

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7-1-78				
Company Southland Royalty Company				Connection Southern Union Gathering Company					
Pool Aztec				Formation Pictured Cliffs				Unit	
Completion Date 6-15-78		Total Depth 2930'		Plug Back TD 2872'		Elevation 6296' GR		Farm or Lease Name Davis	
Crp. Size 2.875	Wt. 6.5	d 2.441	Set At 2900'	Perforations: From 2712' To 2817'		Well No. 17			
Tbg. Size	Wt.	d	Set At	Perforations: From To		Unit I		Soc. 3	Twp. 31N
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		County San Juan			
Producing Thru Tbg.		Reservoir Temp. °F P		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
1.	2" x 3/4"								827		
2.									337		1 Hr.
3.									302		2 Hrs.
4.									277		3 Hrs.
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 _{sp}	Rate of Flow Q, Mcfd
1.	12.365		289.2	1.0000	.9258	1.0000	3311
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		289.2	83,637	620,620
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1348$

AOIF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,687$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1135$

Absolute Open Flow <u>3,687</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>85</u>
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Remarks: _____

Approved By Commission	Conducted By: Jim Bacon	Calculated By: James Smith	Checked By:
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