

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 09/13/85	
Company Northwest Pipeline Corporation				Connection New Completion			
Pool Gobernador				Formation Pictured Cliffs		Unit San Juan 29-5	
Completion Date 08/24/85		Total Depth 6356'		Plug Back TD 3985'		Elevation 6969' KB	
Farm or Lease Name San Juan 29-5 Unit		Well No. #107 (PC)					
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6356'	Perforations: From 3712' To 3953'			
Tbg. Size 1.660	Wt. 2.33	d 1.380	Set At 3883'	Perforations: From To		Unit Sec. Twp. Rge. D 2 29N 5W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual				Packer Set At 3985'		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. .600	% 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						1139		1139		7 days
1.	2"	X	.750"			64 ⁰	48	64 ⁰	592	64 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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.604		60	.996	1.291	1.007	746
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	Deq.
2.					Specific Gravity Separator Gas	X X X X X X X X
3.					Specific Gravity Flowing Gas	X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	1151	604	364816	959985
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3800$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 981$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3149$

Absolute Open Flow	981	Mcf/d @ 15.025	Angle of Slope @	Slope, n .85
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Remarks: Produced light to medium mist with trace of paraffin throughout test.
Vented 93 MCF.

Approved By Commission:	Conducted By: Gip Aulbert	Calculated By: M.J. Turnbaugh	Checked By:
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