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			C .:.1	Test Date	11/20/2005		Well Number			
X In			Special	11/20/2005			<u> </u>	#3/9A (3)	0-039-27843)	
			Total Depth <b>3186'</b>		Plug Back TD		Elevation		Sec Twp	-
<b>——</b>			<del></del>		T <sub>m</sub> ,	6258'		N	08 31N	1 5W
-	Casing Size We		d	Set At	Perforations:			County	~-~ . ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
	5-1/2"		<del>                                     </del>	3184'		2965' - 3090	) <sup>*</sup>		RIO ARRIB	<u>A</u>
			d	Set At	Perforations:			Pool	TO A COUNT	
2-7/8" 6.5#			10.34 1/2-1-	3109'				<u> </u>	BASIN	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At			Formation	TOTAL	
p. J. i. Th			mn oF Moon Annual		1.T a.E.	TF		Processes PosiConnection		
Producing Thru Reservoi <b>Tubing</b>		Reservoir Te	Temp. oF Mean Annua		Barom		Barometer I	r Pressure - Pa Connection		
	H	+	%CO2		Totalo	Tayring	<u> </u>	Īn	Natara Duan	Tm
L	H	Gq <b>0.6</b>	1%CO2		%N2	%H2S		Prover <b>3/4''</b>	Meter Run	Taps
			 )W DATA			TUBING DATA			L DATA	<del>                                     </del>
	T				1 <sub>m</sub>	<b>↓</b>		CASII	NG DATA	
		X Orifice		Drassura	Temperature	Decama	Temperature	n	Temperature	
NO	Line Size	Size		Pressure	oF	Pressure	oF	Pressure	oF	Duration of
SI	Size	2" X 3/4"		p.s.i.q	<del> </del>	p.s.i.q 315	+	p.s.i.q 185	<del> </del>	Flow
1	+	4 A 314		17.34°s	<b>*</b>	18	72	72	<del> </del>	0 0.5 hr
2	+					15	74	64	<del> </del>	
3	<del> </del>				O X	11	75	55	<del> </del>	1.0 hr 1.5 hrs
4	\$ \\ \tag{\tag{\tag{\tag{\tag{\tag{\tag{			1000 13	1, 3	9	75	43	<del> </del>	<del></del>
5	+		22	141 510g	N. 3	7	79	38	+	2.0 hrs
			<del>C</del> CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		F FLOW-CAL		1,5	30		3.0 hrs
	<del></del>		16 C	ON	L LLOWETT	T	Flow Temp.	Gravity	Super	T Data of
		Coef	ficient	Official	1.65	Pressure	Factor	Factor	Compress.	Rate of Flow
NO	1			2/2-	hwPm	Pm	Fl	Fq	Factor, Fpv	Q,Mcfd
1	+	9.6			-/chimim	19	0.9822	1.29	1.004	232
2	7.004				<del> </del>	1	0.70	1.27	1.007	232
3	+				<del>                                     </del>	<del> </del>	+	<b> </b>	<del>                                     </del>	<del>                                     </del>
4	+				<del>                                     </del>	<del>                                     </del>	+	ļ	<del> </del>	<del> </del>
NO	Pr	Temp. oR	Tr	Z	Gas Liquid H	ydrocarbon Ra				Mcf/bbl.
1	1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3				A.P.I Gravity of Liquid Hydrocabrons				
2						Specific Gravity Separator				
3	1						<del></del> luid <u>xxxxxxxx</u>	/Y		xxxxxx
4	+	<del>                                     </del>		†	Critical Pressurep.s.i.a.					p.s.i.a.
5	+					Critical Temperature				p.s.r.a.
Pc	197	197 Pc <sup>2</sup> 38809			Tomas Tomas	Jiuidio		R		L
NO	Pt1	Pw	Pw <sup>2</sup>	Pc <sup>2</sup> -Pw <sup>2</sup>	(1)	$\underline{Pc^2} =$	1.0688535	(2)	$p_c^2 \wedge p =$	1.0512
1	+	50	2500	36309	\ \``	$\frac{rc}{Pc^2-Pw^2}$	1.0000000	(-)	$\frac{Pc^2 \wedge n}{Pc^2 - Pw^2}$	1.0514
2	+	<del>                                     </del>	2000	1 20207	1	10-11			1 C -1 W	
3	+	1	-	<del> </del>	AOF = Q	$D_c^2 \wedge^n$ -	<u>244</u>			
4	+	+		+	AOI - Q	$\frac{Pc^2 \wedge^n}{Pc^2 - Pw^2} =$	<u> </u>			
	Open Flow	244	Mcfd @ 15.0	025	Angle of Slope			Clana n	0.75	
Remarks:	Open 110w	477	Micia & 15.0	12.5	Aligie of Stope	<u>e</u>		Slope, n	U./5	
Approved By Commission: Conducted By:						Calculated By	***	Checked By:	***	
Typic red by Commission.			Conductor	Mark Lepich	,	Tracy Ross		Checked by.		
L			<u> </u>	War Lepich		Tracy Koss		1		