

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

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 5-23-77																																																																																																	
Company: Aztec Oil & Gas Company				Connection: Southern Union Gathering																																																																																																			
Pool: Blanco				Formation: Mesa Verde				Unit:																																																																																															
Completion Date: 5-14-77		Total Depth: 5100'		Plug Back TD: 4900'		Elevation: 5872'		Farm or Lease Name: Culpepper Martin																																																																																															
Csg. Size: 7.000	Wt. 20#	d. 6.456	Set At 2538	Perforations: 4597' To 4859'		Well No. #10-A																																																																																																	
Tbg. Size: 4.500	Wt. 11.60#	d. 4.000	Set At 2346-50	Perforations: From To		Unit Sec. Twp. Rge. D 32, T32N, R12W																																																																																																	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: - - - -		County: San Juan																																																																																															
Producing Thru Tbg		Reservoir Temp. *F @		Mean Annual Temp. *F		Baro. Press. - P _a : 12.2		State: New Mexico																																																																																															
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h_w</th> <th>Temp. *F</th> <th>Press. p.s.i.g.</th> <th>Temp. *F</th> <th>Press. p.s.i.g.</th> <th>Temp. *F</th> </tr> <tr> <td>SI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>765</td> <td></td> <td>814</td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td>2"</td> <td>X</td> <td>3/4"</td> <td></td> <td></td> <td></td> <td>243</td> <td></td> <td>538</td> <td></td> <td></td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>219</td> <td></td> <td>491</td> <td></td> <td></td> </tr> <tr> <td>3.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>199</td> <td></td> <td>443</td> <td></td> <td>3 hrs</td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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							765		814			1.	2"	X	3/4"				243		538			2.							219		491			3.							199		443		3 hrs	4.												5.											
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RATE OF FLOW CALCULATIONS																																																																																																							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd																																																																																																
1	12.365		211.2	1.0000	.9258	1.0000	2418																																																																																																
2.																																																																																																							
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NO.	P _t	Temp. *R	T _r	Z	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. _____ P.S.I.A. Critical Temperature _____ R _____ R																																																																																																		
1					XXXXXXXXXXXX																																																																																																		
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$P_c = 826.2$ $P_c^2 = 682,606$ (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4359$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3117$																																																																																																							
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²																																																																																																			
1		455.2	207,207	475,399																																																																																																			
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AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3172$																																																																																																							
Absolute Open Flow 3172 Mcfd @ 15.025					Angle of Slope 0.75			Slope, n .75																																																																																															
Remarks:																																																																																																							
Approved By Commission:			Conducted By: Cliff Pistole			Calculated By: James Smith			Checked By:																																																																																														