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

Operator		Lease or Unit Name	
Williams Production Company		**ROSA UNIT COM**	

Test Type			Test Date		Well Number	
_X_ _Initial_	**Annual**	**Special**	**12/9/2006**		**#239A (API # 30-039-29608)**	

Completion Date	Total Depth		Plug Back TD	Elevation		Unit	Sec	Twp	Rng
12/9/2006	**3458'**			**6236'**		**P**	**02**	**31N**	**6W**

Casing Size	Weight	d	Set At	Perforations:	County	
7"	**23#**		**3205'**		**RIO ARRIBA**	

Tubing Size	Weight	d	Set At	Perforations:	Pool	
2-7/8"	**6.5#**		**3173'**		**BASIN**	

Type Well - Single-Bradenhead-GG or GO Multiple	Packer Set At	Formation
		FT

Producing Thru	Reservoir Temp. oF	Mean Annual Temp. oF	Barometer Pressure - Pa	Connection
Tubing				

L	H	Gq	%CO2	%N2	%H2S	Prover	Meter Run	Taps
		0.6				**3/4"**		

FLOW DATA / TUBING DATA / CASING DATA

NO	Prover X Orifice Line Size 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"			360		165		0
1				10	68	65		0.5 hr
2				10	68	65		1.0 hr
3				5	68	50		1.5 hrs
4				5	68	50		2.0 hrs
5				5	72	45		3.0 hrs

RATE OF FLOW CALCULATION

NO	Coefficient (24 Hours)	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q,Mcfd
1	9.604		17	0.9887	1.29	1.004	209
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	XXXXXX
4					Critical Pressure _____ p.s.i.a.	____ p.s.i.a.
5					Critical Temperature _____ R	____ R

Pc	**177**	Pc²	**31329**	

NO	Pt1	Pw	Pw²	Pc²-Pw²
1		57	3249	28080
2				
3				
4				

$$(1) \quad \frac{Pc^2}{Pc^2-Pw^2} = \underline{1.1157051} \qquad (2) \quad \frac{Pc^2 \wedge n}{Pc^2-Pw^2} = \underline{1.0856}$$

$$AOF = Q \quad \frac{Pc^2 \wedge n}{Pc^2 - Pw^2} = \underline{227}$$

Absolute Open Flow	**227**	Mcfd @ 15.025	Angle of Slope _____.	Slope, n	**0.75**

Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By: