

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 12/02/82	
Company Northwest Pipeline Corporation				Connection New Completion	
Pool Blanco				Formation Mesa Verde	
Completion Date 11-19-82		Total Depth 5850'		Plug Back TD 5803'	
		Elevation 6388'		Farm or Lease Name Rosa Unit Com	
Csg. Size 4.500	Wt. 20.0	d 6.456	Set At 3800'	Perforations: From 5441' To 5778'	
	10.5	4.052	3620' - 5848'	Well No. #90	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 5659'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single Completion				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. *F 8		Baro. Press. - P _a	
L		H		County San Juan	
G _g est. .580		% CO ₂		State New Mexico	
		% N ₂		Meter Run	
		% H ₂ S		Tcps	
		Positive Choke			

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	Shut-in Pressures											
1.	2"	x	.750"	298		61°	298		1146	1159	696	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		310	.999	1.313	1.020	3983
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

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1	1171	708	501264	869977
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5762$

AGF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5603$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4067$

Absolute Open Flow	5603	Mcf/d @ 15.025	Angle of Slope @	Slope, n	75
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Remarks: Produced light mist of water throughout test. Vented 546 MCF.

Approved By Commission:	Conducted By:	Calculated By:	Checked By: BAR
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