

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 ☒ Initial ☐ Annual ☐ Special			Test Date 7/18/2006		Well Number (API #) #180C (API # 30-045-33191)		
Completion Date 7/6/2006		Total Depth 6014'		Plug Back TD		Elevation 6263'	
Casing Size 4 1/2"		Weight 10.5#		Set At 6002'		Perforations: 5270' - 5527'	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5800'		Perforations: 5544' - 5768'	
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	
Meter Run		Taps		Prover		3/4"	
%		CO2		N2		H2S	

FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow
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	
SI	2" X 3/4"				1040	97	1071	0
1					290	63	914	0.5 hr
2					270	64	851	1.0 hr
3					256	64	811	1.5 hrs
4					246	64	780	2.0 hrs
5					235	64	747	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
1	9.604				247	0.9962	1.29	1.020
2								
3								
4								
NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration			
1					A.P.I Gravity of Liquid Hydrocabrons _____			
2					Specific Gravity Separator _____			
3					Specific Gravity Flowing Fluid xxxxxxxxxx			
4					Critical Pressure _____ p.s.i.a.			
5					Critical Temperature _____ R			

Pc	1083	Pc2	1172889	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		759	576081	596808
2				
3				
4				
(1) $\frac{Pc2}{Pc2-Pw2} = 1.9652702$ (2) $\frac{Pc2^n}{Pc2-Pw2} = 1.6598418$ AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = 5161$				
Absolute Open Flow		Mcf @ 15.025		Angle of Slope
5161				Slope, n
				0.75

Remarks:			
Approved By Commission:	Conducted By: Ben Mitchell	Calculated By: Tracy Ross	Checked By:

