

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPLE POINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-61

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5/9/83			
Company Northwest Pipeline Corporation				Connection New Completion					
Pool Basin				Formation Dakota				Unit San Juan 31-6	
Completion Date 4/27/83		Total Depth 8060'		Plug Back TD 8025'		Elevation 6499' KB		Farm or Lease Name San Juan 31-6 Unit	
Csg. Size 4.500	Wt. 11.6	d 4.052	Set At 8060'	Perforations: From 7922' To 7978'		Well No. #25			
Tng. Size 2.375	Wt. 4.7	d 1.995	Set At 7921'	Perforations: From To		Unit Sec. Twp. Rge. A 33 31 6			
Type Well - Single - Bradenhead - 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		State New Mexico	
L	H	G _g 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						2810		2810		
1.	2"	X	.750"	230		66	230	66	865	66	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		242	.994	1.302	1.017	3059
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. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2822	P _c ² 7963684	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1069$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0792$
NO. 1	P _r ² 877	P _w 769129	P _w ² 7194555
2.			
3.			
4.			
5.			

$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3301$

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Absolute Open Flow 3301	Mcfd @ 15.025	Angle of Slope @ _____	Slope, n .75
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Remarks: Produced light mist throughout test. Vented 457 MCF.

Approved By Commission:	Conducted By: Chik Charley	Calculated By: M.J. Turnbaugh	Checked By:
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skw