

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special			Test Date 9-17-79								
Company SUPRON ENERGY CORPORATION			Connection Southern Union Gathering Company								
Pool Aztec			Formation Pictured Cliffs								
Completion Date 9-8-79		Total Depth 2642	Plug Back TD 2581	Elevation 6281 KB							
Csg. Size 2.875	Wt. 6.50	d 2.441	Set At 2612	Perforations: From 2546 To 2576							
Tub. Size	Wt. No Tubing	d	Set At	Perforations: From To							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At -----							
Producing Thru Casing		Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 12							
L 2603	H	G _g 0.620	% CO ₂	% N ₂							
			% H ₂ S	Prover							
			Meter Run	Tap							
FLOW DATA											
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	Duration of Flow
SI	2"		3/4"						506		7 days
1.									75	59 ⁰	3 hours
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 O. Mcfd				
1	12.3650		87	1.0010	0.9837	1.0000	1059				
2.											
3.											
4.											
5.											
NO.	P _i	Temp. °R	T _r	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						
$P_c = 518$ $P_c^2 = 268,324$											
NO.	P_i^2	P_w^2	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_i^2 - P_w^2} \times 1.0444$ (2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n \times 1.0375$						
1			11,405	256,919							
2											
3											
4											
5											
Absolute Open Flow 1099 Mcfd @ 15.025 Angle of Slope θ Slope, n 0.85											
Remarks:											
Approved by Division			Conducted By: John C. Rector			Calculated By: Kenneth E. Roddy			Checked By:		