4688'		Well No. #2-A			
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 5246	Perforations: From 5025' To 5269'		Unit Sec. Twp. Rge. 0 11 32N 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	Gg .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							911		923		
1.	2" X 3/4"						292		847		1 hr
2.							292		820		2 hrs
3.							287		797		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		299.2	1.0000	.9258	1.0000	3425
2.							
3.							
4.							
5.							

NO.	P _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			

NO.	P _f	P _w	P _w ²	P _f ² - P _w ²	(1) $\frac{P_f^2}{P_f^2 - P_w^2} = 3.9792$	(2) $\left[\frac{P_f^2}{P_f^2 - P_w^2} \right]^n = 2.8174$
1		809.2	654,805	219,794		
2						
3						
4						
5						

Absolute Open Flow 9650 Mcfd @ 15.025				Angle of Slope θ _____		Slope, n .75	
Remarks: _____							
Approved By Commission		Conducted By Cliff Pistole		Calculated By James Smith		Checked By <i>[Signature]</i>	