

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-24-80			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Basin				Formation Dakota				Unit	
Completion Date 4-17-80		Total Depth 6457'		Plug Back TD 6414'		Elevation 5708' GR		Farm or Lease Name McClanahan	
Csq. Size 5.500	Wt. 15.5#	d 4.892	Set At 6457'	Perforations: From To		Well No. #14E			
Trq. Size 2.0625	Wt. 3.25#	d 1.750	Set At 6352'	Perforations: From 6216' To 6386'		Unit Sec. Twp. Rge. H 23 - 28N - 10W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple GG Multiple						Packer Set At 4308'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F p		Mean Annual Temp. °F 12.2		Baro. Press. - P _a		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.	
SI							1223			
1.	2" X 1/2"						270			1 Hour
2.							210			2 Hours
3.							204			3 Hours
4.										
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, Mcfd
1	5.4315		216.2	1.0000	.9258	1.0000	1087
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			

P _c 1235.2 P _c ² 1525719.0					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0316$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0236$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²				
1		216.2	46742.4	1478976.6				
2								
3								
4								
5								

Absolute Open Flow 1113 _____ Mcfd @ 15.025					Angle of Slope @ _____ Slope, n .75				
Remarks: _____									

Approved by Division	Conducted By: Jim Choquette	Calculated By: James Smith	Checked By: L. O. Van Ryan
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