

**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 8/24/2006		Well Number #12C (API # 30-039-29486)				
Completion Date 8/6/2006		Total Depth 6546'		Plug Back TD 6507'		Elevation 6268'		Unit Sec Twp Rng G 15 31N 6W	
Casing Size 4-1/2"		Weight 10.5#		Set At 6544'		Perforations: 5734' - 6048'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6418'		Perforations: 6092' - 6379'		Pool Blanco MV	
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"				661	62	1024		0
1					348	62	959		0.5 hr
2					333	62	859		1.0 hr
3					312	63	836		1.5 hrs
4					298	65	820		2.0 hrs
5					292	67	798		3.0 hrs

RATE OF FLOW CALCULATION								
NO	Coefficient (24 Hours)		hwPm	Pressure Pm	Flow Temp. Factor F1	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q _{Mcf}
1	9.604			304	0.9933	1.29	1.036	3876
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	1036	Pc2	1073296
NO	Pt1	Pw	Pw2
1		810	656100
2			
3			
4			

(1) $\frac{Pc2}{Pc2 - Pw2} = \underline{\underline{2.5726421}}$		(2) $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{2.0313489}}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{7873}}$			

Absolute Open Flow 7873		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By:

JB