

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 08/27/94		SEP - 8 1994	
Company NORTHWEST PIPELINE CORPORATION				Connection WILLIAMS PRODUCTION COMPANY				OIL CON. DIV. DIST. 3	
Pool BLANCO				Formation MESAVERDE				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 5303' To 5781'	
Tubing Size 1-1/2"		Weight 2.9#		d 1.610"		Set at 5739'		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	%CO₂		%N₂		%H₂S	Prover	Meter Run 2"
FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X	Orifice Size	Pressure p.s.i.g.	Temperature °F	Pressure p.s.i.g.	Temperature °F	Pressure p.s.i.g.	Temperature °F
1.	2" X 3/4"					881			
2.						188	56		
3.						168	58		
4.						167	58		
5.						164	58		
6.						163	60		
RATE OF FLOW CALCULATIONS									
NO.	Coefficient (24 Hour)		√h_p	Pressure P_t	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd	
1.	9.604			175	1.0	1.270	1.016	2168	
2.									
3.									
4.									
5.									
NO.	P_r	Temp. °R	T_r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator GAS .62 XXXXXX Specific Gravity Flowing Fluid xxxxxx _____ Critical Pressure _____ p.s.i.a. _____ p.s.i.a. Critical Temperature _____ R _____ R				
1.									
2.									
3.									
4.									
5.									
P_c 893 P_c 797,449					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0399$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0338$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.241$				
NO.	P_c²	P_w	P_w²	P_c² - P_w²					
1.									
2.									
3.									
Absolute Open Flow 2241 Mcfd @ 15.025 Angle of Slope e _____ Slope, n 0.85									
Remarks: _____									
Approved By Commission:			Conducted By: C. CHARLEY		Calculated By: MARK MCCALLISTER			Checked By: <i>WMC</i>	