

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

Form C-122
Revised 5-1-65

Type Test ☒ Initial ☐ Annual ☐ Special 6-21-78														
Northwest Pipeline Corporation New Completion														
Basin					Dakota					San Juan 29-5				
Completion Date			Total Depth			Plug Back TD			Elevation			Farm or Lease Name		
8/12/78			8802			8788			7440			San Juan 29-5 Unit		
Csg. Size		Wt.		d		Set At		Perforations:			Well No.			
4.500		10.5		4.052		8798		From 8724 To 8736			#90			
Tng. Size		Wt.		d		Set At		Perforations:			Unit Sec. Twp. Rge.			
2.375		4.7		1.995		8724		From To			N 35 29 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple										Packer Set At		County		
Gas - Single										None		Rio Arriba		
Producing Thru			Reservoir Temp. °F			Mean Annual Temp. °F			Baro. Press. - P _g			State		
Tubing			8						12.0			New Mexico		
L		H		Gg		% CO ₂		% N ₂		% H ₂ S		Prover Positive Choke		
				.590										
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.	Temp. °F	Press. p.s.i.g.	Temp. °F	of Flow			
SI							2018		1929		SIP			
1.	2"	X	.750	264		74°	264		1119		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, Mscf/d							
1	9.604		276	.987	1.302	1.018	3468							
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 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 2030 P _c ² 4120900														
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4501$ $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3215$									
1		1131	1279161	2841739										
2														
3														
4														
5					ACF = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4583$									
Absolute Oper. Flow 4583 Mscf @ 15.025					Angle of Slope θ					Slope, n .75				
Remarks: Well unloaded approximately 5 bbls of water @ start of test then cleared to light mist for remainder of test.														
Approved By Commission:				Conducted By: Bill Beevers				Calculated By: B.J. Broughton				Checked By:		