

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 6/28/83	
Company Northwest Pipeline Corporation				Connection New Completion	
Pool Basin				Formation Dakota	
Completion Date 05/20/83		Total Depth 8526'		Plug Back TD 9475'	
				Elevation 7128' KD	
Form or Lease Name San Juan 30-5 Unit					
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 8526'	Perforations: From 8411' To 8449'	
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 8377'	Perforations: From To	
Type well - Single - Frozenness - G.G. or G.O. Multiple Gas - Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. *F a		Baro. Press. - P _a 12.0	
		Mean Annual Temp. *F		State New Mexico	
L	H	G _g Est. .590	% CO ₂	% N ₂	% H ₂ S
				Positive Choke	
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.
51	SIP				2734
1.	2"	X	.750"	73	64°
2.					73
3.					64°
4.					332
5.					64°
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}
1	9.604		85	.996	1.302
2.					1.006
3.					
4.					
5.					
NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcl/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.					
$P_c = 2746$ $P_c^2 = 7540516$					
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0210$
1		394	155236	7385280	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0157$
2					
3					
4					
5					
$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1082$					
Absolute Open Flow 1082 Mcl @ 15.025 Angle of Slope 75					
Remarks: Produced heavy mist throughout test. Vented 217 MCF.					
Approved By Commission:		Conducted By: F.S. Hamrick		Calculated By: M.J. Turnbaugh	
				Checked By:	

skw