

**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 10/5/2005		Well Number (API #) #188B (API # 30-039-27605)				
Completion Date 9/26/2005		Total Depth 6491'		Plug Back TD 6469'		Elevation 6742'		Unit Sec Twp Rng E 34 31N 5W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6489'		Perforations: 5549' - 5920'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6275'		Perforations: 5981' - 6295'		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"			130	52	900		0
1					100	68	810		0.5 hr
2					90	70	765		1.0 hr
3					95	71	700		1.5 hrs
4					95	71	690		2.0 hrs
5					85	71	640		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		97	0.9896	1.29	1.010	1201
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	912	Pc2	831744	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		652	425104	406640
2				
3				
4				

(1) $\frac{Pc2}{Pc2 - Pw2} = \underline{2.0454063}$		(2) $\frac{Pc2^n}{Pc2 - Pw2} = \underline{1.7103488}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{2054}$			

Absolute Open Flow	2054	Mcf/d @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Sherry Brooks	Calculated By: Tracy Ross	Checked By: