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	
X Initial	**Annual**	**Special**	**11/20/2000**		**#355**	

Completion Date	Total Depth		Plug Back TD	Elevation	Unit	Sec	Twp	Rng
11/11/2000	**3227'**		**3118'**	**6378'**	**G**	**33**	**32N**	**6W**

Casing Size	Weight	d	Set At	Perforations: From To	County
					Rio Arriba

Tubing Size	Weight	d	Set At	Perforations: From To	Pool
					Basin

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

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"			0		1180		0
1				540	60	1050		0.5 hr
2				405	64	830		1.0 hr
3				290	68	740		1.5 hrs
4				170	69	710		2.0 hrs
5				80	70	690		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		92	0.9905	1.29	1.010	1140
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	**1192**	Pc²	**1420864**	

NO	Pt1	Pw	Pw²	Pc²-Pw²
1		702	492804	928060
2				
3				
4				

(1) $\dfrac{Pc^2}{Pc^2-Pw^2} = $ **1.5310045**   (2) $\dfrac{Pc^{2 \wedge n}}{Pc^2-Pw^2} = $ **1.3764**

$AOF = Q \quad \dfrac{Pc^{2 \wedge n}}{Pc^2 - Pw^2} = $ **1569**

Absolute Open Flow	**1569**	Mcfd @ 15.025	Angle of Slope _____	Slope, n	**0.75**

Remarks:

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