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: ***X Initial*** **Annual** **Special**			Test Date: **12/8/1999**			Well Number: **#16C**			
Completion Date: **11/29/1999**	Total Depth: **6119'**		Plug Back TD: **6093'**		Elevation	Unit: **E**	Sec: **14**	Twp: **31N**	Rng: **6W**
Casing Size: **4-1/2"**	Weight: **10.5#**	d	Set At: **6119'**	Perforations: **From 4470' To 5573'**		County: **Rio Arriba**			
Tubing Size: **2-3/8"**	Weight: **4.7#**	d	Set At: **5817'**	Perforations: **From 5679' To 5981'**		Pool: **Blanco MV**			
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"**			**868**		**879**		**0**
1				**310**	**54**	**771**		**0.5 hr**
2				**301**	**58**	**749**		**1.0 hr**
3				**289**	**59**	**728**		**1.5 hrs**
4				**286**	**62**	**712**		**2.0 hrs**
5				**271**	**62**	**672**		**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**		**283**	**0.9981**	**1.29**	**1.025**	**3587**
2							
3							
4							

NO	Pr	Temp. oR	Tr	Z
1				
2				
3				
4				
5				
Pc	**891**	Pc2	**793881**	

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

NO	Pt1	Pw	Pw2	Pc2-Pw2
1		**684**	**467856**	**326025**
2				
3				
4				

(1) Pc2 / (Pc2-Pw2) = **2.4350311** (2) Pc2^n / (Pc2-Pw2) = **1.9492986**

AOF = Q Pc2^n / (Pc2 - Pw2) = **6992**

Absolute Open Flow	**6992**	Mcfd @ 15.025	Angle of Slope _____.	Slope, n	**0.75**

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Chic Charley	Tracy Ross	David Spitz