

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-17-80			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Basin				Formation Dakota				Unit	
Completion Date 10-31-80		Total Depth 7638'		Plug Back TD 7605'		Elevation 6327 GR		Farm or Lease Name DAVIS	
Csg. Size 4.500		Wt. 23#		d 6.366		Set At 5099'		Perforations: From To	
Tbg. Size 2.375		Wt. 4.70#		d 1.995		Set At 7600'		Perforations: From 7423' To 7602'	
Type Well - Single - Braosenhead - G.G. or G.O. Multiple Single - G						Packer Set At -----		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L		H		G _g		% 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							685#		1280#	
1.										
2.										
3.										
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			PITOT	TUBE	GAUGE		492 MCF
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1							
2							
3							
4							
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 492 \text{ MCF}$

Absolute Open Flow	492 MCF	Mcfd @ 15.025	Angle of Slope θ	Slope, n
Remarks:				

Approved By Division	Conducted By: Steve McCament	Calculated By: James Smith	Checked By: L. O. Van Ryan
----------------------	---------------------------------	-------------------------------	-------------------------------