

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 9-12-80																															
Company SUPRON ENERGY CORPORATION				Connection El Paso Natural Gas Company																																
Pool Blanco				Formation Mesaverde		Unit																														
Completion Date 8-14-80		Total Depth 4650		Plug Back TD 4604		Elevation 6178																														
Csg. Size 4.500		Wt. 9.50	d 4.090	Set At 4645	Perforations: From 4241 To 4571																															
Tbg. Size 2.0625		Wt. 3.25	d 1.750	Set At 4508	Perforations: From 4438 To 4444																															
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single - Gas				Packer Set At ---		County San Juan																														
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12																														
L 4428	H	G _g 0.650	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps																														
FLOW DATA				TUBING DATA		CASING DATA																														
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F																														
1	2"		3/4"																																	
2																																				
3																																				
4																																				
5																																				
						Duration of Flow																														
						7 days																														
						3 hours																														
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}																														
1	12.3650		153	0.9850	0.9608	1.013																														
2																																				
3																																				
4																																				
5																																				
NO.	P _r	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> $P_c = 810$ $P_c^2 = 656,100$ (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4132$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2961$ </p> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>NO.</td> <td>P_i²</td> <td>P_w</td> <td>P_w²</td> <td>P_c² - P_w²</td> </tr> <tr> <td>1</td> <td></td> <td>438</td> <td>191,844</td> <td>464,256</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p> $ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2351$ </p>							NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	1		438	191,844	464,256	2					3					4					5				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²																																
1		438	191,844	464,256																																
2																																				
3																																				
4																																				
5																																				
Absolute Open Flow			2351	Mcf @ 15.025	Angle of Slope @	Slope, n 0.75																														
Remarks:																																				
Approved By Commission:		Conducted By: Mike Smith		Calculated By: Kenneth E. Roddy		Checked By:																														

