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	10/13/98		#160		
Completion Date	Total Depth		Plug Back TD	Elevation	Unit	Sec	Twp	Rng
10/1/98					P	25	31N	6W
Casing Size	Weight	d	Set At	Perforations: From To	County			
					RIO ARRIBA			
Tubing Size	Weight	d	Set At	Perforations: From To	Pool			
					BLANCO			
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At	Formation			
					MV			
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.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"			907		908		0
1				342	63	826		0.5 hr
2				331	68	798		1.0 hr
3				321	70	776		1.5 hrs
4				303	70	760		2.0 hrs
5				284	70	746		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		296	0.9905	1.29	1.034	3756
2							
3							
4							

NO	Pr	Temp. oR	Tr	Z
1				
2				
3				
4				
5				
Pc	920	Pc^2	846400	

Gas Liquid Hydrocarbon Ration ____ Mcf/bbl.

A.P.I Gravity of Liquid Hydrocabrons ____. Deq.

Specific Gravity Separator ____.

Specific Gravity Flowing Fluid xxxxxxxxxx XXXXXX

Critical Pressure ____ p.s.i.a. ____ p.s.i.a.

Critical Temperature ____ R ____ R

NO	Pt	Pw	Pw^2	Pc^2-Pw^2
1		758	574564	271836
2				
3				
4				

(1) $\frac{Pc^2}{Pc^2-Pw^2} = 3.113642$ (2) $\frac{Pc^{2\wedge n}}{Pc^2-Pw^2} = 2.3440$

AOF = Q $\frac{Pc^{2\wedge n}}{Pc^2-Pw^2} = 8804$

Absolute Open Flow	8804	Mcfd @ 15.025	Angle of Slope ____.	Slope, n	0.75

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By: