

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

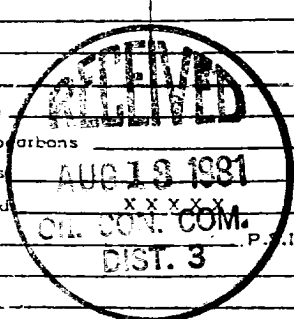
Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-29-81	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Blanco				Formation Mesa Verde		Unit San Juan 31-6	
Completion Date 7-20-81		Total Depth 5620'		Plug Back TD 5550'		Elevation 6208'	
Farm or Lease Name San Juan 31-6 Unit		Well No. #5A		Perforations: From 5088' To 5513'			
Type Well - Single - Braconnard - G.C. or G.O. Multiple Gas - Single		Packer Set At None		County Rio Arriba		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.0		Baro. Press. - P _a positive choke	
L	H	G _g est. .580	% CO ₂	% N ₂	% H ₂ S	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	
1.	2"	X	.750	280		620	280		662		SIP
2.											3 hrs.
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, Mcfd
1.	9.604		292	.998	1.313	1.020	3748'
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										



P _c 1104	P _c ² 1218816	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5942$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4187$
NO. 1	P _w ² 674	P _w ² 454276	P _c ² - P _w ² 764540
2.			
3.			
4.			
5.			

AOFC = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5317$
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Absolute Open Flow	5317	Mcfd @ 15.025	Angle of Slope @	Slope, n	75
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Remarks: Produced light mist of water throughout test. Vented 469 MCF

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
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