

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 7/11/85	
Company Northwest Pipeline Corporation			Connection New Completion		
Pool Undesignated			Formation Gallup		Unit Rosa
Completion Date 9/19/84		Total Depth 8080'	Plug Back TD 8035'	Elevation 6280' GR	Farm or Lease Name Rosa Unit
Csg. Size 4.500	Wt. 11.6	d 4.052	Set At 8080'	Perforations: From 6766' To 7266'	
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 7990'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Dual				Packer Set At 7400'	Well No. #116 (Gal)
Producing Thru Annulus		Reservoir Temp. °F a	Mean Annual Temp. °F	Baro. Press. - P _a 12.0	County Rio Arriba
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										
1.	2"	x	.750"					68 ⁰	*	208	68 ⁰
2.											
3.									*	Annular Flow	
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		220	.992	1.302	1.016	2773
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcf/bbl.	Deg.
1.												
2.												
3.												
4.												
5.												

P _c 2422 P _c ² 5866084				RECEIVED AUG 05 1985 OIL CON. DIV. DIST. 3		
NO	P _t ²	P _w	P _w ²			P _c ² - P _w ²
1		283	80089			5785995
2		(Calc.)				
3						
4						
$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0138 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0104$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2802$						

Absolute Open Flow 2802 Mcfd @ 15.025		Angle of Slope @ Slope, n .75	
Remarks: Well produced light mist of water throughout test. Vented 347 MCF.			
GI	i-e-s	FcQ ²	R ² Pt ² R ² +Pt ² Calc. Pw
3992	.252	126252	31816 48400 80216 283 psia
Approved By Commission:		Conducted By: Chik Charley	Calculated By: S.K. Liese
		Checked By: M.J. Turnbaugh	