

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 9-04-81	
Company Northwest Pipeline Corporation						Connection New Completion	
Pool Blanco						Formation Mesa Verde	
Completion Date 8-22-81		Total Depth 6100'		Plug Back TD 6060'		Elevation 6661'	
Firm or Lease Name Rosa Unit						Well No. #91	
Gas Rate 7.000	Wt. 20.0	d 6.456	Set At 3990'	Perforations: From 5630' To 5989'		Unit Sec. Twp. Rge. H 35 32N 6W	
4.500	10.5	4.052	3801' - 6092'				
2.375	4.7	1.995	5851'				
Type Well - Single - Brasshead - G.G. or G.O. Multiple Gas - Single						Packer Set At None	
Producing Thru Tubing						County Rio Arriba	
Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	G _g est. .580	% 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	
1.	2"	x	.750"	228		69 ⁰	228		579		SIP 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 _{sp}	Rate of Flow Q, Mcfd
1.	9.604		240	.992	1.313	1.016	3050
2.							
3.							
4.							
5.							

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

P _r 1030	P _c ² 1060900	
NO.	P _r ²	P _w ²
1.	591	349281
2.		
3.		
4.		
5.		

(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.4908$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.3492$
ACF = $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 4115$	

Absolute Open Flow 4115	Mcfd @ 15.025	Angle of Slope @	Slope, n 75
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Remarks: Produced light mist of water throughout test. Vented 423 MCF.

Approved By Commission:	Conducted By: Fred S. Hamrick	Calculated By: B.J. Broughton	Checked By: <i>[Signature]</i>
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