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: **9/12/99**			Well Number: **#165**			
Completion Date: **9/3/99**	Total Depth: **6085'**		Plug Back TD: **6050'**		Elevation: **6393' GR**		Unit: **F**	Sec: **25**	Twp: **31N** Rng: **6W**
Casing Size: **4 1/2"**	Weight: **10.5#**	d	Set At: **6085'**	Perforations: **From 3229' To 3426'**			County: **Rio Arriba**		
Tubing Size: **2 3/8"**	Weight: **4.7#**	d	Set At: **3369'**	Perforations:			Pool: **Rosa Pictured Cliffs**		
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At			Formation: **PC**		
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"**			**1046**		**1047**		**0**
1				**227**	**63**	**716**		**0.5 hr**
2				**198**	**71**	**571**		**1.0 hr**
3				**161**	**74**	**501**		**1.5 hrs**
4				**159**	**77**	**464**		**2.0 hrs**
5				**103**	**81**	**377**		**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**		**115**	**0.9804**	**1.29**	**1.02**	**1425**
2							
3							
4							

NO	Pr	Temp. oR	Tr	Z
1				
2				
3				
4				
5				
Pc	**1059**	Pc2	**1121481**	

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	Pt	Pw	Pw2	Pc2-Pw2
1		**389**	**151321**	**970160**
2				
3				
4				

(1) Pc2 / Pc2-Pw2 = **1.1559753** (2) Pc2^n / Pc2-Pw2 = **1.1311137**

AOF = Q Pc2^n / Pc2 - Pw2 = **1612**

Absolute Open Flow: **1612**	Mcfd @ 15.025	Angle of Slope _____.	Slope, n: **0.85**

Remarks:

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