

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-3-80				
Company Southland Royalty Company						Connection Southern Union Gathering				
Pool Basin						Formation Dakota				
Completion Date 3-27-80			Total Depth 6653'		Plug Back TD 6605'		Elevation 5999' GR		Farm or Lease Name Newman "A"	
Csg. Size 5.500	Wt. 15.5#	d 4.892	Set At 6650'	Perforations: From To		Well No. #8E				
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 6601'	Perforations: From 6420' To 6603'		Unit Sec. Twp. Rge. P 19 28N 10W				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At --		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico		
L	H	Gg	% 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							740#		740#		
1.	2 3/8 X 1.995						22#		355#		72 Hours
2.							PITOT READING - 8 Oz.				434 MCF
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	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							434 MCF
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 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	P _c ²				(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____
NO 1	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1						
2						
3						
4						
5						

Absolute Open Flow _____ Mcfd @ 15.025				Angle of Slope @ _____		Slope, n .75	
Remarks: _____							

Approved by Division	Conducted By: Cliff Pistole	Calculated By: James Smith	Checked By: L. O. Van Ryan
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