

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 11/29/92	
Company Northwest Pipeline Corporation				Connection New Completion	
Pool Basin		Formation Dakota		Unit San Juan 30-5	
Completion Date 10/29/83		Total Depth 8337'		Plug Back TD 8324'	
Elevation 6945' KB		Farm or Lease Name San Juan 30-5 Unit			
Csg. Size 4.500	Wt. 11.6	d 4.052	Set At 8337'	Perforations: From 8210' To 8250'	
Trg. Size 2.375	Wt. 4.7	d 1.995	Set At 8164'	Perforations: From To	
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	
State New Mexico		County Rio Arriba			
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						2700		2700		
1.	2"	X	.750"			62 ⁰	163	62 ⁰	673	62 ⁰	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604		175	.998	1.302	1.013	2212
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 2712 P _c ² 7354944		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0681$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0507$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	
1		685	469225	6885719	
2					
3					
4					
5					

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2324$

Absolute Open Flow	2324	Mcfd @ 15.025	Angle of Side	Slope, n	.75
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Remarks: Produced light mist after 45 mins. of blow. Vented 341 MCF.

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