

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 10/28/82	
Company Northwest Pipeline Corporation				Connection New Completion	
Pool Gobernador				Formation Pictured Cliffs	
Completion Date 10-09-82		Total Depth 5932'		Plug Back TD 3710'	
		Elevation 6638'		Farm or Lease Name San Juan 30-5 Unit	
Gas Flow 7.000	Wt. 20.0	d 6.456	Set At 3920	Perforations: From 3484' To 3690'	
4.500	10.5	4.052	3732'-5932'		
1.660	2.33	1.380	3647'		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Multiple Completion				Packer Set At 3710'	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
				Baro. Press. - P _a 12.0	
L		H		County Rio Arriba	
G _g est. .620		% CO ₂		% N ₂	
				% H ₂ S	
				Positive Choke	
				Meter Run	
				Taps	
STATE New Mexico					

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.	
1.	Shut-in Pressure						1166		1166	
2.	2" X .750"			106		50°	106		789	
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		118	1.010	1.270	1.013	1473
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.										

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1.	1178	801	11387684	641601	746083
2.					
3.					
4.					
5.					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.8600$		(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.6946$	
ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2496$			

Absolute Open Flow	2496	Mcfd @ 15.025	Angle of Slope @	Slope, n	.85
--------------------	------	---------------	------------------	----------	-----

Remarks: Produced medium mist of water. Vented 184 MCF.

Approved By Commission:	Conducted By: Fred S. Hamrick	Calculated By: B.J. Broughton	Checked By: B.C.C.
-------------------------	----------------------------------	----------------------------------	-----------------------