

**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 1/4/2005		Well Number (API #) #181C (API # 30-039-27714)				
Completion Date 12/16/2004		Total Depth 6747'		Plug Back TD		Elevation 6104'		Unit Sec Twp Rng A 10 31N 6W	
Casing Size 4 1/2"		Weight 10.5#		d		Set At 6747'		Perforations: 5543' - 6045'	
Tubing Size 2-3/8"		Weight 4.7#		d		Set At 6471'		Perforations: 6101' - 6430'	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At			Formation MV	
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"			585	36	1020		0
1					100	56	905		0.5 hr
2					110	58	850		1.0 hr
3					125	58	820		1.5 hrs
4					130	58	800		2.0 hrs
5					145	59	765		3.0 hrs

RATE OF FLOW CALCULATION									
NO	Coefficient (24 Hours)			hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604				157	1.001	1.29	1.013	1972
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 _____				XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxx				
4					Critical Pressure _____ p.s.i.a.				_____ p.s.i.a.
5					Critical Temperature _____ R				_____ R

Pc	1032	Pc2	1065024						
NO	Ptl	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	2.3087699	(2) $\frac{Pc2^n}{Pc2-Pw2} =$	1.8729901	
1		777	603729	461295					
2									
3									
4									
					AOF = Q	$\frac{Pc2^n}{Pc2 - Pw2} =$	3694		
Absolute Open Flow		3694	Mcf @ 15.025		Angle of Slope _____		Slope, n	0.75	

Remarks:			
Approved By Commission: <i>H. Villanueva</i>	Conducted By: Sherry Brooks	Calculated By: Tracy Ross	Checked By:

