

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

Operator Williams Production Company					Lease or Unit Name ROSA UNIT				
Test Type ☒ Initial ☐ Annual ☐ Special			Test Date 9/6/98		Well Number #149A				
Completion Date 8/27/98		Total Depth		Plug Back TD		Elevation		Unit Sec Twp Rng F 12 31N 6W	
Casing Size		Weight d		Set At		Perforations: From To		County RIO ARRIBA	
Tubing Size		Weight d		Set At		Perforations: From To		Pool BLANCO	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At		Formation MV			
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa		Connection	
L	H	Gq 0.6	%CO2	%N2	%H2S	Prover 3/4"		Meter Run	Taps

FLOW DATA					TUBING DATA		CASING DATA		
NO	Prover Line Size	X Orifice Size	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Duration of Flow
SI	2" X 3/4"				1051		1052		0
1					369	61	941		0.5 hr
2					365	68	880		1.0 hr
3					355	70	856		1.5 hrs
4					344	70	811		2.0 hrs
5					331	73	789		3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604					343	0.9877	1.29	1.039	4361
2										
3										
4										
NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration					Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocabrons _____					Deq.
2					Specific Gravity Separator _____					
3					Specific Gravity Flowing Fluid xxxxxxxxxx					XXXXXXX
4					Critical Pressure _____ p.s.i.a.					____ p.s.i.a.
5					Critical Temperature _____ R					____ R
Pc	1064	Pc ²	1132096							
NO	Ptl	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2 - Pw^2} = \underline{2.3080684}$ (2) $\frac{Pc^{2.9}}{Pc^2 - Pw^2} = \underline{1.8726}$					
1		801	641601	490495						
2										
3					AOF = Q $\frac{Pc^{2.9}}{Pc^2 - Pw^2} = \underline{8166}$					
4										
Absolute Open Flow		8166	Mcf/d @ 15.025		Angle of Slope _____		Slope, n		0.75	

Remarks:			
Approved By Commission:	Conducted By:	Calculated By:	Checked By: