NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: WILLIAMS PRODUCTION COMPANY						Lease or Unit Name: ROSA UNIT		
Type Test: X Initial ☐ Annual ☐ Special			Test Date: 8-13-1998			Well Number: #152A		
Completion Date	Total Depth		Plug Back TD		Elevation	Unit Sec Twp Rng: M 36 31N-6W		
Casing Size	Weight	d	Set At	Perforations: From To		County		
Tubing Size	Weight	d	Set at	Perforations: From To		Pool: BLANCO		
Type Well - Single - Bradenhead - GG or GO Multiple			Packer Set At			Formation: MESAVERDE		
Producing Thru: Tubing	Reservoir Temp. °F		Mean Annual Temp. °F		Barometer Pressure - P_a	Connection		
L	H	Gq: .6	$\%CO_2$	$\%N_2$	$\%H_2S$	Prover: 3/4"	Meter Run	Taps

	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	Duration Of Flow Flow
SI	2" X 3/4"			849		854		0
1				322	65°	792		0.5 hr
2				317	70°	768		1.0 hr
3				306	71°	749		1.5 hrs
4				302	72°	734		2.0 hrs
5				294	74°	715		3.0 hrs

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q,Mcfd
1	9.604		306	.9868	1.29	1.039	3887
2							
3							
4							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

P_c 866 P_c^2 749956

NO.	P_t^1	P_w	P_w^2	$P_c^2 - P_w^2$
1.		727	528,529	221,427
2.				
3.				
4.				

Gas Liquid Hydrocarbon Ration _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.

Specific Gravity Separator _____ XXXXXX

Specific Gravity Flowing Fluid xxxxx

Critical Pressure _____ p.s.i.a. _____ p.s.i.a.

Critical Temperature _____ R _____ R

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.3869$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.4966$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 9,704

Absolute Open Flow 9,704 Mcfd @ 15.025 | Angle of Slope ϑ _____ | Slope, n .75

Remarks:

Approved By Commission:	Conducted By:	Calculated By: Susan Griguhn	Checked By: