

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 12-8-77																																																																																																	
Company Northwest Pipeline Corp.				Connection New Completion																																																																																																			
Pool Blanco				Formation Mesa Verde				Unit San Juan 29-6																																																																																															
Completion Date Dec. 1, 1977		Total Depth 5833		Plug Back TD 5792		Elevation 6536		Farm or Lease Name San Juan 29-6 Unit																																																																																															
Csg. Size 7.000	Wt. 20. #	d 6.457	Set At 3754	Perforations: From 5302 To 5742		Well No. #59A																																																																																																	
Thq. Size 4.500	Wt. 10.5 #	d 4.052	Set At 3615-5826	Perforations: From To		Unit Sec. Twp. Rge. I 5 29 6																																																																																																	
2.375	4.7	1.995	5721	From To																																																																																																			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single						Packer Set At None		County Rio Arriba																																																																																															
Producing Thru Tubing		Reservoir Temp. °F a		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>847</td> <td></td> <td>882</td> <td></td> <td>SIP</td> </tr> <tr> <td>1.</td> <td>2</td> <td>X</td> <td>.750</td> <td>300</td> <td></td> <td>59°</td> <td>300</td> <td></td> <td>738</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							847		882		SIP	1.	2	X	.750	300		59°	300		738		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	9.604		312	1.001	1.240	1.037	3857																																																																																																
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NO.	P _t	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_c 894 P_c² 799236

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		750	562500	236736
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.3761$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.4986$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9606$

Absolute Open Flow <u>9606</u> Mcfd @ 15.025		Angle of Slope θ _____	
Remarks: <u>Well produced medium mist of water with a trace of condensate.</u>			

Approved By Commission:	Conducted By: Fred Hamrick	Calculated By: B.J. Broughton	Checked By:
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