

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 9/27/2006		Well Number (API #) #270A (API # 30-039-29892)				
Completion Date 9/10/2006		Total Depth 3738'		Plug Back TD		Elevation 6754'		Unit Sec Twp Rng E 34 31N 05W	
Casing Size		Weight d		Set At		Perforations:		County Rio Arriba	
Tubing Size 2 7/8"		Weight 6.5#		Set At 3430'		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.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"				300	68	750		0
1					225	68	625		0.5 hr
2					225	62	500		1.0 hr
3					25	62	420		1.5 hrs
4					20	53	300		2.0 hrs
5					15	53	300		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		27	1.0068	1.29	1.002	337		
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	762	Pc2	580644	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		312	97344	483300
2				
3				
4				

(1) $Pc2 = 1.2014153$		(2) $Pc2^n = 1.1475454$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
$AOF = Q \frac{Pc2^n}{Pc2 - Pw2} = 387$			

Absolute Open Flow 387		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: