

**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 5-27-81	
Company Northwest Pipeline Corporation				Connection New Completion	
Pool Basin				Formation Dakota	
Completion Date 5-15-81		Total Depth 8307'		Elevation 6715'	
Csg. Size 4.500		Wt. 10.5		Set At 8307'	
Thq. Size 2.375		Wt. 4.7		Set At 8209'	
Perforations: From 8208' To 8276'				Well No. #68	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F 12.0	
L		H		Baro. Press. - P _a New Mexico	
G _g est. 580		% CO ₂		% N ₂	
				% H ₂ S	
Prover positive choke				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							2725		2716		SIP
1.	2"	X	.750	90		61°	90		515		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.604		102	.9990	1.313	1.010	1298
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 X
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 2737	P _c ² 7491169	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0385$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0287$
NO	P _r ²	P _w	P _w ²
1		527	277729
2			
3			
4			
5			

ACF = Q	$\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1335$
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Absolute Open Flow	1335	Mcf/d @ 15.025	Angle of Slope °	Slope, n	.75
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Remarks: Produced heavy mist of water throughout test. Vented 243 MCF.

Approved By Commission:	Conducted By: John Wright	Calculated By: John T. Harris	Checked By: B.J. Broughton
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