

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 10-12-81	
Company Northwest Pipeline Corporation				Connection New Completion	
Pool Blanco				Formation Mesa Verde	
Completion Date 9-29-81		Total Depth 6165'		Plug Back TD 6125'	
Elevation 6429'		Unit San Juan 30-5			
Formation Blanco		Set At 4135'		Perforations: From 5713' To 6098'	
Well No. #74 MV		Farm or Lease Name San Juan 30-5 Unit			
Trq. Size 2.378		Wt. 4.7		Set At 6041'	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Multiple Completion		Packer Set At 3910'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 6		Mech. Annual Temp. °F 12.0	
State New Mexico		Baro. Press. - P _a 12.0		Positive Choke	
L		H		Meter Run	
G _g est. .590		% CO ₂		% N ₂	
% H ₂ S		Positive Choke		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"	137		60	1154		Packer		SIP
2.							137				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, std
1.	9.604		149	1.000	1.302	1.010	1882
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons <td>Deq.</td>	Deq.
2.					Specific Gravity Separator Gas <td>X X X X X X X X</td>	X X X X X X X X
3.					Specific Gravity Flowing Fluid <td>X X X X X</td>	X X X X X
4.					Critical Pressure <td>P.S.I.A.</td>	P.S.I.A.
5.					Critical Temperature <td>R</td>	R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²
1.	1166	306	93636	1265920
2.				
3.				
4.				
5.				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0740$

ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1985$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0550$

Absolute Open Flow	1985	Mcf @ 15.025	Angle of Slope	75
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Remarks: Produced medium mist of water throughout test. Vented 281 MCF

G _l	1-e-s	(F _{co})	R ²	P _t ²	P _t ² + R ²	Calc. P _w
3564	.228	313098	71386	22201	93537	306 PSIA

Approved by Commission:	Conducted By: Fred S. Hamrick	Calculated By: R. J. Broughton	Checked By: [Signature]
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