

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-1-81	
Company SUPRON ENERGY CORPORATION				Connection El Paso Natural Gas Company	
Pool Basin				Unit	
Formation Dakota					
Completion Date 8-21-81		Total Depth 7100		Plug back TD 7066	
Elevation 6017		Farm or Lease Name Sanchez			
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 7100	Perforations: From 6854 To 7002	
Thq. Size 2.375	Wt. 4.70	d 1.995	Set At 6867	Perforations: NO PERFORATIONS From To	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 6797	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12	
Baro. Press. - P _a 12		State New Mexico			
L 6857	H	Gg 0.700	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps	

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"				1700				7 days
1.							107	65°			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 Q, Mcfd
1	12.3650		119	0.9952	0.9258	1.012	1372
2.							
3.							
4.							
5.							

NO.	P _t	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 _c 1712	P _c ² 2,930,944				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	
1			63,248	2,867,696	
2					
3					
4					
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0221 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0165$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1395$$

Absolute Open Flow 1395 Mcfd @ 15.025 Angle of Slope 0 Slope, n 0.75

Remarks:

Approved By Division	Conducted By: John Cole	Calculated By: Kenneth E. Roddy	Checked By:
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