

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 10-31-77																																																																																																	
Company Northwest Pipeline Corp.				Connection New Completion																																																																																																			
Pool Blanco				Formation Pictured Cliffs				Unit San Juan 29-5																																																																																															
Completion Date 10-4-77		Total Depth 3722		Plug Back TD 3702		Elevation 6615 GR		Farm or Lease Name San Juan 29-5 Unit																																																																																															
Csg. Size 2.875	Wt. 6.4	d 2.441	Set At 3722	Perforations: From 3558 To 3630		Well No. Com. #80																																																																																																	
Tbg. Size None	Wt.	d	Set At	Perforations: From To		Unit Sec. Twp. Rge. G 23 29 5																																																																																																	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Tubingless Completion						Packer Set At None		County Rio Arriba																																																																																															
Producing Thru Casing		Reservoir Temp. °F e		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico																																																																																															
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover Positive Choke		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></td> <td></td> <td>1022</td> <td></td> <td>SIP</td> </tr> <tr> <td>1.</td> <td>2</td> <td>X</td> <td>.750</td> <td>167</td> <td></td> <td>58⁰</td> <td></td> <td></td> <td>167</td> <td></td> <td>3 hrs.</td> </tr> <tr><td>2.</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>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	SI									1022		SIP	1.	2	X	.750	167		58 ⁰			167		3 hrs.	2.												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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd																																																																																																
1	9.402		179	1.002	1.204	1.020	2071																																																																																																
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NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ X X X X X X X X Specific Gravity Flowing Fluid _____ X X X X X Critical Pressure _____ P.S.I.A. _____ P.S.I.A. Critical Temperature _____ R _____ R																																																																																																		
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P _c 1034 P _c ² 1069156 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>P_t²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr> <td>1</td> <td></td> <td>232</td> <td>53824</td> <td>1015332</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>					NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1		232	53824	1015332	2					3					4					5					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0530$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0449$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2164$																																																																				
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Absolute Open Flow 2164 Mcfd @ 15.025					Angle of Slope θ _____ Slope, n .85																																																																																																		
Remarks: Well produced light mist of water with some sand.																																																																																																							
G1 1-e-s FcO ² R ² Pt ² Pt ² + R ² Calc. PW 2455 164 132161 21674 32041 53715 232																																																																																																							
Approved By Commission:			Conducted By: Fred Hamrick			Calculated By: B.J. Broughton			Checked By:																																																																																														