

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 1-2-80																															
Company Northwest Pipeline Corp.				Connection New Completion																															
Pool Basin				Formation Dakota																															
Completion Date 12-23-79		Total Depth 7870		Plug Back TD 7848																															
				Elevation 6422																															
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 7860	Perforations: From 7804 To 7818																															
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 7783	Perforations: From To																															
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single				Factor Set At None																															
Producing Thru Tubing				Baro. Press. - P _g 12.0																															
Reservoir Temp. °F #				State New Mexico																															
L	H	G _g .582	% CO ₂	% N ₂	% H ₂ S																														
				Prover Pos. Choke																															
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																															
1.	2"	X	.750	274	560																														
2.																																			
3.																																			
4.																																			
5.																																			
RATE OF FLOW CALCULATIONS																																			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g																														
					Super Compress. Factor, F _{pv}																														
1	9.604		286	1.004	1.311																														
2.																																			
3.																																			
4.																																			
5.																																			
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcl/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 2575 P_w^2 6630625 <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th>NO.</th> <th>P₁²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr> <td>1</td> <td></td> <td>1015</td> <td>1030225</td> <td>5600400</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 ₁ ²	P _w	P _w ²	P _c ² - P _w ²	1		1015	1030225	5600400	2					3					4					5				
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²																															
1		1015	1030225	5600400																															
2																																			
3																																			
4																																			
5																																			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1840$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1850$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4189$																																			
Absolute Open Flow 4189 Mcl @ 15.025 Angle of Slope θ _____ Slope, n .75																																			
Remarks: Well produced mist of water through out test																																			
Approved By Commission:		Conducted By: Fred Hamrick		Calculated By: B.J. Broughton																															
Checked By:																																			

CONFIDENTIAL