

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 5/24/83	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Basin				Formation Dakota		Unit San Juan 31-6	
Completion Date 5/07/83		Total Depth 8063'		Plug Back TD 8032'		Elevation 6493' KB	
Csg. Size 4.500		Wt. 11.6		Set At 8063'		Perforations: From 7940' To 7989'	
Tng. Size 2.375		Wt. 4.7		Set At 7920'		Perforations: From To	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas - Single				Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
L		H		Gg est. .590		% CO ₂	
				% N ₂		% H ₂ S	
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	SIP						2788		2788		
1.	2"	X	.750"	146		67°	146	67°	608	67°	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		158	.993	1.302	1.013	1.987
2.							
3.							
4.							
5.							

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

P _c 2800	P _c ² 7840000		
NO. 1	P ₁ ² 620	P _w 384400	P _c ² - P _w ² 7455600
2.			
3.			
4.			
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0516$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2063$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0384$

Absolute Open Flow	2063	Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Produced medium mist of H₂O throughout test. No condensate. Vented 308 MCF.

Approved By Commission:	Conducted By: Fred S. Hamrick	Calculated By: M.J. Turnbaugh	Checked By:
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skw