

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 10-23-81	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Basin				Formation Dakota		Unit San Juan 30-5	
Completion Date 10-08-81		Total Depth 8682'		Plug Back TD 8637'		Elevation 8790'	
Csg. Size 4.500		Wt. 10.5		Set At 8682'		Perforations: From 8618' To 8634'	
Tbg. Size 2.375		Wt. 4.7		Set At 8622'		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single Completion						Packer Set At None	
Producing Thru Tubing		Reservoir Temp. *F 8		Mean Annual Temp. *F		Baro. Press. - P _a 12.0	
L		H		G _g est. .60		% CO ₂ % N ₂ % H ₂ S 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	Press. p.s.i.g.
SI							
1.	2"	X	.750	143		68 ⁰	2791
2.							143
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 _{sp}	Rate of Flow Q, Mcfd
1	9.604		155	.992	1.291	1.011	1927
2.							
3.							
4.							
5.							
NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl A.P.I. Gravity of Liquid Hydrocarbons _____ Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ X X X X X Critical Pressure _____ P.S.I.A. Critical Temperature _____ R		
1							
2.							
3.							
4.							
5.							
P _c	2885	P _c ²	8323225				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1		709	502681	7820544			
2.							
3.							
4.							
5.							
					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0643$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0478$ AOF = C $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2019$		
Absolute Open Flow 2019 Mcfd @ 15.025					Angle of Slope @		Slope, n 75
Remarks: Produced heavy mist of water throughout test. Vented 277 MCF.							
Approved By Commission:		Conducted By: Fred S. Hamrick		Calculated By: B.J. Broughton		Checked By: B.B.B.	