

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 10-30-81																															
Company Northwest Pipeline Corporation				Connection New Completion																															
Pool Blanco				Formation Mesa Verde																															
Completion Date 10-19-81		Total Depth 5720'		Plug Back TD 5684'																															
		Elevation 6280'		Farm or Lease Name San Juan 31-6 Unit																															
Csg. Size 7.000		Wt. 20.0		d 6.456																															
4.500		10.5		Set At 3357' - 3560'																															
Perforations: From 5130'		To 5607'		Well No. #3A																															
Trq. Size 2.375		Wt. 4.7		d 1.995																															
		Set At 5464'		Perforations: From To																															
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single Completion				Packer Set At None																															
Producing Thru Tubing				Baro. Press. - P _a 12.0																															
Reservoir Temp. *F 6				Mean Annual Temp. *F																															
L H G _g est. .580				% CO ₂ % N ₂ % H ₂ S																															
Prover positive choke				Meter Run Taps																															
FLOW DATA																																			
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w																														
1.	2"	X	.750	217	66°																														
2.																																			
3.																																			
4.																																			
5.																																			
TUBING DATA																																			
	Press. p.s.i.g.	Temp. *F																																	
	860																																		
	217																																		
CASING DATA																																			
	Press. p.s.i.g.	Temp. *F																																	
	867																																		
	528																																		
Duration of Flow SIP 3 hrs.																																			
RATE OF FLOW CALCULATIONS																																			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g																														
1.	9.604		229	.994	1.313																														
2.																																			
3.																																			
4.																																			
5.																																			
NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio																														
1.					A.P.I. Gravity of Liquid Hydrocarbons																														
2.					Specific Gravity Separator Gas																														
3.					Specific Gravity Flowing Fluid																														
4.					Critical Pressure																														
5.					Critical Temperature																														
RECEIVED DEC 11 1981 OIL CON. COM. DIST. 3																																			
P_c 879 P_c² 772641 <table border="1" style="width: 100%;"> <tr> <th>NO.</th> <th>P_r²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr> <td>1</td> <td></td> <td>540</td> <td>291600</td> <td>481041</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) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6062$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4267$ AOF = C $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4165$						NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	1		540	291600	481041	2					3					4					5				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²																															
1		540	291600	481041																															
2																																			
3																																			
4																																			
5																																			
Absolute Open Flow <u>4165</u> Mcf @ 15.025 Angle of Slope θ Slope, n <u>.75</u>																																			
Remarks: <u>Produced light mist of water with a trace of condensate. Vented 395 MCF.</u>																																			
Approved By Commission:		Conducted By: Fred S. Hamrick		Calculated By: B.J. Broughton																															
				Checked By: <i>[Signature]</i>																															