MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test				Test Date
■ *Initial*	□ Annual	□ Special		11-11-1997

Company	Connection	
Williams Production Company		

Pool	Formation	Unit
Basin	**Fruitland Coal**	

Completion Date	Total Depth		Plug Back TD	Elevation	Farm or Lease Name
					Rosa Unit

Casing Size	Weight	d	Set At	Perforations: From To	Well No. **338**

Tubing Size	Weight	d	Set at	Perforations: From To	Unit Sec Twp Rng **L 32 32N 6W**

Type Well - Single - Bradenhead - GG or GO Multiple	Packer Set At	County **San Juan**

Producing Thru **Tubing**	Reservoir Temp. °F	Mean Annual Temp. °F	Barometer Pressure - P.	State **New Mexico**

L	H	Gq **.6**	%CO$_2$	%N$_2$	%H$_2$S	Prover **3/4"**	Meter Run	Taps

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line X Orifice Size	Pressure p.s.i.q.	Temperature °F	Pressure p.s.i.q.	Temperature °F	Pressure p.s.i.q.	Temperature °F	Duration of
SI	2" x 3/4"			1220	48°	1220		0
1.				680	78°	1038		0.5 hr
2.				602	86°	944		1.0 hr
3.				575	78°	905		1.5 hrs
4.				520	79°	888		2.0 hrs
5.				510	79°	877		3.0 hrs

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor	Gravity Factor	Super Compress.	Rate of Flow
1.	9.604		522	.9822	1.29	1.075	6828
2.							
3.							
4.							

NO.	P_r	Temp. °R	T	Z	
1.					Gas Liquid Hydrocarbon Ration_____ Mcf/bbl.
2.					A.P.I. Gravity of Liquid Hydrocarbons_____ Deq.
3.					Specific Gravity Separator_____ XXXXXX
4.					Specific Gravity Flowing Fluid_xxxxx_ _____
5.					Critical Pressure_____ p.s.i.a. ___p.s.i.a.
					Critical Temperature R R

P$_c$ __1232__   p$_c^2$ __1517824__

NO.	P_i^1	P_w	P_w^2	$P_c^2 - P_w^2$	
1.		889	790321	727503	(1) $\dfrac{P_c^2}{P_c^2 - P_w^2}$ = __2.08634__ (2) $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = __1.73596__
2.					
3.					AOF = Q $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = __11,853__
4.					

Absolute Open Flow __11,853__	Mcfd @ 15.025	Angle of Slope ϴ _____	Slope, n __.75__

Remarks:_____

Approved By Commission:	Conducted By:	Calculated By: Susan Griguhn	Checked By: