

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 11-25-81	
Company Northwest Pipeline Corporation						Connection New Completion	
Pool Blanco						Formation Mesa Verde	
Completion Date 11-12-81				Total Depth 6094'		Plug Back TD	
				Elevation 6632'		Farm or Lease Name San Juan 32-7 Unit	
79.000 4.500	WI. 20.0 10.5	d 6.456 4.052	Set At 3900' 3693'-6090'	Perforations: From 5642' To 5973'		Well No. #28A	
Trg. Size 2.375	WI. 4.7	d 1.995	Set At 5900'	Perforations: From To		Unit Sec. Twp. Rys. C 35 32N 7W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single Completion						Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
L		H		G _g		County San Juan	
				.590		State New Mexico	
				% CO ₂		Meter Run	
				% N ₂		Taps	
				% 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.	Temp. °F	
SI							1113		1113		SIP
1.	2"	X	.750	202		68°	202		518		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, Mcf/d
1	9.604		214	.992	1.302	1.016	2697
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.										

$P_c = 1125$ $P_c^2 = 1265625$					$(1) \frac{P_c^2}{P_e^2 - P_w^2} = 1.2853$		$(2) \left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.2071$	
NO.	P ₁ ²	P _w	P _w ²	P _e ² - P _w ²				
1		530	280900	984725				
2								
3								
4								
5								

$ACF = Q \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 3256$				
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Absolute Open Flow 3256		Mcf @ 15.025	Angle of Slope °	Slope, n .75
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Remarks: Well produced light mist of water with a trace of condensate. Vented 403 MCF/D.

Approved By Commission:	Conducted By: Fred S. Harrick	Calculated By: B.J. Broughton	Checked By:
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