

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 5-30-80																															
Company Northwest Pipeline Corp.			Connection New Completion																																
Pool South Los Pinos			Formation <i>Fruitland</i> Pictured Cliffs		Unit San Juan 32-7																														
Completion Date 5-15-80		Total Depth 3752'	Plug Back TD 3730'		Elevation 6657'																														
Csg. Size 2.875		Wt. 6.4	d 2.441	Set At 3723'	Perforations: From 3420' To 3432'																														
Thq. Size None		Wt.	d	Set At	Perforations: From To																														
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Tubingless Completion				Packer Set At None																															
Producing Thru Casing		Reservoir Temp. °F a	Mean Annual Temp. °F 12.0		Baro. Press. - P _a New Mexico																														
L	H	G _g est. .680	% CO ₂	% N ₂	% H ₂ S																														
				Prover positive choke																															
FLOW DATA			TUBING DATA		CASING DATA																														
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w																														
1.	2"	X	.750"	150	57 ⁰																														
2.																																			
3.																																			
4.																																			
5.																																			
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		162	1.003	1.214																														
2.																																			
3.																																			
4.																																			
5.																																			
NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio																														
1.					A.P.I. Gravity of Liquid Hydrocarbon																														
2.					Specific Gravity Separated Gas																														
3.					Specific Gravity Flowing Fluid																														
4.					Critical Pressure																														
5.					Critical Temperature																														
P_c 1438 P_c² 2067844 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>NO.</td> <td>P_i²</td> <td>P_w</td> <td>P_w²</td> <td>P_c² - P_w²</td> </tr> <tr> <td>1</td> <td></td> <td>210</td> <td>44100</td> <td>2023744</td> </tr> <tr> <td>2</td> <td></td> <td>(Calc.)</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 _i ²	P _w	P _w ²	P _c ² - P _w ²	1		210	44100	2023744	2		(Calc.)			3					4					5				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²																															
1		210	44100	2023744																															
2		(Calc.)																																	
3																																			
4																																			
5																																			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0218$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0185$ ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1968$																																			
Absolute Open Flow 1968 Mcfd @ 15.025				Angle of Slope θ																															
Slope, n .85																																			
Remarks: Produced light of water through out test.																																			
GL 1-e-s. (F_c Q₂) R² P_t² R²+ P_t² Calc. PW 2326 .156 115016 17942 26244 44186 210																																			
Approved By Commission:		Conducted By: John Wright		Calculated By: B.J. Broughton																															
				Checked By:																															