

**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 9/22/2005		Well Number (API #) #18B (API # 30-039-27052)				
Completion Date 9/12/2005		Total Depth 5985'		Plug Back TD 5953'		Elevation 6236'		Unit Sec Twp Rng O 22 31N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 5983'		Perforations: 5198' - 5502'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5822'		Perforations: 5534' - 5845'		Pool Blanco MV	
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 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"				1000	52	1000		0
1					120	72	820		0.5 hr
2					105	74	735		1.0 hr
3					105	74	700		1.5 hrs
4					95	74	690		2.0 hrs
5					82	74	660		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					94	0.9868	1.29	1.010	1161
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 xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	1012	Pc2	1024144	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		672	451584	572560
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} = \underline{1.7887104}$		(2) $\frac{Pc2^n}{Pc2-Pw2} = \underline{1.5466962}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{1795}$			

Absolute Open Flow	1795	Mcf/d @ 15.025	Angle of Slope _____	Slope _____ 0.75
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Remarks:		
Approved By Commission:	Conducted By: Sherry Brooks	Calculated By: Tracy Ross

