

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 2-01-82	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Blanco				Formation Mesa Verde		Unit San Juan 32-7	
Completion Date 12-11-81		Total Depth 5850'		Plug Back TD 5720'		Elevation 6435'	
Form or Lease Name San Juan 32-7 Unit		Well No. #41A MV		Perforations: From 5326' To 5684'		Unit Sec. Twp. Rge. N 7 32N 7W	
Casing Size 4.500		Wt. 10.5		Set At 3467' - 5850'		Perforations: From To	
Tub. Size 2.375		Wt. 4.7		Set At 5639'		Perforations: From To	
Type Well - Single - Blindhead - G.G. or G.O. Multiple Gas - Multiple Completion				Packer Set At 3435'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.0		State New Mexico	
L		H		Gg est. .590		% CO ₂ % N ₂ % H ₂ S	
						Positive Choke	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
1.	2"	X	.750"	203		64°	SIP 3 hrs.
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}	Rate of Flow Q, Mcfd
1.	9.604		215	.996	1.302	1.017	2723
2.							
3.							
4.							
5.							
NO.	P _r	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		
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		
$P_c = 1123$ $P_c^2 = 1261129$					(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.1746$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.1283$		
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²			
1.		433	187489	1073640			
2.		(calc.)					
3.							
4.							
5.							
Absolute Open Flow 3072 Mcfd @ 15.025 Angle of Slope 0 Slope, n .75							
Remarks: Produced light to medium mist of water throughout test. Vented 372 MCF.							
GI		1-e-s		FcQ ²		R ² Pt ² Pt ² +R ² Calc. Pw	
3327		.215		655444		140921 46225 187146 433 PSIA	
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	
		Fred S. Hamrick		B.J. Broughton		B.B.	