

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9/01/94			
Company NORTHWEST PIPELINE CORPORATION				Connection WILLIAMS PRODUCTION COMPANY					
Pool BLANCO				Formation PICTURED CLIFFS				Unit ROSA	
Completion Date 08/17/94		Total Depth 5955'		Plug Back TD 5938'		Elevation 6275' GR		Farm or Lease Name ROSA UNIT	
Casing Size 4-1/2"		Weight 10.5#		d 4.052"		Set At 5955'		Perforations: From 3139' To 3225'	
Tubing Size 1-1/2"		Weight 2.9#		d 1.610"		Set at 3214'		Perforations: From To	
Type Well - Single - Bradenhead - GG or GO Multiple MULTIPLE				Packer Set At 3950'				County RIO ARriba	
Producing Thru TUBING		Reservoir Temp. °F		Mean Annual Temp. °F		Barometer Pressure - P _a		State NEW MEXICO	
L	H	Gg	%CO ₂	%N ₂	%H ₂ S	Prover	Meter Run 2"	Taps	

FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover X Line Size	Orifice Size	Pressure p.s.i.g.	Temperature °F	Pressure p.s.i.g.	Temperature °F	Pressure p.s.i.g.	Temperature °F	Duration of Flow
SI	2" X 3/4"				1418		1419		0
1.					347	56	1234		0.5 HRS
2.					333	60	1184		1.0 HRS
3.					320	64	1154		1.5 HRS
4.					314	66	1124		2.0 HRS
5.					299	69	1080		3.0 HRS

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_e}$	Pressure P _t	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	9.604		311	9915	1.270	1.028	3.836
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 .62 XXXXXXX	
3.					Specific Gravity Flowing Fluid xxxxxx	
4.					Critical Pressure _____ p.s.i.a. p.s.i.a.	
5.					Critical Temperature _____ R R	

P _c 1430 P _c 2,044,900				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.				
2.				
3.				
4.				

(1) $\frac{P_c^2}{P_c^2 - P_{w2}} = \frac{1.0496}{1.0496 - 1.0496} = 1.0420$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.997$

Slope, n 0.85

Absolute Open Flow 3997 Mcfd @ 15.025		Angle of Slope e _____	
Remarks:			
Approved By Commission:	Conducted By: C. CHARLEY	Calculated By: MARK MCCALLISTER	Checked By: <i>[Signature]</i>