

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

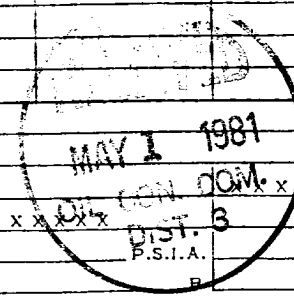
Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-14-81	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Basin				Formation Dakota		Unit San Juan 31-6	
Completion Date 3-06-81		Total Depth 8106'		Plug Back TD 8030'		Elevation 6531'	
Csg. Size 4.500		Wt. 10.5		Set At 8084'		Perforations: From 7952' To 7980'	
Trq. Size 2.375		Wt. 4.7		Set At 7945'		Perforations: From 7920' To 7934'	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas - Single				Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
L		H		G _g est. .585		% CO ₂	
						% N ₂	
						% H ₂ S	
						Prover 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.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2906		2910		SIP
1.	2"	X	.750	174		58 ⁰	174		748		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.604		186	1.002	1.307	1.013	2370
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R



P _c 2922	P _c ² 8538084	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0726$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0539$
NO.	P _t ²	P _w	P _w ²
1		760	577600
2			
3			
4			
5			

ACF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2498$
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Absolute Open Flow	2498	Mcf/d @ 15.025	Angle of Slope @	Slope, n	75
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Remarks: Produced heavy mist of water throughout test. Vented 331 MCF.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
			R. O.