

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-13-81																															
Company Northwest Pipeline Corporation				Connection New Well																															
Pool Blanco				Formation Mesa Verde																															
Completion Date 2/20/81		Total Depth 4535'		Plug Back TD 4504'																															
		Elevation 5934'		Farm or Lease Name Blanco																															
Csg. Size 7.000 4.500	Wt. 20.0 10.5	d 6.456 4.052	Set At 2315' 2094-4540	Perforations: From 4000' To 4478'																															
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 4323'	Perforations: From To																															
Type Well - Single - Brazenhead - G.G. or G.O. Multiple Gas-Single				Packer Set At None																															
Producing Thr. Tubing		Reservoir Temp. °F 8		Baro. Press. - P _a 12.0																															
L		H		G _g .60																															
				% CO ₂																															
				% N ₂																															
				% H ₂ S																															
				Proven positive choke																															
				Meter Run																															
				Taps																															
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																															
SI				Press. p.s.i.g.	Temp. °F																														
1.	2"	X	.750	137	60°																														
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																														
					Super Compress. Factor, F _{pv}																														
1	9.604		149	1.000	1.291																														
2.					1.012																														
3.																																			
4.																																			
5.																																			
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.																														
					A.P.I. Gravity of Liquid Hydrocarbons Deg.																														
1.					Specific Gravity Separator Gas X X X X X X X X																														
2.					Specific Gravity Flowing Fluid X X X X X																														
3.					Critical Pressure P.S.I.A. P.S.I.A.																														
4.					Critical Temperature R R																														
5.																																			
$P_c = 641$ $P_c^2 = 410881$ <table border="1" style="display: inline-table; margin-right: 20px;"> <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>356</td> <td>126736</td> <td>284145</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> $(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.4460$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3187$ $ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2466$						NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	1		356	126736	284145	2					3					4					5				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²																															
1		356	126736	284145																															
2																																			
3																																			
4																																			
5																																			
Absolute Open Flow 2466 Mcfd @ 15.025				Angle of Slope °																															
				Slope, n .75																															
Remarks: Blew med. mist throughout test - trace of oil.																																			
Approved By Commission:		Conducted By: Fred S. Hamrick		Checked By: BJB																															

BJB/skw