[redacted]

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**				
Test Type	Test Date		Well Number (API #)				
X Initial **Annual** **Special**	**6/30/2005**		**#203A (API # 30-039-29456)**				
Completion Date	Total Depth	Plug Back TD	Elevation	Unit	Sec	Twp	Rng
6/24/2005	**3293'**		**6336'**	**N**	**18**	**31N**	**05W**
Casing Size / Weight / d	Set At	Perforations:		County			
5 1/2" / 17	**3280'**	**3081' - 3213'**		**Rio Arriba**			
Tubing Size / Weight / d	Set At	Perforations:		Pool			
2 7/8" / 6.5	**3224'**			**Basin**			
Type Well - Single-Bradenhead-GG or GO Multiple		Packer Set At		Formation			
				Fruitland Coal			
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 Line Size	X Orifice Size	Pressure p.s.i.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Duration of Flow
SI	**2" X 3/4"**				**240**	**70**	**1100**		**0**
1					**230**	**70**	**1145**		**0.5 hr**
2					**230**	**60**	**1145**		**1.0 hr**
3					**200**	**60**	**1035**		**1.5 hrs**
4					**195**	**50**	**1035**		**2.0 hrs**
5					**195**	**50**	**980**		**3.0 hrs**

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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**		**207**	**1.0098**	**1.29**	**1.018**	**2636**
2							
3							
4							

NO	Pr	Temp. oR	Tr	Z
1				
2				
3				
4				
5				

Gas Liquid Hydrocarbon Ration ____ Mcf/bbl.
A.P.I Gravity of Liquid Hydrocabrons ____. Deq.
Specific Gravity Separator ____. XXXXXX
Specific Gravity Flowing Fluid xxxxxxxxxx
Critical Pressure ____ p.s.i.a. ____ p.s.i.a.
Critical Temperature ____ R ____ R

Pc **1112** Pc2 **1236544**

NO	Pt1	Pw	Pw2	Pc2-Pw2
1		**992**	**984064**	**252480**
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} = \mathbf{4.8975919}$ (2) $\frac{Pc2^n}{Pc2-Pw2} = \mathbf{3.2922056}$

AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \mathbf{8679}$

Absolute Open Flow **8679** Mcfd @ 15.025 Angle of Slope ____. Slope, n **0.75**

Remarks:

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

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