

**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 <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special			Test Date 6/20/2005		Well Number (API #) #139B (API # 30-045-31137)						
Completion Date 5/18/2005		Total Depth 8440'		Plug Back TD		Elevation 6404'		Unit Sec Twp Rng K 17 31N 6W			
Casing Size 3 1/2"		Weight 9.3#	d	Set At 8440'	Perforations: 5378' - 5912'			County San Juan			
Tubing Size 2-3/8"		Weight 4.7#	d	Set At 3253'	Perforations: 5990' - 6286'			Pool Blanco MV			
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At 6400'			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.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"			990	112	1020		0		
1					210	49	918		0.5 hr		
2					200	51	889		1.0 hr		
3					197	52	855		1.5 hrs		
4					190	52	838		2.0 hrs		
5					181	52	803		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				193	1.0078	1.29	1.014	2443		
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 _____					XXXXXXX	
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx						
4					Critical Pressure _____ p.s.i.a.					____ p.s.i.a.	
5					Critical Temperature _____ R					____ R	
Pc	1032	Pc2	1065024								
NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$		2.6572521		(2) $\frac{Pc2^n}{Pc2-Pw2} =$		2.0812515
1		815	664225	400799							
2											
3											
4					AOF = Q		$\frac{Pc2^n}{Pc2 - Pw2} =$		5086		
Absolute Open Flow		5086		Mcf/d @ 15.025		Angle of Slope _____			Slope, n		0.75
Remarks:											
Approved By Commission:			Conducted By: Tom Montoya			Calculated By: Tracy Ross			Checked By:		

8