

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-15-81	
Company SUPRON ENERGY CORPORATION				Connection Southern Union Gathering Company	
Pool Bloomfield Ext.				Formation Chacra	
Completion Date 4-3-81		Total Depth 2960		Plug Back TD 2927	
				Elevation 5606	
Casing Size 2.875		Wt. 6.50		Perforations From 2746 To 2869	
Tub. Size NO TUBING		d 2.441		Set At 2959	
				Perforations From To	
Type Well - Single - Drordenhead - G.G. or G.O. Multiple Single				Packer Set At	
Producing Thru Casing				County San Juan	
Reservoir Temp. °F #				Baro. Press. - P _a 12	
L 2736				State New Mexico	
H 0.650				Meter Run Taps	
Cg				% N ₂	
				% H ₂ S	
				Prover	

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"						922		7 days
1.									83	66°	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}	Flow Q, Mcfd
1	12.3650		95	0.9943	0.9608	1.000	1122
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcfd/bbl.	Deg.
1												
2.												
3.												
4.												
5.												

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.0160$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.0119$
1			13,719	858,637		
2.						
3.						
4.						
5.						

Absolute Open Flow 1135				Mcf/d @ 15.025		Angle of Slope		Slope, n 0.75		
Remarks:										
Approved by Division			Conducted by Cliff Gates			Calculated by Kenneth E. Roddy			Checked by:	