

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 12-16-80	
Company Northwest Pipeline Corporation				Connection New Completion	
Pool Basin				Formation Dakota	
Completion Date 11-29-80		Total Depth 7906'		Plug Back TD 7870'	
				Elevation 6467'	
Farm or Lease Name San Juan 30-5 Unit				Well No. #71	
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 7906'	Perforations: From 7770 To 7794	
Tubg. Size 2.375	Wt. 4.7	d 1.995	Set At 7759	Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F 12.0	
				Baro. Press. - P _a 12.0	
L	H	G _g .60	% CO ₂	% N ₂	% H ₂ S positive choke
				County Rio Arriba	
				State New Mexico	
				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	
SI							2691		2702		SIP
1.	2"	X	.750	158		59 ⁰	158		602		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, Mcfd
1	9.604		170	1.001	1.291	1.016	2145
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 _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _r 2714	P _c ² 7365736	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0539$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0402$
NO. 1	P _r ² 614	P _w ² 376996	P _r ² - P _w ² 6988800
2.			
3.			
4.			
5.			

ACF = Q $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 2231$

Absolute Open Flow 2231 Mcfd @ 15.025 Angle of Slope 0 Slope, n .75

Remarks: Produced medium mist of water throughout test.

Approved By Commission:	Conducted By: Chik Charley	Calculated By: B.J. Broughton	Checked By: <i>[Signature]</i> 503/SKM
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