

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-21-81	
Company SUPRON ENERGY CORPORATION		Connection Southern Union Gathering Company	
Pool Basin		Formation Dakota	
Completion Date 4-10-81		Total Depth 6240	Plug Back TD 6224
		Elevation 5434	
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 6240
		Perforations From 6024 To 6160	
Thq. Size 2.375	Wt. 4.70	d 1.995	Set At 6104
		Perforations: NO PERFORATIONS From To	
Type Well - Single - Blindhead - G.C. or G.O. Multiple Single		Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F P	Annual Temp. °F
		Baro. Press. - P _a 12	
L 6094	H	Cq 0.650	% N ₂
			% H ₂ S
			Prover
			Meter Run
			Tops
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
1	2"		3/4"
2			
3			
4			
5			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	Duration of Flow
	1052		7 days
	73	68°	3 hours
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
	1053		
	261		
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	12.3650		85
2			
3			
4			
5			
NO.	P _r	Temp. °R	T _r
1			
2			
3			
4			
5			
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ R			
(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0703$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0522$			
NO.	P _r ²	P _w ²	P _r ² - P _w ²
1	1065	273	792
2			
3			
4			
5			
AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1054$			
Absolute Open Flow 1054		Mcf @ 15.025	Slope, n 0.75
Remarks			
Approved By Division		Conducted By	Checked By