

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 5/29/81																																																																																			
Company Amoco Production Company				Connection NWPL																																																																																					
Pool Otero				Formation Chacra		Unit																																																																																			
Completion Date 4/21/81		Total Depth 5390		Plug Back TD 5311		Elevation 6583																																																																																			
Csg. Size 5.500		Wt. 14		Set At 5390		Perforations: From 3751 To 3862																																																																																			
Tub. Size 1 1/4		Wt. 2.33		Set At 3874		Perforations: From open To ended																																																																																			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Dual						Packer Set At 4050																																																																																			
Producing Thru Tubing		Reservoir Temp. °F ρ		Mean Annual Temp. °F		Baro. Press. - P _a																																																																																			
L		H		G _g		% CO ₂																																																																																			
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						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>1</td> <td>24 days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>887</td> <td></td> <td>887</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>2.375</td> <td></td> <td>.750</td> <td></td> <td></td> <td></td> <td>165</td> <td></td> <td>605</td> <td></td> <td>3 hrs.</td> </tr> <tr><td>3</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>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	1	24 days						887		887			2	2.375		.750				165		605		3 hrs.	3												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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd																																																																																		
1	12.365		177	1.000	.9608	1.017	2139																																																																																		
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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 X X X																																																																																	
4					Critical Pressure _____ P.S.I.A.			P.S.I.A. COM.																																																																																	
5					Critical Temperature _____ °R			°R																																																																																	
P_c 899 P_c² 808201 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>P_r</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr> <td>1</td> <td></td> <td>617</td> <td>380689</td> <td>427512</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> (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8905$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3449$ (2) $\left[\frac{P_c}{P_c^2 - P_w^2} \right]^n = 1.6122$												NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	1		617	380689	427512	2					3					4					5																																																				
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Absolute Open Flow 3449					Mcf @ 15,025			Angle of Slope θ		Slope, n .75																																																																															
Remarks: Light oil flow																																																																																									
Approved By Commission				Conducted By: JJB				Calculated By: J. J. Barnett																																																																																	
								Checked By:																																																																																	