

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 Blanco				Formation Mesaverde	
Completion Date 3-25-81		Total Depth 8200		Plug Back TD 8178	
				Elevation 6594	
Casing Size 7.625 5.500		WT. 26.40 15.50		Perforations From 5599 To 5941	
Tub. Size 2.0625		WT. 3.25		Perforations From 5861 To 5867	
Type Well - Single - Fractured - G.C. or G.O. Multiple Dual - Gas - Gas				Packer Set At 7928	
Producing thru Tubing				County San Juan	
Reservoir Temp. °F #				State New Mexico	
L 5851		H 0.650		Meter Run Tops	

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"				610		610		17 days
1.							103	63°	444		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Flow Q, Mcfd
1	12.3650		115	0.9971	0.9608	1.010	1376
2.							
3.							
4.							
5.							

NO.	P _r	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
1										
2.										
3.										
4.										
5.										

P _r 622	P _r ² 386,884	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = \frac{2.1620}{}$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = \frac{1.7829}{}$
NO. 1	P _w 456	P _w ² 207,936	P _c ² - P _w ² 178,948
2.			
3.			
4.			
5.			

Absolute Open Flow 2453		Mold # 15.025	Angle of Slope	Slope, n 0.75
Remarks: Blew dry gas throughout test				
Approved By Division	Conducted By Steve Moore	Calculated By Kenneth E. Roddy	Checked By	