

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6/3/81	
Company Supron Energy Corporation		Connection Southern Union Gathering Co.	
Pool Basin		Formation Dakota	
Completion Date 5/7/81		Total Depth 6508	Plug Back TD 6464
		Elevation 5658	
Coq. Size 4.500	Wt. 10.50	d 4.052	Set At 6508
Perforations From 6216 To 6328	Perforations: No Perforations		
Perforations From 6216 To 6328	Perforations: No Perforations		
Trg. Size 2.375	Wt. 4.70	d 1.995	Set At 6199
Type Well - Single - Funderhead - G.C. or G.O. Multiple Dual - Gas - Gas		Packer Set At 6168	County San Juan
Producing thru Tubing	Reservoir Temp. °F B	Annual Temp. °F	State New Mexico
L 6189	H	Gg 0.650	% N ₂
			% H ₂ S
			Prover
			Meter Run
			Temp

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	2"		3/4"				796				14 Days
1.							60	64°			3 Hour
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Flow Q, MCF
1	12.3650		72	0.9962	0.9608	1.000	852
2.							
3.							
4.							
5.							

NO.	P ₁	Temp. °R	T _r	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										

P ₁ ²	P ₂ ²	P ₃ ²	P ₄ ²	P ₅ ²	P ₆ ²	P ₇ ²	P ₈ ²	P ₉ ²	P ₁₀ ²
808	652,864								
1			21,483	631,381					
2									
3									
4									
5									

(1) $\frac{P_c^2}{P_1^2 - P_2^2} = 1.0340$		(2) $\left[\frac{P_c^2}{P_1^2 - P_2^2} \right]^n = 1.0254$	
AOF = Q $\left[\frac{P_1^2}{P_2^2 - P_3^2} \right]^n = 874$			

Absolute Open Flow	874	Mcf @ 15.025	Angle of Slope =	Slope, n	0.75
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Approved by Division	Conducted By	Calculated By	Checked By
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