

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date		12-16-80								
Company				Connection														
Southland Royalty Company				Southern Union Gathering														
Pool				Formation				Unit										
Basin				Dakota														
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name										
11-23-80		6468'		6423'		5751 GN		NEWBY "C"										
Csg. Size		Wt.		d		Set At		Perforations:		Well No.								
5.500		15.5#		4.950		6468'		From To		#1E								
Thq. Size		Wt.		d		Set At		Perforations:		Unit Sec. Twp. Rge.								
2.375		4.7#		1.995		6392'		From 6194' To 6406'		E 30 28N 10W								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At		County										
Single - G						-----		San Juan										
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State										
Tubing		Ø						New Mexico										
L		H		G _q		% 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							873#		1064#		72 hours							
1.																		
2.																		
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			PITOT TUBE GAUGE ON 2" LINE				582											
2.																		
3.																		
4.																		
5.																		
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.													
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.													
1					Specific Gravity Separator Gas _____		X X X X X X X X											
2.					Specific Gravity Flowing Fluid _____		X X X X X											
3.					Critical Pressure _____ P.S.I.A.		P.S.I.A.											
4.					Critical Temperature _____ R		R											
5.																		
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.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 582$													
1																		
2																		
3																		
4																		
5																		
Absolute Open Flow _____ Mcfd @ 15.025												Angle of Slope Ø _____		Slope, n _____				
Remarks: _____																		
Approved By Division				Conducted By: Tom Wagner				Calculated By: James Smith				Checked By: L. O. Van Ryan						