

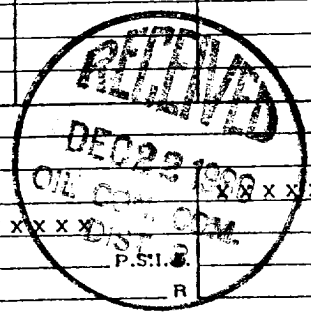
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-9-80			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Basin				Formation Dakota				Unit	
Completion Date 10-2-80		Total Depth 7509'		Plug Back TD 7501'		Elevation 6257' GR		Farm or Lease Name Davis	
Csg. Size 7.000 4.500		Wt. 23# 10.5 & 11.6		d 6.366 4.052		Set At 5018' 7508'		Perforations: From To	
Thq. Size 2.375		Wt. 4.7#		d 1.995		Set At 7472'		Perforations: From 7295' To 7494'	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple G-Single						Packer Set At -----		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F β		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L		H		G _g .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							1245		963		48 Hours
1.							3 1/2 Oz.		263#		
2.											
3.											
4.											

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 ON 2" LINE				331
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
3.					Specific Gravity Flowing Fluid	_____ X X X X X X X
4.					Critical Pressure	_____ P.S.I.A.
5.					Critical Temperature	_____ R



NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \text{_____}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \text{_____}$$

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

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

Approved By Division	Conducted By: Leroy Castleman	Calculated By: James Smith	Checked By: L. O. Van Ryan
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