

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 12/21/2005		Well Number (API #) #227A (API # 30-039-29512)				
Completion Date 11/30/2005		Total Depth 3333'		Plug Back TD		Elevation 6373'		Unit Sec Twp Rng O 07 31N 05W	
Casing Size 5 1/2"		Weight 17#		Set At 3322'		Perforations: 3077' - 3236'		County Rio Arriba	
Tubing Size 2 7/8"		Weight 6.5#		Set At 3265'		Perforations:		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation Fruitland Coal		
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.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Duration of Flow
SI		2" X 3/4"			245	68	1200		0
1					230	68	1152		0.5 hr
2					230	62	1152		1.0 hr
3					200	62	1025		1.5 hrs
4					195	53	1025		2.0 hrs
5					195	53	975		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					207	1.0068	1.29	1.018	2628
2										
3										
4										

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocarbons _____	Deq. XXXXXX
2					Specific Gravity Separator _____	
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

NO	Pc	Ptl	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$
1	1212		987	974169	494775	2.9689131	2.2617683
2							
3							
4							

Absolute Open Flow 5945		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission: <i>H. Villan</i>	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By:

