

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 4-16-81							
Company Northwest Pipeline Corporation				Connection New Completion							
Pool Basin				Formation Dakota							
Completion Date 4-07-81		Total Depth 7970'		Plug Back TD 7950'							
		Elevation 6444'		Farm or Lease Name San Juan 31-6 Unit							
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 7970'	Perforations: From 7832' To 7888'							
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 7831'	Perforations: From To							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single				Packer Set At None							
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F 12.0							
L		H		County Rio Arriba							
Gg est. .585		% CO ₂		% N ₂							
				% H ₂ S							
				Prover positive choke							
				Meter Run							
				Taps							
FLOW DATA TUBING DATA CASING DATA											
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	Duration of Flow
SI							2881		2881		SIP
1.	2	X	.750	210		62°			772		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 _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	9.604		222	.998	1.307	1.017	2828				
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 _____ 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 2893 P _c ² 8369449					RECEIVED MAY 1 1981 OIL CON. COM. DIST. 3						
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0793$			
1		784	614656	7754793				(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0589$			
2											
3											
4					ACF = C $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,995$						
5											
Absolute Open Flow 2,995 Mcfd @ 15.025					Angle of Slope @ _____		Slope, n .75				
Remarks: Produced medium mist of water throughout test. Vented 399 MCF.											
Approved By Commission:		Conducted By: Fred S. Hamrick		Calculated By: B.J. Broughton		Checked By:					

R.1R /c l/w