

**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 9/16/2005		Well Number (API #) #21C (API # 30-039-26946)				
Completion Date 9/6/2005		Total Depth 5990'		Plug Back TD 5955'		Elevation 6216'		Unit Sec Twp Rng E 23 31N 06W	
Casing Size 4 1/2"		Weight 10.5#		Set At 5990'		Perforations: 4996' - 5465'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 4.7#		Set At 5784'		Perforations: 5497' - 5799'		Pool Blanco	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation Mesa Verde		
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"			630	53	860		0
1					265	70	740		0.5 hr
2					260	72	690		1.0 hr
3					255	72	675		1.5 hrs
4					250	72	660		2.0 hrs
5					235	72	625		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					247	0.9887	1.29	1.028	3110
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

NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) $Pc2 = \frac{2.1442522}{Pc2 - Pw2}$	(2) $\frac{Pc2^n}{Pc2 - Pw2} = 1.7719722$
1		637	405769	354615		
2						
3						
4						

Absolute Open Flow 5511		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By:

