

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 10-19-81	
Company Northwest Pipeline Corporation		Connection New Completion	
Pool Gobernador		Formation Pictured Cliffs	
Completion Date 9-29-81		Total Depth 6165'	Plug Back TD 3910'
		Elevation 6429'	Unit San Juan 30-5
Perforations: From 3758' To 3846'		Farm or Lease Name San Juan 30-5 Unit	
Well No. #74 PC			
Gr. G. 7.000	Wt. 20.0	d 6.456	Set At 4135'
4.500	10.5	d 4.052	3967'-6160'
Trg. Size	Wt.	d	Set At
1.660	2.3	1.380	3760'
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas - Multiple Completion		Packer Set At 3910'	County Rio Arriba
Producing Thru Tubing	Reservoir Temp. °F 8	Mean Annual Temp. °F	Baro. Press. - P _a 12.0
State New Mexico		Meter Run	Taps
L	H	G _g est. .620	% 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.	
SI							1153		1153	
1.	2"	X	.750	71		55 ⁰	71		398	
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, Mc/d
1	9.604		83	1.005	1.270	1.007	1025
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 _w ²	P _r ² - P _w ²
1	1165	410	168100	1189125
2				
3				
4				
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.1414$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1147$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1190$

Absolute Open Flow	1147	Mcf @ 15.025	Angle of Slope	Slope, n	.85
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Remarks: Produced light mist of water with a trace of condensate. Vented 187 MCF.

Approved By Commission:	Conducted By: Fred S. Hamrick	Calculated By: B.J. Broughton	Checked By: <i>[Signature]</i>
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RJR/cbw